



CATALOGUE 214 KATALOG



f FRABO



Only excellence allows to compete in the international market. The challenge can be faced thanks to the passion and the energy of the researchers, who plan and manufacture avant-garde quality and technology, a team which is perfectly integrated for providing total customer satisfaction; we are ready!



Nur Spitzenleistungen ermöglichen uns, sich dem internationalen Wettbewerb zu stellen. Einer Herausforderung, welche von der Leidenschaft und Energie von Menschen getragen wird, die Produkte von höchster Qualität und Technologie zur totalen Zufriedenheit unserer Kunden erforschen, entwerfen und herstellen. Wir sind bereit!

BONOMI
DEUTSCHLAND

BONOMI-GPK
RUSSIA

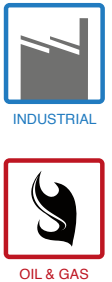
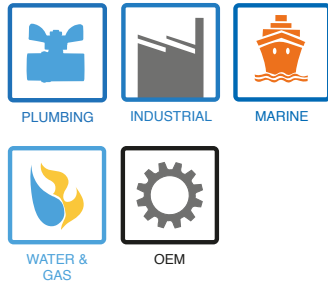
BONOMI
UK

BONOMI
CHINA

BONOMI
NORTH AMERICA

BONOMI
BRASIL

BONOMI
INDIA



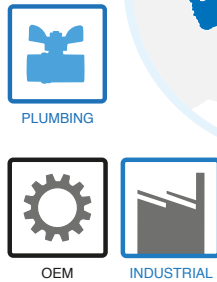
RUBINETTERIE BRESCIANE

VALPRES

FRABO



VALBIA



QUAM



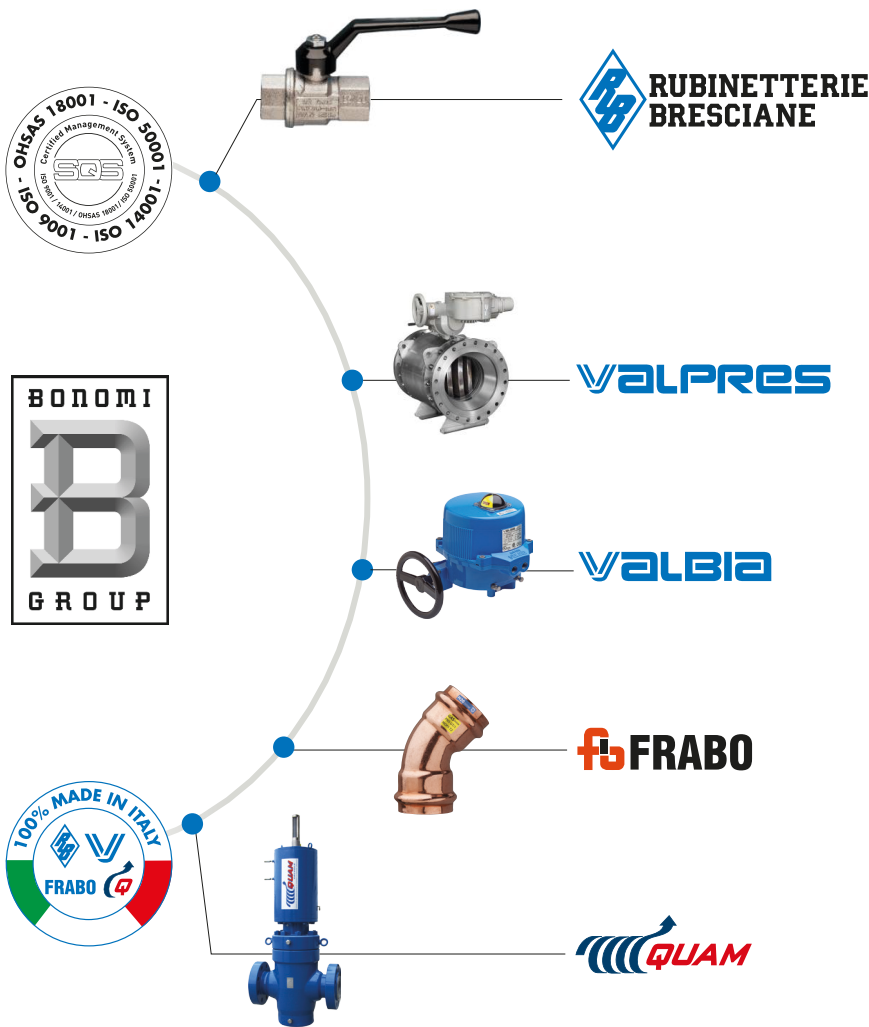
FRABO


























- **1901**  **Rubinetterie Bresciane Bonomi** was initially founded in Lumezzane simply as a valve manufacturer for the winery industry.
 **Rubinetterie Bresciane Bonomi** wurde in Lumezzane als Hersteller von Kugelhähnen gegründet, ursprünglich mit Spezialisierung im Weinsektor Bereich.
- **1967**  Thanks to a commitment to research and development through investments, the group has been affirmed as the **first** leading international player in **manufacturing two-piece ball valves**.
 Dank der ständigen Suche nach innovativen Lösungen entwirft, patentiert und fertigt Rubinetterie Bresciane den **ersten zweiteiligen Kugelhahn**, ein heute handelsüblichen Produkt.
- **1978**  **Valpres** was founded as a specialized manufacturer of steel and cast iron ball valves with a focus on industrial applications.
 **Valpres** wurde als Hersteller von Kugelhähnen aus Stahl und Gusseisen für den Industriemarkt gegründet.
- **1980**  Bonomi Group acquires **Univers**, a producer of non ferrous metal items, turned and machined, according to customer drawings, turned parts.
 Die Bonomi Group erwirbt **Univers**, spezialisiert auf die Herstellung von Teilen aus Nichteisenlegierungen auf Zeichnungsbasis mittels Drehmaschinen.
- **1995**  **Valbia** was founded for the production and distribution of electric and pneumatic actuators on a global scale.
 **Valbia** ist geboren, das einzige Unternehmen in Italien, das einfach und doppelt wirkende elektrische und pneumatische Antriebe herstellt.
- **1998**  **Bonomi Deutschland** was founded.
 Entstehung von **Bonomi Deutschland**.
- **1999**  **Bonomi UK** was founded.
 Entstehung von **Bonomi UK**.
- **2000**  **Bonomi India** was founded.
 Entstehung von **Bonomi India**.
 Bonomi Group acquires **Bossini Stampaggio**, active hot forging manufacturer.
 Die Bonomi Group übernimmt **Bossini Stampaggio**, die im Heißverformung tätig ist.
- **2003**  **Bonomi North America** was founded.
 Gründung von **Bonomi Nordamerika**.
- **2012**  **Bonomi Brasil** was founded for the production and distribution of pneumatic actuators for the domestic market.
 Gründung von **Bonomi Brasil** zur Herstellung und zum Vertrieb von pneumatischen Antrieben auf dem brasilianischen Markt.
- **2013**  **Bonomi-GPK Russia** was founded.
 Gründung der **Bonomi-GPK Russland**.
- **2014**  Opened a **new production facility of Rubinetterie Bresciane**: 120.000 sq. mt, 43.000 of which is covered by with state-of-the-art technologies granting the plant the A+ energy certification.
 Das neue Werk in der Rubinetterie Bresciane wird in Gussago eingeweiht: 120.000 Quadratmeter, von denen 43.000 überdacht sind nach modernsten Technologien gebaut wurden, mit denen die A+ -Energiezertifizierung erstmals in der Lombardei erhalten werden konnte.
- **2018**  **Bonomi China** (Bonomi Valves Automation Shenzhen) was founded.
 **Bonomi China** (Bonomi Valves Automation Shenzhen) wird gegründet.
- **2019**  Bonomi Group has completed the acquisition of **Fra.Bo**, Italian leading manufacturer of fittings for plumbing installations.
 Die Bonomi Group erwirbt **Fra.Bo**, führend in der Herstellung von Fittings für Sanitär- und Heizungsanlagen.
- **2020**  Bonomi Group acquires the 70% of the capital of **Quam**, company specialized in designing and producing choke valves, special valves and control systems for Oil&Gas industry and all the assets of the innovative startup **Loclain**.
 Die Bonomi Group erwirbt 70% des Kapitals der Fa. **Quam**, einem Unternehmen, welches sich auf die Entwicklung und Produktion von Drosselventilen, Spezialventilen und Steuerungssystemen für die Öl- und Gasindustrie spezialisiert hat. Ferner wurden alle Vermögenswerte des innovativen Startups **Loclain** erworben.

Today and tomorrow Grow to compete on international markets.
Heute und morgen Wachsen, um auf internationalen Märkten zu konkurrieren.





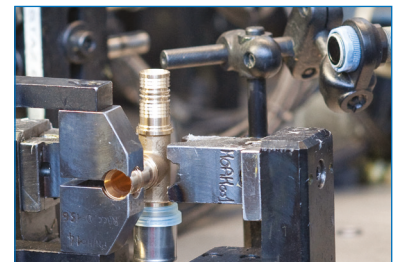
-  Brass ball valves, gas cocks, brass butterfly valves, check valves, back flow prevention devices, pressure reducers and self cleaning filters. Multilayers pipe and press brass fittings, press systems and valves for copper, coppernickel, stainless and carbon steel pipes. Accesories for the water and heating distribution.
-  Kugelhähne aus Messing, Gashähne, Absperrklappen aus Messing, Rückschlagventile, Rückflussverhinerer, Druckminderer und selbstreinigende Filter. Mehrschichtrohre und Formstücke, Pressfittings und Presskugelhähne aus Kupfer-, Kupfernickel-, Edelstahl- und C-Stahl. Zubehör für die Sanitär- und Heizungsverteilung.
-  Stainless steel and carbon steel, cast iron ball valves, butterfly valves, trunion, cryogenic and control ball valves.
-  Kugelhähne aus Edelstahl, C-Stahl und Gusseisen, Absperrklappen aus Gusseisen, Zapfengekagerte-, Kryo- und Regelkugelhähne. Pneumatische einfach- und doppeltwirkende Zahnstangenantriebe.
-  Production of rack and pinion double acting and spring return pneumatic actuators. Production of electric actuators. Supply and automation of ball and butterfly valves and accessories.
-  Herstellung von elektrischen Antrieben. Lieferung und Automatisierung von Kugelhähne und Absperrklappen mit Steuerungszubehör.
-  Copper and bronze, carbon and stainless steel pressfittings, copper and bronze solder fittings, bronze and brass threaded fittings.
-  Pressfittings aus Bronze, Kupfer, Edelstahl und C-Stahl, Lötfitings aus Bronze und Kupfer, Gewindefittings aus Bronze und Messing.
-  Choke valves, special valves and control systems for Oil&Gas industry.
-  Drosselventile, Spezialventile und Steuerungssysteme für die Öl- und Gasindustrie.















IMPORTANT NUMBERS – WESENTLICHE ZAHLEN

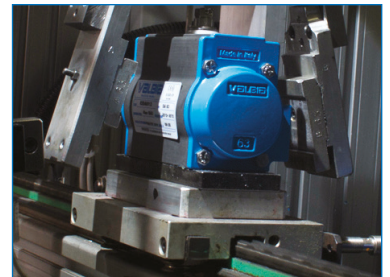
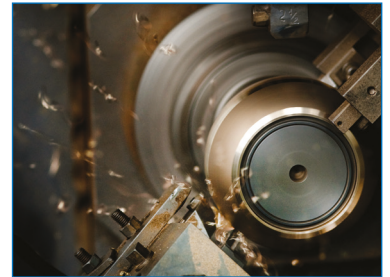
190,1 Mln €	 2019 turnover of Bonomi Group (producing companies).	114	 Approvals.
	 2019 Umsatz der Bonomi Group (Produktionsfirmen).		 Zulassungen.
602	 Employees in Italy.	96	 Patents.
	 Mitarbeiter in Italien.		 Patente.
6	 Production facilities.	52	 Main alloys machined.
	 Produktionseinheiten.		 Hauptbearbeitete Legierungen.
220.000	 sqm production plant area.	6	 Foreign sales units.
	 Qm der Produktionsfirmen.		 Ausländische Gewerbeeinheiten.
90.000	 sqm covered area production plant.	+100	 Countries that we deal with.
	 Überdachte Quadratmeteranzahl der Produktionsfirmen.	+25.000	 Sold items.
			 Verkaufte Artikel.

KEY POINTS – FAKTEN UND DATEN

-  The Bonomi Group mission is based on **integrated group synergies**, with **passion as the essential element of our work**.
-  Die Mission der Bonomi Group basiert auf der **Synergie einer integrierten Gruppe**, welche **die Leidenschaft zum wesentlichen Element ihrer Arbeit macht**.



-  We work every day aiming at **total quality**, which depends on the quality of the individual operations in the production process.
-  Wir arbeiten jeden Tag mit dem Ziel einer **Gesamtqualität**, die von der Qualität der einzelnen Abläufe des Produktionsprozesses abhängt.
-  Very high **level of automation**: in the production lines, the control system and production management (MES) with the real time data collection, in logistics, that permit traceability from raw material to delivery.
-  Sehr hoher **Automatisierungsgrad**: In Produktionslinien, im Produktionssteuerungs- und -managementsystem (MES) mit Echtzeitdatenerfassung und in der Logistik, welche die Rückverfolgbarkeit der Produktion vom Rohstoff bis zum Gelieferten Produkt ermöglichen.
-  Constant investment in product, in process and method innovation, aimed at **maximum customer satisfaction**.
-  Ständige Investitionen in Produkt-, Prozess- und **Methodeninnovationen** mit dem Ziel der **maximalen Kundenzufriedenheit**.
-  The companies of the group are engaged in the **digital transformation**, from R&D to production, to sales and marketing, to the relationship with the consumer through CRM, with a fundamental presence of high specialized human capital.
-  Die Konzernunternehmen befassen sich mit der kompletten **Digitaltransformation**, von Forschung und Entwicklung über Produktionsabteilungen, Vertrieb und Marketing bis hin zur Beziehung zum Endverbraucher über CRM, mit einer Organisation von Prozessen im Hinblick auf Industrie 4.0, ohne jedoch die Grundlegende Präsenz hochspezialisierten Humankapitals zu vernachlässigen.
-  Bonomi has always deemed it important to adapt its company management system to the international reference standards:
 - **ISO9001**, products' quality management system, since 1994, first company in Italy in our market segment (previously EN 29002 certified);
 - **ISO14001**, environmental management system, since 2001;
 - **OHSAS18001**, occupational health and safety management system, since 2004;
 - **ISO50001**, energy management system, since 2015;
 - **API6D**, specification for pipeline valves, since 2013;
 - **API6A**, specification for wellhead and Christmas Tree Equipment, since 2015;
 - **AEO/AEOF**, Authorized Economic Operator Full (internal management of customs procedures relating to import and exports of goods), since 2014.
-  Die Bonomi Group hat es immer für wichtig gehalten, ihr Unternehmensmanagementsystem an die internationalen Referenzstandards anzupassen:
 - **ISO9001**, Qualitätsmanagementsystem; 1994 zum ersten Mal das erste Unternehmen in Italien in diesem Sektor (bereits nach EN 29002 zertifiziert);
 - **ISO14001**, Unternehmensmanagementsystem, seit 2001;
 - **OHSAS18001**, Managementsystem für Gesundheit und Sicherheit der Arbeitnehmer, seit 2004;
 - **ISO50001**, Energiemanagementsystem, seit 2015;
 - **API6D**, speziell für Leitungskugelhähne, ab 2013;
 - **API6A**, speziell für Kugelhähne, die seit 2015 an Bohrlochköpfen installiert sind;
 - **AEO/AEOF**, zugelassener Wirtschaftsbeteiligter (interne Verwaltung der Zollverfahren für die Ausfuhr und Einfuhr von Waren), seit 2014.
-  Bonomi Group has a **social corporate responsibility**, with motivation and HR management, promotes career advancements, benefit plans and services, such as a company gym and courses, with the aim of increasing employees' welfare and well-being.
-  Die Bonomi Group **arbeitet mit ihren Mitarbeitern zusammen**, fördert ihr Zugehörigkeitsgefühl durch den Hebel des "Wohlfühlens" am Arbeitsplatz, bietet den Mitarbeitern ein Fitnessstudio, fördert Auffrischkurse für Tausende von Stunden und belohnt Mitarbeiter mit Fortschritten in Karriere.
-  **Environmental commitment and sustainable production**: the electricity needed is produced mainly from the photovoltaic panels (1,8MW); the heat is obtained mainly through an internal geothermal plant; architectural solutions, like shed roofs, maximize the zenithal light and minimize the solar radiation during summertime; low environmental impact products used in production processes; wastes recycles processes (oils, waters, materials, etc.) eliminate pollution or disposal hazards.
-  **Umweltschutz und nachhaltige Produktion**: Der notwendige Strom wird hauptsächlich durch Photovoltaikmodulen (1,8 MW) erzeugt. Die geothermische Anlage trägt zum Heizen und Kühlen bei (COP 6). zenithale Ausrichtung der Abteilungen und des Schuppendaches mit großen Fenstern, um künstliches Licht zu minimieren und übermäßige Sonneneinstrahlung und Überhitzung im Sommer zu vermeiden; Aufmerksamkeit bei der Auswahl von Produkten mit geringer Umweltbelastung, die in Produktionsprozessen verwendet werden; korrekte Entsorgung von Abfällen (Öle, Wasser, Materialien, usw.), um das Risiko einer Verschmutzung oder gefährlichen Entsorgung auszuschließen.



1. Business divisions

Fra.Bo produces a complete range of copper and bronze, stainless steel and carbon steel pressfittings, copper and bronze solder fittings, brass compression fittings and bronze, brass and steel threaded fittings.

We are present in the world with a basic philosophy: to be where our customers are. Only in this way we can play an important role for companies that seek not only reliable components in line with the regulations and standards of the different countries, but also international partners, able to support them quickly and effectively.

For this reason, to better meet our customers' needs, Fra.Bo has the following 3 divisions: plumbing, industrial and OEM.

Example of Fra.Bo's know-how and innovation in pressfittings is Securfrabo patented security system, which immediately shows non-pressed fittings.

Each product in this document can be uniquely identified by the complete code, chosen by consulting this catalogue, by visiting the website or with the assistance of Fra.Bo sales department.

1. Die Abteilungen

Fra.Bo produziert ein komplettes Sortiment an Pressfittings aus Kupfer und Bronze, Edelstahl und C-Stahl, Lötfitings aus Kupfer und Bronze, Klemmringfittings aus Messing und Gewindefittings aus Bronze, Messing und Stahl.

Wir sind mit einer Grundphilosophie auf dem Markt präsent: dort zu sein, wo unsere Kunden sind. Nur so können wir eine wichtige Rolle für Unternehmen spielen, die nicht nur nach zuverlässigen Produkte suchen, die den Vorschriften und Standards der verschiedenen Länder entsprechen, sondern auch nach einem internationalen Partner, der die Kunden schnell und effektiv unterstützen kann.

Aus diesem Grund ist Fra.Bo mit drei internen Abteilungen strukturiert worden, um die Kundenbedürfnisse bestmöglich zu erfüllen: Sanitär und Heizung, Industrie und OEM.

Ausdruck des Know-hows und der Innovation von Fra.Bo, insbesondere bei den Pressfittings, ist das patentierte Sicherheitssystem von Securfrabo, mit dem Sie dank der besonderen Form des O-Rings nicht gepresste Fittings sofort identifizieren können.

Jedes Produkt in diesem Katalog kann anhand des Codes identifiziert werden, der vom Kunden unabhängig ausgewählt wird, indem der Katalog konsultiert, auf die Unternehmenswebsite zugegriffen oder das Fra.Bo-Verkaufsbüro um Unterstützung gebeten wird.

1. Les secteurs

Fra.Bo produit une gamme complète de raccords à sertir en cuivre et bronze, acier inox et acier au carbone, raccords à souder en cuivre et bronze, raccords à compression en laiton et raccords filetés en bronze, laiton et acier.

On est présents dans le marché avec une philosophie générale: être là où nos clients sont. C'est uniquement de cette façon que nous pouvons exercer un rôle important pour des interlocuteurs qui ne cherchent pas seulement des composants fiables réalisés selon les normes et les standards des différents pays mais aussi et surtout un partenaire international en mesure de donner un support rapide et efficace. Pour cette raison, pour mieux satisfaire toute exigence du client, Fra.Bo s'est structurée en 3 sections internes: plomberie et chauffage, secteur industriel et OEM.

Le système de sécurité breveté Securfrabo, en particulier pour les raccords à sertir, est l'expression du know-how et de l'innovation de Fra.Bo: grâce à la conformation particulière du joint torique, on peut détecter immédiatement éventuels raccords non sertis.

Chaque produit de ce catalogue peut être identifié grâce au code, choisi en autonomie par le client en consultant le catalogue, le site web ou avec l'assistance du département commercial Fra.Bo.

1. Las divisiones

Fra.Bo produce una gama completa de racores para prensar de cobre y de bronce, de acero inox y acero al carbono, racores para soldar de cobre y de bronce, racores a compresión de latón y racores roscados de bronce, latón y acero.

Estamos presentes en el mercado con una filosofía de fondo: estar donde están nuestros clientes. Sólo así podemos ejercer un papel importante para empresas que no buscan sólo componentes fiables y conformes a las normas y a los estándares en los diversos países, sino también un partner internacional, capaz de apoyarlos con rapidez y eficacia. Por esta razón, para satisfacer adecuadamente las necesidades del cliente, Fra.Bo se ha estructurado con 3 divisiones internas: calefacción y fontanería, industrial y OEM.

Expresión de los conocimientos técnicos y de la innovación de Fra.Bo, en particular en los racores para prensar, es el sistema de seguridad patentado Securfrabo, que, gracias a la conformación particular de la junta tórica, permite reconocer rápidamente los puntos donde falta el prensado.

Cada producto en este catálogo puede identificarse por el código. El cliente puede elegir el producto de forma independiente consultando el catálogo, el sitio web o con la ayuda de la oficina comercial de Fra.Bo.

1. Направления

Fra.Bo производит полный ассортимент пресс-фитингов из меди и бронзы, нержавеющей и углеродистой стали, фитингов под сварку из меди и бронзы, компрессионных фитингов из латуни и резьбовых соединений из бронзы, латуни и стали.

Наша философия: быть там, где находится наш клиент. Только так мы можем играть важную роль для компаний, которые не только ищут продукцию, надежную и в соответствии с нормативами и стандартами различных стран, но также и между народного партнера, способного быстро и эффективно поддержать их. И для того, чтобы наилучшим образом удовлетворить потребности клиентов, предприятие Fra.Bo имеет 3 основных направления: водоснабжение и отопление, промышленное и OEM.

Олицетворением ноу-хау и инноваций Fra.Bo, особенно при производстве пресс-фитингов, является запатентованная система безопасности Securfrabo, которая, благодаря особой конструкции кольцевой прокладки, позволяет сразу же выявлять возможное наличие непрессованных фитингов в системе.

Каждый продукт, представленный в этом каталоге, может быть идентифицирован при помощи кода, выбранного самим клиентом в каталоге, веб-сайта производителя или посредством обращения в коммерческий офис Fra.Bo.

1.1 The plumbing division

The plumbing division deals with the different kinds of Fra.Bo systems suitable for small, medium or big water or gas installations.

1.1 Die Heizungs- Sanitärabteilung

Die Heizungs- Sanitärabteilung befasst sich mit den verschiedenen Arten von Fra.Bo-Systemen, die für die Realisierung kleiner, mittlerer und großer Installationen zur Verteilung und Versorgung von Wasser oder Gas geeignet sind.

1.1 Le secteur plomberie et chauffage

Le secteur plomberie et chauffage s'occupe des plusieurs catégories de systèmes Fra.Bo adaptés pour la réalisation de petites, moyennes et grandes installations de distribution et adduction d'eau ou de gaz.

1.1 La división calefacción y fontanería

La división calefacción y fontanería se ocupa de los diferentes tipos de sistemas Fra.Bo aptos a la realización de instalaciones de distribución y de aducción de gas o de agua de pequeñas, medianas y grandes dimensiones.

1.1 Направление водоснабжения и отопления

Подразделение водоснабжения и отопления занимается различными типами систем Fra.Bo для применения в системах распределения и подачи воды или газа малых, средних или крупных размеров.

1.2 The industrial division

The industrial division deals with the installation of Fra.Bo systems in fields such as industrial refrigeration, ventilation and air conditioning, industrial automation, professional plants, marine industry and medical gas distribution systems. The realisation of specific products is carefully analysed in a vision of total quality management.

1.2 Die Industrieabteilung

Die Industrieabteilung befasst sich mit der Anwendung der Fra.Bo. Systemen in den industriellen Bereichen der Kühlung, Lüftung und Klimatisierung, industrielle Automatisierung, Großanlagen, Schiffsbau und Verteilung von medizinischen Gasen. Die Realisierung spezifischer Produkte wird einer sorgfältigen Bewertung in einer 360 ° -Qualitätsperspektive unterzogen.

1.2 Le secteur industriel

Le secteur industriel s'occupe de l'installation de systèmes Fra.Bo dans la filière de la réfrigération industrielle, de la ventilation et de la climatisation, de l'automatisation industrielle, des installations professionnelles, du secteur naval et de la distribution des gaz médicaux. La réalisation des produits spécifiques est évaluée attentivement dans une optique de qualité à 360°.

1.2 La división industrial

La división industrial se ocupa de la instalación de sistemas Fra.Bo en ámbitos como la refrigeración industrial, la ventilación y la climatización, la automatización industrial, la instalación profesional, el sector naval y de la distribución de gases medicales. La realización de productos específicos está sometida a evaluaciones minuciosas en una perspectiva de calidad total.

1.2 Промышленное направление

Промышленное подразделение занимается у становкой систем Fra.Bo в таких областях, как промышленное охлаждение, вентиляция и кондиционирование воздуха, промышленная автоматизация, профессиональные системы, инженерные системы в кораблестроении и распределение медицинских газов. Производство специальных продуктов подвергается тщательному контролю качества по системе 360°.

1.3 The OEM division

The OEM division deals with the analysis, the development, the engineering development and the production of small metal parts on customer request. It is possible to produce in different materials such as copper, bronze, brass, stainless steel and carbon steel.

1.3 Die OEM-Abteilung

Die OEM-Abteilung befasst sich mit der Analyse, Entwicklung, Konstruktion und Produktion bestimmter Kleinteile auf spezifischen Kundenwunsch. Die Fertigung in verschiedenen Materialien wie Kupfer, Bronze, Messing, Edelstahl und Kohlenstoff ist möglich.

1.3 Le secteur OEM

Le secteur OEM s'occupe de l'analyse, du développement, de l'ingénierie et de la production des détails des minuteriers sur commande spécifique du client. Il est possible de réaliser des produits en matériaux différents comme le cuivre, le bronze, le laiton, l'acier inox et l'acier au carbone.


1.3 La división OEM

La división OEM se ocupa del análisis, del desarrollo, de la ingeniería y de la producción de particulares piezas metálicas a petición del cliente. La realización es posible en diferentes materiales como el cobre, el bronce, el latón, el acero inoxidable y el acero al carbono.

1.3 Подразделение OEM

Подразделение OEM занимается анализом, развитием, инжинирингом и производством отдельных деталей по специальному запросу клиента. Возможно производство продукции из различных материалов, таких как медь, бронза, латунь, нержавеющая и углеродистая сталь.


2. Applications - Anwendungsbereiche - Champs d'emploi - Aplicaciones - Области применения

 The main applications of the offered products are:

 Die Hauptanwendungen der Produktserien sind:

 Les principales applications de référence des produits offerts sont:

 Las principales aplicaciones de referencia de los productos ofrecidos son:

 Основным применением предлагаемой продукции являются:



DRINKING WATER



HEATING



HVAC



GAS



COMPRESSED AIR



FIREFIGHTING



STEAM



SOLAR



MARINE



INDUSTRIAL



MEDICAL



INSURANCE - VERSICHERUNG

The whole product range of Fra.Bo is covered by international insurance for customer safety.

Our technical and commercial service is at your disposal.

Die gesamte Produktpalette von Fra.Bo ist zum Schutz der Anwender international versichert.
























Unsere technischen und kommerziellen Dienstleistungen stehen Ihnen zur Verfügung.








	CENED Certificazione ENergetica degli EDifici Azienda certificata classe "A" - "A+" con certificato n.17081 - 000459/12 e 000460/12			Factory Mutual Research	
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	TÜV Süddeutschland Bau und Betrieb GmbH Equipment for use in potentially explosive atmospheres 2014/34/EU			American Petroleum Institute API 6A License number 6A-1741	
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	VdS			Declaration of conformity TP-TC 010/2011 Declaration of conformity TP-TC 032/2013	
	Schweizerischer Verein des Gas- und Wasserfaches Europäische Vorschrift EN 331: 2015			CCS	
	Schweizerischer Verein des Gas- und Wasserfaches DVGW VP 614			INIG	
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1. Introduction

Fra.Bo copper and bronze pressfittings are available in a range between 12 and 108 mm, to realize different kinds of installations both civil and industrial.

In particular, FRABOPRESS KOMBI, with Securfrabo security system, is the patented series of copper and bronze press fittings available in a dimensional range between 12 and 54 mm, suitable for **gas** and **water** installations. The fittings feature a **V-type pressing profile**. The HNBR gasket is characterized by high chemical-physical performances to satisfy the requirements of hygiene and purity, typical of drinking water applications. The material of the gasket complies with EN 681-1 (water applications) and with EN 549 (gas applications). FRABOPRESS KOMBI fittings comply with UNI 11065 class 1 (water applications) and class 2 (gas applications) and have a double mark, yellow and blue.

Mixed connection fittings to other systems are made using bronze threaded parts with press ends. The threads comply with UNI EN 10226-1 standard.

For dimensions between 67 and 108 mm, the range is completed by a series of M-profile copper and bronze pressfittings with EPDM gasket (FRABOPRESS M range) only for water application.

1. Einführung

Die Fra.Bo Pressfittings aus Kupfer und Bronze sind im Abmessungsbereich zwischen 12 und 108 mm erhältlich, um die Herstellung verschiedener Arten von zivilen und industriellen Anlagen zu realisieren.

FRABOPRESS KOMBI mit Securfrabo insbesondere ist ein System von Pressfittings aus Kupfer und Bronze, welche im Abmessungsbereich zwischen 12 und 54 mm erhältlich sind und sowohl für **Gas-** als auch für **Wasser-**Installationen einsetzbar sind. **V-Profil**. Die HNBR-Dichtung zeichnet sich durch eine chemisch-physikalische Leistung aus, welche die Hygiene Anforderungen im Bereich Trinkwasser erfüllen. Das Material entspricht sowohl der EN 681-1 (Wasseranwendungen) als auch der EN 549 (Gasanwendungen). Die Fittings der FRABOPRESS KOMBI-Serie erfüllen gleichzeitig die Anforderungen der UNI EN 11065 für Klasse 1 (Wasseranwendung) und 2 (Gasanwendung) und sind durch eine doppelte Markierung (gelbe und blau) gekennzeichnet.

Die Gewindeanschlüsse zum Anschluss an andere Systeme werden in Bronze hergestellt.

Die Gewinde entsprechen der UNI EN 10226-1.

Die Serie wird in den Abmessungen zwischen 67 und 108 mm durch eine Reihe von Pressfittings mit M-Profil in Kupfer und Bronze mit EPDM-Dichtung vervollständigt (FRABOPRESS M Serie) Nur für Wasseranwendungen.

1. Présentation

Les raccords à sertir en cuivre et en bronze Fra.Bo sont disponibles dans la gamme dimensionnelle entre 12 et 108 mm pour permettre la réalisation de différents types d'installations civiles et industrielles.

En particulier, FRABOPRESS KOMBI, avec système de sécurité Securfrabo, est une gamme brevetée constituée par des raccords à sertir en cuivre et en bronze disponible dans la gamme dimensionnelle entre 12 et 54 mm, adapté soit pour installations de **gaz** soit pour installations d'**eau**. Les raccords ont un **profile** de sertissage de type **V**.

Le joint torique en HNBR est caractérisé par des performances physico-chimiques capables de satisfaire les exigences d'hygiène et d'atotoxicité nécessaires pour les applications en contact avec l'eau potable.

Le matériau dont il est composé est conforme à la norme EN 681-1 (applications d'eau) et à la norme EN 549 (applications de gaz).

Les raccords de la gamme FRABOPRESS KOMBI sont conformes en même temps à la norme UNI EN 11065 pour la classe 1 (application d'eau) et 2 (application de gaz) et sont caractérisés par le marquage double de couleur jaune et bleu.

Les extrémités filetées de jonction avec des autres systèmes sont réalisées avec des parties filetées en bronze avec terminassions à sertir. Les filetages sont conformes à la norme UNI EN 10226-1.

La gamme est complétée dans les dimensions comprises entre 67 et 108 mm par une série de raccords à profile M en cuivre et bronze avec joint torique en EPDM (gamme FRABOPRESS M) uniquement pour les applications d'eau.

1. Presentación

Los racores para prensar de cobre y de bronze Fra.Bo están disponibles en la gama dimensional desde 12 hasta 108 mm, para poder realizar diversos tipos de instalaciones civiles e industriales.

En particular, FRABOPRESS KOMBI, con sistema de seguridad Securfrabo, es una serie patentada constituida por racores para prensar de cobre y de bronce disponible en la gama dimensional desde 12 hasta 54 mm, aplicable en instalaciones destinadas a la conducción de **agua** y de **gas**. Los racores tienen un **perfil** de tipo **V**. La junta de HNBR se caracteriza por prestaciones fisicoquímicas capaces de satisfacer las exigencias de higiene y de no toxicidad necesarias para aplicaciones en contacto con el agua potable.

El material que la constituye cumple tanto con la norma EN 681-1 (aplicaciones agua) como con la norma EN 549 (aplicaciones gas). Los racores de la gama FRABOPRESS KOMBI cumplen al mismo tiempo las exigencias de la norma UNI EN 11065 por la clase 1 (aplicación agua) y 2 (aplicación gas) y se caracterizan por la marca doble de color amarillo y azul.

Las terminaciones roscadas de conexión con otros sistemas se realizan con piezas de bronce roscadas con extremidad para prensar. Las roscas cumplen con la norma UNI EN 10226-1.

La gama se completa en las dimensiones desde 67 hasta 108 mm con una serie de racores para prensar con perfil M de cobre y de bronce con junta de EPDM (gama FRABOPRESS M) solo para aplicaciones de agua.

1. Описание

Пресс фитинги из меди и бронзы Fra.Bo, доступны в размерном диапазоне от 12 до 108 мм, предназначены для применения в системах различного типа как в гражданском, так и промышленном строительстве.

В частности, серия FRABOPRESS KOMBI с системой безопасности Securfrabo - это серия пресс фитингов из меди и бронзы с размерным рядом от 12 до 54 мм, которая может применяться как для систем **газоснабжения**, так и **водоснабжения**. Пресс-фитинги имеют **V профиль**. Прокладка обладает химико-физическими свойствами, которые отвечают требованиям по гигиене и нормам токсичности

оборудования, находящегося в контакте с питьевой водой. Материал, из которого она изготовлена, соответствует как нормативу EN 681-1 (применение для воды) так и EN 549 (применение для газа). Фитинги серии FRABOPRESS KOMBI соответствуют требованиям стандарта UNI EN 11065 для класса 1 (применение для воды) и класса 2 (применение для газа) и имеют двойную маркировку желтый/синий. Предназначенные для подсоединения к другим системам резьбовые соединения выполнены из бронзовых элементов с резьбой и соединительным патрубком под пресс.

Резьба соответствует UNI EN 10226-1.

В больших размерах с диаметром от 67 до 108 мм серию дополняют пресс-фитинги из меди и бронзы с профилем M, оснащенные прокладкой из EPDM (серия FRABOPRESS M) только для водных применений.

2. Advantages

- Universal fitting (**water and gas**).
- Safety: thanks to Securfrabo patented **security system**, it is possible to find immediately a leakage of an unpressed fitting during the pressure test.
- Tested and certified gasket.
- Double yellow/blue mark.
- Speed of installation.
- Halving of stock.

2. Vorteile

- Universalfitting (**Wasser und Gas**).
- Sicherheit: Securfrabo-**Sicherheitssystem** welches versehentliche nicht gepresst Stellen bei der Druckprobe signalisiert.
- Geprüfte und zertifizierte Dichtung.
- Doppelte Markierung gelb/blau.
- Einfache und schnelle Installation.
- Reduzierung der Lagerbestände.

2. Avantages

- Raccord universel (**eau et gaz**).
- Sécurité: grâce au **système de sécurité** Securfrabo, il est possible de détecter la fuite du fluide dans la phase de test de l'installation, si le raccord n'a pas été serti.
- Joint torique testé et certifié.
- Double marquage jaune/bleu.
- Rapidité d'installation.
- Réduction du stock.

2. Ventajas

- Rácor universal (**agua y gas**).
- Seguridad: el **sistema de seguridad** Securfrabo permite detectar una fuga de fluido durante la prueba de la instalación, si la conexión no se ha prensado.

- Junta probada y certificada.
- Doble marca amarilla y azul.
- Velocidad de instalación.
- Reducción del almacén.

2. Преимущества

- Универсальное соединение (для воды и газа).
- Безопасность: благодаря **системе безопасности Securfrabo** возможно обнаружение протечки в момент испытания системы в случае, если фитинг не был опрессован.
- Прокладка протестирована и сертифицирована.
- Двойная маркировка желтый/синий.
- Высокая скорость монтажа.
- Сокращение склада.

3. Applications

FRABOPRESS KOMBI is suitable for different kinds of installations such as, for example, domestic water and gas distribution systems, heating or cooling systems, firefighting systems and compressed-air systems.

3. Anwendungsbereiche

Die FRABOPRESS KOMBI-Serie kann zur Realisierung vieler Arten von Anlagen verwendet werden, wie zum Beispiel Trinkwasser- und Gasverteilungssysteme, Heizungssysteme, Feuerlöschsysteme, Druckluft- und Kühlsysteme.

3. Champs d'emploi

La gamme FRABOPRESS KOMBI est utilisable dans la réalisation de plusieurs typologies d'installation comme, par exemple, les systèmes domestiques de distribution et adduction d'eau et de gaz, les systèmes de chauffage et de refroidissement, les systèmes de protection contre les incendies et d'air comprimé.

3. Aplicaciones

La gama FRABOPRESS KOMBI se puede utilizar en la realización de muchos tipos de instalaciones como, por ejemplo, las instalaciones domésticas de distribución agua y gas, sistemas de calefacción y refrigeración, sistemas de protección contra incendios y de aire comprimido.

3. Области применения

Фитинги серии FRABOPRESS KOMBI могут применяться в очень многих системах различного типа, таких как домашние системы распределения воды и газа, системы отопления, противопожарных системах, промышленных системах охлаждения и сжатого газа.



DRINKING
WATER



HEATING



HVAC



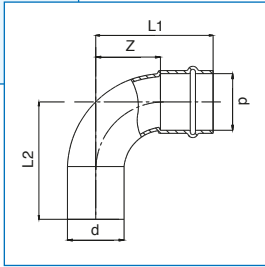
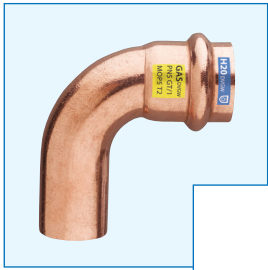
GAS



COMPRESSED
AIR



FIREFIGHTING



Art. RS9001

Copper M/F 90° elbow.

PATENTED

Bogen 90° I/A aus Kupfer.

Courbe 90° M/F en cuivre.

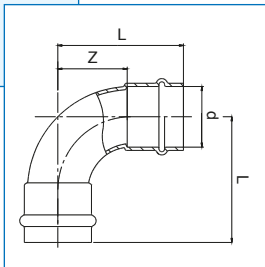
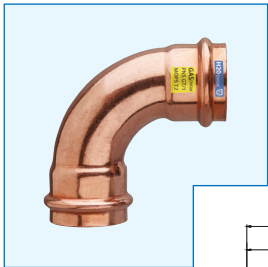
Curva 90° M/H de cobre.

Угол 90° из меди Н-В.



d	BAG	MASTER BOX	CODE	L1	L2	Z
12	10	300	RS9001012012000	33	34	15
15	10	200	RS9001015015000	40	42	18
18	10	150	RS9001018018000	45	47	22
22	10	80	RS9001022022000	51	52	27
28	5	40	RS9001028028000	59	61	34
35	5	30	RS9001035035000	68	70	42
42	1	10	RS9001042042000	87	88	51
54	1	7	RS9001054054000	105	107	65

The big-size, item RR9001, is available. See at page 46 - Big-size, Artikel RR9001, ist verfügbar. Bitte sehen Sie Seite 46.



Art. RS9002

Copper F/F 90° elbow.

PATENTED

Bogen 90° I/I aus Kupfer.

Courbe 90° F/F en cuivre.

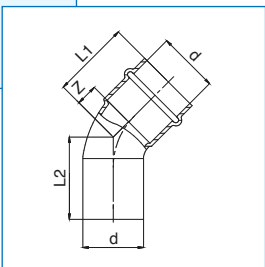
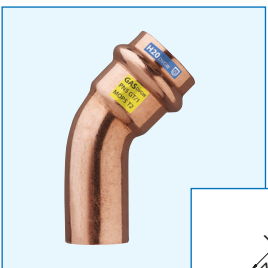
Curva 90° H/H de cobre.

Угол 90° из меди В-В.



d	BAG	MASTER BOX	CODE	L	Z
12	10	250	RS9002012012000	33	15
15	10	150	RS9002015015000	40	18
18	10	100	RS9002018018000	45	22
22	10	60	RS9002022022000	47	23
28	5	40	RS9002028028000	59	34
35	5	30	RS9002035035000	68	42
42	1	10	RS9002042042000	87	51
54	1	7	RS9002054054000	105	65

The big-size, item RR9002, is available. See at page 46 - Big-size, Artikel RR9002, ist verfügbar. Bitte sehen Sie Seite 46.



Art. RS9040

Copper M/F 45° elbow.

PATENTED

Bogen 45° I/A aus Kupfer.

Courbe 45° M/F en cuivre.

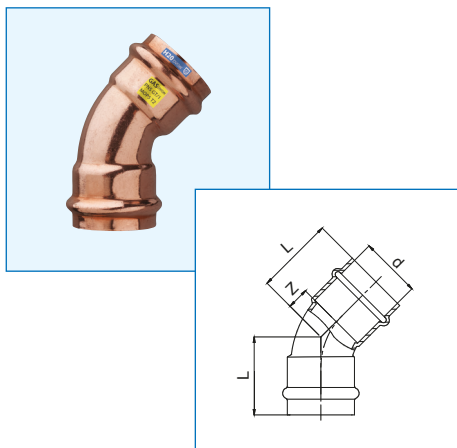
Curva 45° M/H de cobre.

Угол 45° из меди Н-В.



d	BAG	MASTER BOX	CODE	L1	L2	Z
12	10	250	RS9040012012000	25	26	7
15	10	200	RS9040015015000	29	30	7
18	10	150	RS9040018018000	31	32	8
22	10	100	RS9040022022000	34	36	10
28	5	60	RS9040028028000	38	40	13
35	5	40	RS9040035035000	43	45	17
42	5	20	RS9040042042000	53	55	17
54	1	10	RS9040054054000	68	70	28

The big-size, item RR9040, is available. See at page 46 - Big-size, Artikel RR9040, ist verfügbar. Bitte sehen Sie Seite 46.



Art. RS9041

Copper F/F 45° elbow.

PATENTED

Bogen 45° I/I aus Kupfer.

Courbe 45° F/F en cuivre.

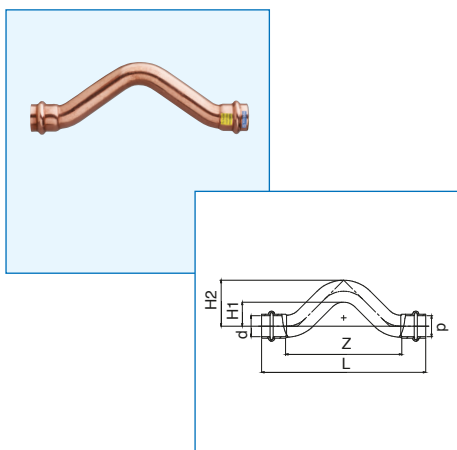
Curva 45° H/H de cobre.

Угол 45° из меди В-В.

SECURFRABO

d	BAG	MASTER BOX	CODE	L	Z
12	10	250	RS9041012012000	25	7
15	10	200	RS9041015015000	29	7
18	10	150	RS9041018018000	31	8
22	10	80	RS9041022022000	34	10
28	5	60	RS9041028028000	38	13
35	5	40	RS9041035035000	43	17
42	5	20	RS9041042042000	53	17
54	1	10	RS9041054054000	68	28

The big-size, item RR9041, is available. See at page 47 - Big-size, Artikel RR9041, ist verfügbar. Bitte sehen Sie Seite 47.



Art. RS9085

Copper F/F full crossover.

PATENTED

Überbogen I/I aus Kupfer.

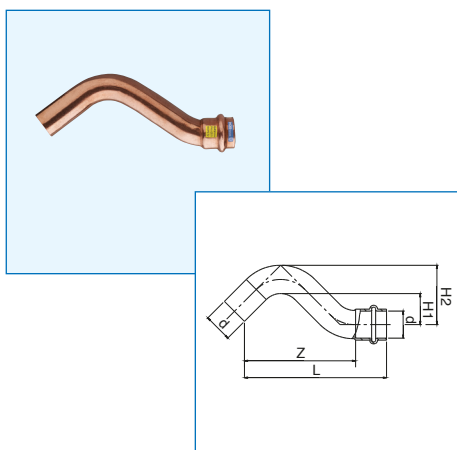
Chapeau de gendarme F/F en cuivre.

Desviación larga H/H de cobre.

Обвод из меди длинный В-В.

SECURFRABO

d	BAG	MASTER BOX	CODE	L	H1	H2	Z
12	5	50	RS9085012012000	152	20	32	116
15	5	80	RS9085015015000	152	20	35	110
18	10	50	RS9085018018000	176	20	38	130
22	5	25	RS9085022022000	198	30	52	150



Art. RS9086

Copper M/F partial crossover.

PATENTED

Überbogen I/A aus Kupfer.

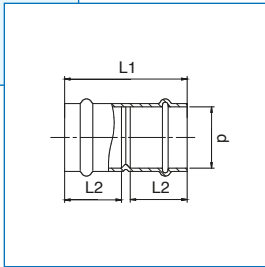
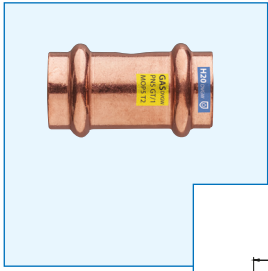
Clarinette M/F en cuivre.

Desviación corta M/H de cobre.

Обвод из меди короткий H-В.

SECURFRABO

d	BAG	MASTER BOX	CODE	L	H1	H2	Z
12	10	100	RS9086012012000	112	20	32	94
15	10	100	RS9086015015000	119	20	35	97
18	10	70	RS9086018018000	137	20	38	114
22	5	25	RS9086022022000	160	30	52	136



Art. RS9270

Copper F/F coupling.

PATENTED

Muffe I/I aus Kupfer.

Manchon avec flexion F/F en cuivre.

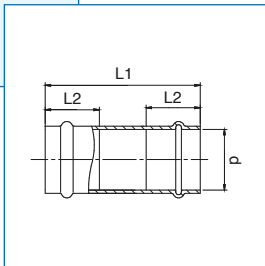
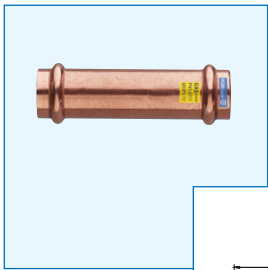
Manguito con remante H/H de cobre.

Муфта с упором медная В-В.



d	BAG	MASTER BOX	CODE	L1	L2
12	10	300	RS9270012012000	40	18
15	10	200	RS9270015015000	49	22
18	10	150	RS9270018018000	52	23
22	10	100	RS9270022022000	53	24
28	10	60	RS9270028028000	57	25
35	5	40	RS9270035035000	62	26
42	5	25	RS9270042042000	78	36
54	1	15	RS9270054054000	93	40

The big-size, item RR9270, is available. See at page 48 - Big-size, Artikel RR9270, ist verfügbar. Bitte sehen Sie Seite 48.



Art. RS9271

Copper F/F slip coupling.

PATENTED

Schiebemuffe I/I aus Kupfer.

Manchon coulissant F/F en cuivre.

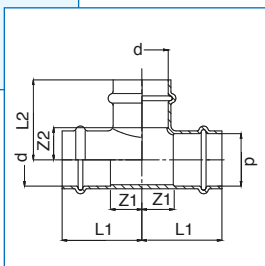
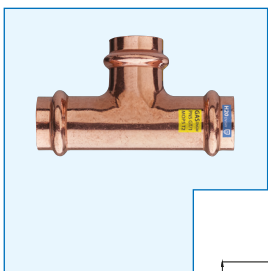
Manguito de paso H/H de cobre.

Муфта проходная медная В-В.



d	BAG	MASTER BOX	CODE	L1	L2
12	10	150	RS9271012012000	58	18
15	10	100	RS9271015015000	82	22
18	10	100	RS9271018018000	92	23
22	10	60	RS9271022022000	97	24
28	5	40	RS9271028028000	107	25
35	5	30	RS9271035035000	114	26
42	1	15	RS9271042042000	142	41
54	1	10	RS9271054054000	163	45

The big-size, item RR9271, is available. See at page 48 - Big-size, Artikel RR9271, ist verfügbar. Bitte sehen Sie Seite 48.



Art. RS9130

Copper F/F/F tee.

PATENTED

T-Stück I/I/I aus Kupfer.

Té F/F/F en cuivre.

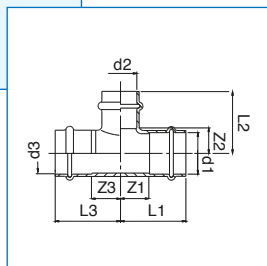
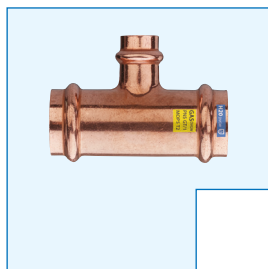
T H/H/H de cobre.

Тройник из меди В-В-В.



d	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
12	10	150	RS9130012012012	29	29	11	11
15	10	100	RS9130015015015	41	33	19	11
18	5	50	RS9130018018018	42	35	19	12
22	5	40	RS9130022022022	45	39	21	15
28	5	35	RS9130028028028	48	46	23	21
35	5	20	RS9130035035035	53	48	27	22
42	1	10	RS9130042042042	65	65	29	29
54	1	8	RS9130054054054	75	75	35	35

The big-size, item RR9130, is available. See at page 48 - Big-size, Artikel RR9130, ist verfügbar. Bitte sehen Sie Seite 48.



Art. RS9131

Copper F/F/F reducing tee.

T-Stück reduziert I/I/I aus Kupfer.

Té réduit F/F/F en cuivre.

T reducido H/H/H de cobre.

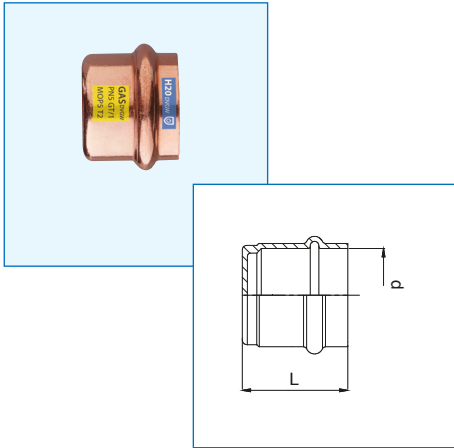
Тройник из меди у меньшего размера В-В-В.

PATENTED



d1xd2xd3	BAG	MASTER BOX	CODE	L1	L2	L3	Z1	Z2	Z3
12x15x12	10	100	RS9131012015012	38	32	38	20	10	20
15x12x12	10	100	RS9131015012012	39	30	39	17	12	21
15x12x15	10	100	RS9131015012015	39	30	39	17	12	17
15x15x12	5	70	RS9131015015012	41	33	41	19	11	19
15x18x15	10	80	RS9131015018015	42	35	42	20	12	20
15x22x15	5	50	RS9131015022015	45	38	45	23	14	23
18x12x18	10	80	RS9131018012018	39	31	39	16	13	16
18x15x15	10	80	RS9131018015015	41	35	45	18	13	23
18x15x18	10	80	RS9131018015018	41	35	41	18	13	18
18x18x15	5	70	RS9131018018015	42	35	47	19	12	25
18x22x18	5	50	RS9131018022018	45	36	45	22	12	22
22x12x22	5	60	RS9131022012022	39	33	39	15	15	15
22x15x15	5	50	RS9131022015015	41	37	47	17	15	25
22x15x18	5	50	RS9131022015018	41	37	44	17	15	21
22x15x22	5	50	RS9131022015022	41	37	41	17	15	17
22x18x15	5	50	RS9131022018015	42	37	50	18	14	28
22x18x18	5	50	RS9131022018018	42	37	47	18	14	24
22x18x22	5	50	RS9131022018022	42	37	42	18	14	18
22x22x15	5	50	RS9131022022015	45	38	51	21	14	29
22x22x18	5	50	RS9131022022018	45	38	51	21	14	28
22x28x22	5	35	RS9131022028022	48	39	48	24	14	24
28x15x22	5	40	RS9131028015022	41	41	45	16	19	21
28x15x28	5	30	RS9131028015028	41	41	41	16	19	16
28x18x22	5	40	RS9131028018022	42	41	47	17	18	23
28x18x28	5	30	RS9131028018028	42	41	42	17	18	17
28x22x22	5	35	RS9131028022022	45	42	50	20	18	26
28x22x28	5	30	RS9131028022028	45	42	45	20	18	20
28x28x22	5	30	RS9131028028022	48	43	53	23	18	29
35x15x35	5	25	RS9131035015035	44	44	44	18	22	18
35x18x35	5	25	RS9131035018035	44	44	44	18	21	18
35x22x28	5	25	RS9131035022028	46	45	52	20	21	27
35x22x35	5	20	RS9131035022035	46	45	46	20	21	20
35x28x28	5	20	RS9131035028028	49	46	55	23	21	30
35x28x35	5	20	RS9131035028035	49	46	49	23	21	23
42x22x42	1	15	RS9131042022042	53	52	53	17	28	17
42x28x42	1	10	RS9131042028042	55	53	55	19	28	19
42x35x42	1	10	RS9131042035042	58	55	58	22	29	22
54x22x54	1	10	RS9131054022054	60	58	60	20	34	20
54x28x54	1	10	RS9131054028054	63	59	63	23	34	23
54x35x54	1	10	RS9131054035054	68	61	68	28	35	28
54x42x54	1	10	RS9131054042054	69	71	69	29	35	29

The big-sizes, items RR9131 and ZM9131, are available. See at pages 49-50 - Big-sizes, Artikel RR9131 und ZM9131, sind verfügbar. Bitte sehen Sie Seite 49-50.



Art. RS9301

Copper F plug.

PATENTED

Verschlusskappe I aus Kupfer.

Bouchon F en cuivre.

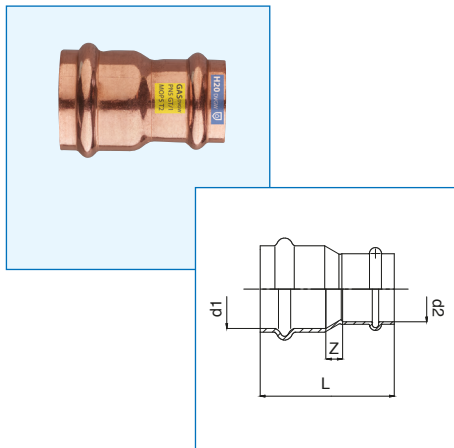
Tapón H de cobre.

Заглушка медная В.



d	BAG	MASTER BOX	CODE	L
12	10	100	RS9301012000000	21
15	10	400	RS9301015000000	25
18	10	300	RS9301018000000	26
22	10	200	RS9301022000000	27
28	10	100	RS9301028000000	28
35	5	70	RS9301035000000	30
42	5	40	RS9301042000000	40
54	5	30	RS9301054000000	45

The big-size, item RR9301, is available. See at page 51 - Big-size, Artikel RR9301, ist verfügbar. Bitte sehen Sie Seite 51.



Art. RS9240

Copper F/F reducing coupling.

PATENTED

Muffe reduziert I/I aus Kupfer.

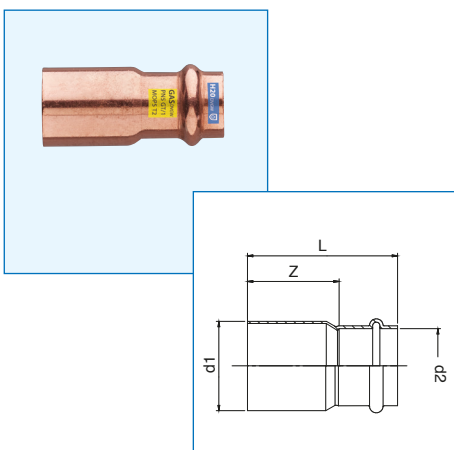
Réduction F/F en cuivre.

Reducción H/H de cobre.

Муфта редукиционная медная В-В.



d1xd2	BAG	MASTER BOX	CODE	L	Z
15x12	10	300	RS9240015012000	46	6
18x15	10	200	RS9240018015000	50	5
22x15	10	150	RS9240022015000	58	12
22x18	10	130	RS9240022018000	55	8
28x22	10	80	RS9240028022000	58	9
35x28	5	50	RS9240035028000	62	11
42x35	5	30	RS9240042035000	73	11
54x42	5	20	RS9240054042000	95	19



Art. RS9243

Copper M/F reducer.

PATENTED

Reduzierstück I/A aus Kupfer.

Réduction M/F en cuivre.

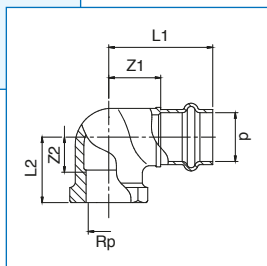
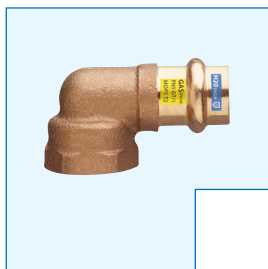
Reducción M/H de cobre.

Муфта редукиционная медная Н-В.



d1xd2	BAG	MASTER BOX	CODE	L	Z
15x12	10	300	RS9243015012000	44	26
18x12	10	300	RS9243018012000	47	29
18x15	10	200	RS9243018015000	50	28
22x15	10	150	RS9243022015000	56	34
22x18	10	150	RS9243022018000	52	29
28x15	10	100	RS9243028015000	60	38
28x18	10	100	RS9243028018000	59	36
28x22	10	100	RS9243028022000	58	34
35x22	10	60	RS9243035022000	64	40
35x28	10	50	RS9243035028000	59	34
42x22	5	50	RS9243042022000	76	52
42x28	5	40	RS9243042028000	74	49
42x35	5	40	RS9243042035000	68	42
54x35	5	20	RS9243054035000	89	63
54x42	5	20	RS9243054042000	90	54

The big-sizes, items RR9243 and ZM9243, are available. See at page 50 - Big-sizes, Artikel RR9243 und ZM9243, sind verfügbar. Bitte sehen Sie Seite 50.



Art. RS8090

Bronze F/female thread 90° elbow.

PATENTED

Winkel 90° I mit I Gewinde aus Rotguss.

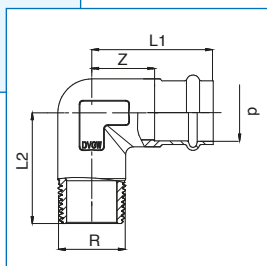
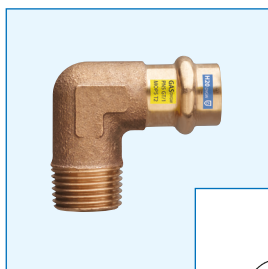
Coude 90° F/filetage femelle en bronze.

Codo mixto 90° H/rosca hembra de bronce.

Угол 90° из бронзы В-В(Rp).



Rpxd	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
3/8"x12	10	150	RS8090A38012000	44	18	26	9
3/8"x15	10	100	RS8090A38015000	47	19	25	10
1/2"x12	10	150	RS8090A12012000	44	22	26	11
1/2"x15	10	100	RS8090A12015000	45	24	23	13
1/2"x18	10	100	RS8090A12018000	47	24	24	13
1/2"x22	10	60	RS8090A12022000	49	24	25	13
3/4"x15	10	70	RS8090A34015000	49	31	27	16
3/4"x18	5	70	RS8090A34018000	50	24	27	9
3/4"x22	5	60	RS8090A34022000	49	29	25	6
3/4"x28	5	50	RS8090A34028000	55	30	30	15
1"x22	5	40	RS8090B01022000	60	33	36	10
1"x28	5	40	RS8090B01028000	61	33	36	9
1"1/4x35	5	20	RS8090B14035000	67	40	41	22
1"1/2x42	5	20	RS8090B12042000	77	43	41	25
2"x54	1	8	RS8090C02054000	97	57	57	39



Art. RS8092

Bronze F/male thread 90° elbow.

PATENTED

Winkel 90° I mit A Gewinde aus Rotguss.

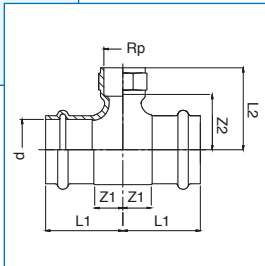
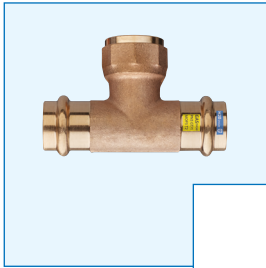
Coude 90° F/filetage mâle en bronze.

Codo mixto 90° H/rosca macho de bronce.

Угол 90° из бронзы В-Н(R).



Rxd	BAG	MASTER BOX	CODE	L1	L2	Z
3/8"x12	10	150	RS8092A38012000	42	32	24
3/8"x15	10	100	RS8092A38015000	42	32	20
1/2"x12	10	150	RS8092A12012000	43	34	25
1/2"x15	10	100	RS8092A12015000	44	34	22
1/2"x18	10	80	RS8092A12018000	47	49	24
3/4"x18	5	70	RS8092A34018000	49	50	26
3/4"x22	10	50	RS8092A34022000	55	39	31
1"x28	5	30	RS8092B01028000	59	73	34
1"1/4x35	1	15	RS8092B14035000	70	86	44
1"1/2x42	1	10	RS8092B12042000	87	95	51
2"x54	1	7	RS8092C02054000	110	118	66



Art. RS8130

Bronze F/female thread/F tee.

PATENTED

T-Stück mit I Gewinde aus Rotguss.

Té F/filetage femelle/F en bronze.

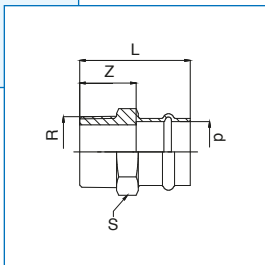
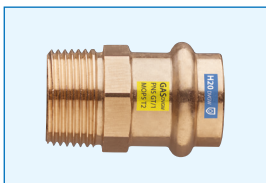
T H/rosca hembra/H de bronce.

Тройник из бронзы В-В(Rp)-В.



Rpxd	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
3/8"x15	10	80	RS8130015A38015	43	22	21	12
1/2"x12	10	100	RS8130012A12012	44	23	26	13
1/2"x15	10	80	RS8130015A12015	45	23	23	13
1/2"x18	10	60	RS8130018A12018	47	24	24	14
1/2"x22	5	50	RS8130022A12022	48	25	24	15
1/2"x28	5	25	RS8130028A12028	53	50	28	35
1/2"x35	5	20	RS8130035A12035	49	38	23	23
1/2"x42	1	10	RS8130042A12042	55	50	19	35
1/2"x54	1	5	RS8130054A12054	67	54	27	39
3/4"x22	5	40	RS8130022A34022	53	31	29	16
3/4"x28	5	20	RS8130028A34028	53	50	27	35
1"x28	5	25	RS8130028B01028	56	35	30	20

The big-size, item RB8130, is available. See at page 52 - Big-size, Artikel RB8130, ist verfügbar. Bitte sehen Sie Seite 52.



Art. RS8243

Bronze F/male thread adapter.

PATENTED

Übergangsstück I mit A Gewinde aus Rotguss.

Manchon F/filetage mâle en bronze.

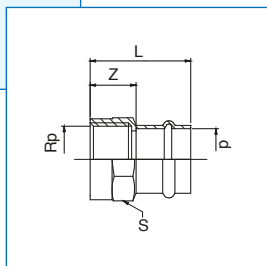
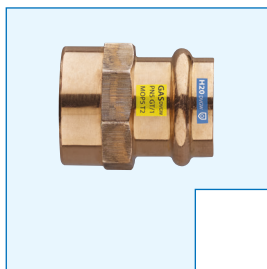
Manguito mixto H/rosca macho de bronce.

Муфта бронзовая В-Н(R).



Rxd	BAG	MASTER BOX	CODE	L	S	Z
3/8"x12	10	250	RS8243A38012000	40	21	22
3/8"x15	10	200	RS8243A38015000	44	25	22
1/2"x12	10	200	RS8243A12012000	43	21	25
1/2"x15	10	150	RS8243A12015000	46	25	24
1/2"x18	10	150	RS8243A12018000	48	27	25
1/2"x22	10	100	RS8243A12022000	49	32	25
3/4"x15	10	100	RS8243A34015000	48	28	26
3/4"x18	10	100	RS8243A34018000	49	28	26
3/4"x22	10	100	RS8243A34022000	51	32	27
3/4"x28	5	70	RS8243A34028000	52	38	27
1"x22	5	70	RS8243B01022000	52	34	28
1"x28	5	50	RS8243B01028000	54	38	29
1"x35	5	30	RS8243B01035000	58	46	32
1"1/4x28	5	50	RS8243B14028000	58	42	33
1"1/4x35	5	40	RS8243B14035000	60	46	34
1"1/4x42	5	20	RS8243B14042000	75	56	39
1"1/2x35	5	25	RS8243B12035000	60	48	34
1"1/2x42	5	25	RS8243B12042000	75	56	39
1"1/2x54	1	15	RS8243B12054000	81	68	41
2"x54	1	10	RS8243C02054000	86	68	46

The big-size, item RB8243, is available. See at page 53 - Big-size, Artikel RB8243, ist verfügbar. Bitte sehen Sie Seite 53.



Art. RS8270

Bronze F/female thread adapter.

PATENTED

Übergangsstück I mit I Gewinde aus Rotguss.

Manchon F/filetage femelle en bronze.

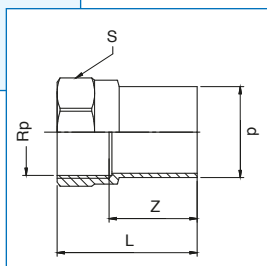
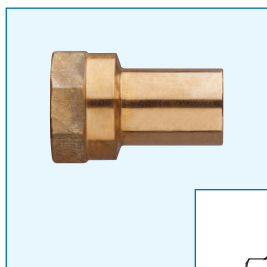
Manguito mixto H/rosca hembra de bronce.

Муфта бронзовая В-В(Rp).



Rpxd	BAG	MASTER BOX	CODE	L	S	Z
3/8"x12	10	250	RS8270A38012000	35	25	5
3/8"x15	10	200	RS8270A38015000	36	25	2
1/2"x12	10	200	RS8270A12012000	36	25	3
1/2"x15	10	200	RS8270A12015000	40	25	3
1/2"x18	10	150	RS8270A12018000	41	27	3
1/2"x22	10	100	RS8270A12022000	41	32	2
1/2"x28	10	100	RS8270A12028000	41	32	2
3/4"x15	10	150	RS8270A34015000	41	32	2
3/4"x18	10	100	RS8270A34018000	44	31	4
3/4"x22	10	100	RS8270A34022000	46	32	5
3/4"x28	5	60	RS8270A34028000	48	38	8
3/4"x35	5	50	RS8270A34035000	50	42	7
1"x22	5	80	RS8270B01022000	47	38	4
1"x28	5	50	RS8270B01028000	48	38	4
1"x35	5	40	RS8270B01035000	47	46	2
1"1/4x28	5	30	RS8270B14028000	50	46	3
1"1/4x35	5	40	RS8270B14035000	52	48	4
1"1/4x42	5	25	RS8270B14042000	64	56	6
1"1/2x42	5	25	RS8270B12042000	65	56	7
2"x54	1	15	RS8270C02054000	80	68	16

The big-size, item RB8270, is available. See at page 54 - Big-size, Artikel RB8270, ist verfügbar. Bitte sehen Sie Seite 54.



Art. RS8272

Bronze M/female thread adapter.

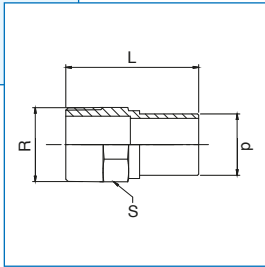
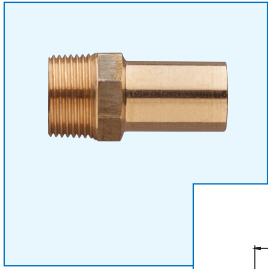
Einsteckstück A mit I Gewinde aus Rotguss.

Manchon M/filetage femelle en bronze.






Manguito mixto M/rosca hembra de bronce.

Муфта бронзовая Н-В(Rp).

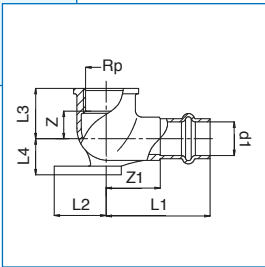
Rpxd	BAG	MASTER BOX	CODE	L	S	Z
3/8"x12	10	200	RS8272A38012000	37	21	25
3/8"x15	10	200	RS8272A38015000	41	21	29
1/2"x12	10	200	RS8272A12012000	41	25	26
1/2"x15	10	200	RS8272A12015000	45	25	30
1/2"x18	10	150	RS8272A12018000	46	25	31
1/2"x22	10	100	RS8272A12022000	47	25	32
3/4"x18	10	100	RS8272A34018000	48	31	31
3/4"x22	10	80	RS8272A34022000	49	31	32
1"x28	5	40	RS8272B01028000	54	38	34
1"1/4x35	5	20	RS8272B14035000	57	48	35
1"1/2x42	5	20	RS8272B12042000	68	55	46
2"x54	1	10	RS8272C02054000	76	68	50








Art. RS8244

-  Bronze M/male thread adapter.
-  Einsteckstück A mit A Gewinde aus Rotguss.
-  Manchon M/filetage mâle en bronze.
-  Manguito mixto M/rosca macho de bronce.
-  Муфта бронзовая Н-Н(R).

Rxd	BAG	MASTER BOX	CODE	L	S
1/2"x12	10	200	RS8244A12012000	46	21
1/2"x15	10	200	RS8244A12015000	49	21
1/2"x18	10	150	RS8244A12018000	50	21
1/2"x22	10	100	RS8244A12022000	51	25
3/4"x18	10	100	RS8244A34018000	53	27
3/4"x22	10	100	RS8244A34022000	54	27
1"x28	5	50	RS8244B01028000	57	34
1"1/4x35	5	40	RS8244B14035000	64	42
1"1/2x42	5	25	RS8244B12042000	74	48
2"x54	1	10	RS8244C02054000	81	60

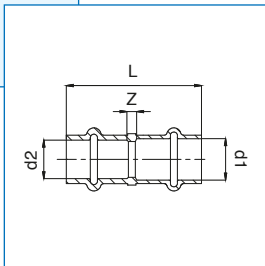
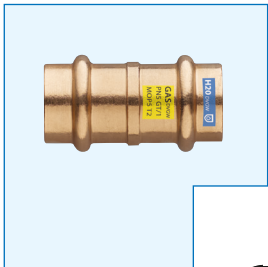


Art. RS8471






-  Bronze F/female thread 90° elbow with wallplate. **PATENTED**
-  Wandscheibe 90° l mit l Gewinde aus Rotguss.
-  Applique coude 90° F/filetage femelle en bronze.
-  Codo mixto 90° H/rosca hembra con brida de bronce.
-  Угол бронзовый с фланцем В-В(Rp).



Rpxd1	BAG	MASTER BOX	CODE	L1	L2	L3	L4	Z	Z1
1/2"x12	10	80	RS8471A12012000	43	22	22	12	10	24
1/2"x15	10	80	RS8471A12015000	44	22	22	12	10	22
1/2"x18	5	70	RS8471A12018000	45	22	24	12	12	22
3/4"x22	5	40	RS8471A34022000	49	28	29	20	14	25



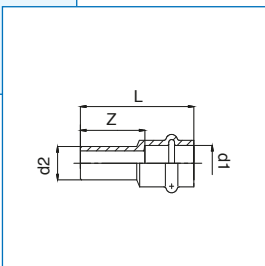
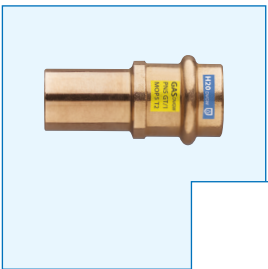
Art. RS8245

-  Bronze F/F adapter. **PATENTED**
-  Passtück I/I aus Rotguss.
-  Adaptateur F/F en bronze.
-  Adaptador H/H de bronce.
-  Переходник из бронзы В-В.








d1xd2	BAG	MASTER BOX	CODE	L	Z
15x14*	10	200	RS8245015014000	48	4
16x15*	10	150	RS8245016015000	47	3
18x16*	10	150	RS8245018016000	48	3

* Ø14 must be pressed with Ø15 jaws - Ø14 muss mit Ø15 Pressbacken gepresst werden.
Ø16 must be pressed with Ø18 jaws - Ø16 muss mit Ø18 Pressbacken gepresst werden.



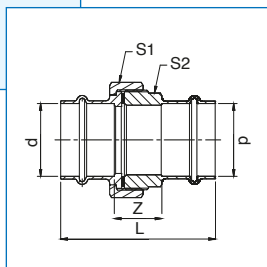
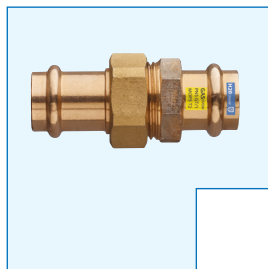
Art. RS8246

-  Bronze M/F adapter. **PATENTED**
-  Passtück A/I aus Rotguss.
-  Adaptateur M/F en bronze.
-  Adaptador M/H de bronce.
-  Переходник из бронзы Н-В.



d2xd1	BAG	MASTER BOX	CODE	L	Z
15x14*	10	200	RS8246015014000	51	29
16x15*	10	200	RS8246016015000	52	30
18x16*	10	150	RS8246018016000	52	30

* Ø14 must be pressed with Ø15 jaws - Ø14 muss mit Ø15 Pressbacken gepresst werden.
Ø16 must be pressed with Ø18 jaws - Ø16 muss mit Ø18 Pressbacken gepresst werden.



Art. RS8340

Bronze F/F flat seat joint.

PATENTED

Rohrverschraubung I/I aus Rotguss.

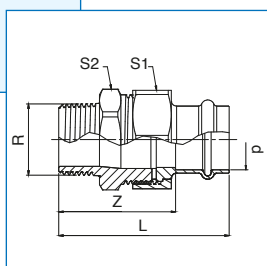
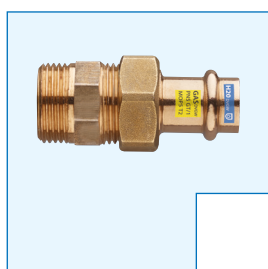
Union F/F en bronze.

Unión H/H de bronce.

Разъемное соединение из бронзы В-В.



d	BAG	MASTER BOX	CODE	L	S1	S2	Z
12	10	50	RS8340012012000	65	24	25	29
15	10	100	RS8340015015000	73	24	25	29
18	10	100	RS8340018018000	78	30	31	32
22	5	40	RS8340022022000	86	37	34	38
28	5	30	RS8340028028000	86	46	42	36
35	5	20	RS8340035035000	93	52	50	41
42	1	10	RS8340042042000	118	64	60	46
54	1	8	RS8340054054000	115	85	75	35



Art. RS8341

Bronze F/male thread flat seat joint.

PATENTED

Rohrverschraubung I mit A Gewinde aus Rotguss.

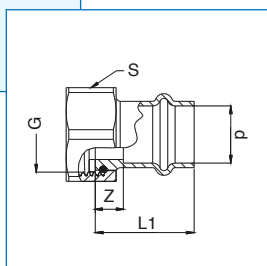
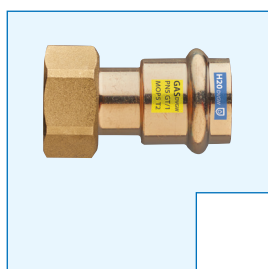
Union F/filetage mâle en bronze.

Unión H/rosca macho con junta plana de bronce.

Разъемное соединение из бронзы В-Н(R).



Rxd	BAG	MASTER BOX	CODE	L	S1	S2	Z
3/8"x12	10	150	RS8341A38012000	63	25	25	45
1/2"x12	5	80	RS8341A12012000	61	30	30	43
1/2"x15	5	60	RS8341A12015000	66	30	30	44
1/2"x18	5	50	RS8341A12018000	69	30	30	46
1/2"x22	5	30	RS8341A12022000	83	30	30	59
3/4"x15	5	50	RS8341A34015000	69	30	30	47
3/4"x18	5	50	RS8341A34018000	72	30	30	49
3/4"x22	5	50	RS8341A34022000	86	30	30	62
3/4"x28	5	50	RS8341A34028000	81	30	30	56
1"x22	5	40	RS8341B01022000	81	37	35	57
1"x28	5	20	RS8341B01028000	83	46	45	58
1"1/4x35	1	20	RS8341B14035000	88	52	50	62
1"1/2x42	1	10	RS8341B12042000	98	64	60	62
2"x54	1	8	RS8341C02054000	106	85	75	66



Art. RS8359

Bronze valve connector with a swivel nut in brass. **PATENTED**

Verschraubung aus Rotguss mit Schwenk-Mutter und flachdichtend.

Raccord en bronze avec écrou en laiton F/filetage femelle.

Conexión de bronce H/rosca hembra con tuerca giratoria de latón.

Разъемное соединение из бронзы с латуной накладной гайкой В(Г)-В.



Gxd	BAG	MASTER BOX	CODE	L1	S	Z
1/2"x15	10	150	RS8359A12015000	44	24	22
3/4"x12	10	100	RS8359A34012000	25	30	7
3/4"x15	10	100	RS8359A34015000	29	30	7
3/4"x18	10	150	RS8359A34018000	32	30	9
3/4"x22	10	80	RS8359A34022000	46	30	22
1"x18	10	100	RS8359B01018000	33	37	10
1"x22	10	100	RS8359B01022000	38	37	14
1"1/4x28	5	30	RS8359B14028000	34	46	9
1"1/2x28	10	50	RS8359B12028000	34	52	9
2"x35	5	20	RS8359C02035000	34	64	8
2"x42	5	20	RS8359C02042000	48	64	12
2"1/2x54	5	10	RS8359C12054000	45	81	5



1. Introduction

FRABOPRESS V, with Securfrabo security system, is the patented series of copper and bronze pressfittings available in the dimensional range between 12 and 54 mm. The fittings feature a **V-type pressing profile** and they are suitable for water installations.

The black EPDM gasket is characterized by high chemical-physical performances to satisfy the requirements of hygiene and purity, typical of drinking water applications. The material of the gasket complies with EN 681-1 standard.

Mixed connection fittings to other systems are made using bronze threaded parts with press ends. The threads comply with UNI EN 10226-1 standard. For dimensions between 67 and 108 mm, the range is completed by a series of M-profile copper and bronze pressfittings (FRABOPRESS M range).

1. Einführung

FRABOPRESS V mit Securfrabo ist ein Fittingsystem aus Kupfer und Bronze welches im Abmessungsbereich von 12 bis 54 mm erhältlich ist. Die Fittings sind für Trinkwasserleitungen gedacht und haben das sog. **V-Profil**.

Die schwarze EPDM-Dichtung zeichnet sich durch chemisch-physikalische Eigenschaften aus, welche die Hygiene- und Ungiftigkeit Anforderungen der Anwendung im Trinkwasserbereich erfüllen. Das Material entspricht der EN 681-1 Norm.

Die Gewindeanschlüsse sind gemäß der Norm UNI EN 10226-1 und werden aus Bronze hergestellt. Um das Sortiment zu vervollständigen, sind für die Abmessung zwischen 67 und 108 mm M-Profil Fittings erhältlich (FRABOPRESS M Serie).

1. Présentation

FRABOPRESS V, avec système de sécurité Securfrabo, est une gamme brevetée composée par des raccords à sertir en cuivre et bronze disponible dans la gamme dimensionnelle entre 12 et 54 mm, avec **profil** de sertissage **V** et adaptée aux installations d'eau.

Le joint torique en EPDM noir est caractérisé par des performances physico-chimiques capables de satisfaire les exigences d'hygiène et d'atotoxicité nécessaires pour les applications en contact avec l'eau potable.

Le matériau dont il est composé est conforme à la norme EN 681-1.

Les extrémités filetées, conformes à la norme UNI EN 10226-1, sont réalisées avec des parties filetées en bronze avec terminaisons à sertir. La gamme est complétée dans les dimensions comprises entre 67 et 108 mm par une série des raccords à profile M (gamme FRABOPRESS M).

1. Presentación

FRABOPRESS V, con sistema de seguridad Securfrabo, es una serie patentada constituida por racores para prensar de cobre y de bronce disponible en la gama dimensional desde 12 hasta 54 mm, **perfil V**, aplicable en instalaciones de agua.

La junta de EPDM negro se caracteriza por prestaciones fisicoquímicas capaces de satisfacer las exigencias de higiene y de no toxicidad necesarias para aplicaciones en contacto con el agua potable. El material que la constituye cumple con la norma EN 681-1.

Las terminaciones roscadas de conexión con otros sistemas, que cumplen con la norma UNI EN 10226-1, se realizan con piezas de bronce roscadas con extremidad para prensar. La gama se completa en las dimensiones desde 67 hasta 108 mm con una serie de racores para prensar con perfil M (gama FRABOPRESS M).

1. Описание

FRABOPRESS V с системой безопасности Securfrabo - серия пресс фитингов из меди и бронзы для систем водоснабжения, представленная размерным рядом от 12 до 54 мм с профилем **обжима V**.

Прокладка из EPDM черного цвета обладает химико-физическими свойствами, которые отвечают требованиям по гигиене и нормам токсичности оборудования, находящегося в контакте с питьевой водой.

Материал, из которого она изготовлена, соответствует нормативу EN 681-1.

Резьбовые соединения выполнены из бронзовых элементов с резьбой и соединительным патрубком под пресс. Резьба соответствует UNI EN 10226-1.

В больших размерах с диаметром от 67 до 108 мм серию дополняют пресс-фитинги с профилем M (серия FRABOPRESS M).

2. Advantages

- Safety: thanks to Securfrabo **security system**, it is possible to find immediately a leakage of an unpressed fitting during the pressure test.
- Easy and quick installation, typical of pressing technique.
- Corrosion resistance, hygiene and reliability.

2. Vorteile

- Sicherheit: Securfrabo-**Sicherheitssystem** welches versehentliche nicht gepresst Stellen bei der Druckprobe signalisiert.
- Einfache und schnelle Installation.
- Korrosionsbeständigkeit, Hygiene und Zuverlässigkeit.

2. Avantages

- Sécurité: grâce au **système de sécurité** Securfrabo, il est possible de détecter la fuite du fluide dans la phase de test de l'installation, si le raccord n'a pas été serti.
- Facilité et rapidité d'installation, typiques de la technique de jonction à sertir.
- Résistance à la corrosion, hygiène et fiabilité.

2. Ventajas

- Seguridad: el **sistema de seguridad** Securfrabo permite detectar una fuga de fluido durante la prueba de la instalación, si la conexión no se ha prensado.
- Facilidad y velocidad de instalación, típicas de las conexiones para prensar.
- Resistencia a la corrosión, higiene y fiabilidad.

2. Преимущества

- Безопасность: благодаря **системе безопасности** Securfrabo возможно обнаружить протечки в момент испытания системы, в случае, если фитинг не был опрессован.
- Простота и скорость монтажа, характерные для техники выполнения пресс-соединений.
- Устойчивость к коррозии, гигиеничность и надежность.

3. Applications

FRABOPRESS V fittings are suitable for water applications. They are perfect for heating and cooling systems, compressed-air installations and firefighting systems.

3. Anwendungsbereiche

Die Pressfittings der FRABOPRESS V Serie sind für alle Wasseranwendungen geeignet. Sie sind ideal für die Herstellung von Heiz- und Kühlsystemen, Druckluft- und Brandschutzsystemen.

3. Champs d'emploi

Les raccords de la gamme FRABOPRESS V sont adaptés à tout type d'application d'eau. Ils sont parfaits pour la réalisation des installations de chauffage ou de refroidissement, système d'air comprimé et de protection contre les incendies.

3. Aplicaciones

Los racores de la gama FRABOPRESS V son aptos para todas las aplicaciones agua. Son ideales para la realización de sistemas de calefacción y refrigeración, sistemas de aire comprimido y de protección contra incendios.

3. Области применения

Пресс-фитинги серии FRABOPRESS V подходят для всех типов систем водораспределения. Они идеальны для систем отопления и охлаждения, сжатого газа и противопожарных систем.



DRINKING
WATER



HEATING



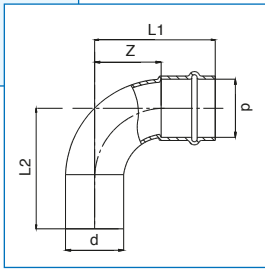
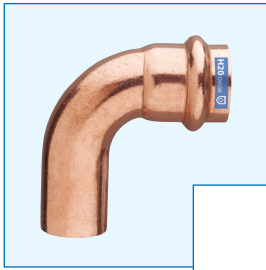
HVAC



COMPRESSED
AIR



FIREFIGHTING



Art. RZ9001

Copper M/F 90° elbow.

Bogen 90° I/A aus Kupfer.

Courbe 90° M/F en cuivre.

Curva 90° M/H de cobre.

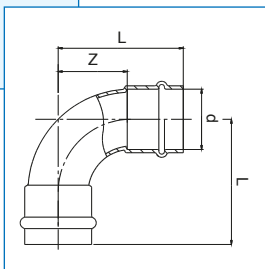
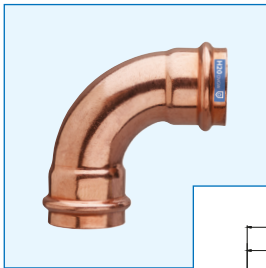
Угол 90° из меди Н-В.

PATENTED



d	BAG	MASTER BOX	CODE	L1	L2	Z
12	10	300	RZ9001012012000	33	34	15
14	10	200	RZ9001014014000	40	42	18
15	10	200	RZ9001015015000	40	42	18
16	10	150	RZ9001016016000	40	42	18
18	10	150	RZ9001018018000	45	47	22
22	10	80	RZ9001022022000	51	52	27
28	5	40	RZ9001028028000	59	61	34
35	5	30	RZ9001035035000	68	70	42
42	1	10	RZ9001042042000	87	88	51
54	1	7	RZ9001054054000	105	107	65

The big-size, item RR9001, is available. See at page 46 - Big-size, Artikel RR9001, ist verfügbar. Bitte sehen Sie Seite 46.



Art. RZ9002

Copper F/F 90° elbow.

Bogen 90° I/I aus Kupfer.

Courbe 90° F/F en cuivre.

Curva 90° H/H de cobre.

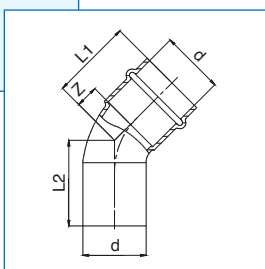
Угол 90° из меди В-В.

PATENTED



d	BAG	MASTER BOX	CODE	L	Z
12	10	250	RZ9002012012000	33	15
14	10	150	RZ9002014014000	40	18
15	10	150	RZ9002015015000	40	18
16	10	100	RZ9002016016000	40	18
18	10	100	RZ9002018018000	45	22
22	10	60	RZ9002022022000	47	23
28	5	40	RZ9002028028000	59	34
35	5	30	RZ9002035035000	68	42
42	1	10	RZ9002042042000	87	51
54	1	7	RZ9002054054000	105	65

The big-size, item RR9002, is available. See at page 46 - Big-size, Artikel RR9002, ist verfügbar. Bitte sehen Sie Seite 46.



Art. RZ9040

Copper M/F 45° elbow.

Bogen 45° I/A aus Kupfer.

Courbe 45° M/F en cuivre.

Curva 45° M/H de cobre.

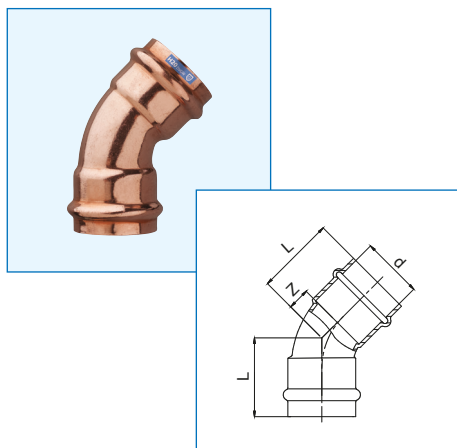
Угол 45° из меди Н-В.

PATENTED



d	BAG	MASTER BOX	CODE	L1	L2	Z
12	10	250	RZ9040012012000	25	26	7
14	10	200	RZ9040014014000	29	30	7
15	10	200	RZ9040015015000	29	30	7
16	10	200	RZ9040016016000	29	30	7
18	10	150	RZ9040018018000	31	32	8
22	10	100	RZ9040022022000	34	36	10
28	5	60	RZ9040028028000	38	40	13
35	5	40	RZ9040035035000	43	45	17
42	5	20	RZ9040042042000	53	55	17
54	1	10	RZ9040054054000	68	70	28

The big-size, item RR9040, is available. See at page 46 - Big-size, Artikel RR9040, ist verfügbar. Bitte sehen Sie Seite 46.



Art. RZ9041

Copper F/F 45° elbow.

Bogen 45° I/I aus Kupfer.

Courbe 45° F/F en cuivre.

Curva 45° H/H de cobre.

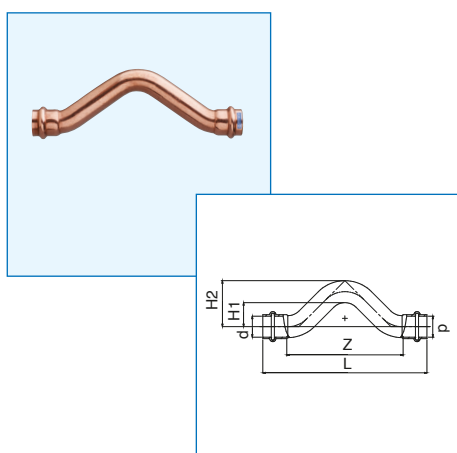
Угол 45° из меди В-В.

PATENTED



d	BAG	MASTER BOX	CODE	L	Z
12	10	250	RZ9041012012000	25	7
14	10	200	RZ9041014014000	29	7
15	10	200	RZ9041015015000	29	7
16	10	200	RZ9041016016000	29	7
18	10	150	RZ9041018018000	31	8
22	10	80	RZ9041022022000	34	10
28	5	60	RZ9041028028000	38	13
35	5	40	RZ9041035035000	43	17
42	5	20	RZ9041042042000	53	17
54	1	10	RZ9041054054000	68	28

The big-size, item RR9041, is available. See at page 47 - Big-size, Artikel RR9041, ist verfügbar. Bitte sehen Sie Seite 47.



Art. RZ9085

Copper F/F full crossover.

Überbogen I/I aus Kupfer.

Chapeau de gendarme F/F en cuivre.

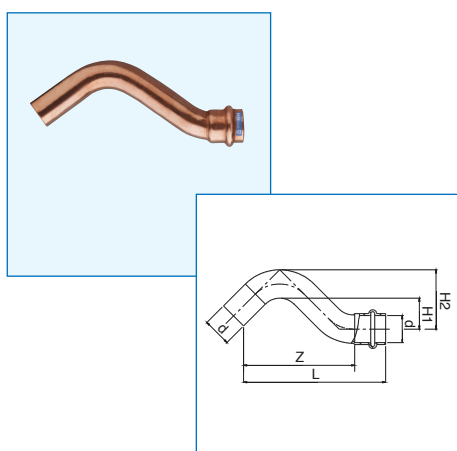
Desviación larga H/H de cobre.

Обвод из меди длинный В-В.

PATENTED



d	BAG	MASTER BOX	CODE	L	H1	H2	Z
15	5	80	RZ9085015015000	152	27	35	110
18	10	50	RZ9085018018000	176	28	37	130
22	5	25	RZ9085022022000	198	30	41	150



Art. RZ9086

Copper M/F partial crossover.

Überbogen I/A aus Kupfer.

Clarinette M/F en cuivre.

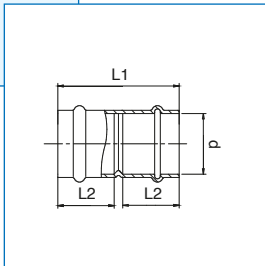
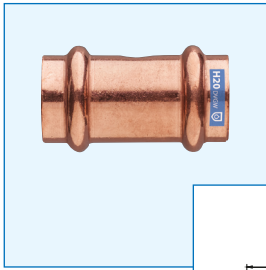
Desviación corta M/H de cobre.

Обвод из меди короткий Н-В.

PATENTED



d	BAG	MASTER BOX	CODE	L	H1	H2	Z
12	10	200	RZ9086012012000	112	20	32	96
15	10	70	RZ9086015015000	119	20	35	98
18	10	70	RZ9086018018000	137	20	38	114
22	5	25	RZ9086022022000	160	30	52	136



Art. RZ9270

Copper F/F coupling.

PATENTED

Muffe I/I aus Kupfer.

Manchon avec flexion F/F en cuivre.

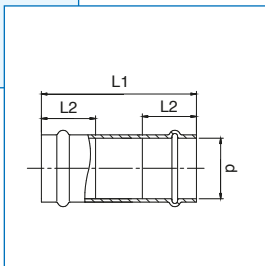
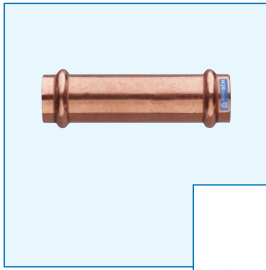
Manguito con remante H/H de cobre.

Муфта с упором медная В-В.



d	BAG	MASTER BOX	CODE	L1	L2
12	10	300	RZ9270012012000	40	18
14	10	200	RZ9270014014000	49	22
15	10	200	RZ9270015015000	49	22
16	10	200	RZ9270016016000	49	22
18	10	150	RZ9270018018000	52	23
22	10	100	RZ9270022022000	53	24
28	10	60	RZ9270028028000	57	25
35	5	40	RZ9270035035000	62	26
42	5	25	RZ9270042042000	78	36
54	1	15	RZ9270054054000	93	40

The big-size, item RR9270, is available. See at page 48 - Big-size, Artikel RR9270, ist verfügbar. Bitte sehen Sie Seite 48.



Art. RZ9271

Copper F/F slip coupling.

PATENTED

Schiebemuffe I/I aus Kupfer.

Manchon coulissant F/F en cuivre.

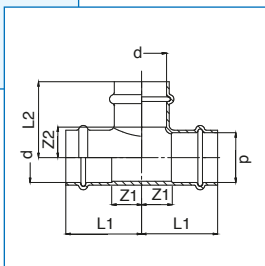
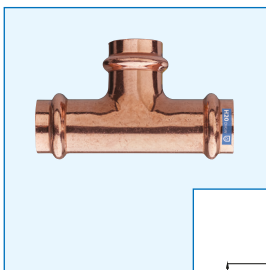
Manguito de paso H/H de cobre.

Муфта проходная медная В-В.



d	BAG	MASTER BOX	CODE	L1	L2
12	10	100	RZ9271012012000	58	18
15	10	100	RZ9271015015000	82	22
18	10	100	RZ9271018018000	92	23
22	5	60	RZ9271022022000	97	24
28	5	50	RZ9271028028000	107	25
35	5	30	RZ9271035035000	114	26
42	5	20	RZ9271042042000	142	41
54	1	10	RZ9271054054000	163	45

The big-size, item RR9271, is available. See at page 48 - Big-size, Artikel RR9271, ist verfügbar. Bitte sehen Sie Seite 48.



Art. RZ9130

Copper F/F/F tee.

PATENTED

T-Stück I/I/I aus Kupfer.

Té F/F/F en cuivre.

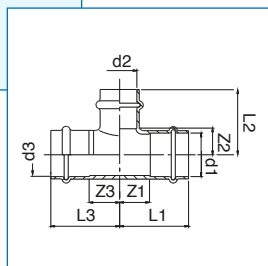
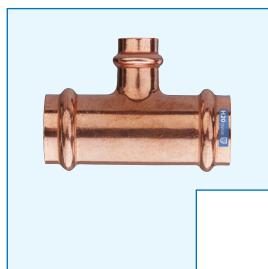
T H/H/H de cobre.

Тройник из меди В-В-В.



d	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
12	10	150	RZ9130012012012	29	29	11	11
14	10	100	RZ9130014014014	41	33	19	11
15	10	100	RZ9130015015015	41	33	19	11
16	10	100	RZ9130016016016	41	33	19	11
18	10	80	RZ9130018018018	42	35	19	12
22	5	40	RZ9130022022022	45	39	21	15
28	5	35	RZ9130028028028	48	46	23	21
35	5	20	RZ9130035035035	53	48	27	22
42	1	10	RZ9130042042042	65	65	29	29
54	1	10	RZ9130054054054	75	75	35	35

The big-size, item RR9130, is available. See at page 48 - Big-size, Artikel RR9130, ist verfügbar. Bitte sehen Sie Seite 48.



Art. RZ9131

Copper F/F/F reducing tee.

PATENTED

T-Stück reduziert I/I/I aus Kupfer.

Té réduit F/F/F en cuivre.

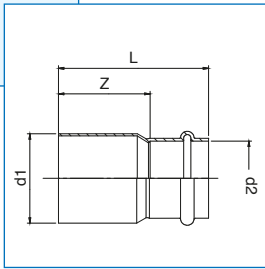
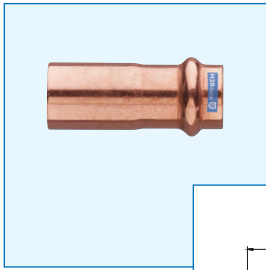
T reducido H/H/H de cobre.

Тройник из меди у меньшенного размера В-В-В.



d1xd2xd3	BAG	MASTER BOX	CODE	L1	L2	L3	Z1	Z2	Z3
12x15x12	10	100	RZ9131012015012	38	32	38	20	10	20
14x12x14	10	100	RZ9131014012014	39	29	39	17	11	17
15x12x12	10	100	RZ9131015012012	39	30	39	17	12	21
15x12x15	10	100	RZ9131015012015	39	30	39	17	12	17
15x15x12	5	70	RZ9131015015012	41	33	41	19	11	19
15x18x15	5	80	RZ9131015018015	42	35	42	20	12	20
15x22x15	5	50	RZ9131015022015	45	38	45	23	14	23
16x14x16	10	100	RZ9131016014016	39	32	39	17	10	17
18x12x15	5	50	RZ9131018012015	39	32	93	16	13	16
18x12x18	10	80	RZ9131018012018	39	31	39	16	13	16
18x15x15	10	80	RZ9131018015015	41	35	45	18	13	23
18x15x18	10	80	RZ9131018015018	41	35	41	18	13	18
18x18x15	10	80	RZ9131018018015	42	35	47	19	12	25
18x22x18	5	50	RZ9131018022018	45	36	45	22	12	22
22x12x22	5	60	RZ9131022012022	39	33	39	15	15	15
22x15x15	5	50	RZ9131022015015	41	37	47	17	15	25
22x15x18	5	50	RZ9131022015018	41	37	44	17	15	21
22x15x22	5	50	RZ9131022015022	41	37	41	17	15	17
22x16x22 NEW	5	50	RZ9131022016022	-	-	-	-	-	-
22x18x15	5	50	RZ9131022018015	42	37	50	18	14	28
22x18x18	5	50	RZ9131022018018	42	37	47	18	14	24
22x18x22	5	50	RZ9131022018022	42	37	42	18	14	18
22x22x15	5	50	RZ9131022022015	45	38	51	21	14	29
22x22x18	5	50	RZ9131022022018	45	38	51	21	14	28
22x28x22	5	35	RZ9131022028022	48	39	48	24	14	24
28x15x22	5	40	RZ9131028015022	41	41	45	16	19	21
28x15x28	5	30	RZ9131028015028	41	41	41	16	19	16
28x18x22	5	40	RZ9131028018022	42	41	47	17	18	23
28x18x28	5	30	RZ9131028018028	42	41	42	17	18	17
28x22x22	5	30	RZ9131028022022	45	42	50	20	18	26
28x22x28	5	30	RZ9131028022028	45	42	45	20	18	20
28x28x22	5	30	RZ9131028028022	48	43	53	23	18	29
35x15x35	5	25	RZ9131035015035	44	44	44	18	22	18
35x18x35	5	25	RZ9131035018035	44	44	44	18	21	18
35x22x28	5	25	RZ9131035022028	46	45	52	20	21	27
35x22x35	5	20	RZ9131035022035	46	45	46	20	21	20
35x28x28	5	20	RZ9131035028028	49	46	55	23	21	30
35x28x35	5	20	RZ9131035028035	49	46	49	23	21	23
35x35x22	5	20	RZ9131035035022	52	50	62	26	24	38
35x35x28	5	20	RZ9131035035028	52	50	59	26	24	34
42x22x42	1	15	RZ9131042022042	53	52	53	17	28	17
42x28x42	1	10	RZ9131042028042	55	53	55	19	28	19
42x35x42	1	10	RZ9131042035042	58	55	58	22	29	22
54x22x54	1	10	RZ9131054022054	60	58	60	20	34	20
54x28x54	1	10	RZ9131054028054	63	59	63	23	34	23
54x35x54	1	10	RZ9131054035054	68	61	68	28	35	28
54x42x54	1	10	RZ9131054042054	69	71	69	29	35	29

The big-sizes, items RR9131 and ZM9131, are available. See at pages 49-50 - Big-sizes, Artikel RR9131 und ZM9131, sind verfügbar. Bitte sehen Sie Seite 49-50.



Art. RZ9243

Copper M/F reducer.

PATENTED

Reduzierstück I/A aus Kupfer.

Réduction M/F en cuivre.

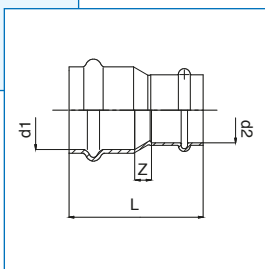
Reducción M/H de cobre.

Муфта реду кционная медная Н-В.



d1xd2	BAG	MASTER BOX	CODE	L	Z
14x12	10	300	RZ9243014012000	44	26
15x12	10	300	RZ9243015012000	44	26
16x12	10	250	RZ9243016012000	44	26
16x14	10	250	RZ9243016014000	46	27
18x12	10	300	RZ9243018012000	47	29
18x14	10	200	RZ9243018014000	50	28
18x15	10	200	RZ9243018015000	50	28
18x16	10	200	RZ9243018016000	50	28
22x14	10	150	RZ9243022014000	56	34
22x15	10	150	RZ9243022015000	56	34
22x16	10	150	RZ9243022016000	56	34
22x18	10	150	RZ9243022018000	52	29
28x15	10	100	RZ9243028015000	60	38
28x18	10	100	RZ9243028018000	59	36
28x22	10	100	RZ9243028022000	58	34
35x22	10	60	RZ9243035022000	64	40
35x28	10	50	RZ9243035028000	59	34
42x22	5	50	RZ9243042022000	76	52
42x28	5	40	RZ9243042028000	74	49
42x35	5	40	RZ9243042035000	68	42
54x35	5	40	RZ9243054035000	89	63
54x42	5	20	RZ9243054042000	90	54

The big-sizes, items RR9243 and ZM9243, are available. See at page 50 - Big-sizes, Artikel RR9243 und ZM9243, sind verfügbar. Bitte sehen Sie Seite 50.



Art. RZ9240

Copper F/F reducing coupling.

PATENTED

Muffe reduziert I/I aus Kupfer.

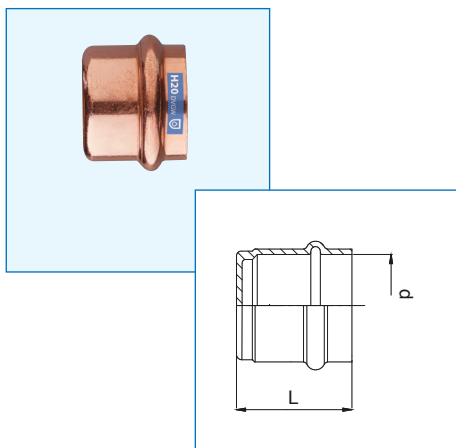
Réduction F/F en cuivre.

Reducción H/H de cobre.






Муфта реду кционная медная В-В.



d1xd2	BAG	MASTER BOX	CODE	L	Z
14x12	10	300	RZ9240014012000	46	6
15x12	10	300	RZ9240015012000	46	6
16x14	10	200	RZ9240016014000	48	4
18x15	10	200	RZ9240018015000	50	5
18x16	10	200	RZ9240018016000	50	5
22x15	10	150	RZ9240022015000	58	12
22x16	10	150	RZ9240022016000	58	12
22x18	10	130	RZ9240022018000	55	8
28x22	10	80	RZ9240028022000	58	9
35x28	5	50	RZ9240035028000	62	11
42x35	5	30	RZ9240042035000	73	11
54x42	5	20	RZ9240054042000	95	19



Art. RZ9301

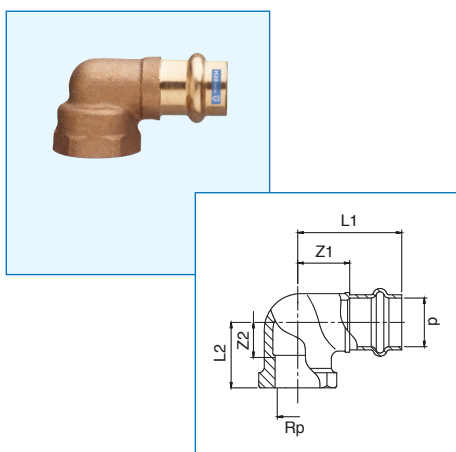
-  Copper F plug.
-  Verschlusskappe I aus Kupfer.
-  Bouchon F en cuivre.
-  Tapón H de cobre.
-  Заглушка медная В.

PATENTED








d	BAG	MASTER BOX	CODE	L
12	10	500	RZ9301012000000	21
14	10	400	RZ9301014000000	25
15	10	400	RZ9301015000000	25
16	10	200	RZ9301016000000	25
18	10	300	RZ9301018000000	26
22	10	200	RZ9301022000000	27
28	10	100	RZ9301028000000	28
35	5	70	RZ9301035000000	30
42	5	40	RZ9301042000000	40
54	5	30	RZ9301054000000	45

The big-size, item RR9301, is available. See at page 51 - Big-size, Artikel RR9301, ist verfügbar. Bitte sehen Sie Seite 51.



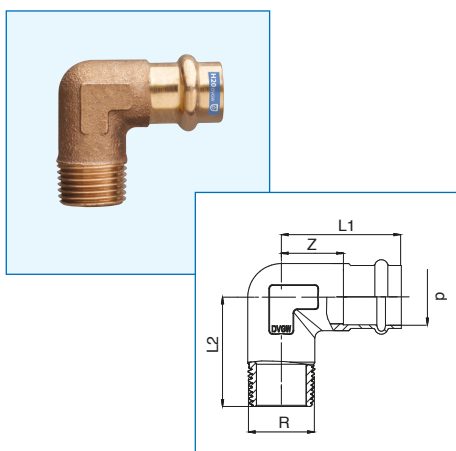
Art. RZ8090

-  Bronze F/female thread 90° elbow.
-  Winkel 90° I mit I Gewinde aus Rotguss.
-  Coude 90° F/filetage femelle en bronze.
-  Codo mixto 90° H/rosca hembra de bronce.
-  Угол 90° из бронзы В-В(Rp).






PATENTED



Rpxd	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
3/8"x12	10	150	RZ8090A38012000	44	18	26	9
3/8"x15	10	100	RZ8090A38015000	47	19	25	10
1/2"x12	10	150	RZ8090A12012000	44	22	26	11
1/2"x15	10	100	RZ8090A12015000	45	24	23	13
1/2"x18	10	100	RZ8090A12018000	47	24	24	13
1/2"x22	10	60	RZ8090A12022000	49	24	25	13
3/4"x15	10	70	RZ8090A34015000	49	31	27	16
3/4"x18	5	70	RZ8090A34018000	50	24	27	9
3/4"x22	5	60	RZ8090A34022000	49	29	25	6
1"x22	5	40	RZ8090B01022000	60	33	36	10
1"x28	5	40	RZ8090B01028000	61	33	36	9
1"1/4x35	1	20	RZ8090B14035000	67	40	41	22
1"1/2x42	1	20	RZ8090B12042000	77	43	41	25
2"x54	1	8	RZ8090C02054000	97	57	57	39



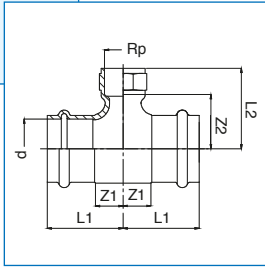
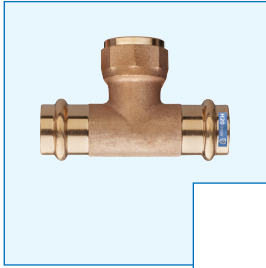
Art. RZ8092

-  Bronze F/male thread 90° elbow.
-  Winkel 90° I mit A Gewinde aus Rotguss.
-  Coude 90° F/filetage mâle en bronze.
-  Codo mixto 90° H/rosca macho de bronce.
-  Угол 90° из бронзы В-В(R).

PATENTED



Rxd	BAG	MASTER BOX	CODE	L1	L2	Z
3/8"x12	10	150	RZ8092A38012000	42	32	24
3/8"x15	10	100	RZ8092A38015000	42	32	20
1/2"x12	10	150	RZ8092A12012000	43	34	25
1/2"x15	10	100	RZ8092A12015000	44	34	22
1/2"x18	10	80	RZ8092A12018000	47	49	24
3/4"x18	5	70	RZ8092A34018000	49	50	26
3/4"x22	10	50	RZ8092A34022000	55	39	31
1"x28	5	30	RZ8092B01028000	59	73	34
1"1/4x35	1	15	RZ8092B14035000	70	86	44
1"1/2x42	1	10	RZ8092B12042000	87	95	51
2"x54	1	7	RZ8092C02054000	110	118	66



Art. RZ8130

Bronze F/female thread/F tee.

PATENTED

T-Stück mit I Gewinde aus Rotguss.

Té F/filetage femelle/F en bronze.

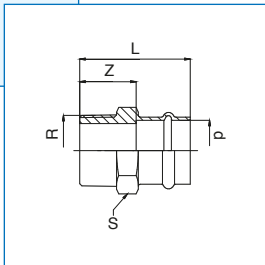
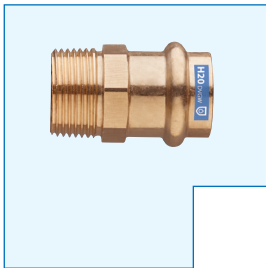
T H/rosca hembra/H de bronce.

Тройник из бронзы В-В(Rp)-В.



Rpxd	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
3/8"x15	10	80	RZ8130015A38015	43	22	21	12
1/2"x12	10	100	RZ8130012A12012	44	23	26	13
1/2"x14	10	80	RZ8130014A12014	45	23	23	13
1/2"x15	10	80	RZ8130015A12015	45	23	23	13
1/2"x18	10	60	RZ8130018A12018	47	24	24	14
1/2"x22	5	50	RZ8130022A12022	48	25	24	15
1/2"x28	5	25	RZ8130028A12028	53	50	28	35
1/2"x35	5	20	RZ8130035A12035	49	38	23	23
1/2"x42	1	10	RZ8130042A12042	55	50	19	35
1/2"x54	1	10	RZ8130054A12054	67	54	27	39
3/4"x22	5	40	RZ8130022A34022	53	31	29	16
3/4"x28	5	20	RZ8130028A34028	53	50	27	35
1"x28	5	25	RZ8130028B01028	56	35	30	20

The big-size, item RB8130, is available. See at page 52 - Big-size, Artikel RB8130, ist verfügbar. Bitte sehen Sie Seite 52.



Art. RZ8243

Bronze F/male thread adapter.

PATENTED

Übergangsstück I mit A Gewinde aus Rotguss.

Manchon F/filetage mâle en bronze.

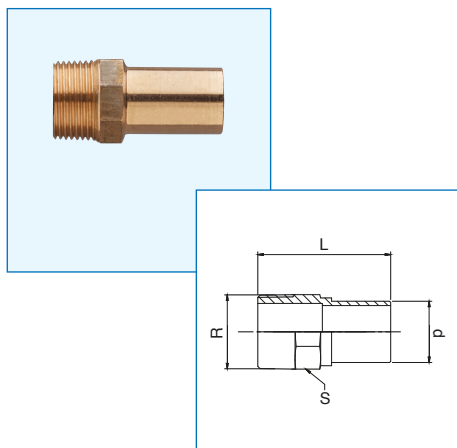
Manguito mixto H/rosca macho de bronce.

Муфта бронзовая В-Н(R).



Rxd	BAG	MASTER BOX	CODE	L	S	Z
3/8"x12	10	250	RZ8243A38012000	40	21	22
3/8"x14	10	200	RZ8243A38014000	44	25	22
3/8"x15	10	200	RZ8243A38015000	44	25	22
1/2"x12	10	200	RZ8243A12012000	43	21	25
1/2"x14	10	200	RZ8243A12014000	46	25	24
1/2"x15	10	150	RZ8243A12015000	46	25	24
1/2"x16	10	150	RZ8243A12016000	46	25	24
1/2"x18	10	150	RZ8243A12018000	48	27	25
1/2"x22	10	100	RZ8243A12022000	49	32	25
3/4"x15	10	100	RZ8243A34015000	48	28	26
3/4"x16	10	100	RZ8243A34016000	48	28	26
3/4"x18	10	100	RZ8243A34018000	49	28	26
3/4"x22	10	100	RZ8243A34022000	51	32	27
3/4"x28	5	70	RZ8243A34028000	52	38	27
1"x22	5	50	RZ8243B01022000	52	34	28
1"x28	5	50	RZ8243B01028000	54	38	29
1"x35	5	30	RZ8243B01035000	58	46	32
1"1/4x28	5	50	RZ8243B14028000	58	42	33
1"1/4x35	5	40	RZ8243B14035000	60	46	34
1"1/4x42	5	20	RZ8243B14042000	75	56	39
1"1/2x35	5	25	RZ8243B12035000	60	48	34
1"1/2x42	5	25	RZ8243B12042000	75	56	39
1"1/2x54	1	15	RZ8243B12054000	81	68	41
2"x54	1	10	RZ8243C02054000	86	68	46

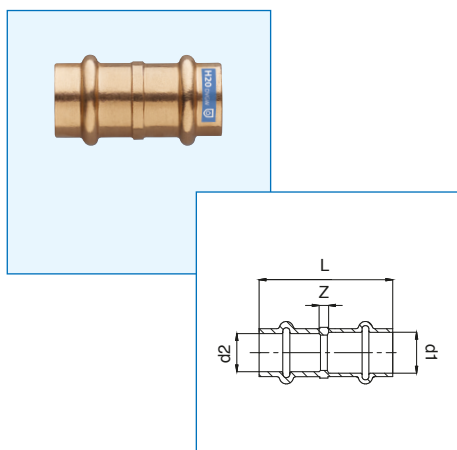
The big-size, item RB8243, is available. See at page 53 - Big-size, Artikel RB8243, ist verfügbar. Bitte sehen Sie Seite 53.



Art. RS8244

- Bronze M/male thread adapter.
- Einsteckstück A mit A Gewinde aus Rotguss.
- Manchon M/filetage mâle en bronze.
- Manguito mixto M/rosca macho de bronce.
- Муфта бронзовая Н-Н(Р).

Rxd	BAG	MASTER BOX	CODE	L	S
1/2"x12	10	200	RS8244A12012000	46	21
1/2"x15	10	200	RS8244A12015000	49	21
1/2"x18	10	150	RS8244A12018000	50	21
1/2"x22	10	100	RS8244A12022000	51	25
3/4"x18	10	100	RS8244A34018000	53	27
3/4"x22	10	100	RS8244A34022000	54	27
1"x28	5	50	RS8244B01028000	57	34
1"1/4x35	5	40	RS8244B14035000	64	42
1"1/2x42	5	25	RS8244B12042000	74	48
2"x54	1	10	RS8244C02054000	81	60



Art. RZ8245

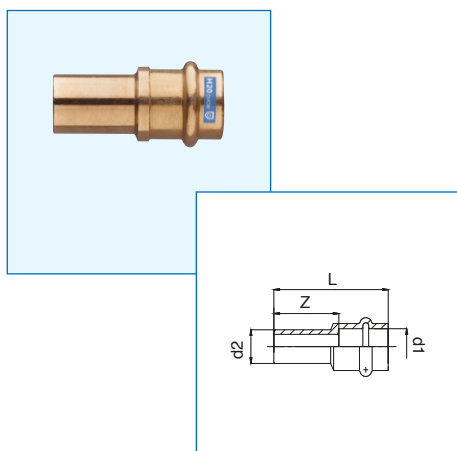
- Bronze F/F adapter.
- Passtück I/I aus Rotguss.
- Adaptateur F/F en bronze.
- Adaptador H/H de bronce.
- Переходник из бронзы В-В.

PATENTED



d1xd2	BAG	MASTER BOX	CODE	L	Z
15x14*	10	200	RZ8245015014000	48	4
15x16*	10	150	RZ8245015016000	47	3
18x16*	10	150	RZ8245018016000	48	3

* Ø14 must be pressed with Ø15 jaws - Ø14 muss mit Ø15 Pressbacken gepresst werden.
 Ø16 must be pressed with Ø18 jaws - Ø16 muss mit Ø18 Pressbacken gepresst werden.



Art. RZ8246

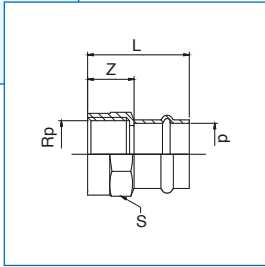
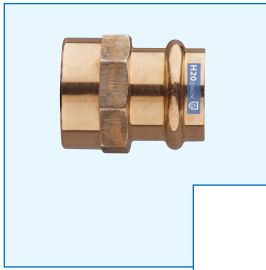
- Bronze M/F adapter.
- Passtück M/I aus Rotguss.
- Adaptateur M/F en bronze.
- Adaptador M/H de bronce.
- Переходник из бронзы Н-В.

PATENTED



d2xd1	BAG	MASTER BOX	CODE	L	Z
15x14*	10	200	RZ8246015014000	51	29
15x16*	10	200	RZ8246015016000	52	30
18x16*	10	150	RZ8246018016000	52	30

* Ø14 must be pressed with Ø15 jaws - Ø14 muss mit Ø15 Pressbacken gepresst werden.
 Ø16 must be pressed with Ø18 jaws - Ø16 muss mit Ø18 Pressbacken gepresst werden.



Art. RZ8270



Bronze F/female thread adapter.

PATENTED



Übergangsstück I mit I Gewinde aus Rotguss.



Manchon F/filetage femelle en bronze.



Manguito mixto H/rosca hembra de bronce.

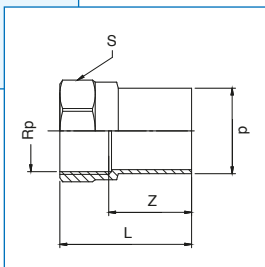
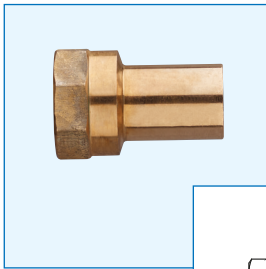


Муфта бронзовая В-В(Rp).



Rpxd	BAG	MASTER BOX	CODE	L	S	Z
3/8"x12	10	250	RZ8270A38012000	35	25	5
3/8"x14	10	200	RZ8270A38014000	36	25	2
3/8"x15	10	200	RZ8270A38015000	36	25	2
1/2"x12	10	200	RZ8270A12012000	36	25	3
1/2"x14	10	200	RZ8270A12014000	40	25	3
1/2"x15	10	200	RZ8270A12015000	40	25	3
1/2"x16	10	150	RZ8270A12016000	40	25	3
1/2"x18	10	150	RZ8270A12018000	41	27	3
1/2"x22	10	100	RZ8270A12022000	41	32	2
3/4"x15	10	150	RZ8270A34015000	41	32	2
3/4"x16	10	150	RZ8270A34016000	41	32	2
3/4"x18	10	100	RZ8270A34018000	44	31	4
3/4"x22	10	100	RZ8270A34022000	46	32	5
3/4"x28	5	60	RZ8270A34028000	48	38	8
3/4"x35	5	50	RZ8270A34035000	50	42	7
1"x22	5	80	RZ8270B01022000	47	38	4
1"x28	5	50	RZ8270B01028000	48	38	4
1"x35	5	40	RZ8270B01035000	47	46	2
1"1/4x28	5	30	RZ8270B14028000	50	46	3
1"1/4x35	5	40	RZ8270B14035000	52	48	4
1"1/4x42	5	25	RZ8270B14042000	64	56	6
1"1/2x42	5	25	RZ8270B12042000	65	56	7
1"1/2x54	5	20	RZ8270B12054000	75	68	13
2"x54	1	15	RZ8270C02054000	80	68	16

The big-size, item RB8270, is available. See at page 54 - Big-size, Artikel RB8270, ist verfügbar. Bitte sehen Sie Seite 54.



Art. RS8272



Bronze M/female thread adapter.



Einsteckstück A mit I Gewinde aus Rotguss.



Manchon M/filetage femelle en bronze.

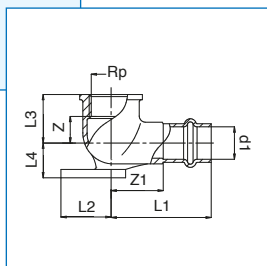


Manguito mixto M/rosca hembra de bronce.



Муфта бронзовая Н-В(Rp).

Rpxd	BAG	MASTER BOX	CODE	L	S	Z
3/8"x12	10	200	RS8272A38012000	37	21	25
3/8"x15	10	200	RS8272A38015000	41	21	29
1/2"x12	10	200	RS8272A12012000	41	25	26
1/2"x15	10	200	RS8272A12015000	45	25	30
1/2"x18	10	150	RS8272A12018000	46	25	31
1/2"x22	10	100	RS8272A12022000	47	25	32
3/4"x18	10	100	RS8272A34018000	48	31	31
3/4"x22	10	80	RS8272A34022000	49	31	32
1"x28	5	40	RS8272B01028000	54	38	34
1"1/4x35	5	20	RS8272B14035000	57	48	35
1"1/2x42	5	20	RS8272B12042000	68	55	46
2"x54	1	10	RS8272C02054000	76	68	50



Art. RZ8471

Bronze F/female thread 90° elbow with wallplate. **PATENTED**

Wandscheibe 90° I mit I Gewinde aus Rotguss.

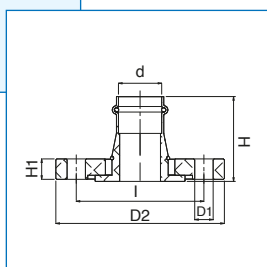
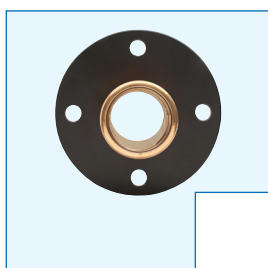
Applique coude 90° F/filetage femelle en bronze.

Codo mixto 90° H/rosca hembra con brida de bronce.

Угол бронзовый с фланцем В-В(Rp).



Rpxd1	BAG	MASTER BOX	CODE	L1	L2	L3	L4	Z	Z1
1/2"x12	10	80	RZ8471A12012000	43	22	22	12	10	24
1/2"x15	10	80	RZ8471A12015000	44	22	22	12	10	22
1/2"x18	5	70	RZ8471A12018000	45	22	24	12	12	22
3/4"x22	5	40	RZ8471A34022000	49	28	29	20	14	25



Art. RZ8273

Bronze flanged joint. **PATENTED**

Flanschadapter aus Rotguss.

Joint avec bride en bronze.

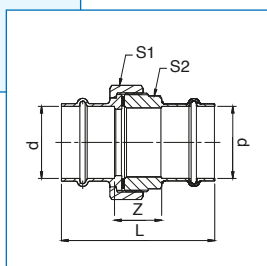
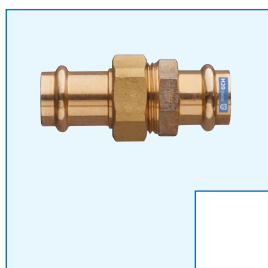
Manguito bridado de bronce.

Муфта фланцевая из бронзы



d	BAG	MASTER BOX	CODE	D1	D2	H	H1	I
28	1	10	RZ8273028000000	14	115	65	16	85
35	1	10	RZ8273035000000	18	140	70	18	100
42	1	5	RZ8273042000000	18	150	83	18	110
54	1	3	RZ8273054000000	18	165	90	20	125

The big-size, item RR9273, is available. See at page 55 - Big-size, Artikel RR9273, ist verfügbar. Bitte sehen Sie Seite 55.



Art. RZ8340

Bronze F/F flat seat joint. **PATENTED**

Rohrverschraubung I/I aus Rotguss.

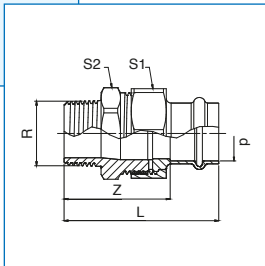
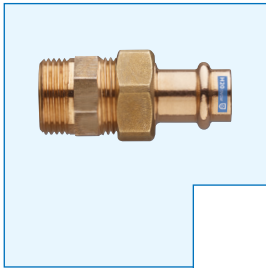
Union F/F en bronze.

Unión H/H de bronce.

Разъемное соединение из бронзы В-В.



d	BAG	MASTER BOX	CODE	L	S1	S2	Z
12	10	50	RZ8340012012000	65	24	25	29
15	10	100	RZ8340015015000	73	24	25	29
18	10	100	RZ8340018018000	78	30	31	32
22	5	40	RZ8340022022000	86	37	34	38
28	5	30	RZ8340028028000	86	46	42	36
35	5	20	RZ8340035035000	93	52	50	41
42	1	10	RZ8340042042000	118	64	60	46
54	1	8	RZ8340054054000	115	85	75	35



Art. RZ8341

Bronze F/male thread flat seat joint. **PATENTED**

Rohrverschraubung I mit A Gewinde aus Rotguss.

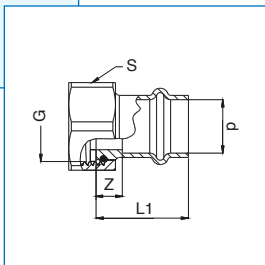
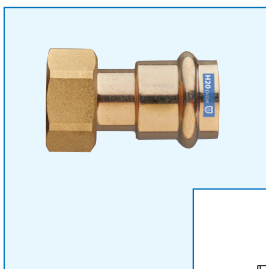
Union F/filetage mâle en bronze.

Unión H/rosca macho con junta plana de bronce.

Разъемное соединение из бронзы В-Н(Н).



Rxd	BAG	MASTER BOX	CODE	L	S1	S2	Z
3/8"x12	10	150	RZ8341A38012000	63	25	25	45
1/2"x12	5	80	RZ8341A12012000	61	30	30	43
1/2"x15	5	60	RZ8341A12015000	66	30	30	44
1/2"x18	5	50	RZ8341A12018000	69	30	30	46
1/2"x22	5	30	RZ8341A12022000	83	30	30	59
3/4"x15	5	50	RZ8341A34015000	69	30	30	47
3/4"x18	5	50	RZ8341A34018000	72	30	30	49
3/4"x22	5	50	RZ8341A34022000	86	30	30	62
3/4"x28	5	50	RZ8341A34028000	81	30	30	56
1"x22	5	40	RZ8341B01022000	81	37	35	57
1"x28	5	20	RZ8341B01028000	83	46	45	58
1"1/4x35	1	20	RZ8341B14035000	88	52	50	62
1"1/2x42	1	10	RZ8341B12042000	98	64	60	62
2"x54	1	8	RZ8341C02054000	106	85	75	66



Art. RZ8359

Bronze valve connector with a swivel nut in brass. **PATENTED**

Verschraubung aus Rotguss mit Schwenk-Mutter und flachdichtend.

Raccord en bronze avec écrou en laiton F/filetage femelle.

Conexión de bronce H/rosca hembra con tuerca giratoria de latón.

Разъемное соединение из бронзы с латуной накидной гайкой В(Г)-В.



Gxd	BAG	MASTER BOX	CODE	L1	S	Z
3/8"x12	10	150	RZ8359A38012000	40	20	18
3/8"x14	10	100	RZ8359A38014000	43	20	21
1/2"x12	10	150	RZ8359A12012000	30	24	12
1/2"x14	10	100	RZ8359A12014000	31	24	9
1/2"x15	10	100	RZ8359A12015000	44	24	22
1/2"x16	10	100	RZ8359A12016000	44	24	22
3/4"x12	10	100	RZ8359A34012000	25	30	7
3/4"x14	10	150	RZ8359A34014000	29	30	7
3/4"x15	10	150	RZ8359A34015000	29	30	7
3/4"x16	10	100	RZ8359A34016000	32	30	10
3/4"x18	10	70	RZ8359A34018000	32	30	9
3/4"x22	10	80	RZ8359022A34000	46	30	22
1"x18	10	100	RZ8359018B01000	33	37	10
1"x22	10	100	RZ8359022B01000	38	37	14
1"1/4x28	5	50	RZ8359B14028000	34	46	9
1"1/2x28	5	30	RZ8359028B12000	34	52	9
2"x35	5	20	RZ8359035C02000	34	64	8
2"x42	5	20	RZ8359042C02000	48	64	12



1. Introduction

FRABOPRESS M, with Securfrabo security system, is the patented series of copper and bronze pressfittings available in the dimensional range between 12 and 108 mm and suitable for water installations. The fittings feature a **M-type pressing profile**. The black EPDM gasket is characterized by high chemical-physical performances to satisfy the requirements of hygiene and purity, typical of drinking water applications. The material of the gasket complies with EN 681-1 standard (water applications). Mixed connection fittings to other systems are made using bronze threaded parts with press ends. The threads comply with UNI EN 10226-1 standard.

1. Einführung

FRABOPRESS M mit Securfrabo ist ein Fittingsystem aus Kupfer und Bronze welches im Abmessungsbereich von 12 bis 108 mm erhältlich ist. Die Fittings sind für Trinkwasserleitungen gedacht und haben das sog. **M-Profil**. Die schwarze EPDM-Dichtung zeichnet sich durch chemisch-physikalische Eigenschaften aus, welche die Hygiene- und Ungiftigkeit Anforderungen der Anwendung im Trinkwasserbereich erfüllen. Das Material entspricht der EN 681-1 Norm. Die Gewindeanschlüsse sind gemäß der Norm UNI EN 10226-1 und werden aus Bronze hergestellt.

1. Présentation

FRABOPRESS M, avec système de sécurité Securfrabo, est une gamme brevetée composée par des raccords à sertir en cuivre et bronze disponible dans la gamme dimensionnelle entre 12 et 108 mm, adaptée aux installations d'eau. Les raccords ont un **profil** de sertissage de type **M**. Le joint torique en EPDM noir est caractérisé par des performances physico-chimiques capables de satisfaire les exigences d'hygiène et d'atotoxicité nécessaires pour les applications en contact avec l'eau potable. Le matériau dont il est composé est conforme à la norme EN 681-1 (application d'eau). Les extrémités filetées, conformes à la norme UNI EN 10226-1, sont réalisées avec des parties filetées en bronze avec terminassions à sertir.

1. Presentación

FRABOPRESS M, con sistema de seguridad Securfrabo, es una serie patentada constituida por racores para prensar de cobre y de bronce disponible en la gama dimensional desde 12 hasta 108 mm, aplicable en instalaciones de agua. Los racores tienen un **perfil** de tipo **M**. La junta de EPDM negro se caracteriza por prestaciones fisicoquímicas capaces de satisfacer las exigencias de higiene y de no toxicidad necesarias para aplicaciones en contacto con el agua potable. El material que la constituye cumple con la norma EN 681-1 (aplicación agua). Las terminaciones roscadas de conexión con otros sistemas, que cumplen con la norma UNI EN 10226-1, se realizan con piezas de bronce roscadas con extremidad para prensar.

1. Описание

FRABOPRESS M с системой безопасности Securfrabo - серия пресс фитингов из меди и бронзы для систем водоснабжения, представленная размерным рядом от 12 до 108 мм, применимая для систем водоснабжения. Пресс-фитинги имеют **M профиль**. Прокладка из EPDM черного цвета обладает химико-физическими свойствами, которые отвечают требованиям по гигиене и нормам токсичности оборудования, находящегося в контакте с питьевой водой. Материал, из которого она изготовлена, соответствует нормативу EN 681-1 (применение воды). Резьбовые соединения выполнены из бронзовых элементов с резьбой и соединительным патрубком под пресс. Резьба соответствует UNI EN 10226-1.

2. Advantages

- Safety: in fittings with dimensions between 12 and 54 mm, thanks to Securfrabo **security system**, it is possible to find immediately a leakage of an unpressed fitting during the pressure test.
- Easy and quick installation, typical of pressing technique.
- Corrosion resistance, hygiene and reliability.

2. Vorteile

- Sicherheit: Securfrabo-**Sicherheitssystem** welches versehentliche nicht gepresst Stellen bei der Druckprobe signalisiert (12-54 mm).
- Einfache und schnelle Installation.
- Korrosionsbeständigkeit, Hygiene und Zuverlässigkeit.

2. Avantages

- Sécurité: grâce au **système de sécurité** Securfrabo (pour les dimensions entre 12 et 54 mm), il est possible de détecter la fuite du fluide dans la phase de test de l'installation, si le raccord n'a pas été serti.
- Facilité et rapidité d'installation, typiques de la technique de jonction à sertir.
- Résistance à la corrosion, hygiène et fiabilité.

2. Ventajas

- Seguridad: por los diámetros desde 12 hasta 54 mm, el **sistema de seguridad** Securfrabo permite detectar una fuga de fluido durante la prueba de la instalación, si la conexión no se ha prensado.
- Facilidad y velocidad de instalación, típicas de las conexiones para prensar.
- Resistencia a la corrosión, higiene y fiabilidad.

2. Преимущества

- Безопасность: благодаря **системе безопасности** Securfrabo, у фитингов с размерами от 12 до 54 мм возможно обнаружение протечки в момент испытания системы, в случае, если фитинг не был опрессован.
- Простота и скорость монтажа, характерные для техники выполнения пресс-соединений.
- Устойчивость к коррозии, гигиеничность и надежность.

3. Applications

FRABOPRESS M is suitable for all water applications; besides, it is perfect for potable water of heating and cooling systems, big civil installations, compressed-air and firefighting systems.

3. Anwendungsbereiche

Die Pressfittings der FRABOPRESS M Serie sind für alle Wasseranwendungen geeignet. Sie sind ideal für die Herstellung von Heiz- und Kühlsystemen, Druckluft- und Brandschutzsystemen.

3. Champs d'emploi

La gamme FRABOPRESS M est adaptée à tout type d'application d'eau. De plus, elle est parfaite pour la réalisation des installations de chauffage ou de refroidissement, système d'air comprimé et de protection contre les incendies.

3. Aplicaciones

Los racores de la gama FRABOPRESS M son aptos para todas las aplicaciones agua. Son ideales para la realización de sistemas de calefacción y refrigeración, sistemas de aire comprimido y de protección contra incendios.

3. Области применения

Серия FRABOPRESS M может применяться во всех видах систем водораспределения; так же она идеально подходит для систем отопления и охлаждения, сжатого газа и противопожарных систем.



DRINKING
WATER



HEATING



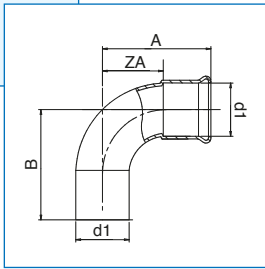
HVAC



COMPRESSED
AIR



FIREFIGHTING



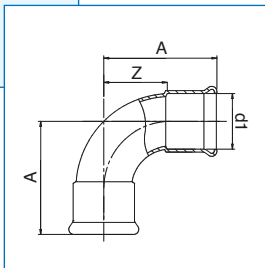
Art. **ZM9001**
RR9001

-  Copper M/F 90° elbow.
-  Bogen 90° I/A aus Kupfer.
-  Courbe 90° M/F en cuivre.
-  Curva 90° M/H de cobre.
-  Угол 90° из меди Н-В.

PATENTED



d1	BAG	MASTER BOX	CODE	A	B	ZA
12	10	300	ZM9001012012000	31	40	13
15	10	200	ZM9001015015000	36	42	16
18	10	150	ZM9001018018000	41	50	21
22	10	80	ZM9001022022000	46	53	23
28	5	40	ZM9001028028000	57	60	34
35	5	30	ZM9001035035000	62	75	36
42	1	10	ZM9001042042000	76	94	46
54	1	7	ZM9001054054000	94	110	59
66,7	1	6	RR9001067067000	135	145	80
76,1	1	6	RR9001076076000	146	157	91
88,9	1	5	RR9001089089000	167	178	107
108	1	1	RR9001108108000	200	212	130



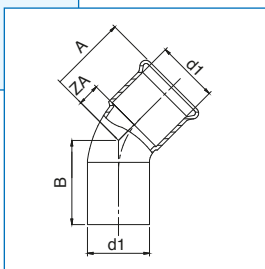
Art. **ZM9002**
RR9002

-  Copper F/F 90° elbow.
-  Bogen 90° I/I aus Kupfer.
-  Courbe 90° F/F en cuivre.
-  Curva 90° H/H de cobre.
-  Угол 90° из меди В-В.

PATENTED



d1	BAG	MASTER BOX	CODE	A	Z
12	10	250	ZM9002012012000	31	13
15	10	150	ZM9002015015000	36	19
18	10	100	ZM9002018018000	41	19
22	10	60	ZM9002022022000	46	21
28	5	40	ZM9002028028000	57	22
35	5	30	ZM9002035035000	62	25
42	1	10	ZM9002042042000	76	29
54	1	7	ZM9002054054000	94	34
66,7	1	6	RR9002067067000	125	80
76,1	1	6	RR9002076076000	146	91
88,9	1	5	RR9002089089000	167	107
108	1	2	RR9002108108000	200	130



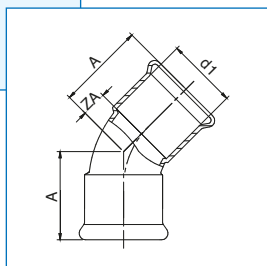
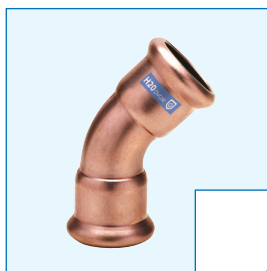
Art. **ZM9040**
RR9040

-  Copper M/F 45° elbow.
-  Bogen 45° I/A aus Kupfer.
-  Courbe 45° M/F en cuivre.
-  Curva 45° M/H de cobre.
-  Угол 45° из меди Н-В.

PATENTED



d1	BAG	MASTER BOX	CODE	A	B	ZA
12	10	250	ZM9040012012000	23	30	5
15	10	200	ZM9040015015000	28	37	8
18	10	150	ZM9040018018000	29	37	9
22	10	100	ZM9040022022000	34	42	11
28	5	60	ZM9040028028000	37	42	14
35	5	40	ZM9040035035000	44	46	18
42	5	20	ZM9040042042000	51	68	21
54	1	10	ZM9040054054000	62	72	27
66,7	1	10	RR9040067067000	78	88	33
76,1	1	10	RR9040076076000	93	104	38
88,9	1	5	RR9040089089000	104	115	44
108	1	3	RR9040108108000	124	136	68



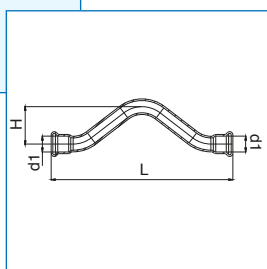
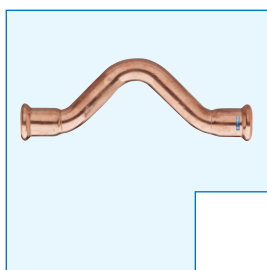
Art. ZM9041 RR9041

-  Copper F/F 45° elbow.
-  Bogen 45° I/I aus Kupfer.
-  Courbe 45° F/F en cuivre.
-  Curva 45° H/H de cobre.
-  Угол 45° из меди В-В.






PATENTED



d1	BAG	MASTER BOX	CODE	A	ZA
12	10	250	ZM9041012012000	23	5
15	10	200	ZM9041015015000	28	8
18	10	150	ZM9041018018000	29	9
22	10	80	ZM9041022022000	34	11
28	5	60	ZM9041028028000	37	14
35	5	40	ZM9041035035000	44	18
42	5	20	ZM9041042042000	51	21
54	1	10	ZM9041054054000	62	27
66,7	1	10	RR9041067067000	78	33
76,1	1	10	RR9041076076000	93	38
88,9	1	4	RR9041089089000	104	44
108	1	2	RR9041108108000	124	68



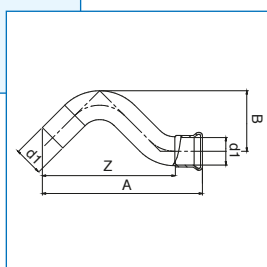
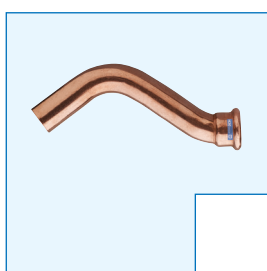
Art. ZM9085

-  Copper F/F full crossover.
-  Überbogen I/I aus Kupfer.
-  Chapeau de gendarme F/F en cuivre.
-  Desviación larga H/H de cobre.
-  Обвод из меди длинный В-В.






PATENTED



d1	BAG	MASTER BOX	CODE	H	L
12	10	100	ZM9085012012000	32	123
15	5	80	ZM9085015015000	35	140
18	10	50	ZM9085018018000	38	142
22	5	25	ZM9085022022000	47	172



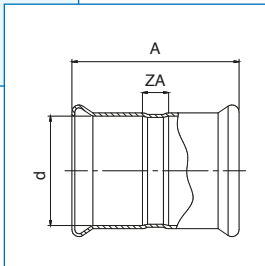
Art. ZM9086

-  Copper M/F partial crossover.
-  Überbogen I/A aus Kupfer.
-  Clarinette M/F en cuivre.
-  Desviación corta M/H de cobre.
-  Обвод из меди короткий Н-В.






PATENTED



d1	BAG	MASTER BOX	CODE	A	B	Z
12	10	200	ZM9086012012000	90	32	18
15	10	70	ZM9086015015000	112	35	20
18	10	70	ZM9086018018000	110	38	20
22	5	25	ZM9086022022000	135	47	23



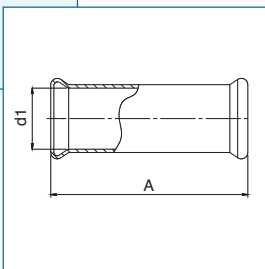
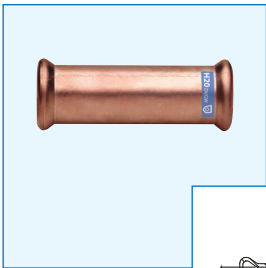
Art. **ZM9270**
RR9270

-  Copper F/F coupling.
-  Muffe I/I aus Kupfer.
-  Manchon avec flexion F/F en cuivre.
-  Manguito con remante H/H de cobre.
-  Муфта с упором медная В-В.






PATENTED



d	BAG	MASTER BOX	CODE	A	ZA
12	10	300	ZM9270012012000	40	4
15	10	200	ZM9270015015000	50	10
18	10	150	ZM9270018018000	45	5
22	10	100	ZM9270022022000	48	2
28	10	60	ZM9270028028000	50	4
35	5	40	ZM9270035035000	56	4
42	5	25	ZM9270042042000	75	15
54	1	15	ZM9270054054000	86	16
66,7	1	20	RR9270067067000	130	40
76,1	1	12	RR9270076076000	154	54
88,9	1	10	RR9270089089000	173	53
108	1	1	RR9270108108000	204	64



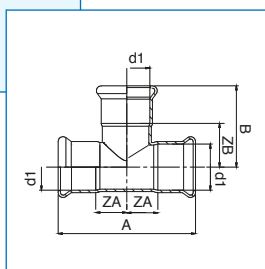
Art. **ZM9271**
RR9271

-  Copper F/F slip coupling.
-  Schiebemuffe I/I aus Kupfer.
-  Manchon coulissant F/F en cuivre.
-  Manguito de paso H/H de cobre.
-  Муфта проходная медная В-В.

PATENTED



d1	BAG	MASTER BOX	CODE	A
12	10	100	ZM9271012012000	58
15	10	100	ZM9271015015000	80
18	10	100	ZM9271018018000	80
22	5	60	ZM9271022022000	80
28	5	50	ZM9271028028000	84
35	5	30	ZM9271035035000	100
42	5	20	ZM9271042042000	116
54	1	10	ZM9271054054000	138
66,7	1	15	RR9271067067000	-
76,1	1	8	RR9271076076000	150
88,9	1	2	RR9271089089000	170
108	1	2	RR9271108108000	-



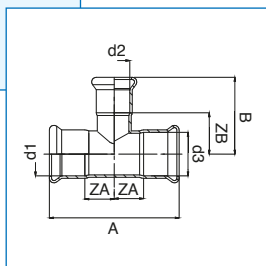
Art. **ZM9130**
RR9130

-  Copper F/F/F tee.
-  T-Stück I/I/I aus Kupfer.
-  Té F/F/F en cuivre.
-  T H/H/H de cobre.
-  Тройник из меди В-В-В.

PATENTED



d1	BAG	MASTER BOX	CODE	A	B	ZA	ZB
12	10	150	ZM9130012012012	56	28	10	10
15	10	100	ZM9130015015015	64	32	12	12
18	10	80	ZM9130018018018	68	34	14	14
22	5	40	ZM9130022022022	74	37	14	14
28	5	35	ZM9130028028028	84	42	19	19
35	5	20	ZM9130035035035	100	50	24	24
42	1	10	ZM9130042042042	116	58	28	28
54	1	10	ZM9130054054054	138	69	34	34
66,7	1	5	RR9130067067067	182	104	59	46
76,1	1	5	RR9130076076076	242	66	63	118
88,9	1	4	RR9130089089089	272	76	70	130
108	1	2	RR9130108108108	324	92	90	160



Art. ZM9131 RR9131

Copper F/F/F reducing tee.

T-Stück reduziert I/I/I aus Kupfer.

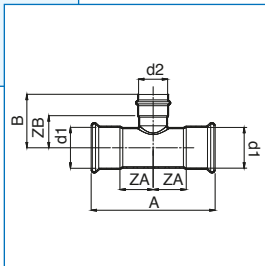
Té réduit F/F/F en cuivre.

T reducido H/H/H de cobre.

Тройник из меди у меньшенного размера B-B-B.



d1xd2xd3	BAG	MASTER BOX	CODE	A	B	ZA	ZB
12x15x12	10	100	ZM9131012015012	56	27	10	7
15x12x12	10	100	ZM9131015012012	51	25	6,5	7
15x12x15	10	100	ZM9131015012015	64	32	13	14
15x15x12	5	70	ZM9131015015012	68	32	15	12
15x18x15	5	80	ZM9131015018015	62	31	11	11
15x22x15	5	50	ZM9131015022015	74	34	17	11
18x12x15	5	50	ZM9131018012015	60	29	10	11
18x12x18	10	80	ZM9131018012018	68	35	15	17
18x15x15	10	80	ZM9131018015015	60	29	10	9
18x15x18	10	80	ZM9131018015018	68	35	14	15
18x18x15	10	80	ZM9131018018015	74	34	17	14
18x22x18	5	50	ZM9131018022018	74	34	17	11
22x12x22	5	60	ZM9131022012022	74	34	16,5	16
22x15x15	5	50	ZM9131022015015	83	38	20	18
22x15x18	5	50	ZM9131022015018	81	38	19	18
22x15x22	5	50	ZM9131022015022	74	38	15,5	18
22x18x15	5	50	ZM9131022018015	81	38	19	18
22x18x18	5	50	ZM9131022018018	81	38	19	18
22x18x22	5	50	ZM9131022018022	74	38	15,5	18
22x22x15	5	50	ZM9131022022015	84	37	20,5	14
22x22x18	5	50	ZM9131022022018	83	37	20	14
22x28x22	5	35	ZM9131022028022	78	38	16	15
28x15x22	5	40	ZM9131028015022	85	41	19,5	21
28x15x28	5	30	ZM9131028015028	84	41	20,5	21
28x18x22	5	40	ZM9131028018022	85	41	19,5	21
28x18x28	5	30	ZM9131028018028	84	41	19	18
28x22x22	5	30	ZM9131028022022	85	41	19,5	18
28x22x28	5	30	ZM9131028022028	84	41	22	24
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35x22x22	5	20	ZM9131035022022	92	45	21,5	22
35x22x28	5	25	ZM9131035022028	92	45	21,5	22
35x22x35	5	20	ZM9131035022035	90	45	25,5	21
35x28x28	5	20	ZM9131035028028	100	44	25,5	21
35x28x35	5	20	ZM9131035028035	100	44	25	28
35x35x22	5	20	ZM9131035035022	100	50	25,5	24
35x35x28	5	20	ZM9131035035028	100	50	25,5	24
42x15x42	1	15	ZM9131042015042	100	48	23,5	25
42x22x42	1	15	ZM9131042022042	100	48	29,5	26
42x28x42	1	10	ZM9131042028042	112	49	28	24
42x35x35	1	20	ZM9131042035035	112	49	28	24
42x35x42	1	10	ZM9131042035042	112	50	24	28
54x22x54	1	10	ZM9131054022054	120	54	31	31
54x28x54	1	10	ZM9131054028054	120	55	31	32
54x35x54	1	10	ZM9131054035054	122	55	30,5	29
54x42x54	1	10	ZM9131054042054	138	64	36,5	34
66,7x28x66,7	1	5	ZM9131067028067	182	76	46	53
66,7x35x66,7	1	5	ZM9131067035067	182	79	46	56
66,7x42x66,7	1	5	ZM9131067042067	182	82	46	52
66,7x54x66,7	1	5	ZM9131067054067	182	91	46	56
76,1x22x76,1	1	5	ZM9131076022076	148	62	48	41
76,1x28x76,1	1	4	ZM9131076028076	152	65	52	42
76,1x35x76,1	1	4	ZM9131076035076	160	67	60	41
76,1x42x76,1	1	4	ZM9131076042076	172	80	72	50
76,1x54x76,1	1	5	ZM9131076054076	218	85	118	50
88,9x76,1x88,9	1	2	RR9131089076089	272	126	76	68
108x54x108	1	2	ZM9131108054108	234	125	94	75
108x66,7x108	1	2	RR9131108067108	324	125	92	80
108x76,1x108	1	2	RR9131108076108	324	136	92	81
108x88,9x108	1	2	RR9131108089108	324	142	92	72

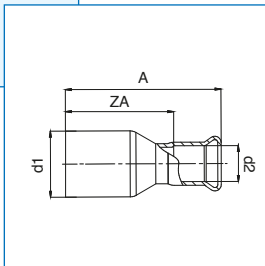
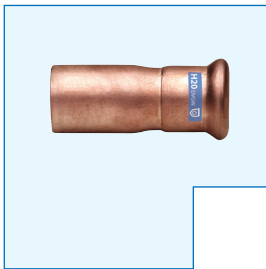


Art. RR9131

- Copper F/F/F reducing tee.
- T-Stück reduziert I/I/1 aus Kupfer.
- Té réduit F/F/F en cuivre.
- T reducido H/H/H de cobre.
- Тройник из меди у меньшего размера В-В-В.

d1xd2xd1	BAG	MASTER BOX	CODE	A	B	ZA	ZB
76,1x54*x76,1	1	5	RR9131076054076	242	93	76	68
88,9x54*x88,9	1	5	RR9131089054089	272	127	92	81
108x54*x108	1	2	RR9131108054108	324	133	92	72

* V profile - V-Profil.



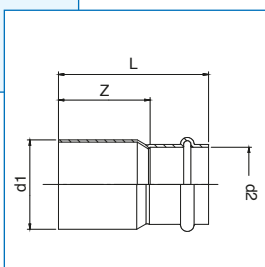
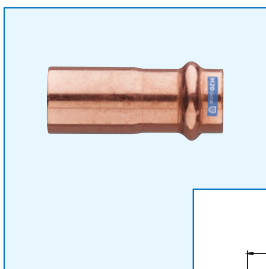
Art. ZM9243 RR9243

- Copper M/F reducer.
- Reduzierstück I/A aus Kupfer.
- Réduction M/F en cuivre.
- Reducción M/H de cobre.
- Муфта редукиционная медная H-B.

PATENTED

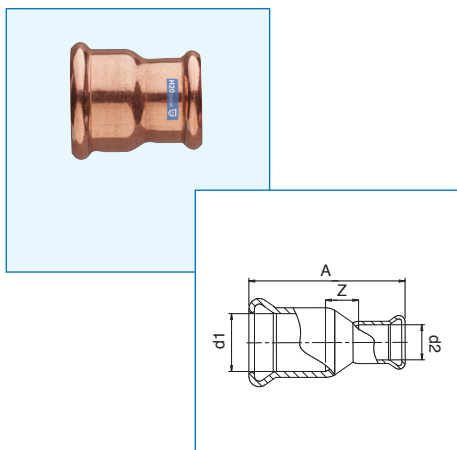


d1xd2	BAG	MASTER BOX	CODE	A	ZA
15x12	10	300	ZM9243015012000	45	24
18x12	10	300	ZM9243018012000	46	24
18x15	10	200	ZM9243018015000	51	24
22x15	10	150	ZM9243022015000	50	25
22x18	10	150	ZM9243022018000	50	25
28x15	10	100	ZM9243028015000	55	28
28x18	10	100	ZM9243028018000	54	28
28x22	10	100	ZM9243028022000	53	28
35x22	10	60	ZM9243035022000	60	31
35x28	10	50	ZM9243035028000	60	31
42x22	5	50	ZM9243042022000	67	35
42x28	5	40	ZM9243042028000	67	35
42x35	5	40	ZM9243042035000	66	35
54x28	5	20	ZM9243054028000	80	40
54x35	5	40	ZM9243054035000	79	40
54x42	5	20	ZM9243054042000	77	40
66,7x28	1	15	ZM9243067028000	-	-
66,7x35	1	16	ZM9243067035000	-	-
66,7x42	1	15	ZM9243067042000	-	-
66,7x54	1	15	ZM9243067054000	-	-
76,1x35	1	10	ZM9243076035000	96	46
76,1x42	1	10	ZM9243076042000	98	47
76,1x54	1	5	ZM9243076054000	107	53
76,1x66,7	1	10	RR9243076067000	-	-
88,9x76,1	1	15	RR9243089076000	176	121
108x42	1	8	ZM9243108042000	128	73
108x54	1	8	ZM9243108054000	129	74
108x66,7	1	5	RR9243108067000	-	-
108x76,1	1	5	RR9243108076000	255	190
108x88,9	1	5	RR9243108089000	246	176








d1xd2	BAG	MASTER BOX	CODE	L	Z
76,1x54*	1	5	RR9243076054000	146	106
88,9x54*	1	5	RR9243089054000	190	150
108x54*	1	5	RR9243108054000	253	213

* V profile - V-Profil.



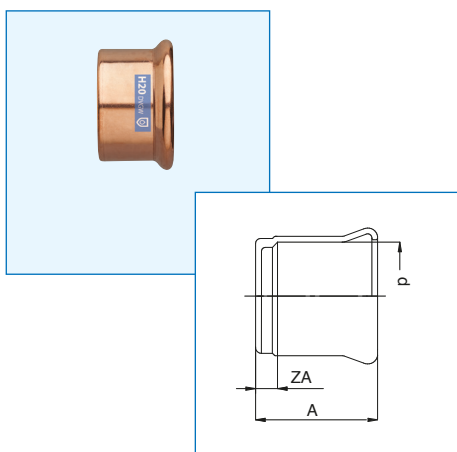
Art. ZM9240

-  Copper F/F reducing coupling.
-  Muffe reduziert I/I aus Kupfer.
-  Réduction F/F en cuivre.
-  Reducción H/H de cobre.
-  Муфта реду кционная медная В-В.






PATENTED



d1xd2	BAG	MASTER BOX	CODE	A	Z
15x12	10	300	ZM9240015012000	42	4
18x15	10	200	ZM9240018015000	45	5
22x15	10	150	ZM9240022015000	48	5
22x18	10	130	ZM9240022018000	49	6
28x15	10	100	ZM9240028015000	53	10
28x22	10	80	ZM9240028022000	51	5
35x28	5	50	ZM9240035028000	56	7
42x35	5	30	ZM9240042035000	63	7
54x42	5	20	ZM9240054042000	75	10



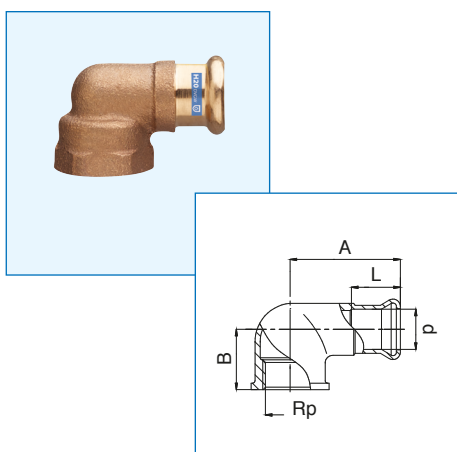
Art. ZM9301 RR9301

-  Copper F plug.
-  Verschlusskappe I aus Kupfer.
-  Bouchon F en cuivre.
-  Tapón H de cobre.
-  Заглушка медная В.






PATENTED



d	BAG	MASTER BOX	CODE	A	ZA
12	10	500	ZM9301012000000	20	2
15	10	400	ZM9301015000000	23	3
18	10	300	ZM9301018000000	23	3
22	10	200	ZM9301022000000	25	2
28	10	100	ZM9301028000000	27	4
35	5	70	ZM9301035000000	30	4
42	5	40	ZM9301042000000	34	4
54	5	30	ZM9301054000000	39	4
66,7	1	30	RR9301067000000	52	5
76,1	1	15	RR9301076000000	60	5
88,9	1	10	RR9301089000000	65	5
108	1	4	RR9301108000000	75	5



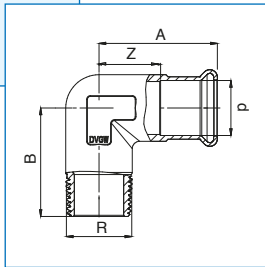
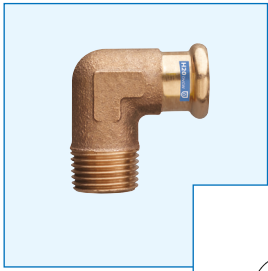
Art. ZM8090

-  Bronze F/female thread 90° elbow.
-  Winkel 90° I mit I Gewinde aus Rotguss.
-  Coude 90° F/filetage femelle en bronze.
-  Codo mixto 90° H/rosca hembra de bronce.
-  Угол 90° из бронзы В-В(Rp).






PATENTED



Rpxd	BAG	MASTER BOX	CODE	A	B	L
3/8"x12	10	150	ZM8090A38012000	33	18	15,5
3/8"x15	10	100	ZM8090A38015000	35	19	18,5
1/2"x12	10	150	ZM8090A12012000	40	22	15,5
1/2"x15	10	100	ZM8090A12015000	38	23	18,5
1/2"x18	10	100	ZM8090A12018000	38	23	18,5
1/2"x22	10	60	ZM8090A12022000	41	25	21,5
3/4"x15	10	70	ZM8090A34015000	41	24	18,5
3/4"x18	5	70	ZM8090A34018000	41	24	18,5
3/4"x22	5	60	ZM8090A34022000	44	29,5	21,5
1"x22	5	40	ZM8090B01022000	47	32	21,5
1"x28	5	40	ZM8090B01028000	52	32	22
1"1/4x35	1	20	ZM8090B14035000	60	40	24,5
1"1/2x42	1	20	ZM8090B12042000	66	41	28,5
2"x54	1	8	ZM8090C02054000	77	55	33,5



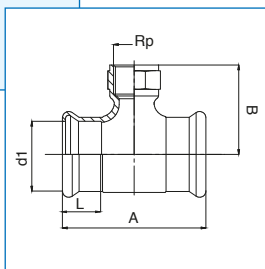
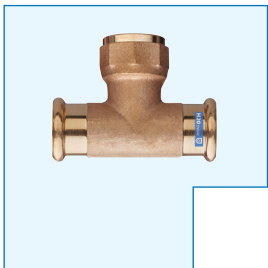
Art. ZM8092

-  Bronze F/male thread 90° elbow.
-  Winkel 90° I mit A Gewinde aus Rotguss.
-  Coude 90° F/filetage mâle en bronze.
-  Codo mixto 90° H/rosca macho de bronce.
-  Угол 90° из бронзы В-Н(R).






PATENTED



Rxd	BAG	MASTER BOX	CODE	A	B	Z
3/8"x12	10	150	ZM8092A38012000	30	28	14,5
3/8"x15	10	100	ZM8092A38015000	32	30	12,5
1/2"x12	10	150	ZM8092A12012000	37	35	21,5
1/2"x15	10	100	ZM8092A12015000	35	33	15,5
1/2"x18	10	80	ZM8092A12018000	38	48	18,5
3/4"x18	5	70	ZM8092A34018000	38	50	18,5
3/4"x22	10	50	ZM8092A34022000	42	42	19,5
1"x28	5	30	ZM8092B01028000	52	68	29,5
1"1/4x35	1	15	ZM8092B14035000	55	47	29,5
1"1/2x42	1	10	ZM8092B12042000	62	62	32,5
2"x54	1	7	ZM8092C02054000	72	65	37,5



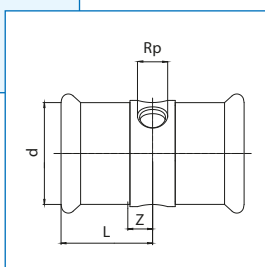
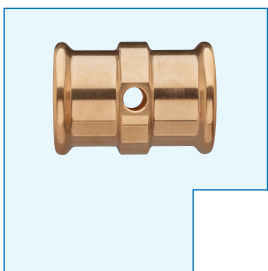
Art. ZM8130 RB8130

-  Bronze F/female thread/F tee.
-  T-Stück mit I Gewinde aus Rotguss.
-  Té F/filetage femelle/F en bronze.
-  T H/rosca hembra/H de bronce.
-  Тройник из бронзы В-В(Rp)-В.






PATENTED



Rpxd1	BAG	MASTER BOX	CODE	A	B	L
3/8"x15	10	80	ZM8130015A38015	43	22	19,5
1/2"x12	10	100	ZM8130012A12012	72	20,5	15,5
1/2"x15	10	80	ZM8130015A12015	65	21,5	19,5
1/2"x18	10	60	ZM8130018A12018	78	25	19,5
1/2"x22	5	50	ZM8130022A12022	77	25	22,5
1/2"x28	5	25	ZM8130028A12028	92	51	22,5
1/2"x35	5	20	ZM8130035A12035	84	40	22,5
1/2"x42	1	10	ZM8130042A12042	95	44,5	29,5
1/2"x54	1	10	ZM8130054A12054	103	53	34,5
1/2"x76,1	1	4	RB8130076A12076	154	56	45
3/4"x22	5	40	ZM8130022A34022	80	45	22,5
3/4"x28	5	20	ZM8130028A34028	92	52	22,5
3/4"x76,1	1	6	RB8130076A34076	154	60	45
3/4"x88,9	1	4	RB8130089A34089	173	67	46
3/4"x108	1	2	RB8130108A34108	204	76	70
1"x28	5	25	ZM8130028B01028	90	34	22,5
2"x76,1	1	5	RB8130076C02076	242	66	45
2"x88,9	1	4	RB8130089C02089	272	73	46
2"x108	1	2	RB8130108C02108	324	82	70

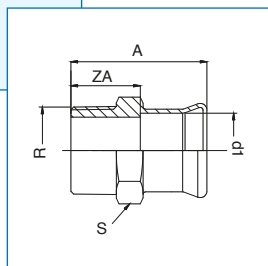
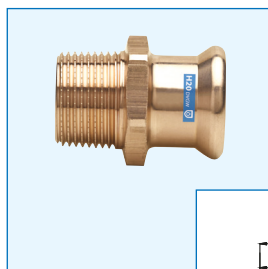


Art. RB8135

-  Bronze F/female thread/F multi-port.
-  T-Stück mit Gewindebohrung aus Rotguss.
-  Té multi-porte F/filetage femelle/F en bronze.
-  T multirosca H/rosca hembra/H de bronce.
-  Тройник из бронзы В-В(Rp)-В.

NEW

Rpxd	BAG	MASTER BOX	CODE	L	Z
1/2"x66,7	1	4	RB8135067A12067	65	15
1/2"x76,1	1	4	RB8135076A12076	65	14
3/4"x88,9	1	1	RB8135089A34089	80	18
3/4"x108	1	1	RB8135108A34108	85	18

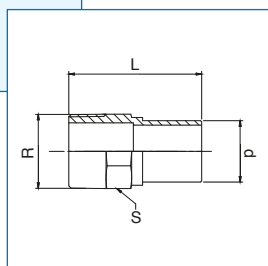
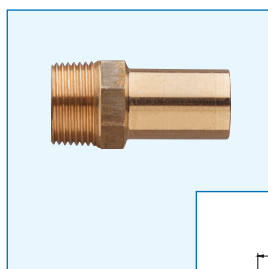


Art. ZM8243 RB8243

- Bronze F/male thread adapter.
- Übergangsstück I mit A Gewinde aus Rotguss.
- Manchon F/filetage mâle en bronze.
- Manguito mixto H/rosca macho de bronce.
- Муфта бронзовая В-Н(R).



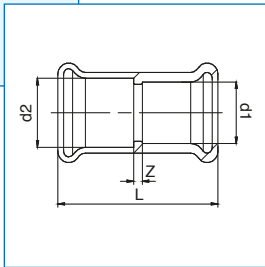
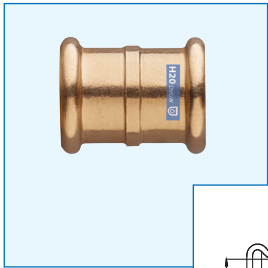
Rxd1	BAG	MASTER BOX	CODE	A	S	ZA
3/8"x12	10	250	ZM8243A38012000	32,5	18	14,5
3/8"x15	10	200	ZM8243A38015000	34	19	14
1/2"x12	10	200	ZM8243A12012000	35	19	17
1/2"x15	10	150	ZM8243A12015000	35,5	21	15,5
1/2"x18	10	150	ZM8243A12018000	36	24	16
1/2"x22	10	100	ZM8243A12022000	39,5	27	16,5
3/4"x15	10	100	ZM8243A34015000	37	24	17
3/4"x18	10	100	ZM8243A34018000	39	24	19
3/4"x22	10	100	ZM8243A34022000	41	27	18
3/4"x28	5	70	ZM8243A34028000	42	32	19
1"x22	5	50	ZM8243B01022000	43	27	20
1"x28	5	50	ZM8243B01028000	43,5	34	20,5
1"x35	5	30	ZM8243B01035000	49	40	23
1"1/4x28	5	50	ZM8243B14028000	49	34	26
1"1/4x35	5	40	ZM8243B14035000	52	42	26
1"1/4x42	5	20	ZM8243B14042000	58	48	28
1"1/2x35	5	25	ZM8243B12035000	53	46	27
1"1/2x42	5	25	ZM8243B12042000	58	48	28
1"1/2x54	1	15	ZM8243B12054000	59	60	24
2"x54	1	10	ZM8243C02054000	65,5	58	30,5
2"1/2x64	1	10	RB8243C12064000	93	76	45
2"1/2x66,7	1	8	RB8243C12067000	83	76	41
2"1/2x76,1	1	8	RB8243C12076000	98	86	46
3"x76,1	1	8	RB8243D03076000	101	90	48
3"x88,9	1	5	RB8243D03089000	109	98	51
4"x108	1	3	RB8243E04108000	132	122	59



Art. RS8244

- Bronze M/male thread adapter.
- Einsteckstück A mit A Gewinde aus Rotguss.
- Manchon M/filetage mâle en bronze.
- Manguito mixto M/rosca macho de bronce.
- Муфта бронзовая Н-Н(R).

Rxd	BAG	MASTER BOX	CODE	L	S
1/2"x12	10	200	RS8244A12012000	46	21
1/2"x15	10	200	RS8244A12015000	49	21
1/2"x18	10	150	RS8244A12018000	50	21
1/2"x22	10	100	RS8244A12022000	51	25
3/4"x18	10	100	RS8244A34018000	53	27
3/4"x22	10	100	RS8244A34022000	54	27
1"x28	5	50	RS8244B01028000	57	34
1"1/4x35	5	40	RS8244B14035000	64	42
1"1/2x42	5	25	RS8244B12042000	74	48
2"x54	1	10	RS8244C02054000	81	60



Art. ZM8245

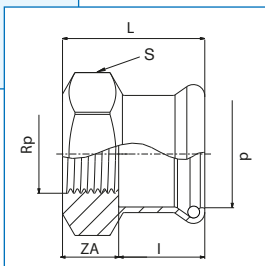
-  Bronze F/F adapter.
-  Passtück I/I aus Rotguss.
-  Adaptateur F/F en bronze.
-  Adaptador H/H de bronze.
-  Переходник из бронзы В-В.

PATENTED








d1xd2	BAG	MASTER BOX	CODE	L	Z
15x16*	10	150	ZM8245015016000	42,3	2,3

* Ø16 must be pressed with Ø18 jaws - Ø16 muss mit Ø18 Pressbacken gepresst werden.



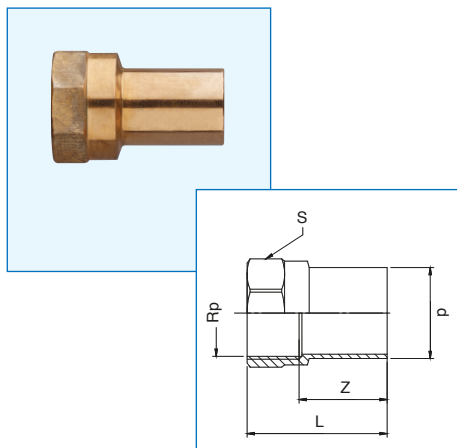
Art. ZM8270 RB8270

-  Bronze F/female thread adapter.
-  Übergangsstück I mit I Gewinde aus Rotguss.
-  Manchon F/filetage femelle en bronze.
-  Manguito mixto H/rosca hembra de bronze.
-  Муфта бронзовая В-В(Rp).






PATENTED



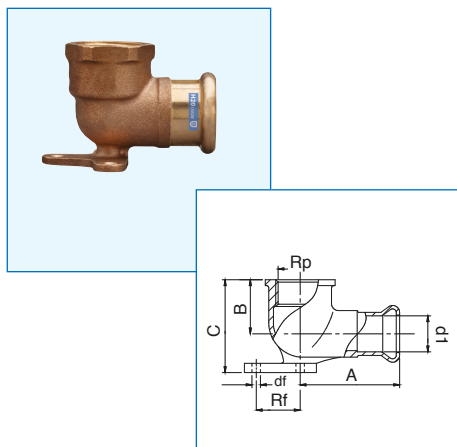
Rpxd	BAG	MASTER BOX	CODE	I	L	S	ZA
3/8"x12	10	250	ZM8270A38012000	19	30,5	20	11,5
3/8"x15	10	200	ZM8270A38015000	21	32,5	20	11,5
1/2"x12	10	200	ZM8270A12012000	19,5	34,5	24	15
1/2"x15	10	200	ZM8270A12015000	21,5	36,5	24	15
1/2"x18	10	150	ZM8270A12018000	21,5	36,5	24	15
1/2"x22	10	100	ZM8270A12022000	23	37	27	14
3/4"x15	10	150	ZM8270A34015000	22	38,5	31	16,5
3/4"x18	10	100	ZM8270A34018000	23	39,5	31	16,5
3/4"x22	10	100	ZM8270A34022000	24,5	41	31	16,5
3/4"x28	5	60	ZM8270A34028000	23	38,5	32	15,5
3/4"x35	5	50	ZM8270A34035000	27,5	44	40	16,5
1"x22	5	80	ZM8270B01022000	25	44	38	19
1"x28	5	50	ZM8270B01028000	25	44	38	19
1"x35	5	40	ZM8270B01035000	27	46	40	19
1"1/4x28	5	30	ZM8270B14028000	25,5	47	48	21,5
1"1/4x35	5	40	ZM8270B14035000	27	50	48	23
1"1/4x42	5	25	ZM8270B14042000	30	51	48	21
1"1/2x42	5	25	ZM8270B12042000	32	54	56	22
1"1/2x54	5	20	ZM8270B12054000	37	63	68	26
2"x54	1	15	ZM8270C02054000	37	63	68	26
2"1/2x76,1	1	8	RB8270C12076000	55	93	86	38
3"x88,9	1	5	RB8270D03089000	55	95	98	40








Art. RS8272

-  Bronze M/female thread adapter.
-  Einsteckstück A mit I Gewinde aus Rotguss.
-  Manchon M/filetage femelle en bronze.
-  Manguito mixto M/rosca hembra de bronce.
-  Муфта бронзовая Н-В(Rp).

Rpxd	BAG	MASTER BOX	CODE	L	S	Z
3/8"x12	10	200	RS8272A38012000	37	21	25
3/8"x15	10	200	RS8272A38015000	41	21	29
1/2"x12	10	200	RS8272A12012000	41	25	26
1/2"x15	10	200	RS8272A12015000	45	25	30
1/2"x18	10	150	RS8272A12018000	46	25	31
1/2"x22	10	100	RS8272A12022000	47	25	32
3/4"x18	10	100	RS8272A34018000	48	31	31
3/4"x22	10	80	RS8272A34022000	49	31	32
1"x28	5	40	RS8272B01028000	54	38	34
1"1/4x35	5	20	RS8272B14035000	57	48	35
1"1/2x42	5	20	RS8272B12042000	68	55	46
2"x54	1	10	RS8272C02054000	76	68	50

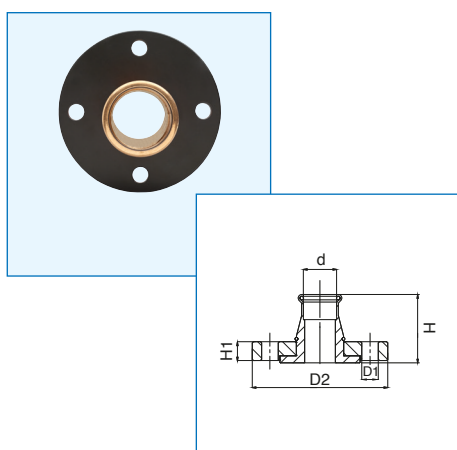


Art. ZM8471






-  Bronze F/female thread 90° elbow with wallplate. **PATENTED**
-  Wandscheibe 90° I mit I Gewinde aus Rotguss.
-  Applique coude 90° F/filetage femelle en bronze.
-  Codo mixto 90° H/rosca hembra con brida de bronce.
-  Угол бронзовый с фланцем В-В(Rp).



Rpxd1	BAG	MASTER BOX	CODE	A	B	C	df	Rf
1/2"x12	10	80	ZM8471A12012000	40	22	34	4,2	16
1/2"x15	10	80	ZM8471A12015000	40	24	34	4,2	16
1/2"x18	5	70	ZM8471A12018000	40	24	38	4,2	16
3/4"x22	5	40	ZM8471A34022000	48	26	46	4,2	18



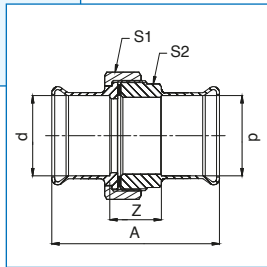
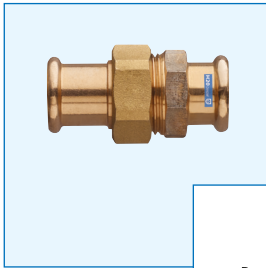
Art. ZM8273 RR9273

-  Bronze flanged joint. **PATENTED**
-  Flanschadapter aus Rotguss.
-  Joint avec bride en bronze.
-  Manguito bridado de bronce.
-  Муфта фланцевая из бронзы



d	DN	BAG	MASTER BOX	CODE	D1	D2	H	H1
28	25	1	10	ZM8273028000000	14	115	59	16
35	32	1	10	ZM8273035000000	18	140	63	18
42	40	1	5	ZM8273042000000	18	150	74	18
54	50	1	3	ZM8273054000000	18	165	80	20
66,7*	65	1	2	RR9273067000000	18	165	95	18
76,1*	65	1	2	RR9273076000000	18	185	105	18
76,1*	80	1	2	RR9273076080000	18	200	105	20
88,9*	80	1	2	RR9273089000000	18	200	110	20
108*	100	1	2	RR9273108000000	18	220	128	20

* Copper. No Securbrabo system - Kupfer. Ohne Securbrabo System.



Art. ZM8340

Bronze F/F flat seat joint.

PATENTED

Rohrverschraubung I/I aus Rotguss.

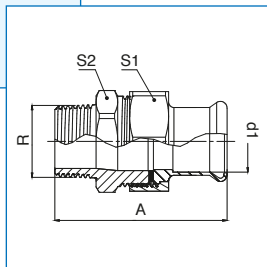
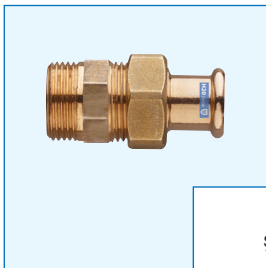
Union F/F en bronze.

Unión H/H de bronce.

Разъемное соединение из бронзы В-В.



d	BAG	MASTER BOX	CODE	A	S1	S2	Z
12	10	50	ZM8340012012000	60	30	19	-
15	10	100	ZM8340015015000	70	30	22	-
18	10	100	ZM8340018018000	95	30	30	55
22	5	40	ZM8340022022000	97	37	34	51
28	5	30	ZM8340028028000	91	46	45	45
35	5	20	ZM8340035035000	120	52	50	68
42	1	10	ZM8340042042000	134	64	60	74
54	1	8	ZM8340054054000	144	85	75	74



Art. ZM8341

Bronze F/male thread flat seat joint.

PATENTED

Rohrverschraubung I mit A Gewinde aus Rotguss.

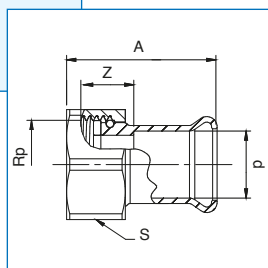
Union F/filetage mâle en bronze.

Unión H/rosca macho con junta plana de bronce.






Разъемное соединение из бронзы В-Н(R).



Rxd1	BAG	MASTER BOX	CODE	A	S1	S2
3/8"x12	10	150	ZM8341A38012000	65	24	25
1/2"x12	5	80	ZM8341A12012000	65	24	25
1/2"x15	5	60	ZM8341A12015000	70	24	27
1/2"x18	5	50	ZM8341A12018000	70	30	30
1/2"x22	5	30	ZM8341A12022000	78	30	30
3/4"x15	5	50	ZM8341A34015000	65	30	30
3/4"x18	5	50	ZM8341A34018000	75	30	30
3/4"x22	5	50	ZM8341A34022000	82	30	30
3/4"x28	5	50	ZM8341A34028000	86	37	34
1"x22	5	40	ZM8341B01022000	77	37	34
1"x28	5	20	ZM8341B01028000	77	46	45
1"1/4x35	1	20	ZM8341B14035000	85	52	50
1"1/2x42	1	10	ZM8341B12042000	95	64	60
2"x54	1	8	ZM8341C02054000	100	85	75

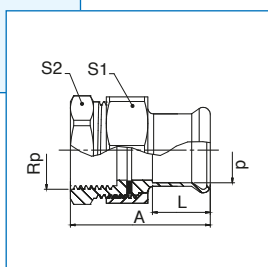


Art. ZM8359






-  Bronze valve connector with a swivel nut in brass. **PATENTED**
-  Verschraubung aus Rotguss mit Schwenk-Mutter und flachdichtend.
-  Raccord en bronze avec écrou en laiton F/filetage femelle.
-  Conexión de bronce H/rosca hembra con tuerca giratoria de latón.
-  Разъемное соединение из бронзы с латуной накладной гайкой B-B(Rp).



Rpxd	BAG	MASTER BOX	CODE	A	S	Z
3/8"x12	10	150	ZM8359A38012000	38	-	20
1/2"x12	10	150	ZM8359A12012000	28	24	10
1/2"x15	10	100	ZM8359A12015000	40	24	20
3/4"x12	10	100	ZM8359A34012000	22	30	6
3/4"x15	10	150	ZM8359A34015000	28	30	20
3/4"x18	10	70	ZM8359A34018000	32	30	20
3/4"x22	10	80	ZM8359022A34000	47	30	23
1"x15	10	100	ZM8359015B01000	28	37	7
1"x18	10	100	ZM8359018B01000	32	37	20
1"x22	10	100	ZM8359022B01000	34	37	23
1"x28	10	100	ZM8359028B01000	50	37	25
1"1/4x28	5	50	ZM8359B14028000	31	46	23
1"1/2x28	5	30	ZM8359028B12000	-	-	-
1"1/2x35	5	25	ZM8359035B12000	40	46	14
2"x35	5	20	ZM8359035C02000	34	64	8
2"x42	5	20	ZM8359042C02000	39	64	30



Art. ZM8345

-  Bronze F/female thread flat seat joint. **PATENTED**
-  Verschraubung mit I Gewinde aus Rotguss.
-  Union F/filetage femelle en bronze.
-  Unión H/rosca hembra de bronce.
-  Разъемное соединение из бронзы B-B(Rp).



Rpxd	BAG	MASTER BOX	CODE	A	L	S1	S2
1/2"x15	1	60	ZM8345A12015000	52	20	30	27
3/4"x22	5	50	ZM8345A34022000	62	23	37	34
1"x28	5	20	ZM8345B01028000	46	23	42	59
1"1/4x35	1	20	ZM8345B14035000	46	26	48	68
1"1/2x42	1	10	ZM8345B12042000	64	30	60	76
2"x54	1	8	ZM8345C02054000	85	35	70	81



1. Introduction

FRABOPRESS GAS V is the copper and bronze pressfitting series, available in the dimensional range between 12 and 54 mm, with yellow HNBR gasket. The fittings feature a **V-type pressing profile**.

The specific O-ring guarantees a total seal and it is compliant with EN 549 standard.

Mixed connection fittings to other systems are made using bronze threaded parts with press ends. The threads comply with UNI EN 10226-1 standard.

1. Einführung

FRABOPRESS GAS V ist ein Sortiment an Kupfer- und Bronze-PressfitTINGS im Abmessungsbereich von 12 bis 54 mm mit gelbem Dichtring in HNBR. **V-Profil**.

Der spezielle Dichtring sorgt für absolute Dichtheit und ist nach EN 549 zertifiziert.

Die Gewindeanschlüsse sind gemäß der Norm UNI EN 10226-1 und werden aus Bronze hergestellt.

1. Présentation

FRABOPRESS GAS V est la gamme de raccords à sertir en cuivre et bronze disponible dans la gamme dimensionnelle entre 12 et 54 mm, avec joint torique en HNBR. Les raccords ont un **profil** de sertissage de type **V**.

Le spécifique joint torique garantit une étanchéité totale et il est certifié selon la norme EN 549.

Les extrémités filetées, conformes à la norme UNI EN 10226-1, sont réalisées avec des parties filetées en bronze avec terminaisons à sertir.

1. Presentación

FRABOPRESS GAS V es la serie de racores para prensar de cobre y de bronce disponible en la gama dimensional desde 12 hasta 54 mm con junta tórica de HNBR. Los racores tienen un **perfil** de tipo **V**.

La junta específica garantiza una total estanqueidad y está certificada según la norma EN 549.

Las terminaciones roscadas de conexión con otros sistemas, que cumplen con la norma UNI EN 10226-1, se realizan con piezas de bronce roscadas con extremidad para prensar.

1. Описание

FRABOPRESS GAS V - серия пресс фитингов из меди и бронзы с размерным рядом от 12 до 54 мм, оснащенные прокладкой O-ring желтого цвета из HNBR. Пресс-фитинги имеют **V профиль**.

Особенностью кольцевой прокладки является обеспечение полной герметичности, сертифицирована в соответствии с нормативом EN 549. Резьбовые соединения выполнены из бронзовых элементов с резьбой и соединительным патрубком под пресс. Резьба соответствует UNI EN 10226-1.

2. Advantages

- Thanks to the yellow mark, present on each fitting, gas application suitability is immediately detected.
- Easy and quick installation, typical of pressing technique.

2. Vorteile

- Gelbe Markierung als eindeutige Kennzeichnung für die Anwendung im Gas Bereich.
- Einfache und schnelle Installation.

2. Avantages

- Application de gaz immédiatement identifiable grâce au marquage jaune présent sur chaque raccord.
- Facilité et rapidité d'installation, typiques de la technique de jonction à sertir.

2. Ventajas

- Aplicación gas inmediatamente reconocible gracias a la marca de color amarillo presente sobre cada rácor.
- Facilidad y velocidad de instalación, típicas de las conexiones para prensar.

2. Преимущества

- Наличие маркировки желтого цвета на каждом фитинге, которая указывает на пригодность для применения в системах газоснабжения.
- Простота и скорость монтажа, характерные для техники выполнения пресс-соединений.

3. Applications

FRABOPRESS GAS V range is suitable for gas applications such as domestic methane or LPG installations.

3. Anwendungsbereiche

Die FRABOPRESS GAS V Serie eignet sich für Gasanwendungen wie Haushaltsanlagen zur Verteilung von Methangas- oder LPG-Systemen.

3. Champs d'emploi

La gamme FRABOPRESS GAS V est adaptée aux applications gaz comme, par exemple, les installations domestiques de gaz méthane ou les systèmes de GPL.

3. Aplicaciones

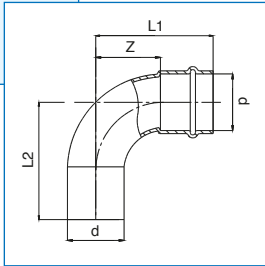
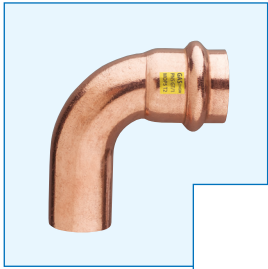
La gama FRABOPRESS GAS V es apta para aplicaciones de gas como, por ejemplo, instalaciones domésticas de distribución de gas metano o GPL.

3. Области применения

Фитинги серии FRABOPRESS GAS V могут применяться для систем газораспределения, таких как бытовые установки распределения природного газа или системы GPL (сжиженного нефтяного газа).



GAS



Art. PG9001

Copper M/F 90° elbow.

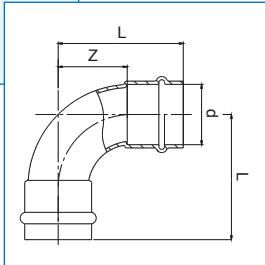
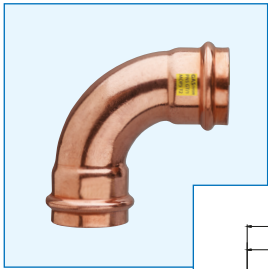
Bogen 90° I/A aus Kupfer.

Courbe 90° M/F en cuivre.

Curva 90° M/H de cobre.

Угол 90° из меди Н-В.

d	BAG	MASTER BOX	CODE	L1	L2	Z
12	10	300	PG9001012012000	33	34	15
15	10	200	PG9001015015000	40	42	18
18	10	150	PG9001018018000	45	47	22
22	10	80	PG9001022022000	51	52	27
28	5	40	PG9001028028000	59	61	34
35	5	30	PG9001035035000	68	70	42
42	1	10	PG9001042042000	87	88	51
54	1	7	PG9001054054000	105	107	65



Art. PG9002

Copper F/F 90° elbow.

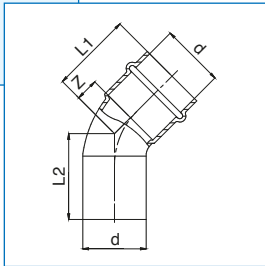
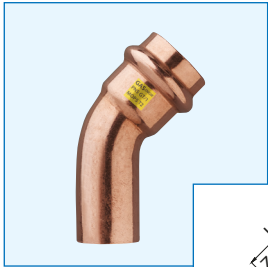
Bogen 90° I/I aus Kupfer.

Courbe 90° F/F en cuivre.

Curva 90° H/H de cobre.

Угол 90° из меди В-В.

d	BAG	MASTER BOX	CODE	L	Z
12	10	250	PG9002012012000	33	15
15	10	150	PG9002015015000	40	18
18	10	100	PG9002018018000	45	22
22	10	60	PG9002022022000	47	23
28	5	40	PG9002028028000	59	34
35	5	20	PG9002035035000	68	42
42	1	10	PG9002042042000	87	51
54	1	7	PG9002054054000	105	65



Art. PG9040

Copper M/F 45° elbow.

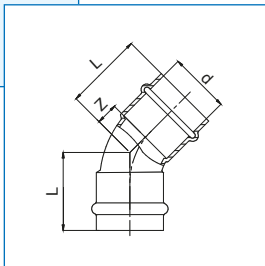
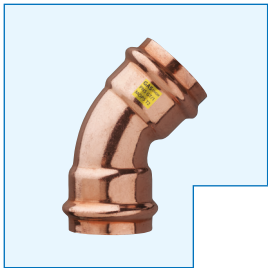
Bogen 45° I/A aus Kupfer.

Courbe 45° M/F en cuivre.

Curva 45° M/H de cobre.

Угол 45° из меди Н-В.

d	BAG	MASTER BOX	CODE	L1	L2	Z
12	10	250	PG9040012012000	25	26	7
15	10	200	PG9040015015000	29	30	7
18	10	150	PG9040018018000	31	32	8
22	10	100	PG9040022022000	34	36	10
28	5	60	PG9040028028000	38	40	13
35	5	40	PG9040035035000	43	45	17
42	5	20	PG9040042042000	53	55	17
54	1	10	PG9040054054000	68	70	28



Art. PG9041

Copper F/F 45° elbow.

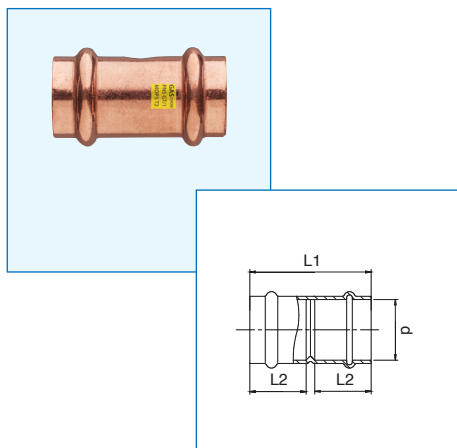
Bogen 45° I/I aus Kupfer.

Courbe 45° F/F en cuivre.

Curva 45° H/H de cobre.

Угол 45° из меди В-В.

d	BAG	MASTER BOX	CODE	L	Z
12	10	250	PG9041012012000	25	7
15	10	200	PG9041015015000	29	7
18	10	150	PG9041018018000	31	8
22	10	80	PG9041022022000	34	10
28	5	60	PG9041028028000	38	13
35	5	40	PG9041035035000	43	17
42	5	20	PG9041042042000	53	17
54	1	10	PG9041054054000	68	28



Art. PG9270

Copper F/F coupling.

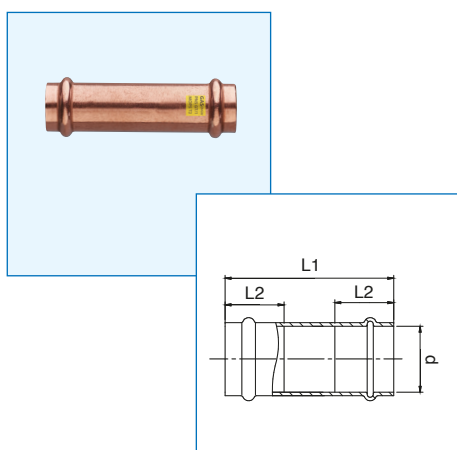
Muffe I/I aus Kupfer.

Manchon avec flexion F/F en cuivre.

Manguito con remante H/H de cobre.

Муфта с упором медная В-В.

d	BAG	MASTER BOX	CODE	L1	L2
12	10	300	PG9270012012000	40	18
15	10	200	PG9270015015000	49	22
18	10	150	PG9270018018000	52	23
22	10	100	PG9270022022000	53	24
28	10	60	PG9270028028000	57	25
35	5	40	PG9270035035000	62	26
42	5	25	PG9270042042000	78	35
54	1	15	PG9270054054000	93	40



Art. PG9271

Copper F/F slip coupling.

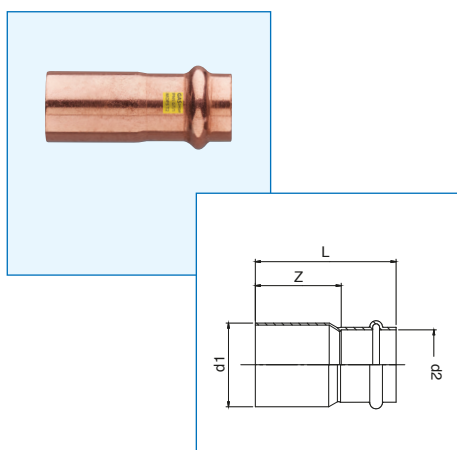
Schiebemuffe I/I aus Kupfer.

Manchon coulissant F/F en cuivre.

Manguito de paso H/H de cobre.

Муфта проходная медная В-В.

d	BAG	MASTER BOX	CODE	L1	L2
12	10	150	PG9271012012000	58	18
15	10	150	PG9271015015000	82	22
18	10	100	PG9271018018000	92	23
22	5	60	PG9271022022000	97	24
28	5	40	PG9271028028000	107	25
35	5	30	PG9271035035000	114	26
42	5	15	PG9271042042000	142	41
54	1	10	PG9271054054000	163	45



Art. PG9243

Copper M/F reducer.

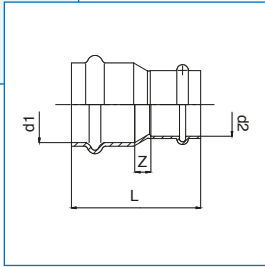
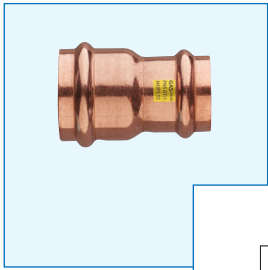
Reduzierstück I/A aus Kupfer.

Réduction M/F en cuivre.

Reducción M/H de cobre.

Муфта реду кционная медная Н-В.

d1xd2	BAG	MASTER BOX	CODE	L	Z
15x12	10	300	PG9243015012000	44	26
18x15	10	100	PG9243018015000	50	28
22x15	10	150	PG9243022015000	56	34
22x18	10	150	PG9243022018000	52	29
28x15	10	100	PG9243028015000	60	38
28x18	10	100	PG9243028018000	59	36
28x22	10	100	PG9243028022000	58	34
35x22	10	60	PG9243035022000	64	40
35x28	10	50	PG9243035028000	59	34
42x22	5	50	PG9243042022000	76	52
42x28	5	40	PG9243042028000	74	49
42x35	5	40	PG9243042035000	68	42
54x35	5	20	PG9243054035000	89	63
54x42	5	20	PG9243054042000	90	54



Art. PG9240

Copper F/F reducing coupling.

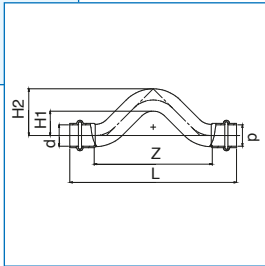
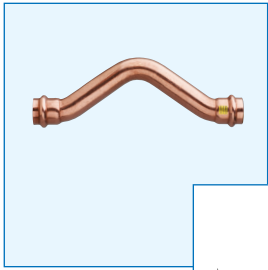
Muffe reduziert I/I aus Kupfer.

Réduction F/F en cuivre.

Reducción H/H de cobre.

Муфта редукиционная медная В-В.

d1xd2	BAG	MASTER BOX	CODE	L	Z
15x12	10	300	PG9240015012000	46	6
18x15	10	200	PG9240018015000	-	-
22x15	10	150	PG9240022015000	58	12
22x18	10	130	PG9240022018000	55	8
28x22	5	80	PG9240028022000	58	9
35x28	5	50	PG9240035028000	62	11



Art. PG9085

Copper F/F full crossover.

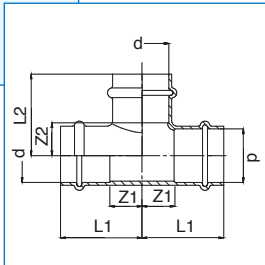
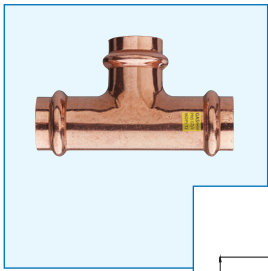
Überbogen I/I aus Kupfer.

Chapeau de gendarme F/F en cuivre.

Desviación larga H/H de cobre.

Обвод из меди длинный В-В.

d	BAG	MASTER BOX	CODE	L	Z	H1	H2
15	5	80	PG9085015015000	152	110	20	35
18	10	50	PG9085018018000	176	130	20	38
22	5	25	PG9085022022000	198	150	30	52



Art. PG9130

Copper F/F/F tee.

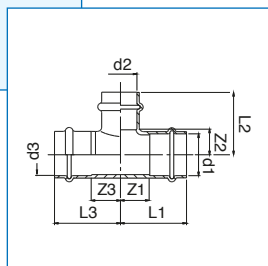
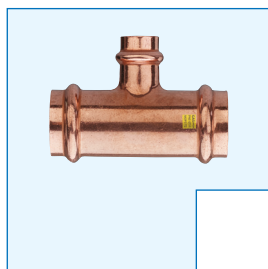
T-Stück I/I/I aus Kupfer.

Té F/F/F en cuivre.

T H/H/H de cobre.

Тройник из меди В-В-В.

d	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
12	10	150	PG9130012012012	29	29	11	11
15	10	100	PG9130015015015	41	33	19	11
18	5	50	PG9130018018018	42	35	19	12
22	5	40	PG9130022022022	45	39	21	15
28	5	35	PG9130028028028	48	46	23	21
35	5	20	PG9130035035035	53	48	27	22
42	1	10	PG9130042042042	65	65	29	29
54	1	10	PG9130054054054	75	75	35	35



Art. PG9131

Copper F/F/F reducing tee.

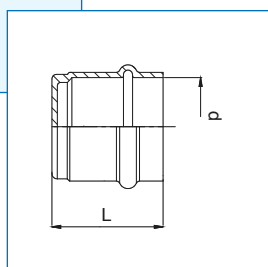
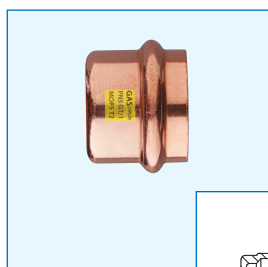
T-Stück reduziert I/I/I aus Kupfer.

Té réduit F/F/F en cuivre.

T reducido H/H/H de cobre.

Тройник из меди у меньшего размера В-В-В.

d1xd2xd3	BAG	MASTER BOX	CODE	L1	L2	L3	Z1	Z2	Z3
12x15x12	10	100	PG9131012015012	38	32	38	20	10	20
15x12x12	10	100	PG9131015012012	39	30	39	17	12	21
15x12x15	10	100	PG9131015012015	39	30	39	17	12	17
15x15x12	5	70	PG9131015015012	41	33	41	19	11	19
18x15x18	10	80	PG9131018015018	41	35	41	18	13	18
18x22x18	5	50	PG9131018022018	45	36	45	22	12	22
22x12x22	5	60	PG9131022012022	39	33	39	15	15	15
22x15x15	5	50	PG9131022015015	41	37	47	17	15	25
22x15x18	5	50	PG9131022015018	41	37	44	17	15	21
22x15x22	5	50	PG9131022015022	41	37	41	17	15	17
22x18x15	5	50	PG9131022018015	42	37	50	18	14	28
22x18x22	5	50	PG9131022018022	42	37	42	18	14	18
22x22x15	5	40	PG9131022022015	45	38	51	21	14	29
22x22x18	5	50	PG9131022022018	45	38	51	21	14	28
22x28x22	5	35	PG9131022028022	48	39	48	24	14	24
28x15x28	5	30	PG9131028015028	41	41	41	16	19	16
28x18x28	5	30	PG9131028018028	42	41	42	17	18	17
28x22x22	5	35	PG9131028022022	45	42	50	20	18	26
28x22x28	5	30	PG9131028022028	45	42	45	20	18	20
28x28x22	5	30	PG9131028028022	48	43	53	23	18	29
35x22x35	5	20	PG9131035022035	46	45	46	20	21	20
35x28x35	5	20	PG9131035028035	49	46	49	23	21	23
42x28x42	1	10	PG9131042028042	55	53	55	19	28	19
42x35x42	1	10	PG9131042035042	58	55	58	22	29	22
54x42x54	1	8	PG9131054042054	69	71	69	29	35	29



Art. PG9301

Copper F plug.

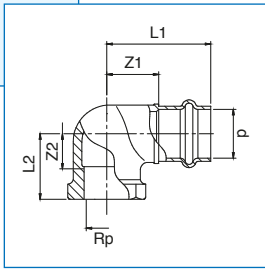
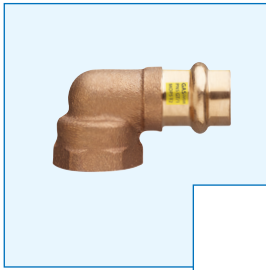
Verschlusskappe I aus Kupfer.

Bouchon F en cuivre.






Tapón H de cobre.

Заглушка медная В.

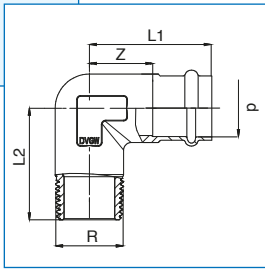
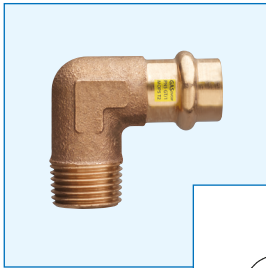
d	BAG	MASTER BOX	CODE	L
15	10	400	PG9301015000000	25
18	10	300	PG9301018000000	26
22	10	200	PG9301022000000	27
28	10	150	PG9301028000000	28
35	5	70	PG9301035000000	30
42	5	40	PG9301042000000	40
54	5	30	PG9301054000000	45








Art. PG8090

-  Bronze F/female thread 90° elbow.
-  Winkel 90° I mit I Gewinde aus Rotguss.
-  Coude 90° F/filetage femelle en bronze.
-  Codo mixto 90° H/rosca hembra de bronce.
-  Угол 90° из бронзы В-В(Rp).

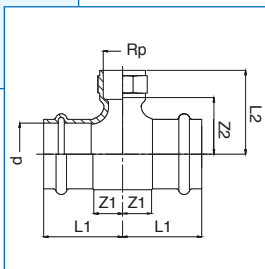
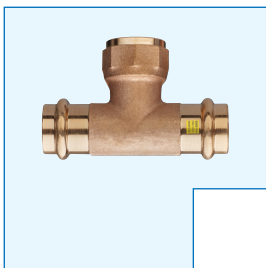
Rpxd	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
3/8"x12	10	150	PG8090A38012000	44	18	26	9
3/8"x15	10	100	PG8090A38015000	47	19	25	10
1/2"x12	10	150	PG8090A12012000	44	22	26	11
1/2"x15	10	100	PG8090A12015000	45	24	23	13
1/2"x18	10	100	PG8090A12018000	47	24	24	13
1/2"x22	10	60	PG8090A12022000	49	24	25	13
3/4"x15	10	70	PG8090A34015000	49	31	27	16
3/4"x18	5	70	PG8090A34018000	50	24	27	9
3/4"x22	5	60	PG8090A34022000	49	29	25	6
1"x22	5	40	PG8090B01022000	60	33	36	10
1"x28	5	40	PG8090B01028000	61	33	36	9
1"1/4x35	5	20	PG8090B14035000	67	40	41	22
1"1/2x42	5	20	PG8090B12042000	77	43	41	25
2"x54	1	8	PG8090C02054000	97	57	57	39








Art. PG8092

-  Bronze F/male thread 90° elbow.
-  Winkel 90° I mit A Gewinde aus Rotguss.
-  Coude 90° F/filetage mâle en bronze.
-  Codo mixto 90° H/rosca macho de bronce.
-  Угол 90° из бронзы В-Н(R).

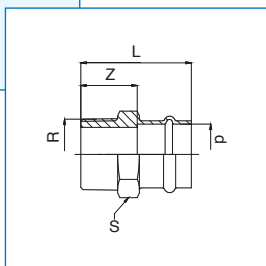
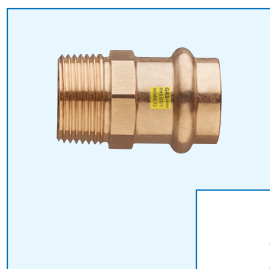
Rxd	BAG	MASTER BOX	CODE	L1	L2	Z
3/8"x15	10	100	PG8092A38015000	42	32	20
1/2"x12	10	150	PG8092A12012000	43	34	25
1/2"x15	10	100	PG8092A12015000	44	34	22
1/2"x18	10	80	PG8092A12018000	47	49	24
3/4"x18	5	70	PG8092A34018000	49	50	26
3/4"x22	10	50	PG8092A34022000	55	39	31
1"x28	5	30	PG8092B01028000	59	73	34
1"1/4x35	1	15	PG8092B14035000	70	86	44
1"1/2x42	1	10	PG8092B12042000	87	95	51
2"x54	1	7	PG8092C02054000	110	118	66



Art. PG8130

-  Bronze F/female thread/F tee.
-  T-Stück mit I Gewinde aus Rotguss.
-  Té F/filetage femelle/F en bronze.
-  T H/rosca hembra/H de bronce.
-  Тройник из бронзы В-В(Rp)-В.

Rpxd	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
3/8"x15	10	80	PG8130015A38015	43	22	21	12
1/2"x12	10	100	PG8130012A12012	44	23	26	13
1/2"x15	10	80	PG8130015A12015	45	23	23	13
1/2"x18	10	60	PG8130018A12018	47	24	24	14
1/2"x22	5	50	PG8130022A12022	48	25	24	15
1/2"x28	5	25	PG8130028A12028	53	50	28	35
1/2"x35	5	20	PG8130035A12035	49	38	23	23
1/2"x42	1	10	PG8130042A12042	55	50	19	35
1/2"x54	1	5	PG8130054A12054	67	54	27	39
3/4"x22	5	40	PG8130022A34022	53	31	29	16
3/4"x28	5	20	PG8130028A34028	53	50	27	35
1"x28	5	25	PG8130028B01028	56	35	30	20



Art. PG8243

Bronze F/male thread adapter.

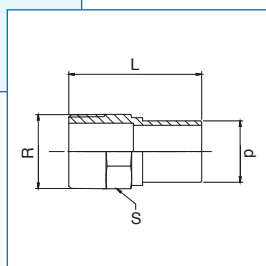
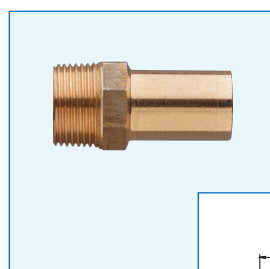
Übergangsstück I mit A Gewinde aus Rotguss.

Manchon F/filetage mâle en bronze.

Manguito mixto H/rosca macho de bronce.

Муфта бронзовая В-Н(R).

Rxd	BAG	MASTER BOX	CODE	L	S	Z
3/8"x12	10	250	PG8243A38012000	40	21	22
3/8"x15	10	200	PG8243A38015000	44	25	22
1/2"x12	10	200	PG8243A12012000	43	21	25
1/2"x15	10	150	PG8243A12015000	46	25	24
1/2"x18	10	150	PG8243A12018000	48	27	25
1/2"x22	10	100	PG8243A12022000	49	32	25
3/4"x15	10	150	PG8243A34015000	48	28	26
3/4"x18	10	100	PG8243A34018000	49	28	26
3/4"x22	10	100	PG8243A34022000	51	32	27
3/4"x28	5	50	PG8243A34028000	52	38	27
1"x22	5	70	PG8243B01022000	52	34	28
1"x28	5	50	PG8243B01028000	54	38	29
1"x35	5	30	PG8243B01035000	58	46	32
1"1/4x28	5	50	PG8243B14028000	58	42	33
1"1/4x35	5	40	PG8243B14035000	60	46	34
1"1/4x42	5	20	PG8243B14042000	75	56	39
1"1/2x35	5	25	PG8243B12035000	60	48	34
1"1/2x42	5	25	PG8243B12042000	75	56	39
1"1/2x54	1	15	PG8243B12054000	81	68	41
2"x54	1	10	PG8243C02054000	86	68	46



Art. RS8244

Bronze M/male thread adapter.

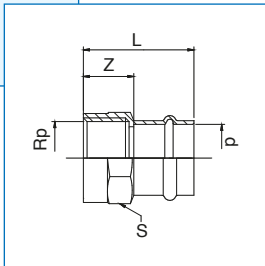
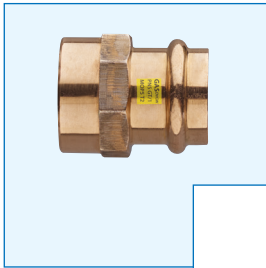
Einsteckstück A mit A Gewinde aus Rotguss.

Manchon M/filetage mâle en bronze.






Manguito mixto M/rosca macho de bronce.

Муфта бронзовая Н-Н(R).

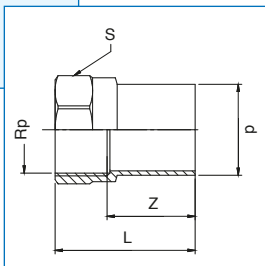
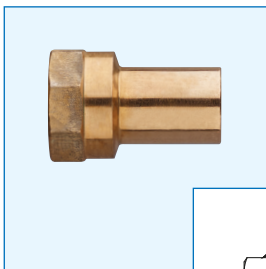
Rxd	BAG	MASTER BOX	CODE	L	S
1/2"x12	10	200	RS8244A12012000	46	21
1/2"x15	10	200	RS8244A12015000	49	21
1/2"x18	10	150	RS8244A12018000	50	21
1/2"x22	10	100	RS8244A12022000	51	25
3/4"x18	10	100	RS8244A34018000	53	27
3/4"x22	10	100	RS8244A34022000	54	27
1"x28	5	50	RS8244B01028000	57	34
1"1/4x35	5	40	RS8244B14035000	64	42
1"1/2x42	5	25	RS8244B12042000	74	48
2"x54	1	10	RS8244C02054000	81	60








Art. PG8270

-  Bronze F/female thread adapter.
-  Übergangsstück I mit I Gewinde aus Rotguss.
-  Manchon F/filetage femelle en bronze.
-  Manguito mixto H/rosca hembra de bronce.
-  Муфта бронзовая В-В(Rp).

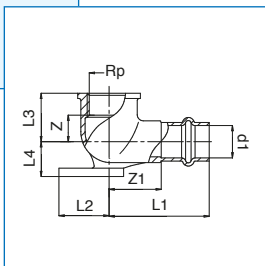
Rpxd	BAG	MASTER BOX	CODE	L	S	Z
3/8"x12	10	250	PG8270A38012000	35	25	5
3/8"x15	10	200	PG8270A38015000	36	25	2
1/2"x12	10	200	PG8270A12012000	36	25	3
1/2"x15	10	150	PG8270A12015000	40	25	3
1/2"x18	10	150	PG8270A12018000	41	27	3
1/2"x22	10	100	PG8270A12022000	41	32	2
3/4"x15	10	200	PG8270A34015000	41	32	2
3/4"x18	10	100	PG8270A34018000	44	31	4
3/4"x22	10	100	PG8270A34022000	46	32	5
3/4"x28	5	60	PG8270A34028000	48	38	8
1"x22	5	80	PG8270B01022000	47	38	4
1"x28	5	50	PG8270B01028000	48	38	4
1"x35	5	40	PG8270B01035000	47	46	2
1"1/4x35	5	40	PG8270B14035000	52	48	4
1"1/2x42	5	25	PG8270B12042000	65	56	7
2"x54	1	15	PG8270C02054000	80	68	16








Art. RS8272

-  Bronze M/female thread adapter.
-  Einsteckstück A mit I Gewinde aus Rotguss.
-  Manchon M/filetage femelle en bronze.
-  Manguito mixto M/rosca hembra de bronce.
-  Муфта бронзовая Н-В(Rp).

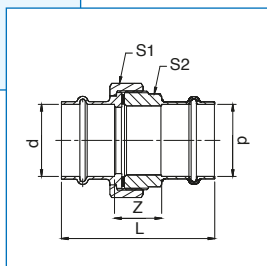
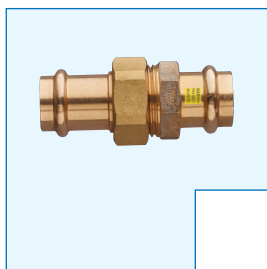
Rpxd	BAG	MASTER BOX	CODE	L	S	Z
3/8"x12	10	200	RS8272A38012000	37	21	25
3/8"x15	10	200	RS8272A38015000	41	21	29
1/2"x12	10	200	RS8272A12012000	41	25	26
1/2"x15	10	200	RS8272A12015000	45	25	30
1/2"x18	10	150	RS8272A12018000	46	25	31
1/2"x22	10	100	RS8272A12022000	47	25	32
3/4"x18	10	100	RS8272A34018000	48	31	31
3/4"x22	10	80	RS8272A34022000	49	31	32
1"x28	5	40	RS8272B01028000	54	38	34
1"1/4x35	5	20	RS8272B14035000	57	48	35
1"1/2x42	5	20	RS8272B12042000	68	55	46
2"x54	1	10	RS8272C02054000	76	68	50



Art. PG8471

-  Bronze F/female thread 90° elbow with wallplate.
-  Wandscheibe 90° I mit I Gewinde aus Rotguss.
-  Applique coude 90° F/filetage femelle en bronze.
-  Codo mixto 90° H/rosca hembra con brida de bronce.
-  Угол бронзовый с фланцем В-В(Rp).

Rpxd1	BAG	MASTER BOX	CODE	L1	L2	L3	L4	Z	Z1
1/2"x12	10	80	PG8471A12012000	43	22	22	12	10	24
1/2"x15	10	80	PG8471A12015000	44	22	22	12	10	22
1/2"x18	5	70	PG8471A12018000	45	22	24	12	12	22
3/4"x22	5	40	PG8471A34022000	49	28	29	20	14	25



Art. PG8340

Bronze F/F flat seat joint.

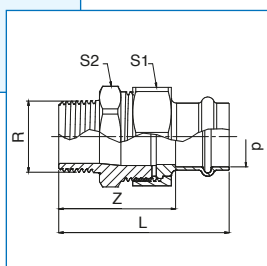
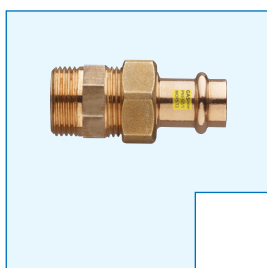
Rohrverschraubung I/I aus Rotguss.

Union F/F en bronze.

Unión H/H de bronce.

Разъемное соединение из бронзы В-В.

d	BAG	MASTER BOX	CODE	L	S1	S2	Z
15	10	100	PG8340015015000	73	24	25	29
18	10	100	PG8340018018000	78	30	31	32
22	5	40	PG8340022022000	86	37	34	38
28	5	30	PG8340028028000	86	46	42	36
35	5	20	PG8340035035000	93	52	50	41
42	1	10	PG8340042042000	118	64	60	46
54	1	8	PG8340054054000	115	85	75	35



Art. PG8341

Bronze F/male thread flat seat joint.

Rohrverschraubung I mit A Gewinde aus Rotguss.

Union F/filetage mâle en bronze.

Unión H/rosca macho con junta plana de bronce.

Разъемное соединение из бронзы В-Н(Р).

Rxd	BAG	MASTER BOX	CODE	L	S1	S2	Z
1/2"x12	5	50	PG8341A12012000	61	30	30	43
1/2"x15	5	50	PG8341A12015000	66	30	30	44
1/2"x18	5	50	PG8341A12018000	69	30	30	46
3/4"x15	5	50	PG8341A34015000	69	30	30	47
3/4"x18	5	50	PG8341A34018000	72	30	30	49
3/4"x22	5	50	PG8341A34022000	86	30	30	62
1"x22	5	30	PG8341B01022000	81	37	35	57
1"x28	5	30	PG8341B01028000	83	46	45	58
1"1/4x35	1	20	PG8341B14035000	88	52	50	62
1"1/2x42	1	10	PG8341B12042000	98	64	60	62
2"x54	1	8	PG8341C02054000	106	85	75	66



1. Introduction

FRABOPRESS GAS M is the copper and bronze pressfitting series, available in the dimensional range between 12 and 54 mm, with yellow HNBR gasket, which guarantees a total seal and it complies with EN 549 standard. The fittings feature a **M-type pressing profile**. Mixed connection fittings to other systems are made using bronze threaded parts with press ends. The threads comply with UNI EN 10226-1 standard.

1. Einführung

FRABOPRESS GAS M ist ein Sortiment an Kupfer- und Bronzepressfittings im Abmessungsbereich von 12 bis 54 mm mit gelbem Dichtring in HNBR. **M-Profil**.

Der spezielle Dichtring sorgt für absolute Dichtheit und ist nach EN 549 zertifiziert.

Die Gewindeanschlüsse sind gemäß der Norm UNI EN 10226-1 und werden aus Bronze hergestellt.

1. Présentation

FRABOPRESS GAS M est le système de raccords à sertir en cuivre et bronze disponible dans la gamme dimensionnelle entre 12 et 54 mm, avec joint torique en HNBR qui garantit une étanchéité totale et il est certifié selon la norme EN 549. Les raccords ont un **profil** de sertissage de type **M**. Les extrémités filetées, conformes à la norme UNI EN 10226-1, sont réalisées avec des parties filetées en bronze avec terminaisons à sertir.

1. Presentación

FRABOPRESS GAS M es la serie de racores para prensar de cobre y de bronce disponible en la gama dimensional desde 12 hasta 54 mm con junta tórica de HNBR que garantiza una total estanqueidad y está certificada según la norma EN 549. Los racores tienen un **perfil** de tipo **M**. Las terminaciones roscadas de conexión con otros sistemas, que cumplen con la norma UNI EN 10226-1, se realizan con piezas de bronce roscadas con extremidad para prensar.

1. Описание

FRABOPRESS GAS M - серия пресс фитингов из меди и бронзы с размерным рядом от 12 до 54 мм, оснащенные прокладкой O-ring желтого цвета из HNBR, которая обеспечивает полную герметичность и сертифицирована в соответствии с нормативом EN 549. Пресс-фитинги имеют **M профиль**. Резьбовые соединения выполнены из бронзовых элементов с резьбой и соединительным патрубком под пресс. Резьба соответствует UNI EN 10226-1.

2. Advantages

- Thanks to the yellow mark, present on each fitting, gas application suitability is immediately detected.
- Easy and quick installation, typical of pressing technique.

2. Vorteile

- Gelbe Markierung als eindeutige Kennzeichnung für die Anwendung im Gas Bereich.
- Einfache und schnelle Installation.

2. Avantages

- Application de gaz immédiatement identifiable grâce au marquage jaune présent sur chaque raccord.
- Facilité et rapidité d'installation, typiques de la technique de jonction à sertir.

2. Ventajas

- Aplicación gas inmediatamente reconocible gracias a la marca de color amarillo presente sobre cada rācor.
- Facilidad y velocidad de instalación, típicas de las conexiones para prensar.

2. Преимущества

- Наличие маркировки желтого цвета на каждом фитинге, которая указывает на пригодность для применения в системах газораспределения.
- Простота и скорость монтажа, характерные для техники выполнения пресс-соединений.

3. Applications

FRABOPRESS GAS M range is suitable for gas applications such as domestic supply and distribution methane or LPG installations.

3. Anwendungsbereiche

Die FRABOPRESS GAS M Serie eignet sich für Gasanwendungen wie Haushaltsanlagen zur Verteilung von Methangas- oder Flüssiggassystemen.

3. Champs d'emploi

La gamme FRABOPRESS GAS M est adaptée aux applications gaz comme, par exemple, les installations domestiques de gaz méthane ou les systèmes de GPL.

3. Aplicaciones

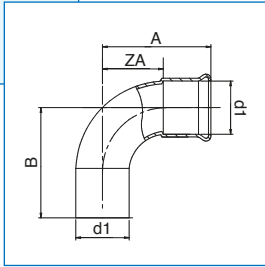
La gama FRABOPRESS GAS M es apta para aplicaciones de gas como, por ejemplo, instalaciones domésticas de distribución de gas metano o GPL.

3. Области применения






Фитинги серии FRABOPRESS GAS M могут применяться в различных системах газораспределения, таких как бытовые установки распределения природного газа или системы GPL (сжиженного нефтяного газа).



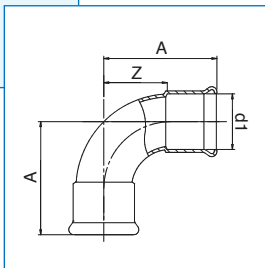
GAS



Art. QM9001

-  Copper M/F 90° elbow.
-  Bogen 90° I/A aus Kupfer.
-  Courbe 90° M/F en cuivre.
-  Curva 90° M/H de cobre.
-  Угол 90° из меди Н-В.

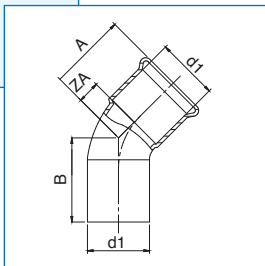
d1	BAG	MASTER BOX	CODE	A	B	ZA
12	10	300	QM9001012012000	31	40	13
15	10	200	QM9001015015000	36	42	16
18	10	150	QM9001018018000	41	50	21
22	10	80	QM9001022022000	46	53	23
28	5	40	QM9001028028000	57	60	34
35	5	30	QM9001035035000	62	75	36
42	1	10	QM9001042042000	76	94	46
54	1	7	QM9001054054000	94	110	59



Art. QM9002

-  Copper F/F 90° elbow.
-  Bogen 90° I/I aus Kupfer.
-  Courbe 90° F/F en cuivre.
-  Curva 90° H/H de cobre.
-  Угол 90° из меди В-В.

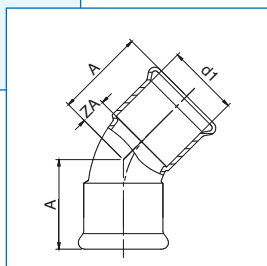
d1	BAG	MASTER BOX	CODE	A	Z
12	10	250	QM9002012012000	31	13
15	10	150	QM9002015015000	36	16
18	10	100	QM9002018018000	41	21
22	10	60	QM9002022022000	46	23
28	5	40	QM9002028028000	57	34
35	5	20	QM9002035035000	62	36
42	1	10	QM9002042042000	76	46
54	1	7	QM9002054054000	94	59



Art. QM9040

-  Copper M/F 45° elbow.
-  Bogen 45° I/A aus Kupfer.
-  Courbe 45° M/F en cuivre.
-  Curva 45° M/H de cobre.
-  Угол 45° из меди Н-В.

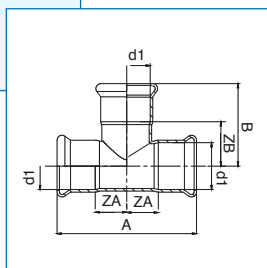
d1	BAG	MASTER BOX	CODE	A	B	ZA
12	10	250	QM9040012012000	23	30	5
15	10	200	QM9040015015000	28	37	8
18	10	150	QM9040018018000	29	37	9
22	10	100	QM9040022022000	34	42	11
28	5	60	QM9040028028000	37	42	14
35	5	40	QM9040035035000	44	46	18
42	5	20	QM9040042042000	51	68	21
54	1	10	QM9040054054000	62	72	27



Art. QM9041

- Copper F/F 45° elbow.
- Bogen 45° I/I aus Kupfer.
- Courbe 45° F/F en cuivre.
- Curva 45° H/H de cobre.
- Угол 45° из меди B-B.

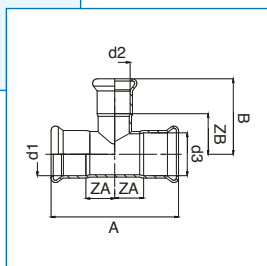
d1	BAG	MASTER BOX	CODE	A	ZA
12	10	250	QM9041012012000	23	5
15	10	200	QM9041015015000	28	8
18	10	150	QM9041018018000	29	9
22	10	80	QM9041022022000	34	11
28	5	60	QM9041028028000	37	14
35	5	40	QM9041035035000	44	18
42	5	20	QM9041042042000	51	21
54	1	10	QM9041054054000	62	27



Art. QM9130

- Copper F/F/F tee.
- T-Stück I/I/I aus Kupfer.
- Té F/F/F en cuivre.
- T H/H/H de cobre.
- Тройник из меди B-B-B.

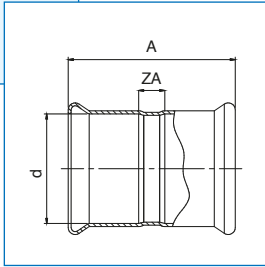
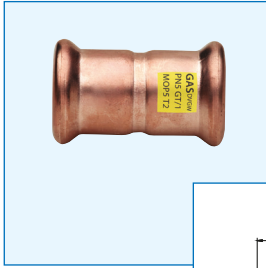
d1	BAG	MASTER BOX	CODE	A	B	ZA	ZB
12	10	150	QM9130012012012	56	28	10	10
15	10	100	QM9130015015015	64	32	12	12
18	5	50	QM9130018018018	68	34	14	14
22	5	40	QM9130022022022	74	37	14	14
28	5	35	QM9130028028028	84	42	19	19
35	5	20	QM9130035035035	100	50	24	24
42	1	10	QM9130042042042	116	58	28	28
54	1	10	QM9130054054054	138	69	34	34








Art. QM9131

- Copper F/F/F reducing tee.
- T-Stück reduziert I/I/I aus Kupfer.
- Té réduit F/F/F en cuivre.
- T reducido H/H/H de cobre.
- Тройник из меди у меньшего размера B-B-B.

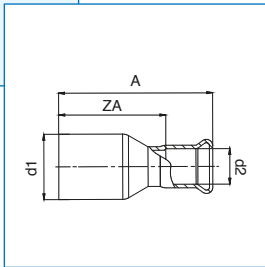
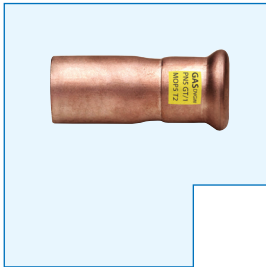
d1xd2xd3	BAG	MASTER BOX	CODE	A	B	ZA	ZB
12x15x12	10	100	QM9131012015012	56	27	10	7
15x12x12	10	100	QM9131015012012	51	25	6,5	7
15x12x15	10	100	QM9131015012015	64	32	13	14
15x15x12	5	70	QM9131015015012	68	32	15	12
18x15x15	10	80	QM9131018015015	60	29	10	9
18x15x18	10	80	QM9131018015018	68	35	14	15
22x12x22	5	60	QM9131022012022	74	34	16,5	16
22x15x15	5	50	QM9131022015015	83	38	20	18
22x15x22	5	50	QM9131022015022	74	38	15,5	18
22x18x18	5	50	QM9131022018018	81	38	19	18
22x18x22	5	50	QM9131022018022	74	38	15,5	18
22x22x15	5	40	QM9131022022015	84	37	20,5	14
22x22x18	5	50	QM9131022022018	83	37	20	14
22x28x22	5	35	QM9131022028022	78	38	16	15
28x15x28	5	30	QM9131028015028	84	41	20,5	21
28x18x28	5	30	QM9131028018028	84	41	19	18
28x22x22	5	35	QM9131028022022	85	41	19,5	18
28x22x28	5	30	QM9131028022028	84	41	22	24
28x28x22	5	30	QM9131028028022	88	42	21	19
35x22x35	5	20	QM9131035022035	90	45	25,5	21
35x28x35	5	20	QM9131035028035	100	44	25	28
42x28x42	1	10	QM9131042028042	112	49	28	24
42x35x42	1	10	QM9131042035042	112	50	24	28
54x42x54	1	8	QM9131054042054	138	64	36,5	34








Art. QM9270

-  Copper F/F coupling.
-  Muffe I/I aus Kupfer.
-  Manchon avec flexion F/F en cuivre.
-  Manguito con remante H/H de cobre.
-  Муфта с упором медная В-В.

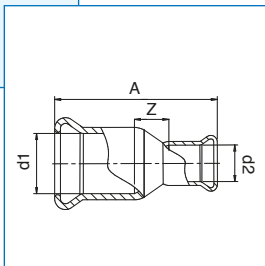
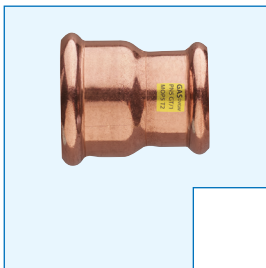
d	BAG	MASTER BOX	CODE	A	ZA
12	10	300	QM9270012012000	40	4
15	10	200	QM9270015015000	50	10
18	10	150	QM9270018018000	45	5
22	10	100	QM9270022022000	48	2
28	10	60	QM9270028028000	50	4
35	5	40	QM9270035035000	56	4
42	5	25	QM9270042042000	75	15
54	1	15	QM9270054054000	86	16








Art. QM9243

-  Copper M/F reducer.
-  Reduzierstück I/A aus Kupfer.
-  Réduction M/F en cuivre.
-  Reducción M/H de cobre.
-  Муфта редукиционная медная Н-В.

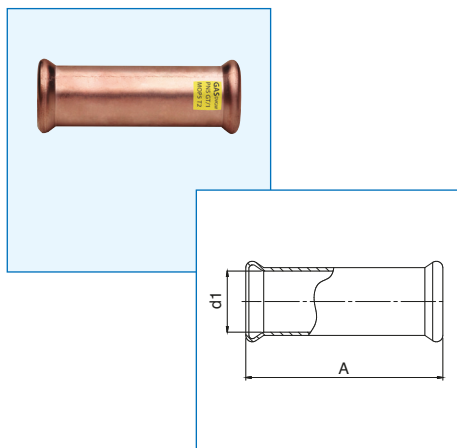
d1xd2	BAG	MASTER BOX	CODE	A	ZA
15x12	10	300	QM9243015012000	45	24
18x12	10	300	QM9243018012000	46	24
18x15	10	100	QM9243018015000	51	24
22x15	10	150	QM9243022015000	50	25
22x18	10	150	QM9243022018000	50	25
28x15	10	100	QM9243028015000	55	28
28x18	10	100	QM9243028018000	54	28
28x22	10	100	QM9243028022000	53	28
35x22	10	60	QM9243035022000	60	31
35x28	10	50	QM9243035028000	60	31
42x22	5	50	QM9243042022000	67	35
42x28	5	40	QM9243042028000	67	35
42x35	5	40	QM9243042035000	66	35
54x35	5	20	QM9243054035000	79	40
54x42	5	20	QM9243054042000	77	40








Art. QM9240

-  Copper F/F reducing coupling.
-  Muffe reduziert I/I aus Kupfer.
-  Réduction F/F en cuivre.
-  Reducción H/H de cobre.
-  Муфта редукиционная медная В-В.

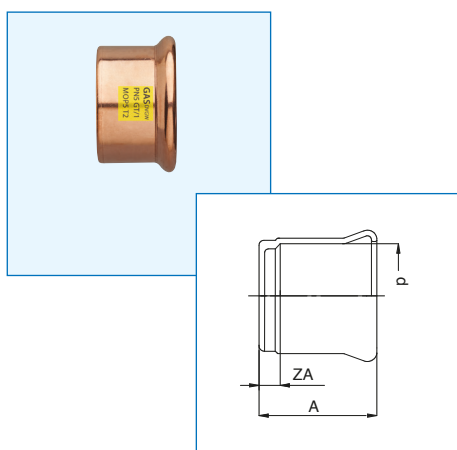
d1xd2	BAG	MASTER BOX	CODE	A	Z
15x12	10	300	QM9240015012000	42	4
18x15	10	200	QM9240018015000	45	5
22x15	10	150	QM9240022015000	48	5
22x18	10	130	QM9240022018000	49	6
28x22	5	80	QM9240028022000	51	5
35x28	5	50	QM9240035028000	56	7
42x35	5	30	QM9240042035000	63	7








Art. QM9271

-  Copper F/F slip coupling.
-  Schiebemuffe I/I aus Kupfer.
-  Manchon coulissant F/F en cuivre.
-  Manguito de paso H/H de cobre.
-  Муфта проходная медная В-В.

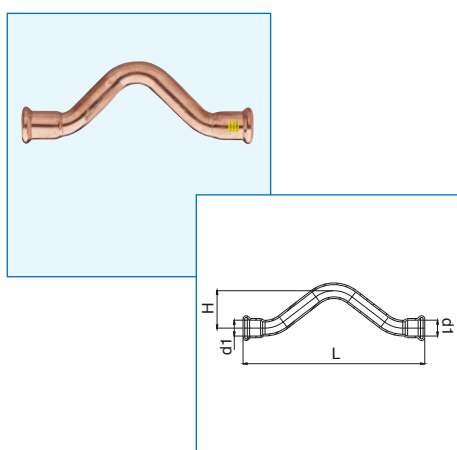
d1	BAG	MASTER BOX	CODE	A
12	10	150	QM9271012012000	58
15	10	150	QM9271015015000	80
18	10	100	QM9271018018000	80
22	5	60	QM9271022022000	80
28	5	40	QM9271028028000	84
35	5	30	QM9271035035000	100
42	5	15	QM9271042042000	116
54	1	10	QM9271054054000	138








Art. QM9301

-  Copper F plug.
-  Verschlusskappe I aus Kupfer.
-  Bouchon F en cuivre.
-  Tapón H de cobre.
-  Заглушка медная В.

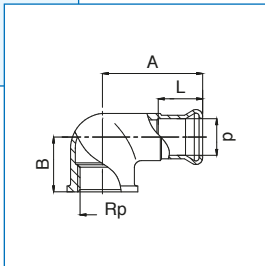
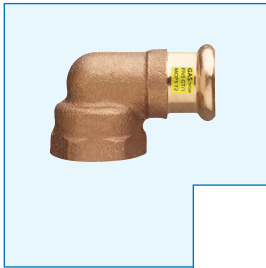
d	BAG	MASTER BOX	CODE	A	ZA
15	10	400	QM9301015000000	23	3
18	10	300	QM9301018000000	23	3
22	10	200	QM9301022000000	25	2
28	10	150	QM9301028000000	27	4
35	5	70	QM9301035000000	30	4
42	5	40	QM9301042000000	34	4
54	5	30	QM9301054000000	39	4



Art. QM9085

-  Copper F/F full crossover.
-  Überbogen I/I aus Kupfer.
-  Chapeau de gendarme F/F en cuivre.
-  Desviación larga H/H de cobre.
-  Обвод из меди длинный В-В.

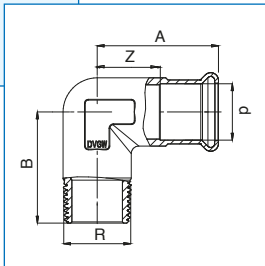
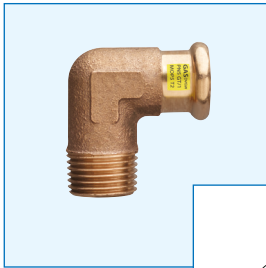
d1	BAG	MASTER BOX	CODE	H	L
15	5	80	QM9085015015000	35	140
18	10	50	QM9085018018000	38	142
22	5	25	QM9085022022000	47	172



Art. QM8090

- Bronze F/female thread 90° elbow.
- Winkel 90° I mit I Gewinde aus Rotguss.
- Coude 90° F/filetage femelle en bronze.
- Codo mixto 90° H/rosca hembra de bronce.
- Угол 90° из бронзы В-В(Rp).

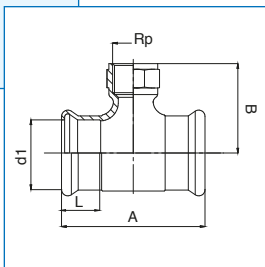
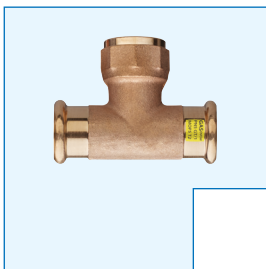
Rpxd	BAG	MASTER BOX	CODE	A	B	L
3/8"x12	10	150	QM8090A38012000	33	18	15,5
3/8"x15	10	100	QM8090A38015000	35	19	18,5
1/2"x12	10	150	QM8090A12012000	40	22	15,5
1/2"x15	10	100	QM8090A12015000	38	23	18,5
1/2"x18	10	100	QM8090A12018000	38	23	18,5
1/2"x22	10	60	QM8090A12022000	41	25	21,5
3/4"x15	10	70	QM8090A34015000	41	24	18,5
3/4"x18	5	70	QM8090A34018000	41	24	18,5
3/4"x22	5	60	QM8090A34022000	44	29,5	21,5
1"x22	5	40	QM8090B01022000	47	32	21,5
1"x28	5	40	QM8090B01028000	52	32	22
1"1/4x35	5	20	QM8090B14035000	60	40	24,5
1"1/2x42	5	20	QM8090B12042000	66	41	28,5
2"x54	1	8	QM8090C02054000	77	55	33,5



Art. QM8092

- Bronze F/male thread 90° elbow.
- Winkel 90° I mit A Gewinde aus Rotguss.
- Coude 90° F/filetage mâle en bronze.
- Codo mixto 90° H/rosca macho de bronce.
- Угол 90° из бронзы В-Н(R).

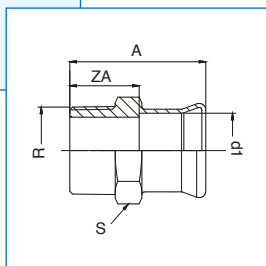
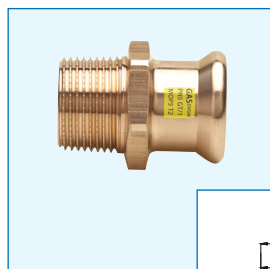
Rxd	BAG	MASTER BOX	CODE	A	B	Z
3/8"x15	10	100	QM8092A38015000	32	30	12,5
1/2"x12	10	150	QM8092A12012000	37	35	21,5
1/2"x15	10	100	QM8092A12015000	35	33	15,5
1/2"x18	10	80	QM8092A12018000	38	48	18,5
3/4"x18	5	70	QM8092A34018000	38	50	18,5
3/4"x22	10	50	QM8092A34022000	42	42	19,5
1"x28	5	30	QM8092B01028000	52	68	29,5
1"1/4x35	1	15	QM8092B14035000	55	47	29,5
1"1/2x42	1	10	QM8092B12042000	62	62	32,5
2"x54	1	7	QM8092C02054000	72	65	37,5








Art. QM8130

- Bronze F/female thread/F tee.
- T-Stück mit I Gewinde aus Rotguss.
- Té F/filetage femelle/F en bronze.
- T H/rosca hembra/H de bronce.
- Тройник из бронзы В-В(Rp)-В.

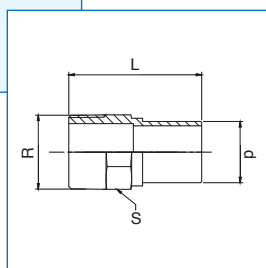
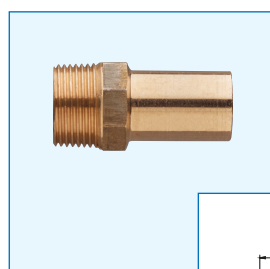
Rpxd1	BAG	MASTER BOX	CODE	A	B	L
3/8"x15	10	80	QM8130015A38015	43	22	19,5
1/2"x12	10	100	QM8130012A12012	72	20,5	15,5
1/2"x15	10	80	QM8130015A12015	65	21,5	19,5
1/2"x18	10	60	QM8130018A12018	78	25	19,5
1/2"x22	5	50	QM8130022A12022	77	25	22,5
1/2"x28	5	25	QM8130028A12028	92	51	22,5
1/2"x35	5	20	QM8130035A12035	84	40	22,5
1/2"x42	1	10	QM8130042A12042	95	44,5	29,5
1/2"x54	1	5	QM8130054A12054	103	53	34,5
3/4"x22	5	40	QM8130022A34022	80	45	22,5
3/4"x28	5	20	QM8130028A34028	92	52	22,5
1"x28	5	25	QM8130028B01028	90	34	22,5








Art. QM8243

-  Bronze F/male thread adapter.
-  Übergangsstück I mit A Gewinde aus Rotguss.
-  Manchon F/filetage mâle en bronze.
-  Manguito mixto H/rosca macho de bronce.
-  Муфта бронзовая В-Н(R).

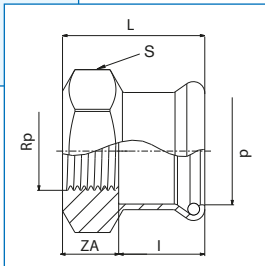
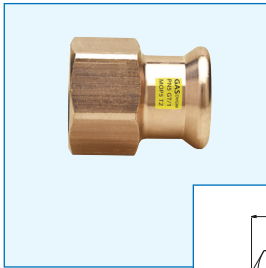
Rxd1	BAG	MASTER BOX	CODE	A	S	ZA
3/8"x12	10	250	QM8243A38012000	32,5	18	14,5
3/8"x15	10	200	QM8243A38015000	34	19	14
1/2"x12	10	200	QM8243A12012000	35	19	17
1/2"x15	10	150	QM8243A12015000	35,5	21	15,5
1/2"x18	10	150	QM8243A12018000	36	24	16
1/2"x22	10	100	QM8243A12022000	39,5	27	16,5
3/4"x15	10	150	QM8243A34015000	37	24	17
3/4"x18	10	100	QM8243A34018000	39	24	19
3/4"x22	10	100	QM8243A34022000	41	27	18
3/4"x28	5	50	QM8243A34028000	42	32	19
1"x22	5	70	QM8243B01022000	43	27	20
1"x28	5	50	QM8243B01028000	43,5	34	20,5
1"x35	5	30	QM8243B01035000	49	40	23
1"1/4x28	5	50	QM8243B14028000	49	34	26
1"1/4x35	5	40	QM8243B14035000	52	42	26
1"1/4x42	5	20	QM8243B14042000	58	48	28
1"1/2x35	5	25	QM8243B12035000	53	46	27
1"1/2x42	5	25	QM8243B12042000	58	48	28
1"1/2x54	1	15	QM8243B12054000	59	60	24
2"x54	1	10	QM8243C02054000	65,5	58	30,5








Art. RS8244

-  Bronze M/male thread adapter.
-  Einsteckstück A mit A Gewinde aus Rotguss.
-  Manchon M/filetage mâle en bronze.
-  Manguito mixto M/rosca macho de bronce.
-  Муфта бронзовая Н-Н(R).

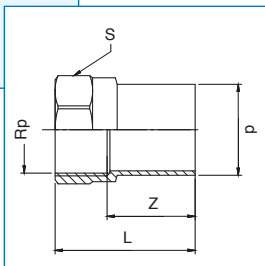
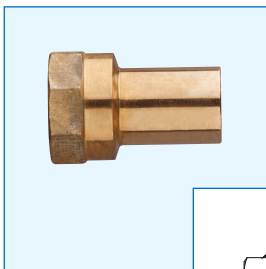
Rxd	BAG	MASTER BOX	CODE	L	S
1/2"x12	10	200	RS8244A12012000	46	21
1/2"x15	10	200	RS8244A12015000	49	21
1/2"x18	10	150	RS8244A12018000	50	21
1/2"x22	10	100	RS8244A12022000	51	25
3/4"x18	10	100	RS8244A34018000	53	27
3/4"x22	10	100	RS8244A34022000	54	27
1"x28	5	50	RS8244B01028000	57	34
1"1/4x35	5	40	RS8244B14035000	64	42
1"1/2x42	5	25	RS8244B12042000	74	48
2"x54	1	10	RS8244C02054000	81	60








Art. QM8270

-  Bronze F/female thread adapter.
-  Übergangsstück I mit I Gewinde aus Rotguss.
-  Manchon F/filetage femelle en bronze.
-  Manguito mixto H/rosca hembra de bronce.
-  Му фга бронзовая В-В(Rp).

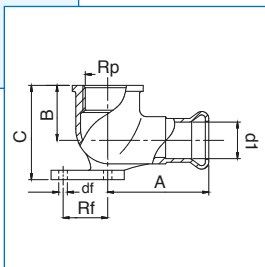
Rpxd	BAG	MASTER BOX	CODE	I	L	S	ZA
3/8"x12	10	250	QM8270A38012000	19	30,5	20	11,5
3/8"x15	10	200	QM8270A38015000	21	32,5	20	11,5
1/2"x12	10	200	QM8270A12012000	19,5	34,5	24	15
1/2"x15	10	150	QM8270A12015000	21,5	36,5	24	15
1/2"x18	10	150	QM8270A12018000	21,5	36,5	24	15
1/2"x22	10	100	QM8270A12022000	23	37	27	14
3/4"x15	10	200	QM8270A34015000	22	38,5	31	16,5
3/4"x18	10	100	QM8270A34018000	23	39,5	31	16,5
3/4"x22	10	100	QM8270A34022000	24,5	41	31	16,5
3/4"x28	5	60	QM8270A34028000	23	38,5	32	15,5
1"x22	5	80	QM8270B01022000	25	44	38	19
1"x28	5	50	QM8270B01028000	25	44	38	19
1"x35	5	40	QM8270B01035000	27	46	40	19
1"1/4x35	5	30	QM8270B14035000	27	50	48	23
1"1/2x42	5	25	QM8270B12042000	32	54	56	22
2"x54	1	15	QM8270C02054000	37	63	68	26








Art. RS8272

-  Bronze M/female thread adapter.
-  Einsteckstück A mit I Gewinde aus Rotguss.
-  Manchon M/filetage femelle en bronze.
-  Manguito mixto M/rosca hembra de bronce.
-  Му фга бронзовая Н-В(Rp).

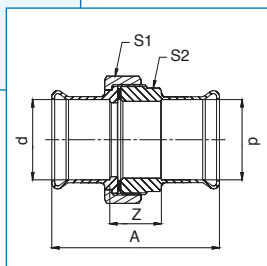
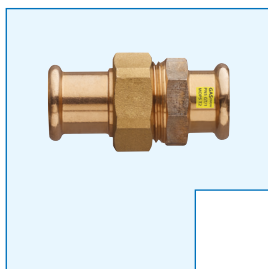
Rpxd	BAG	MASTER BOX	CODE	L	S	Z
3/8"x12	10	200	RS8272A38012000	37	21	25
3/8"x15	10	200	RS8272A38015000	41	21	29
1/2"x12	10	200	RS8272A12012000	41	25	26
1/2"x15	10	200	RS8272A12015000	45	25	30
1/2"x18	10	150	RS8272A12018000	46	25	31
1/2"x22	10	100	RS8272A12022000	47	25	32
3/4"x18	10	100	RS8272A34018000	48	31	31
3/4"x22	10	80	RS8272A34022000	49	31	32
1"x28	5	40	RS8272B01028000	54	38	34
1"1/4x35	5	20	RS8272B14035000	57	48	35
1"1/2x42	5	20	RS8272B12042000	68	55	46
2"x54	1	10	RS8272C02054000	76	68	50








Art. QM8471

-  Bronze F/female thread 90° elbow with wallplate.
-  Wandscheibe 90° I mit I Gewinde aus Rotguss.
-  Applique coude 90° F/filetage femelle en bronze.
-  Codo mixto 90° H/rosca hembra con brida de bronce.
-  Угол бронзовый с фланцем В-В(Rp).

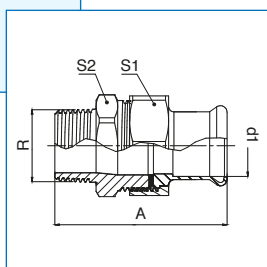
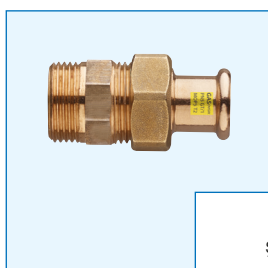
Rpxd1	BAG	MASTER BOX	CODE	A	B	C	df	Rf
1/2"x12	10	80	QM8471A12012000	40	22	34	4,2	16
1/2"x15	10	80	QM8471A12015000	40	24	34	4,2	16
1/2"x18	5	70	QM8471A12018000	40	24	38	4,2	16
3/4"x22	5	40	QM8471A34022000	48	26	46	4,2	18








Art. QM8340

-  Bronze F/F flat seat joint.
-  Rohrverschraubung I/I aus Rotguss.
-  Union F/F en bronze.
-  Unión H/H de bronce.
-  Разъемное соединение из бронзы В-В.

d	BAG	MASTER BOX	CODE	A	S1	S2	Z
15	10	100	QM8340015015000	85	24	25	45
18	10	100	QM8340018018000	95	30	30	55
22	5	40	QM8340022022000	97	37	34	51
28	5	30	QM8340028028000	91	46	45	45
35	5	20	QM8340035035000	120	52	50	68
42	1	10	QM8340042042000	134	64	60	74
54	1	8	QM8340054054000	144	85	75	74



Art. QM8341

-  Bronze F/male thread flat seat joint.
-  Rohrverschraubung I mit A Gewinde aus Rotguss.
-  Union F/filetage mâle en bronze.
-  Unión H/rosca macho con junta plana de bronce.
-  Разъемное соединение из бронзы В-Н(Р).

Rxd1	BAG	MASTER BOX	CODE	A	S1	S2
1/2"x12	5	50	QM8341A12012000	65	24	25
1/2"x15	5	50	QM8341A12015000	70	24	27
1/2"x18	5	50	QM8341A12018000	70	30	30
3/4"x15	5	50	QM8341A34015000	65	30	30
3/4"x18	5	50	QM8341A34018000	75	30	30
3/4"x22	5	50	QM8341A34022000	82	30	30
1"x22	5	30	QM8341B01022000	77	37	34
1"x28	5	30	QM8341B01028000	77	46	45
1"1/4x35	1	20	QM8341B14035000	85	52	50
1"1/2x42	1	10	QM8341B12042000	95	64	60
2"x54	1	8	QM8341C02054000	100	85	75



1. Introduction

FRABOPRESS SOLAR is the copper and bronze pressfitting range, available in dimensions between 15 and 35 mm, with a special O-ring purpose-developed for high temperatures and particularly heavy working conditions. The fittings feature a **V-type pressing profile**. The green FKM gasket can withstand operating temperatures up to 160°C with peaks up to 200°C for short periods. Mixed connection fittings to other systems are made using bronze threaded parts with press ends. The threads comply with UNI EN 10226-1 standard.

1. Einführung

FRABOPRESS SOLAR ist ein System von PressfitTINGS aus Kupfer und Bronze im Abmessungsbereich von 15 bis 35 mm mit einem speziellen O-Ring geeignet für hohe Temperaturen und besonders anspruchsvolle Arbeitssituationen. **V-Profil**. Die grüne FKM-Dichtung ist für den Dauereinsatz bis 160°C (Kurzzeit 200°C) beständig. Die Gewindeanschlüsse zum Anschluss an andere Systeme werden in Bronze hergestellt. Die Gewinde entsprechen der UNI EN 10226-1.

1. Présentation

FRABOPRESS SOLAR est la gamme constituée par des raccords à sertir en cuivre et bronze disponibles dans la gamme dimensionnelle entre 15 et 35 mm, avec le spécial joint torique expressément développé pour supporter de hautes températures et des situations de service particulièrement sévères. Les raccords ont un **profil** de sertissage de type **V**. Le joint d'étanchéité en FKM de couleur verte supporte des températures de service jusqu'à 160°C avec des pics jusqu'à 200°C pendant de courtes périodes. Les extrémités filetées de jonction avec des autres systèmes sont réalisées avec des parties filetées en bronze avec terminassions à sertir. Les filetages sont conformes à la norme UNI EN 10226-1.

1. Presentación

FRABOPRESS SOLAR es la serie de racores para prensar de cobre y de bronce disponible en la gama dimensional desde 15 hasta 35 mm, con junta especial tórica diseñada para soportar temperaturas elevadas y situaciones de trabajo particularmente duras. Los racores tienen un **perfil** de tipo **V**. La junta de color verde de FKM puede resistir a 160°C por uso continuo y hasta 200°C por breves picos. Las terminaciones roscadas de conexión con otros sistemas se realizan con piezas de bronce roscadas con extremidad para prensar. Las roscas cumplen con la norma UNI EN 10226-1.

1. Описание

FRABOPRESS SOLAR - серия пресс-фитингов из меди и бронзы с размерным рядом от 15 до 35 мм со специальной прокладкой O-ring, пригодной для высоких температур и особенно тяжелых условий работы. Пресс-фитинги имеют **V профиль**. Прокладка зеленого цвета из эластомера FKM выдерживает постоянную рабочую температуру до 160°C и короткие скачки до 200°C. Резьбовые фитинги для подсоединения к другим системам выполнены из бронзы с резьбой на одном выходе и пресс-соединением на патрубке. Резьба соответствует UNI EN 10226-1.

2. Advantages

- Ideal to handle high temperatures and particularly heavy conditions.
- Suitable for operating temperatures up to 160°C with peaks up to 200°C for short periods.
- Speed of installation.
- Comfortable installation: no welding or tank transport needed, unlike in soldering installation.

2. Vorteile

- Ideal für hohe Temperaturen und besonders anspruchsvolle Arbeitssituationen.
- Geeignet für Anwendungen mit Temperaturen bis zu 160°C (Kurzzeit 200°C).
- Einfache und schnelle Installation.

• Bequemlichkeit bei der Installation: Im Gegensatz zu einer Installation welche mittels Schweißverfahren hergestellt wird, ist es nicht erforderlich, Zylinder und Schweißbrenner zu tragen.

2. Avantages

- Idéals pour supporter des températures élevées et des situations de service particulièrement sévères.
- Adaptés pour applications avec températures de service jusqu'à 160°C avec des pics jusqu'à 200°C pendant de courtes périodes.
- Rapidité d'installation.
- Commodité dans la réalisation de l'installation: aucun besoin de transporter des bouteilles ou bombones de gaz à différence des installations à souder.

2. Ventajas

- Ideales para soportar temperaturas elevadas y situaciones de trabajo particularmente duras.
- Aptos para aplicaciones con temperaturas hasta 160°C por uso continuo y hasta 200°C por breves picos.
- Instalación comfortable: a diferencia de las instalaciones realizadas con soldadura, no es necesario transportar botellas para soldar.

2. Преимущества

- Идеальны для высоких температур и особенно тяжелых условий работы.
- Пригодны для применения при температурах до 160°C с пиковыми нагрузками до 200°C.
- Высокая скорость монтажа.
- Удобны для монтажа системы: в отличие от системы с применением сварки на крыше, не требует доставки газовых баллонов и горелки к месту монтажа.

3. Applications

FRABOPRESS SOLAR is perfect for installation of systems for solar panels, high temperature water distribution, stoves and low-pressure steam systems.

3. Anwendungsbereiche

Die FRABOPRESS SOLAR Serie eignet sich für den Bau von Anlagen mit Sonnenkollektoren, Wasserverteilung bei hohen Temperaturen, Niederdruckdampfsystemen und Kaminen.

3. Champs d'emploi

La gamme FRABOPRESS SOLAR est l'idéal dans la réalisation d'installations de panneaux solaires, de distribution d'eau à hautes températures, de foyers chaudières et d'installations à vapeur à basse pression.

3. Aplicaciones

La serie FRABOPRESS SOLAR es perfecta para realizar instalaciones con paneles solares, de distribución de agua a temperaturas elevadas, sistemas de vapor de baja presión.

3. Области применения

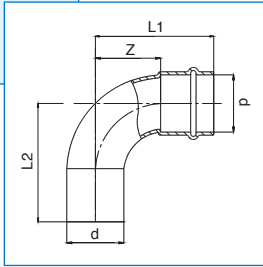
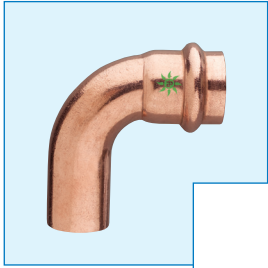
Фитинги серии FRABOPRESS SOLAR идеально подходят для применения в системах отопления коллекторах, систем распределения воды высоких температур, паровых систем низкого давления и термокаминов.




SOLAR



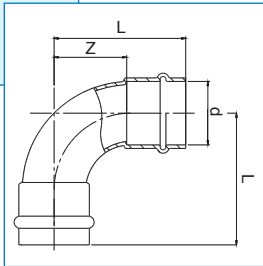
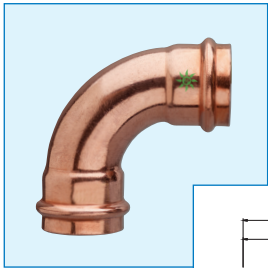
STEAM



Art. HT9001

-  Copper M/F 90° elbow.
-  Bogen 90° I/A aus Kupfer.
-  Courbe 90° M/F en cuivre.
-  Curva 90° M/H de cobre.
-  Угол 90° из меди Н-В.

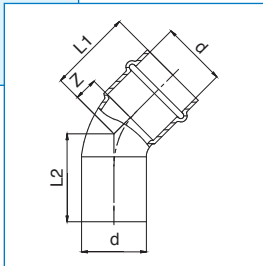
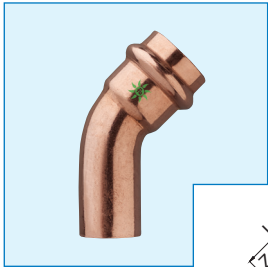
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15	10	200	HT9001015015000	40	42	18
18	10	150	HT9001018018000	45	47	22
22	10	80	HT9001022022000	51	52	27
28	5	40	HT9001028028000	59	61	34
35	5	30	HT9001035035000	68	70	42








Art. HT9002

-  Copper F/F 90° elbow.
-  Bogen 90° I/I aus Kupfer.
-  Courbe 90° F/F en cuivre.
-  Curva 90° H/H de cobre.
-  Угол 90° из меди В-В.

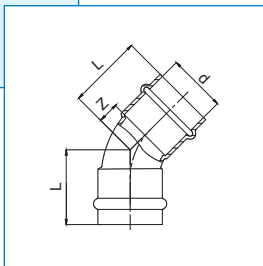
d	BAG	MASTER BOX	CODE	L	Z
15	10	150	HT9002015015000	40	18
18	10	100	HT9002018018000	45	22
22	10	60	HT9002022022000	47	23
28	5	40	HT9002028028000	59	34
35	5	30	HT9002035035000	68	42



Art. HT9040

-  Copper M/F 45° elbow.
-  Bogen 45° I/A aus Kupfer.
-  Courbe 45° M/F en cuivre.
-  Curva 45° M/H de cobre.
-  Угол 45° из меди Н-В.

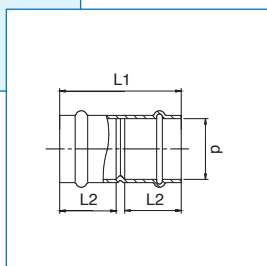
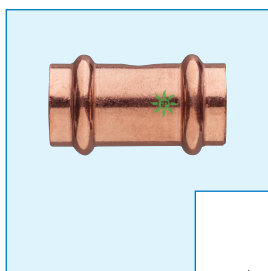
d	BAG	MASTER BOX	CODE	L1	L2	Z
15	10	200	HT9040015015000	29	30	7
18	10	150	HT9040018018000	31	32	8
22	10	100	HT9040022022000	34	36	10
28	5	60	HT9040028028000	38	40	13



Art. HT9041

-  Copper F/F 45° elbow.
-  Bogen 45° I/I aus Kupfer.
-  Courbe 45° F/F en cuivre.
-  Curva 45° H/H de cobre.
-  Угол 45° из меди В-В.

d	BAG	MASTER BOX	CODE	L	Z
15	10	200	HT9041015015000	29	7
18	10	150	HT9041018018000	31	8
22	10	80	HT9041022022000	34	10
28	5	60	HT9041028028000	38	13



Art. HT9270

Copper F/F coupling.

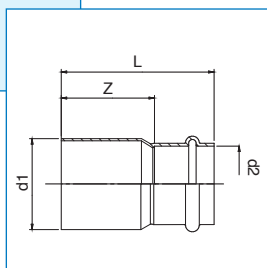
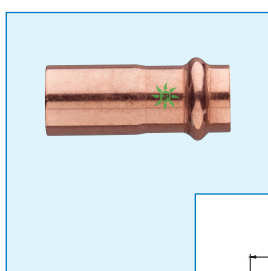
Muffe I/I aus Kupfer.

Manchon avec flexion F/F en cuivre.

Manguito con remante H/H de cobre.

Муфта с упором медная В-В.

d	BAG	MASTER BOX	CODE	L1	L2
15	10	200	HT9270015015000	49	22
18	10	150	HT9270018018000	52	23
22	10	100	HT9270022022000	53	24
28	10	60	HT9270028028000	57	25
35	5	40	HT9270035035000	62	26



Art. HT9243

Copper M/F reducer.

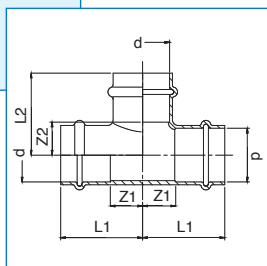
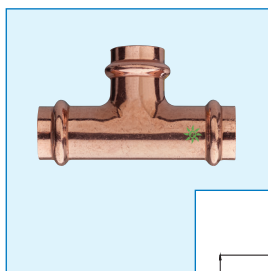
Reduzierstück I/A aus Kupfer.

Réduction M/F en cuivre.

Reducción M/H de cobre.

Муфта редукционная медная Н-В.

d1xd2	BAG	MASTER BOX	CODE	L	Z
18x15	10	200	HT9243018015000	50	28
22x18	10	150	HT9243022018000	52	29
28x22	10	100	HT9243028022000	58	34



Art. HT9130

Copper F/F/F tee.

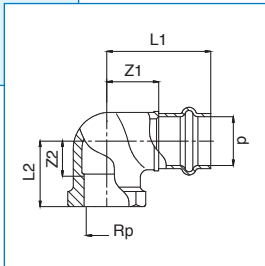
T-Stück I/I/I aus Kupfer.

Té F/F/F en cuivre.






T H/H/H de cobre.

Тройник из меди В-В-В.

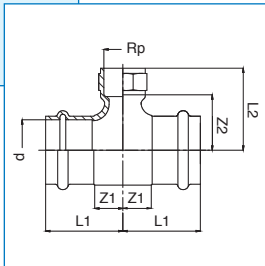
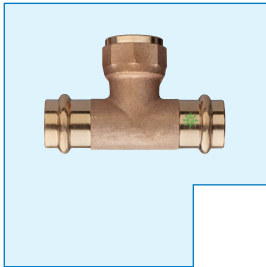
d	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
15	10	100	HT9130015015015	41	33	19	11
18	5	50	HT9130018018018	42	35	19	12
22	5	40	HT9130022022022	45	39	21	15
28	5	35	HT9130028028028	48	46	23	21
35	5	20	HT9130035035035	53	48	27	22








Art. HT8090

-  Bronze F/female thread 90° elbow.
-  Winkel 90° I mit I Gewinde aus Rotguss.
-  Coude 90° F/filetage femelle en bronze.
-  Codo mixto 90° H/rosca hembra de bronce.
-  Угол 90° из бронзы В-В(Rp).

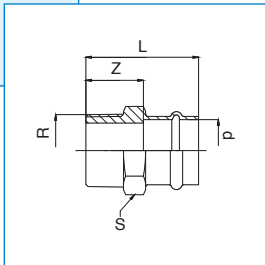
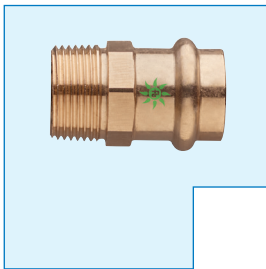
Rpxd	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
1/2"x18	10	100	HT8090A12018000	47	24	24	13
1/2"x22	10	60	HT8090A12022000	49	24	25	13
3/4"x18	5	70	HT8090A34018000	50	24	27	9
3/4"x22	5	60	HT8090A34022000	49	29	25	6
3/4"x28	5	50	HT8090A34028000	55	30	30	15
1"x22	5	40	HT8090B01022000	60	33	36	10
1"x28	5	50	HT8090B01028000	61	33	36	9








Art. HT8130

-  Bronze F/female thread/F tee.
-  T-Stück mit I Gewinde aus Rotguss.
-  Té F/filetage femelle/F en bronze.
-  T H/rosca hembra/H de bronce.
-  Тройник из бронзы В-В(Rp)-В.

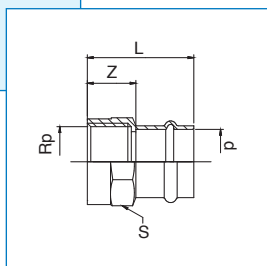
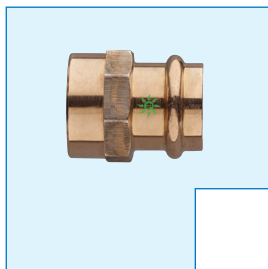
Rpxd	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
1/2"x15	10	80	HT8130015A12015	45	23	23	13
1/2"x18	10	60	HT8130018A12018	47	24	24	14
1/2"x22	5	50	HT8130022A12022	48	25	24	15
3/4"x22	5	40	HT8130022A34022	53	31	29	16
3/4"x28	5	20	HT8130028A34028	53	50	27	35








Art. HT8243

-  Bronze F/male thread adapter.
-  Übergangsstück I mit A Gewinde aus Rotguss.
-  Manchon F/filetage mâle en bronze.
-  Manguito mixto H/rosca macho de bronce.
-  Муфта бронзовая В-Н(R).

Rxd	BAG	MASTER BOX	CODE	L	S	Z
1/2"x15	10	150	HT8243A12015000	46	25	24
1/2"x18	10	150	HT8243A12018000	48	27	25
1/2"x22	10	100	HT8243A12022000	49	32	25
3/4"x15	10	100	HT8243A34015000	48	28	26
3/4"x18	10	100	HT8243A34018000	49	28	26
3/4"x22	10	100	HT8243A34022000	51	32	27
3/4"x28	5	70	HT8243A34028000	52	38	27
1"x22	5	70	HT8243B01022000	52	34	28
1"x28	5	50	HT8243B01028000	54	38	29
1"1/4x35	5	40	HT8243B14035000	60	46	34



Art. HT8270

-  Bronze F/female thread adapter.
-  Übergangsstück I mit I Gewinde aus Rotguss.
-  Manchon F/filetage femelle en bronze.
-  Manguito mixto H/rosca hembra de bronce.
-  Муфта бронзовая В-В(Rp).

Rpxd	BAG	MASTER BOX	CODE	L	S	Z
1/2"x15	10	200	HT8270A12015000	40	25	3
1/2"x18	10	150	HT8270A12018000	41	27	3
3/4"x18	10	100	HT8270A34018000	44	31	4
3/4"x22	10	100	HT8270A34022000	46	32	5
3/4"x28	5	60	HT8270A34028000	48	38	8
1"x22	5	80	HT8270B01022000	47	38	4



1. Introduction

FRABOPRESS CHROME, with Securfrabo security system, is the patented series of copper and bronze pressfittings available in a dimensional range between 12 and 22 mm, it is characterized by a galvanic chrome-plated coating. The fittings feature a **V-type pressing profile**. The shiny, hygienic and resistant chrome-plated finish gives the series superior aesthetics characteristics, making it suitable for visible installation in any environment, particularly in bathrooms.

The EPDM sealing gasket is equipped with Securfrabo system for detecting leaks from fittings, which are not pressed. Mixed connection fittings to other systems are made using bronze threaded parts with press ends. The threads comply with UNI EN 10226-1 standard.

1. Einführung

FRABOPRESS CHROME mit Securfrabo ist ein System von Pressfittings aus Kupfer und Bronze im Abmessungsbereich von 12 bis 22 mm, welche galvanisch verchromt sind. **V-Profil**.

Die verchromte, hygienische, glänzende und widerstandsfähige Oberfläche verleiht der Serie überlegene ästhetische Eigenschaften, die mit einer Vorwand Installation in jeder Umgebung und insbesondere in den Badezimmern absolut kompatibel sind.

Die Dichtung besteht aus EPDM und ist mit dem Securfrabo-System zur Erkennung von Undichtigkeiten an nicht gepressten Verbindungen ausgestattet. Die Gewindeanschlüsse zum Anschluss an andere Systeme werden in Bronze hergestellt. Die Gewinde entsprechen der UNI EN 10226-1.

1. Présentation

FRABOPRESS CHROME, avec système de sécurité Securfrabo, est une gamme brevetée composée par des raccords à sertir en cuivre et bronze disponible dans la gamme dimensionnelle entre 12 et 22 mm, caractérisée par un revêtement galvanique de chromage. Les raccords ont un **profil** de sertissage de type **V**.

La finition chromée, hygiénique, brillante et résistante, donne à la série des caractéristiques esthétiques supérieures et permet leur montage à vue dans n'importe quel contexte, notamment les salles de bain. Le joint d'étanchéité est en EPDM et est équipé du système Securfrabo pour la détection des fuites des raccords non sertis.

Les extrémités filetées de jonction avec des autres systèmes sont réalisées avec des parties filetées en bronze chromé avec terminaisons à sertir. Les filetages sont conformes à la norme UNI EN 10226-1.

1. Presentación

FRABOPRESS CHROME, con sistema de seguridad Securfrabo, es la serie patentada de racores para prensar de cobre y de bronce disponible en la gama dimensional desde 12 hasta 22 mm, caracterizada por un recubrimiento galvanico de cromado. Los racores tienen un **perfil** de tipo **V**.

El acabado cromado, higiénico, lúcido y resistente, le da a la serie características estéticas superiores y perfectas para instalaciones a la vista en cualquier ambiente, en particular en los cuartos de baño.

La junta tórica es de EPDM y equipada con el sistema Securfrabo para detectar las fugas si la conexión no se ha prensado.

Las terminaciones roscadas de conexión con otros sistemas se realizan con piezas de bronce roscadas cromadas con extremidad para prensar. Las roscas cumplen con la norma UNI EN 10226-1

1. Описание

FRABOPRESS CHROME с системой безопасности Securfrabo - серия пресс фитингов из меди и бронзы с гальваническим хромированным покрытием, размерный ряд от 12 до 22 мм. Пресс-фитинги имеют **V профиль**.

Хромированное покрытие с блеском, гигиеничное и устойчивое, придает серии превосходные эстетические характеристики, что позволяет использовать фитинги для открытой прокладки в любых помещениях, особенно в ванных комнатах.

Уплотнительная прокладка из EPDM снабжена системой Securfrabo для выявления протечек на неопрессованных фитингах. Фитинги смешанного типа для подсоединения к другим системам выполнены из хромированной бронзы с резьбой на одном выходе и пресс-соединением на патрубке. Резьба соответствует UNI EN 10226-1.

2. Advantages

- Chrome-plated finish which gives superior aesthetic characteristics in any location.
- Safety: thanks to Securfrabo **security system**, it is possible to find immediately a leakage of an unpressed fitting during the pressure test.
- Speed of installation.

2. Vorteile

- Chromoberfläche, die der Serie überlegene ästhetische Eigenschaften verleiht und mit einer Vorwandinstallation absolut kompatibel ist.
- Sicherheit: Securfrabo-**Sicherheitssystem** welches versehentliche nicht gepresst Stellen bei der Druckprobe signalisiert.
- Einfache und schnelle Installation.

2. Avantages

- Finition chromée donnant des caractéristiques esthétiques supérieures et permettant le montage à vue dans n'importe quel contexte.
- Sécurité: grâce au **système de sécurité** Securfrabo, il est possible de détecter la fuite du fluide dans la phase de test de l'installation, si le raccord n'a pas été serti.
- Rapidité d'installation.

2. Ventajas

- Acabado cromado que le da a la serie características estéticas superiores y perfectas para instalaciones a la vista en cualquier ambiente.
- Seguridad: el **sistema de seguridad** Securfrabo permite detectar una fuga de fluido durante la prueba de la instalación, si la conexión no se ha prensado.
- Velocidad de instalación.

2. Преимущества

- Хромированное покрытие с превосходными эстетическими характеристиками позволяет использовать фитинги для открытой прокладки в любых помещениях.
- Безопасность: благодаря **системе безопасности** Securfrabo возможно обнаружение протечки в момент испытания системы, в случае, если фитинг не был опрессован.
- Высокая скорость монтажа.

3. Applications

FRABOPRESS CHROME range is suitable for different kinds of water supply and distribution systems, heating and cooling systems.

3. Anwendungsbereiche

Die FRABOPRESS CHROME Serie kann in verschiedenen Arten von Anlagen zur Versorgung und Verteilung von Trinkwasser-, Heiz-, Kühl- und Industriekühlsystemen eingesetzt werden.

3. Champs d'emploi

La gamme FRABOPRESS CHROME est utilisable dans différentes typologies d'installations pour l'adduction et la distribution d'eau, de systèmes de chauffage et refroidissement.

3. Aplicaciones

La serie FRABOPRESS CHROME es utilizable en muchos tipos de instalaciones para la distribución y l'aducción de agua, sistemas de calefacción y de refrigeración.

3. Области применения

Серия FRABOPRESS CHROME применима для использования в различных системах подачи и распределения питьевой воды, горячего и холодного водоснабжения, промышленных системах отопления и охлаждения, холодильных установках.



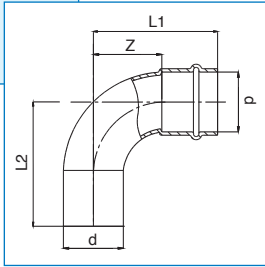
DRINKING
WATER



HEATING



HVAC



Art. RK9001

Copper M/F 90° elbow.

PATENTED

Bogen 90° I/A aus Kupfer.

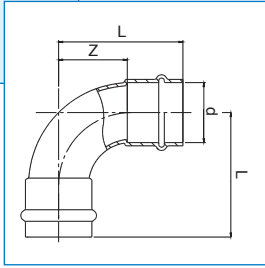
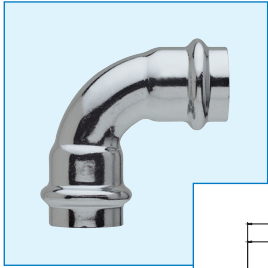
Courbe 90° M/F en cuivre.

Curva 90° M/H de cobre.

Угол 90° из меди Н-В.



d	BAG	MASTER BOX	CODE	L1	L2	Z
12	10	300	RK9001012012000	33	34	15
15	10	200	RK9001015015000	40	42	18
18	10	150	RK9001018018000	45	47	22
22	10	80	RK9001022022000	51	52	27



Art. RK9002

Copper F/F 90° elbow.

PATENTED

Bogen 90° I/I aus Kupfer.

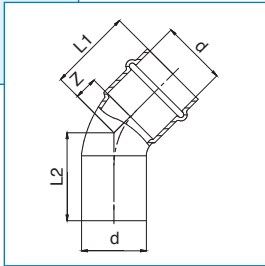
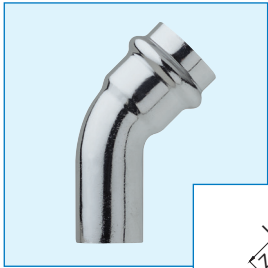
Courbe 90° F/F en cuivre.

Curva 90° H/H de cobre.

Угол 90° из меди В-В.



d	BAG	MASTER BOX	CODE	L	Z
12	10	250	RK9002012012000	33	15
15	10	150	RK9002015015000	40	18
18	10	100	RK9002018018000	45	22
22	10	80	RK9002022022000	51	27



Art. RK9040

Copper M/F 45° elbow.

PATENTED

Bogen 45° I/A aus Kupfer.

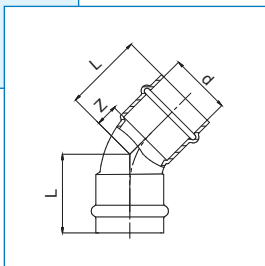
Courbe 45° M/F en cuivre.

Curva 45° M/H de cobre.

Угол 45° из меди Н-В.



d	BAG	MASTER BOX	CODE	L1	L2	Z
12	10	250	RK9040012012000	25	26	7
15	10	200	RK9040015015000	29	30	7
18	10	150	RK9040018018000	31	32	8
22	10	100	RK9040022022000	34	36	10



Art. RK9041

Copper F/F 45° elbow.

PATENTED

Bogen 45° I/I aus Kupfer.

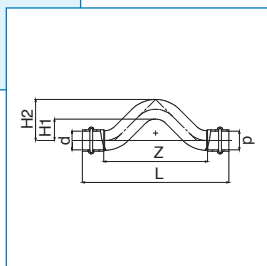
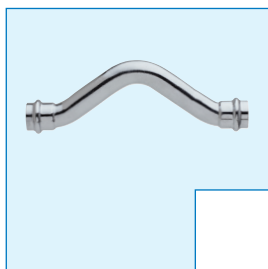
Courbe 45° F/F en cuivre.

Curva 45° H/H de cobre.

Угол 45° из меди В-В.



d	BAG	MASTER BOX	CODE	L	Z
12	10	250	RK9041012012000	25	7
15	10	200	RK9041015015000	29	7
18	10	150	RK9041018018000	31	8
22	10	80	RK9041022022000	34	10



Art. RK9085

Copper F/F full crossover.

PATENTED

Überbogen I/I aus Kupfer.

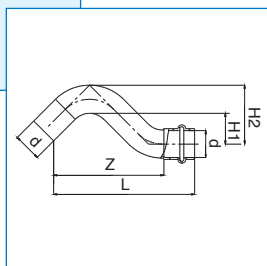
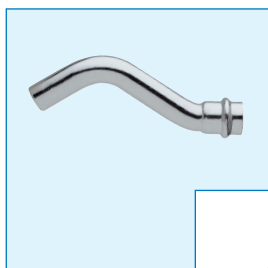
Chapeau de gendarme F/F en cuivre.

Desviación larga H/H de cobre.

Обвод из меди длинный В-В.



d	BAG	MASTER BOX	CODE	L	H1	H2	Z
12	5	100	RK9085012012000	152	28	34	116
15	5	80	RK9085015015000	152	27	35	110
18	5	50	RK9085018018000	176	28	37	130
22	5	25	RK9085022022000	198	30	41	150



Art. RK9086

Copper M/F partial crossover.

PATENTED

Überbogen I/A aus Kupfer.

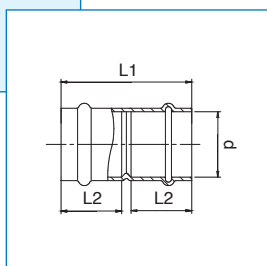
Clarinette M/F en cuivre.

Desviación corta M/H de cobre.

Обвод из меди короткий Н-В.



d	BAG	MASTER BOX	CODE	L	H1	H2	Z
12	10	100	RK9086012012000	112	20	32	96
15	10	100	RK9086015015000	119	20	35	98
18	10	70	RK9086018018000	137	20	38	114
22	5	25	RK9086022022000	160	30	52	136



Art. RK9270

Copper F/F coupling.

PATENTED

Muffe I/I aus Kupfer.

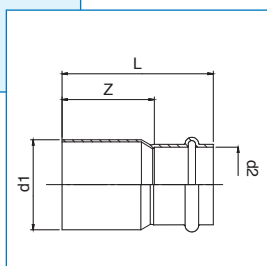
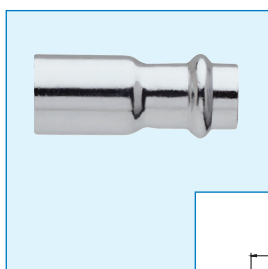
Manchon avec flexion F/F en cuivre.

Manguito con remante H/H de cobre.

Муфта с упором медная В-В.



d	BAG	MASTER BOX	CODE	L1	L2
12	10	300	RK9270012012000	40	18
15	10	200	RK9270015015000	49	22
18	10	150	RK9270018018000	52	23
22	10	100	RK9270022022000	53	24



Art. RK9243

Copper M/F reducer.

PATENTED

Reduzierstück I/A aus Kupfer.

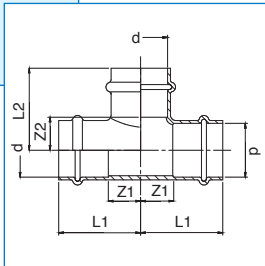
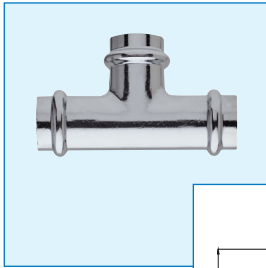
Réduction M/F en cuivre.

Reducción M/H de cobre.

Муфта редукционная медная Н-В.



d1xd2	BAG	MASTER BOX	CODE	L	Z
15x12	10	300	RK9243015012000	44	26
18x12	10	300	RK9243018012000	47	29
18x15	10	200	RK9243018015000	50	28
22x15	10	150	RK9243022015000	56	34
22x18	10	150	RK9243022018000	52	29



Art. RK9130



Copper F/F/F tee.

PATENTED



T-Stück I/I/I aus Kupfer.



Té F/F/F en cuivre.



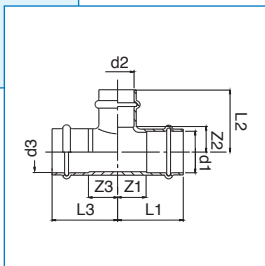
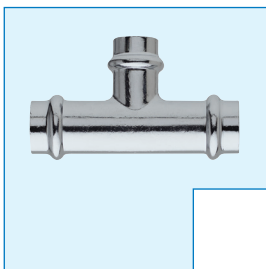
T H/H/H de cobre.



Тройник из меди В-В-В.



d	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
12	10	150	RK9130012012012	29	29	11	11
15	10	100	RK9130015015015	41	33	19	11
18	10	80	RK9130018018018	42	35	19	12
22	5	40	RK9130022022022	45	39	21	15



Art. RK9131



Copper F/F/F reducing tee.

PATENTED



T-Stück reduziert I/I/I aus Kupfer.



Té réduit F/F/F en cuivre.



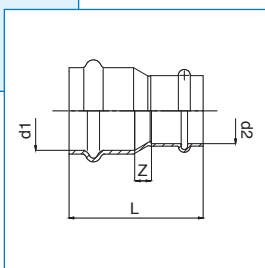
T reducido H/H/H de cobre.



Тройник из меди уменьшенного размера В-В-В.



d1xd2xd3	BAG	MASTER BOX	CODE	L1	L2	L3	Z1	Z2	Z3
12x15x12	10	100	RK9131012015012	38	32	38	20	10	20
15x12x12	10	100	RK9131015012012	39	30	39	17	12	21
15x12x15	10	100	RK9131015012015	39	30	39	17	12	17
15x15x12	5	70	RK9131015015012	41	33	41	19	11	19
18x12x18	10	80	RK9131018012018	39	31	39	16	13	16
18x15x15	10	80	RK9131018015015	41	35	45	18	13	23
18x15x18	10	80	RK9131018015018	41	35	41	18	13	18
18x18x15	10	80	RK9131018018015	42	35	47	19	12	25
18x22x18	5	50	RK9131018022018	45	36	45	22	12	22
22x12x22	5	60	RK9131022012022	39	33	39	15	15	15
22x15x15	5	50	RK9131022015015	41	37	47	17	15	25
22x15x22	5	50	RK9131022015022	41	37	41	17	15	17
22x18x18	5	50	RK9131022018018	42	37	47	18	14	24
22x18x22	5	50	RK9131022018022	42	37	42	18	14	18
22x22x15	5	50	RK9131022022015	45	38	51	21	14	29
22x22x18	5	50	RK9131022022018	45	38	51	21	14	28



Art. RK9240



Copper F/F reducing coupling.

PATENTED



Muffe reduziert I/I aus Kupfer.



Réduction F/F en cuivre.



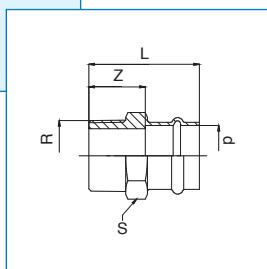
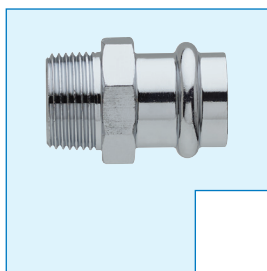
Reducción H/H de cobre.



Муфта редукционная медная В-В.



d1xd2	BAG	MASTER BOX	CODE	L	Z
15x12	10	300	RK9240015012000	46	6
18x15	10	200	RK9240018015000	50	5
22x15	10	150	RK9240022015000	58	12
22x18	10	130	RK9240022018000	55	8



Art. RK8243

Bronze F/male thread adapter.

PATENTED

Übergangsstück I mit A Gewinde aus Rotguss.

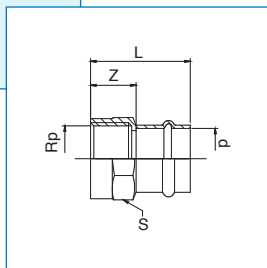
Manchon F/filetage mâle en bronze.

Manguito mixto H/rosca macho de bronce.

Муфта бронзовая В-Н(R).



Rxd	BAG	MASTER BOX	CODE	L	S	Z
3/8"x12	10	250	RK8243A38012000	40	21	22
3/8"x15	10	200	RK8243A38015000	44	25	22
1/2"x12	10	200	RK8243A12012000	43	21	25
1/2"x15	10	150	RK8243A12015000	46	25	24
1/2"x18	10	150	RK8243A12018000	48	27	25
1/2"x22	10	100	RK8243A12022000	49	32	25
3/4"x18	10	100	RK8243A34018000	49	28	26
3/4"x22	10	100	RK8243A34022000	51	32	27
1"x22	5	50	RK8243B01022000	52	34	28



Art. RK8270

Bronze F/female thread adapter.

PATENTED

Übergangsstück I mit I Gewinde aus Rotguss.

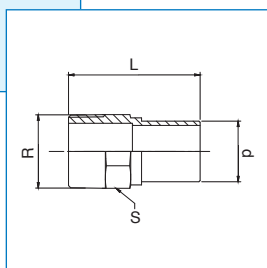
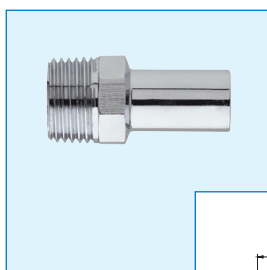
Manchon F/filetage femelle en bronze.

Manguito mixto H/rosca hembra de bronce.

Муфта бронзовая В-В(Rp).



Rpxd	BAG	MASTER BOX	CODE	L	S	Z
3/8"x12	10	250	RK8270A38012000	35	25	5
3/8"x15	10	200	RK8270A38015000	36	25	2
1/2"x12	10	200	RK8270A12012000	36	25	3
1/2"x15	10	200	RK8270A12015000	40	25	3
1/2"x18	10	150	RK8270A12018000	41	27	3
1/2"x22	10	150	RK8270A12022000	41	32	2
3/4"x18	10	100	RK8270A34018000	44	31	4
3/4"x22	10	100	RK8270A34022000	46	32	5
1"x22	5	80	RK8270B01022000	47	38	4



Art. RK8244

Bronze M/male thread adapter.

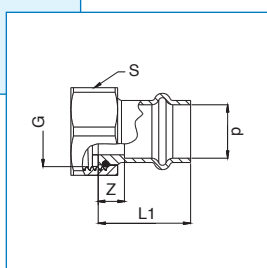
Einsteckstück A mit A Gewinde aus Rotguss.

Manchon M/filetage mâle en bronze.

Manguito mixto M/rosca macho de bronce.

Муфта бронзовая Н-Н(R).

Rxd	BAG	MASTER BOX	CODE	L	S
1/2"x12	10	200	RK8244A12012000	46	21
1/2"x15	10	200	RK8244A12015000	49	21
1/2"x18	10	150	RK8244A12018000	50	21
1/2"x22	10	100	RK8244A12022000	51	25
3/4"x18	10	100	RK8244A34018000	53	27
3/4"x22	10	100	RK8244A34022000	54	27



Art. RK8359

Bronze valve connector with a swivel nut in brass. **PATENTED**

Verschraubung aus Rotguss mit Schwenk-Mutter und flachdichtend.

Raccord en bronze avec écrou en laiton F/filetage femelle.

Conexión de bronce H/rosca hembra con tuerca giratoria de latón.

Разъемное соединение из бронзы с латунной накладной гайкой В(Г)-В.



Gxd	BAG	MASTER BOX	CODE	L1	S	Z
1/2"x15	10	100	RK8359A12015000	44	24	22
3/4"x15	10	150	RK8359A34015000	29	30	7
3/4"x18	10	70	RK8359A34018000	32	30	9



1. Introduction

FRABOPRESS 316 V, with Securfrabo security system, is the patented system of AISI 316L austenitic stainless steel pipes and fittings (material nr. 1.4404), available in a dimensional range between 15 and 54 mm. The fittings feature a **V-type pressing profile**.

The EPDM sealing gasket is equipped with Securfrabo system for detecting leaks from fittings, which are not pressed.

For dimensions between 76,1 and 108 mm, the range is completed by a series of M-profile stainless steel pressfittings (FRABOPRESS 316 M range). Mixed connection fittings to other systems are made using AISI 316L austenitic stainless steel threaded parts with press ends. The threads comply with UNI EN 10226-1 standard.

1. Einführung

FRABOPRESS 316 V mit Securfrabo ist ein System bestehend aus austenitischen Edelstahlrohren und -Pressfittings in AISI 316L (W. 1.4404), welches im Abmessungsbereich von 15 bis 54 mm erhältlich ist. **V-Profil**. Die Dichtung besteht aus EPDM und ist mit dem Securfrabo-System zur Erkennung von Undichtigkeiten an nicht gepressten Verbindungen ausgestattet.

Die Serie wird in den Abmessungen zwischen 76,1 und 108 mm durch eine Reihe von Pressfittings mit M-Profil vervollständigt (FRABOPRESS 316 M Serie).

Die Gewindeanschlüsse zum Anschluss an andere Systeme werden aus Edelstahl AISI 316L hergestellt. Die Gewinde entsprechen der UNI EN 10226-1.

1. Présentation

FRABOPRESS 316 V, avec système de sécurité Securfrabo, est un système breveté constitué par des tubes et des raccords à sertir en acier inoxydable austénitique AISI 316L (n° de matériau 1.4404) disponible dans la gamme dimensionnelle entre 15 et 54 mm. Les raccords ont un **profil** de sertissage de type **V**.

Le joint d'étanchéité est en EPDM et est équipé du système Securfrabo pour la détection des fuites des raccords non sertis.

La gamme est complétée dans les dimensions comprises entre 76,1 et 108 mm par une série des raccords à profil M en acier inoxydable (Gamme FRABOPRESS 316 M). Les extrémités filetées de jonction avec des autres systèmes sont réalisées avec des parties filetées en acier inox austénitique AISI 316L avec terminassions à sertir. Les filetages sont conformes à la norme UNI EN 10226-1.

1. Presentación

FRABOPRESS 316 V, con sistema de seguridad Securfrabo, es un sistema patentado constituido por tubería y racores para prensar de acero inoxidable austenítico AISI 316L (n° material 1.4404) disponible en la gama dimensional desde 15 hasta 54 mm. Los racores tienen un **perfil** de tipo **V**.

La junta tórica es de EPDM y equipada con el sistema Securfrabo para detectar las fugas si la conexión no se ha prensado.

La gama se completa en las dimensiones desde 76,1 hasta 108 mm con una serie de racores para prensar con perfil M de acero inoxidable (gama FRABOPRESS 316 M).

Las terminaciones roscadas de conexión con otros sistemas se realizan con piezas de acero inoxidable austenítico AISI 316L con extremidad para prensar. Las roscas cumplen con la norma UNI EN 10226-1.

1. Описание

FRABOPRESS 316 V с системой безопасности Securfrabo представляет собой систему из труб и пресс-фитингов из аустенитной нержавеющей стали AISI 316L (нержавеющая сталь 1.4404), с размерным рядом от 15 до 54 мм. Пресс-фитинги имеют **V профиль**. Уплотнительная прокладка из EPDM снабжена системой Securfrabo для выявления протечек на неопрессованных фитингах. В больших размерах с диаметром от 76,1 до 108 мм серию дополняют пресс-фитинги с профилем М (серия FRABOPRESS 316 М). Фитинги смешанного типа для подсоединения к другим системам выполнены из аустенитной нержавеющей стали AISI 316L с пресс-соединением на патрубке. Резьба соответствует UNI EN 10226-1.

2. Advantages

- Safety: thanks to Securfrabo **security system**, it is possible to find immediately a leakage of an unpressed fitting during the pressure test.
- Perfect for drinking water distribution systems.

- Maximum corrosion resistance.
- Excellent hydraulic and mechanical seal.
- Speed of installation.
- Wide application range (drinking water, shipbuilding, heating and cooling).

2. Vorteile

- Sicherheit: Securfrabo-**Sicherheitssystem** welches versehentliche nicht gepresst Stellen bei der Druckprobe signalisiert.
- Ideal für Trinkwasserverteilungssysteme.
- Maximale Korrosionsbeständigkeit.
- Hohe hydraulische und mechanische Abdichtung.
- Einfache und schnelle Installation.
- Weites Anwendungsfeld (Trinkwasser, Lebensmittel, Heizung).

2. Avantages

- Sécurité: grâce au **système de sécurité** Securfrabo, il est possible de détecter la fuite du fluide dans la phase de test de l'installation, si le raccord n'a pas été serti.
- Idéal pour les installations d'eau potable.
- Résistance maximale à la corrosion.
- Grande étanchéité hydraulique et mécanique.
- Rapidité d'installation.
- Large champ d'application (eau potable, alimentaire, chauffage).

2. Ventajas

- Seguridad: el **sistema de seguridad** Securfrabo permite detectar una fuga de fluido durante la prueba de la instalación, si la conexión no se ha prensado.
- Perfecta para instalaciones de distribución de agua potable.
- Estanqueidad idrúlica y mecánica elevada.
- Velocidad de instalación.
- Amplio ámbito de aplicaciones (agua potable, alimentaria, calefacción).

2. Преимущества

- Безопасность: благодаря **системе безопасности** Securfrabo возможно обнаружение протечки в момент испытания системы, в случае, если фитинг не был опрессован.
- Идеальна для систем распределения питьевой воды.
- Максимальная устойчивость к коррозии.
- Повышенная гидравлическая и механическая герметичность.
- Высокая скорость монтажа.
- Обширная область применения (питьевая вода, продукты питания, отопление).

3. Applications

FRABOPRESS 316 V series is perfect for drinking water supply and distribution systems, heating and cooling systems, treated water and rainwater systems, compressed-air systems and firefighting systems. Thanks to the choice of AISI 316L austenitic stainless steel, this range is suitable for marine installations too. **In solar or steam applications, it is necessary to use the specific green FKM gasket.**

3. Anwendungsbereiche

Die FRABOPRESS 316 V Serie ist ideal für die Herstellung von Trinkwasserversorgungs- und Verteilungssystemen, Heiz- und Kühlsystemen, Systeme für aufbereitetes Wasser und Regenwasser, Druckluftsystemen und Brandschutzsystemen. Der AISI 316L austenitische Stahl eignet sich auch für den Schiffsbaubereich.

Für Anwendungen in Solar- und Dampfanlagen muss der grüne FKM-O-Ring verwendet werden.

3. Champs d'emploi

La gamme FRABOPRESS 316 V est idéal pour réaliser des installations d'adduction et de distribution d'eau potable de chauffage et de refroidissement, de transport d'eaux traitées et de pluie, systèmes d'air comprimé et de protection contre les incendies. Grâce au choix du matériau, l'acier inoxydable austénitique AISI 316L, cette gamme est adaptée aussi pour les systèmes navals. **Pour les applications solaires et à vapeur, il est nécessaire d'utiliser le joint torique vert en FKM.**

3. Aplicaciones

FRABOPRESS 316 V es ideal para instalaciones de distribución y aducción de agua, sistemas de calefacción y de refrigeración, instalaciones que transportan aguas tratadas o de lluvia, sistemas de aire comprimido o de protección contra incendios. Gracias a la selección de material, el acero austenítico AISI 316L, esta gama es apta también por sistemas navales. **Para aplicaciones solares y de vapor es necesario utilizar la junta tórica de FKM verde.**

3. Области применения

Система идеально подходит для систем подачи и распределения питьевой воды, горячего и холодного водоснабжения, систем отопления и охлаждения, систем транспортировки обработанной и дождевой воды, систем сжатого воздуха и противопожарных систем. Благодаря выбранной аустенитной нержавеющей стали AISI 316L, эта серия пресс-фитингов может применяться так же в инженерных системах в кораблестроении.

При применении фитингов в системах на солнечных коллекторах и на пару, необходимо использовать кольцевую прокладку из эластомера FKM зеленого цвета.



DRINKING
WATER



HEATING



HVAC



COMPRESSED
AIR



FIREFIGHTING



MARINE



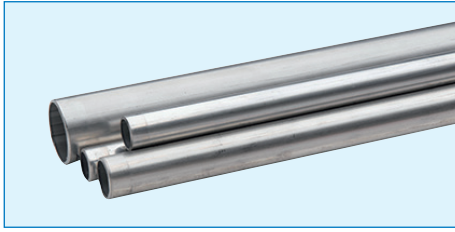
STEAM



SOLAR




INDUSTRIAL





Art. **AXTB00**

 AISI 316L stainless steel annealed pipe.

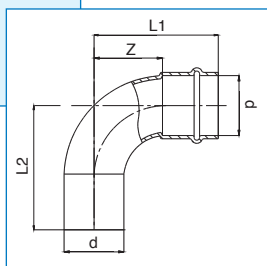
 Geglühte Stahlrohre AISI 316L.

 Tube en acier inoxydable AISI 316L recuit.

 Tubo de acero inoxidable AISI 316L recocado.

 Труба из нержавеющей отожженной стали AISI 316L.

SIZE ABMESSUNG	SP	m/BAR m/STANGE	m/SMALL BUNCH m/KLEINES BÜNDEL	m/STANDARD BUNCH m/STANDARD BÜNDEL	CODE
15	1	6	120	1.014	AXTB00015010000
18	1	6	90	1.014	AXTB00018010000
22	1,2	6	60	762	AXTB00022012000
28	1,2	6	60	546	AXTB00028012000
35	1,5	6	30	546	AXTB00035015000
42	1,5	6	6	366	AXTB00042015000
54	1,5	6	6	366	AXTB00054015000
76,1	2	6	6	222	AXTB00076020000
88,9	2	6	6	114	AXTB00089020000
108	2	6	6	114	AXTB00108020000



Art. ZX0001

M/F 90° elbow.

Bogen 90° I/A.

Courbe 90° M/F.

Curva 90° M/H.

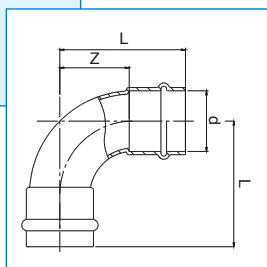
Yron 90° H-B.

PATENTED



d	BAG	MASTER BOX	CODE	L1	L2	Z
15	10	100	ZX0001015015000	40	42	18
18	10	100	ZX0001018018000	45	47	22
22	10	70	ZX0001022022000	51	53	27
28	5	40	ZX0001028028000	59	61	34
35	5	25	ZX0001035035000	68	70	42
42	1	10	ZX0001042042000	87	89	51
54	1	4	ZX0001054054000	105	107	65

The big-size, item AX0001, is available. See at page 106 - Big-size, Artikel AX0001, ist verfügbar. Bitte sehen Sie Seite 106.



Art. ZX0002

F/F 90° elbow.

Bogen 90° I/I.

Courbe 90° F/F.

Curva 90° H/H.

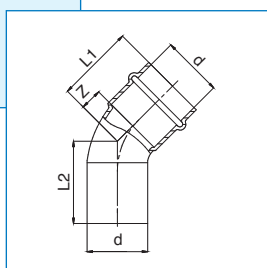
Yron 90° B-B.

PATENTED



d	BAG	MASTER BOX	CODE	L	Z
15	10	100	ZX0002015015000	40	18
18	10	100	ZX0002018018000	45	22
22	5	50	ZX0002022022000	51	27
28	5	30	ZX0002028028000	59	34
35	5	25	ZX0002035035000	68	42
42	1	10	ZX0002042042000	87	51
54	1	7	ZX0002054054000	105	65

The big-size, item AX0002, is available. See at page 106 - Big-size, Artikel AX0002, ist verfügbar. Bitte sehen Sie Seite 106.



Art. ZX0040

M/F 45° elbow.

Bogen 45° I/A.

Courbe 45° M/F.

Curva 45° M/H.

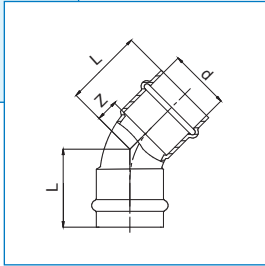
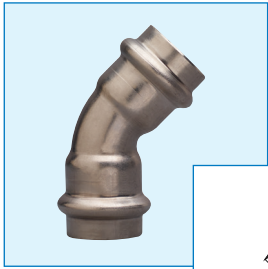
Yron 45° H-B.

PATENTED



d	BAG	MASTER BOX	CODE	L1	L2	Z
15	10	40	ZX0040015015000	29	30	7
18	10	100	ZX0040018018000	31	32	8
22	10	60	ZX0040022022000	34	35	10
28	5	40	ZX0040028028000	38	39	13
35	5	30	ZX0040035035000	43	44	17
42	1	20	ZX0040042042000	53	54	17
54	1	10	ZX0040054054000	69	70	29

The big-size, item AX0040, is available. See at page 106 - Big-size, Artikel AX0040, ist verfügbar. Bitte sehen Sie Seite 106.



Art. ZX0041

F/F 45° elbow.

Bogen 45° I/I.

Courbe 45° F/F.

Curva 45° H/H.

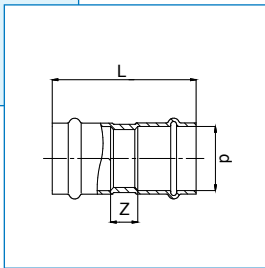
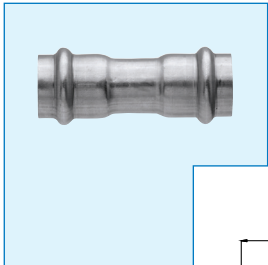
Угол 45° B-B.

PATENTED



d	BAG	MASTER BOX	CODE	L	Z
15	10	100	ZX0041015015000	29	7
18	5	150	ZX0041018018000	46	23
22	5	50	ZX0041022022000	34	10
28	5	40	ZX0041028028000	38	13
35	5	40	ZX0041035035000	43	17
42	1	20	ZX0041042042000	53	17
54	1	5	ZX0041054054000	69	29

The big-size, item AX0041, is available. See at page 107 - Big-size, Artikel AX0041, ist verfügbar. Bitte sehen Sie Seite 107.



Art. ZX0270

F/F coupling.

Muffe I/I.

Manchon avec flexion F/F.

Manguito con remante H/H.

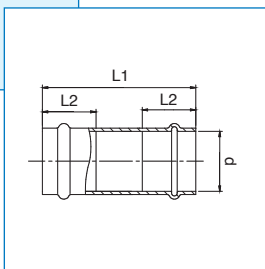
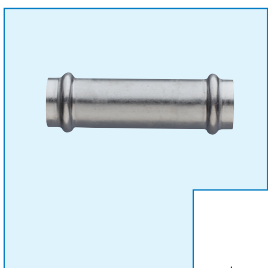
Муфта с упором B-B.

PATENTED



d	BAG	MASTER BOX	CODE	L	Z
15	10	150	ZX0270015015000	57	13
18	10	100	ZX0270018018000	71	23
22	5	70	ZX0270022022000	71	23
28	5	40	ZX0270028028000	80	30
35	5	35	ZX0270035035000	84	23
42	1	25	ZX0270042042000	97	25
54	1	15	ZX0270054054000	107	27

The big-size, item AX0270, is available. See at page 107 - Big-size, Artikel AX0270, ist verfügbar. Bitte sehen Sie Seite 107.



Art. ZX0271

F/F slip coupling.

Schiebemuffe I/I.

Manchon coulissant F/F.

Manguito de paso H/H.

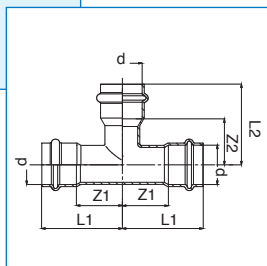
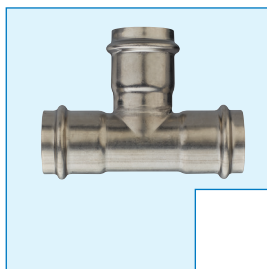
Муфта проходная B-B.

PATENTED



d	BAG	MASTER BOX	CODE	L1	L2
15	10	50	ZX0271015015000	85	22
18	10	40	ZX0271018018000	91	23
22	5	30	ZX0271022022000	100	24
28	5	30	ZX0271028028000	113	25
35	5	30	ZX0271035035000	131	26
42	1	10	ZX0271042042000	176	36
54	1	15	ZX0271054054000	162	40

The big-size, item AX0271, is available. See at page 107 - Big-size, Artikel AX0271, ist verfügbar. Bitte sehen Sie Seite 107.



Art. ZX0130

F/F/F tee.

T-Stück I/I/I.

Té F/F/F.

T H/H/H.

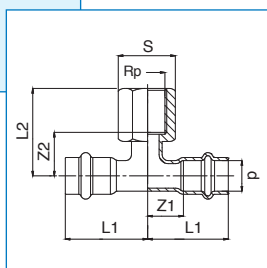
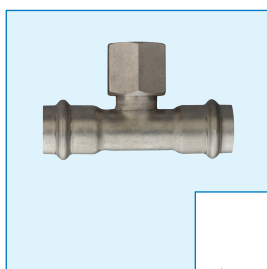
Тройник В-В-В.

PATENTED



d	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
15	5	40	ZX0130015015015	42	44	20	22
18	5	50	ZX0130018018018	46	49	23	26
22	5	30	ZX0130022022022	49	53	25	29
28	5	20	ZX0130028028028	56	57	31	34
35	1	15	ZX0130035035035	66	63	42	37
42	1	10	ZX0130042042042	78	76	44	40
54	1	5	ZX0130054054054	82	92	42	51

The big-size, item AX0130, is available. See at page 108 - Big-size, Artikel AX0130, ist verfügbar. Bitte sehen Sie Seite 108.



Art. ZXF130

F/female thread/F tee.

T-Stück I mit I Gewinde.

Té F/filetage femelle/F.

T H/rosca hembra/H.

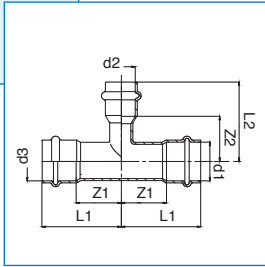
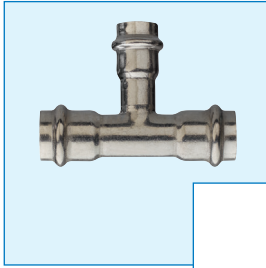
Тройник В-В(Rp)-В.

PATENTED



Rpxd	BAG	MASTER BOX	CODE	L1	L2	S	Z1	Z2
1/2"x15	5	50	ZXF130015A12015	42	30	24	20	17
1/2"x18	5	30	ZXF130018A12018	46	31	24	23	18
1/2"x22	5	25	ZXF130022A12022	49	33	24	25	20
1/2"x28	5	25	ZXF130028A12028	56	36	24	31	23
1/2"x35	5	10	ZXF130035A12035	68	50	24	42	27
1/2"x42	1	5	ZXF130042A12042	80	53	24	44	30
1/2"x54	1	5	ZXF130054A12054	82	51	24	42	36
3/4"x18	5	50	ZXF130018A34018	46	42	30	23	22
3/4"x22	5	25	ZXF130022A34022	49	44	30	25	24
3/4"x28	5	15	ZXF130028A34028	66	48	30	31	27
3/4"x35	1	15	ZXF130035A34035	68	51	30	42	31
3/4"x42	1	10	ZXF130042A34042	80	54	30	44	34
3/4"x54	1	5	ZXF130054A34054	92	60	30	42	40
1"x28	5	15	ZXF130028B01028	60	53	38	31	28
1"1/4x35	1	10	ZXF130035B14035	68	54	50	42	28
1"1/2x42	1	5	ZXF130042B12042	80	51	55	44	32
2"x54	1	4	ZXF130054C02054	82	61	70	42	39

The big-size, item AXF130, is available. See at page 110 - Big-size, Artikel AXF130, ist verfügbar. Bitte sehen Sie Seite 110.



Art. ZX0131

F/F/F reducing tee.

T-Stück reduziert I/I/I.

Té réduit F/F/F.

T reducido H/H/H.

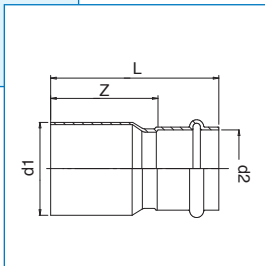
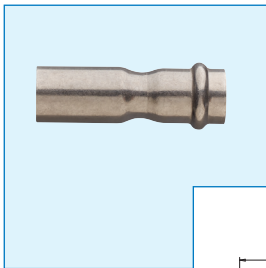
Тройник уменьшенного размера В-В-В.

PATENTED



d1xd2xd3	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
18x15x15	5	30	ZX0131018015015	39	39	17	17
18x15x18	5	30	ZX0131018015018	48	56	23	24
22x15x22	5	40	ZX0131022015022	49	48	25	26
22x18x22	5	25	ZX0131022018022	49	51	25	28
28x15x28	5	15	ZX0131028015028	56	61	31	29
28x18x28	5	30	ZX0131028018028	56	54	31	31
28x22x22	5	15	ZX0131028022022	47	47	23	23
28x22x28	5	15	ZX0131028022028	56	65	31	32
35x15x35	1	15	ZX0131035015035	68	65	42	33
35x18x35	1	15	ZX0131035018035	66	60	42	35
35x22x35	1	10	ZX0131035022035	66	59	42	35
35x28x35	1	15	ZX0131035028035	66	62	42	37
42x18x42	1	10	ZX0131042018042	78	62	44	38
42x22x42	1	8	ZX0131042022042	78	63	44	39
42x28x42	1	6	ZX0131042028042	78	75	44	41
42x35x42	1	5	ZX0131042035042	78	75	44	41
54x18x54	1	5	ZX0131054018054	92	65	42	37
54x22x54	1	5	ZX0131054022054	92	67	42	45
54x28x54	1	5	ZX0131054028054	92	72	42	47
54x35x54	1	5	ZX0131054035054	92	90	42	47
54x42x54	1	5	ZX0131054042054	92	109	42	47

The big-sizes, items AX0131 and AMX131, are available. See at page 109 - Big-sizes, Artikel AX0131 und AMX131, sind verfügbar. Bitte sehen Sie Seite 109.



Art. ZX0243

M/F reducer.

Reduzierstück I/A.

Réduction M/F.

Reducción M/H.

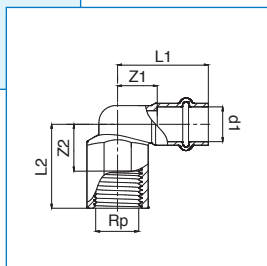
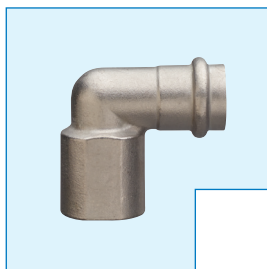
Муфта редукционная Н-В.

PATENTED



d1xd2	BAG	MASTER BOX	CODE	L	Z
18x15	10	100	ZX0243018015000	75	52
22x15	10	150	ZX0243022015000	68	46
22x18	10	40	ZX0243022018000	73	50
28x15	5	30	ZX0243028015000	72	36
28x18	5	70	ZX0243028018000	80	59
28x22	5	50	ZX0243028022000	73	49
35x18	5	20	ZX0243035018000	64	41
35x22	5	50	ZX0243035022000	87	60
35x28	5	50	ZX0243035028000	77	52
42x18	5	50	ZX0243042018000	101	78
42x22	5	50	ZX0243042022000	89	65
42x28	5	30	ZX0243042028000	101	76
42x35	5	35	ZX0243042035000	97	71
54x22	5	20	ZX0243054022000	123	99
54x28	5	20	ZX0243054028000	126	101
54x35	1	15	ZX0243054035000	117	91
54x42	1	15	ZX0243054042000	105	69

The big-sizes, items AX0243 and AMX243, are available. See at page 108 - Big-sizes, Artikel AX0243 und AMX243, sind verfügbar. Bitte sehen Sie Seite 108.



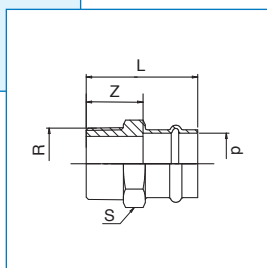
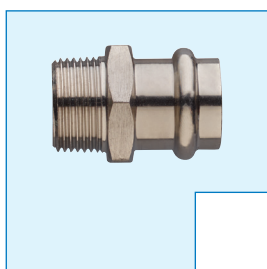
Art. ZX0F90

-  F/female thread elbow.
-  Bogen I mit I Gewinde.
-  Coude F/filetage femelle.
-  Codo mixto H/rosca hembra.
-  Урон B-B(Rp).






PATENTED



Rpxd1	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
1/2"x15	5	50	ZX0F90A12015000	41	37	19	19
1/2"x18	5	100	ZX0F90A12018000	43	39	20	21
1/2"x22	5	75	ZX0F90A12022000	42	37	18	19
3/4"x22	5	20	ZX0F90A34022000	45	42	21	24
3/4"x28	5	20	ZX0F90A34028000	47	43	22	25
1"x28	5	30	ZX0F90B01028000	54	48	29	28



Art. ZXF243

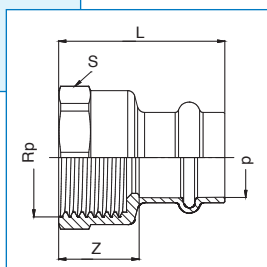
-  F/male thread adapter.
-  Übergangsstück I mit A Gewinde.
-  Manchon F/filetage mâle.
-  Manguito mixto H/rosca macho.
-  Мойфга B-H(R).

PATENTED








Rxd	BAG	MASTER BOX	CODE	L	S	Z
1/2"x15	10	50	ZXF243A12015000	43	23	21
1/2"x18	10	150	ZXF243A12018000	62	22	21
1/2"x22	5	100	ZXF243A12022000	46	31	20
3/4"x18	10	30	ZXF243A34018000	49	30	26
3/4"x22	10	100	ZXF243A34022000	47	31	21
3/4"x28	5	70	ZXF243A34028000	47	32	22
1"x22	10	50	ZXF243B01022000	55	34	31
1"x28	5	50	ZXF243B01028000	49	36	24
1"x35	5	40	ZXF243B01035000	70	36	52
1"1/4x35	5	40	ZXF243B14035000	81	45	55
1"1/2x42	1	20	ZXF243B12042000	86	48	51
2"x54	1	15	ZXF243C02054000	100	60	60

The big-size, item AXF243, is available. See at page 111 - Big-size, Artikel AXF243, ist verfügbar. Bitte sehen Sie Seite 111.



Art. ZXF270

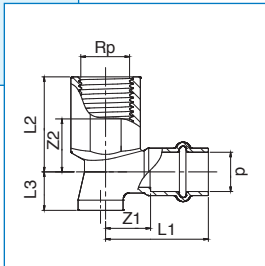
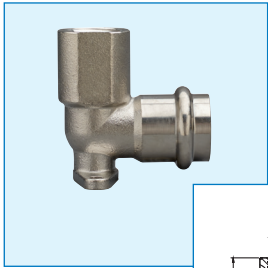
-  F/female thread adapter.
-  Übergangsstück I mit I Gewinde.
-  Manchon F/filetage femelle.
-  Manguito mixto H/rosca hembra.
-  Мойфга B-B(Rp).

PATENTED



Rpxd	BAG	MASTER BOX	CODE	L	S	Z
1/2"x15	10	50	ZXF270A12015000	44	27	22
1/2"x18	10	100	ZXF270A12018000	46	27	23
1/2"x22	10	100	ZXF270A12022000	40	32	16
3/4"x18	10	100	ZXF270A34018000	46	30	26
3/4"x22	10	100	ZXF270A34022000	44	32	20
3/4"x28	5	50	ZXF270A34028000	43	38	18
1"x22	5	50	ZXF270B01022000	47	38	23
1"x28	5	50	ZXF270B01028000	48	38	23
1"x35	5	20	ZXF270B01035000	72	38	46
1"1/4x35	1	30	ZXF270B14035000	76	50	43
1"1/2x42	1	20	ZXF270B12042000	79	55	43
2"x54	1	10	ZXF270C02054000	92	70	52

The big-size, item AXF270, is available. See at page 111 - Big-size, Artikel AXF270, ist verfügbar. Bitte sehen Sie Seite 111.



Art. ZXF472

F/female thread elbow with wallplate.

PATENTED

Wandscheibe I mit I Gewinde.

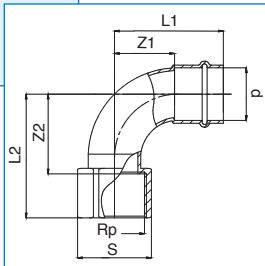
Applique coude F/filetage femelle.

Codo mixto H/rosca hembra con brida.

Угол с фланцем В-В(Rp).



Rpxd	BAG	MASTER BOX	CODE	L1	L2	L3	Z1	Z2
1/2"x15	5	70	ZXF472A12015000	39	37	15	19	19
1/2"x18	5	50	ZXF472A12018000	43	37	15	20	20
1/2"x22	5	30	ZXF472A12022000	45	42	17	21	22
3/4"x22	5	40	ZXF472A34022000	46	46	20	21	20
1"x28	5	10	ZXF472B01028000	54	48	22	29	23



Art. ZXF90L

F/female thread 90° elbow.

PATENTED

Bogen 90° I mit I Gewinde.

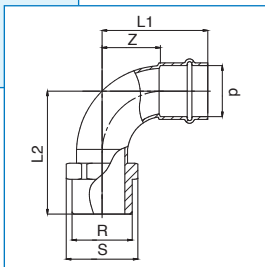
Coude 90° F/filetage femelle.

Curva mixta 90° H/rosca hembra.

Угол 90° B-B(Rp).



Rpxd	BAG	MASTER BOX	CODE	L1	L2	S	Z1	Z2
1/2"x15	5	30	ZXF90LA12015000	58	55	24	31	26
1/2"x18	5	30	ZXF90LA12018000	61	63	24	36	47
1/2"x22	5	30	ZXF90LA12022000	61	63	24	37	50
3/4"x22	5	50	ZXF90LA34022000	73	67	30	40	48
1"x28	5	15	ZXF90LB01028000	82	80	36	50	61
1"1/4x35	1	10	ZXF90LB14035000	92	90	50	66	66



Art. ZXF92L

F/male thread 90° elbow.

PATENTED

Bogen 90° I mit A Gewinde.

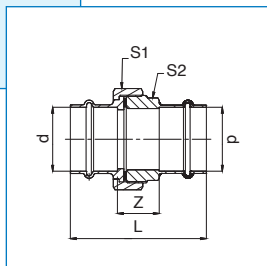
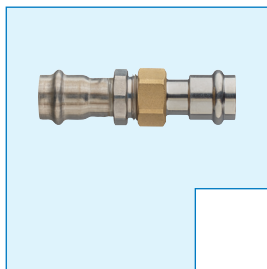
Coude 90° F/filetage mâle.

Curva mixta 90° H/rosca macho.

Угол 90° B-H(R).



Rxd	BAG	MASTER BOX	CODE	L1	L2	S	Z
1/2"x15	5	30	ZXF92LA12015000	53	45	25	31
1/2"x18	5	30	ZXF92LA12018000	65	56	24	36
1/2"x22	5	60	ZXF92LA12022000	61	58	25	37
3/4"x22	5	20	ZXF92LA34022000	64	60	30	40
1"x28	5	15	ZXF92LB01028000	83	75	38	50
1"1/4x35	1	10	ZXF92LB14035000	92	87	45	66
1"1/2x42	1	10	ZXF92LB12042000	111	102	50	75
2"x54	1	5	ZXF92LC02054000	142	120	70	91



Art. ZX0340

F/F flat seat joint.

PATENTED

Rohrverschraubung gerade I/I flachdichtend.

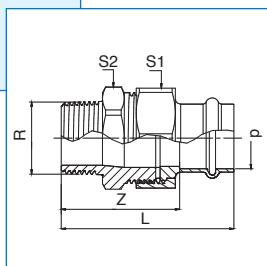
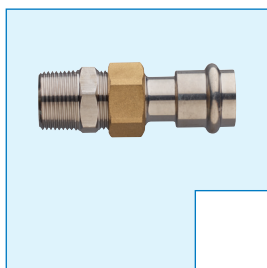
Union F/F à joint plat.

Unión sede plana H/H.

Разъемное соединение с плоским уплотнением В-В.



d	BAG	MASTER BOX	CODE	L	S1	S2	Z
15	5	100	ZX0340015015000	90	24	25	46
18	5	100	ZX0340018018000	100	30	30	54
22	5	40	ZX0340022022000	103	37	34	55
28	5	30	ZX0340028028000	96	46	45	46
35	1	20	ZX0340035035000	125	52	50	73
42	1	10	ZX0340042042000	132	64	60	60
54	1	8	ZX0340054054000	148	85	75	68



Art. ZXF341

F/male thread flat seat joint.

PATENTED

Rohrverschraubung I mit A Gewinde flachdichtend.

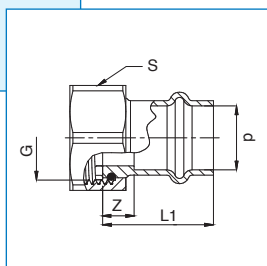
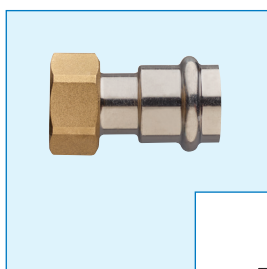
Union F/filetage mâle à joint plat.

Unión H/rosca macho sede plana.

Разъемное соединение с плоским уплотнением В-Н(Р).



Rxd	BAG	MASTER BOX	CODE	L	S1	S2	Z
1/2"x15	5	50	ZXF341A12015000	66	24	27	44
1/2"x18	5	50	ZXF341A12018000	69	30	30	46
1/2"x22	5	50	ZXF341A12022000	83	30	30	59
3/4"x15	5	50	ZXF341A34015000	69	30	30	47
3/4"x18	5	50	ZXF341A34018000	72	30	30	49
3/4"x22	5	50	ZXF341A34022000	86	30	30	62
1"x22	5	30	ZXF341B01022000	81	37	35	57
1"x28	5	30	ZXF341B01028000	83	46	45	58
1"1/4x35	1	15	ZXF341B14035000	88	52	50	62
1"1/2x42	1	15	ZXF341B12042000	98	64	60	62
2"x54	1	8	ZXF341C02054000	106	85	75	66



Art. ZXF359

F/female thread valve connector with a swivel nut in brass.

PATENTED

Halbe Verschraubung flachdichtend.

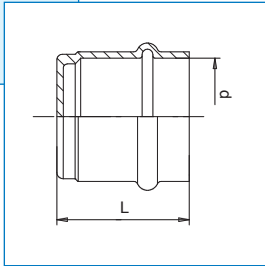
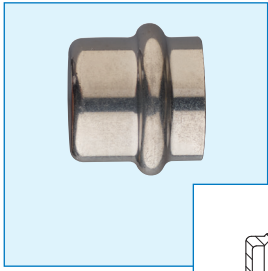
Raccord avec écrou en laiton F/filetage femelle.

Conexión H/rosca hembra con tuerca giratoria de latón.

Соединение с латунной накидной гайкой В-В(Rp).



Gxd	BAG	MASTER BOX	CODE	L1	S	Z
1/2"x15	10	50	ZXF359A12015000	44	24	22
3/4"x15	10	100	ZXF359A34015000	29	30	7
3/4"x18	5	100	ZXF359A34018000	32	30	9
3/4"x22	5	50	ZXF359A34022000	46	30	22
1"x22	5	100	ZXF359B01022000	38	37	14
1"1/4x28	10	50	ZXF359B14028000	34	46	9
1"1/2x35	5	20	ZXF359B12035000	34	46	9
1"3/4x42	5	20	ZXF359B34042000	62	58	26
2"x42	1	20	ZXF359C02042000	48	64	12
2"3/8x54	1	10	ZXF359C38054000	74	76	34
2"1/2x54	1	10	ZXF359C12054000	45	85	5



Art. ZX0302

F plug.

Kappe I.

Bouchon F.

Tapón Hembra.

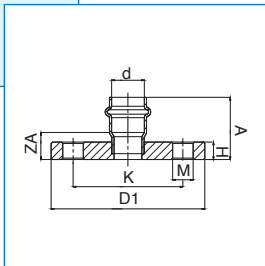
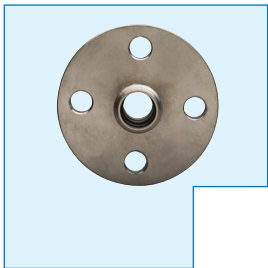
Заглушка В.

PATENTED



d	BAG	MASTER BOX	CODE	L
15	10	200	ZX0302015000000	25
18	10	150	ZX0302018000000	26
22	10	100	ZX0302022000000	27
28	10	100	ZX0302028000000	28
35	5	40	ZX0302035000000	44
42	5	20	ZX0302042000000	54
54	1	30	ZX0302054000000	63

The big-size, item AX0302, is available. See at page 113 - Big-size, Artikel AX0302, ist verfügbar. Bitte sehen Sie Seite 113.



Art. ZX0273

PN16 flanged joint.

Flanschadapter I PN16.

Joint avec bride F PN16.

Manguito bridado H PN16.

Муфта фланцевая В PN16.

PATENTED








d	BAG	MASTER BOX	CODE	A	D1	H	K	M	ZA
22	1	10	ZX0273022000000	46,5	105	12	75	14	22,5
28	1	5	ZX0273028000000	49	115	14	85	14	24
35	1	5	ZX0273035000000	49	140	15	100	18	23
42	1	3	ZX0273042000000	61,5	150	16	110	18	20,5
54	1	2	ZX0273054000000	65,5	165	18	125	18	20,5

The big-size, item AX0273, is available. See at page 110 - Big-size, Artikel AX0273, ist verfügbar. Bitte sehen Sie Seite 110.








**Art. ZX0015
AX0015**

-  M/M 15° bend.
-  Gebogene Rohrstücke A/A 15°.
-  Courbe 15° M/M.
-  Curva 15° M/M.
-  Угол 15° H-H.

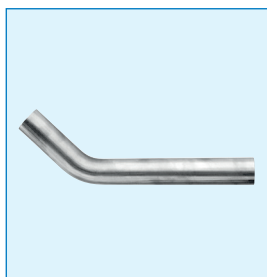
SEE AT PAGE 114 - BITTE SEHEN SIE SEITE 114 - VOIR PAGE 114 - VER A LA PAGINA 114 - CM. СТРАНИЦУ 114








**Art. ZX0030
AX0030**

-  M/M 30° bend.
-  Gebogene Rohrstücke A/A 30°.
-  Courbe 30° M/M.
-  Curva 30° M/M.
-  Угол 30° H-H.

SEE AT PAGE 114 - BITTE SEHEN SIE SEITE 114 - VOIR PAGE 114 - VER A LA PAGINA 114 - CM. СТРАНИЦУ 114








**Art. ZX0045
AX0045**

-  M/M 45° bend.
-  Gebogene Rohrstücke A/A 45°.
-  Courbe 45° M/M.
-  Curva 45° M/M.
-  Угол 45° H-H.

SEE AT PAGE 115 - BITTE SEHEN SIE SEITE 115 - VOIR PAGE 115 - VER A LA PAGINA 115 - CM. СТРАНИЦУ 115








**Art. ZX0060
AX0060**

-  M/M 60° bend.
-  Gebogene Rohrstücke A/A 60°.
-  Courbe 60° M/M.
-  Curva 60° M/M.
-  Угол 60° H-H.

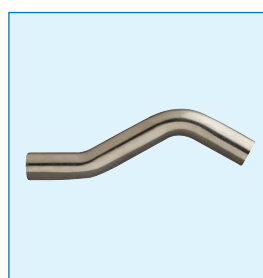
SEE AT PAGE 115 - BITTE SEHEN SIE SEITE 115 - VOIR PAGE 115 - VER A LA PAGINA 115 - CM. СТРАНИЦУ 115



**Art. ZX0075
AX0075**

-  M/M 75° bend.
-  Gebogene Rohrstücke A/A 75°.
-  Courbe 75° M/M.
-  Curva 75° M/M.
-  Угол 75° H-H.

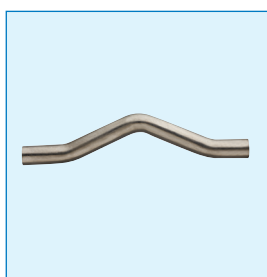
SEE AT PAGE 115 - BITTE SEHEN SIE SEITE 115 - VOIR PAGE 115 - VER A LA PAGINA 115 - CM. СТРАНИЦУ 115








Art. ZX0084

-  Partial crossover M/M.
-  Überbogen kurz A/A.
-  Clarinette M/M.
-  Desviación corta M/M.
-  Обвод короткий H-H.

SEE AT PAGE 116 - BITTE SEHEN SIE SEITE 116 - VOIR PAGE 116 - VER A LA PAGINA 116 - CM. СТРАНИЦУ 116








Art. ZX0087

-  Full crossover M/M.
-  Überbogen lang A/A.
-  Chapeau de gendarme M/M.
-  Desviación larga M/M.
-  Обвод длинный H-H.

SEE AT PAGE 116 - BITTE SEHEN SIE SEITE 116 - VOIR PAGE 116 - VER A LA PAGINA 116 - CM. СТРАНИЦУ 116



Art. ZX0090

-  M/M 90° bend.
-  Gebogene Rohrstücke A/A 90°.
-  Courbe 90° M/M.
-  Curva 90° M/M.
-  Угол 90° H-H.

SEE AT PAGE 116 - BITTE SEHEN SIE SEITE 116 - VOIR PAGE 116 - VER A LA PAGINA 116 - CM. СТРАНИЦУ 116



1. Introduction

FRABOPRESS 316 M, with Securfrabo security system, is a patented system of AISI 316L austenitic stainless steel pipes and fittings (material nr.1.4404), available in a dimensional range between 15 and 108 mm. The fittings feature a **M-type pressing profile**. The EPDM sealing gasket is equipped with Securfrabo system for detecting leaks from fittings, which are not pressed. Mixed connection fittings to other systems are made using AISI 316L austenitic stainless steel threaded parts with press ends. The threads comply with UNI EN 10226-1 standard.

1. Einführung

FRABOPRESS 316 M mit Securfrabo ist ein System bestehend aus austenitischen Edelstahlrohren und -Pressfittings in AISI 316L (W. 1.4404), welches im Abmessungsbereich von 15 bis 108 mm erhältlich ist. **M-Profil**. Die Dichtung besteht aus EPDM und ist mit dem Securfrabo-System zur Erkennung von Undichtigkeiten an nicht gepressten Verbindungen ausgestattet. Die Gewindeanschlüsse zum Anschluss an andere Systeme werden aus Edelstahl AISI 316L hergestellt. Die Gewinde entsprechen der UNI EN 10226-1.

1. Présentation

FRABOPRESS 316 M, avec système de sécurité Securfrabo, est un système breveté constitué par des tubes et des raccords à sertir en acier inoxydable austénitique AISI 316L (n° de matériau 1.4404) disponible dans la gamme dimensionnelle entre 15 et 108 mm. Les raccords ont un **profil** de sertissage de type **M**. Le joint d'étanchéité est en EPDM et est équipé du système Securfrabo pour la détection des fuites des raccords non sertis. Les raccords filetés, conformes à la norme UNI EN 10226-1, sont réalisés avec des parties filetées en acier inox austénitique AISI 316L avec terminaisons à sertir.

1. Presentación

FRABOPRESS 316 M, con sistema de seguridad Securfrabo, es un sistema patentado constituido por tubería y racores para prensar de acero inoxidable austenítico AISI 316L (n° material 1.4404) disponible en la gama dimensional desde 15 hasta 108 mm. Los racores tienen un **perfil** de tipo **M**. La junta tórica es de EPDM y equipada con el sistema Securfrabo para detectar las fugas si la conexión no se ha prensado. Las terminaciones roscadas de conexión con otros sistemas, que cumplen con la norma UNI EN 10226-1, se realizan con piezas de acero inoxidable austenítico AISI 316L con extremidad para prensar.

1. Описание

FRABOPRESS 316 M с системой безопасности Securfrabo представляет собой систему из труб и пресс-фитингов из аустенитной нержавеющей стали AISI 316L (нержавеющая сталь 1.4404), с размерным рядом от 15 до 108 мм. Пресс-фитинги имеют **M профиль**.

Уплотнительная прокладка из EPDM снабжена системой Securfrabo для выявления протечек на неопрессованных фитингах. Фитинги выполнены из аустенитной нержавеющей стали AISI 316L с пресс-соединением на патрубке. Резьба соответствует UNI EN 10226-1.

2. Advantages

- Safety: in fittings with dimensions between 15 and 54 mm, thanks to Securfrabo **security system**, it is possible to find immediately a leakage of an unpressed fitting during the pressure test.
- Easy and quick installation, typical of pressing technique.
- Maximum corrosion resistance.
- Excellent hydraulic and mechanical seal.

2. Vorteile

- Sicherheit: Securfrabo-**Sicherheitssystem** welches versehentliche nicht gepresst Stellen bei der Druckprobe signalisiert (15-54 mm).
- Einfache und schnelle Installation.
- Korrosionsbeständigkeit, Hygiene und Zuverlässigkeit.
- Hohe hydraulische und mechanische Abdichtung.

2. Avantages

- Sécurité: grâce au **système de sécurité** Securfrabo (pour les dimensions entre 15 et 54 mm), il est possible de détecter la fuite du fluide dans la phase de test de l'installation, si le raccord n'a pas été sertit.

- Facilité et rapidité d'installation, typiques de la technique de jonction à sertir.
- Résistance à la corrosion, hygiène et fiabilité.
- Grande étanchéité hydraulique et mécanique.

2. Ventajas

- Seguridad: por los diámetros desde 15 hasta 54 mm, el **sistema de seguridad** Securfrabo permite detectar una fuga de fluido durante la prueba de la instalación, si la conexión no se ha prensado.
- Facilidad y velocidad de instalación, típicas de las conexiones para prensar.
- Resistencia a la corrosión, higiene y fiabilidad.
- Estanqueidad idrúlica y mecánica elevada.

2. Преимущества

- Безопасность: благодаря **системе безопасности** Securfrabo, у фитингов с размерами от 15 до 54 мм возможно обнаружение протечки в момент испытания системы, в случае, если фитинг не был опрессован.
- Простота и скорость монтажа, характерные для техники выполнения пресс-соединений.
- Антикоррозийная устойчивость, гигиеничность и надежность.
- Повышенная гидравлическая и механическая герметичность.

3. Applications

FRABOPRESS 316 M series has a wide range of applications: it is perfect for drinking water supply and distribution systems, treated water and rainwater systems, compressed-air systems, heating and cooling installations and firefighting systems. Thanks to the choice of AISI 316L austenitic stainless steel, this range is suitable for marine installations and for particularly aggressive environments too. **In solar or steam applications, it is necessary to use the specific green FKM gasket.**

3. Anwendungsbereiche

Die FRABOPRESS 316 M Serie ist ideal für die Herstellung von Trinkwasserversorgungs- und Verteilungssystemen, Heiz- und Kühlsystemen, Systeme für aufbereitetes Wasser und Regenwasser, Druckluftsystemen und Brandschutzsystemen. Der AISI 316L austenitische Stahl eignet sich auch für den Schiffsbaubereich.

Für Anwendungen in Solar- und Dampfanlagen muss der grüne FKM-O-Ring verwendet werden.

3. Champs d'emploi

La gamme FRABOPRESS 316 M est idéal pour réaliser des installations d'adduction et de distribution d'eau potable de chauffage et de refroidissement, de transport d'eaux traitées et de pluie, systèmes d'air comprimé et de protection contre les incendies. Les raccords de cette gamme sont produits en acier inoxydable austénitique AISI 316L, donc ils sont adaptés aux systèmes navals et aussi aux environnements particulièrement agressifs. **Pour les applications solaires et à vapeur, il est nécessaire d'utiliser le joint torique vert en FKM.**

3. Aplicaciones

Los racores FRABOPRESS 316 M son ideales para instalaciones de distribución y aducción de agua, sistemas de calefacción y de refrigeración, instalaciones que transportan aguas tratadas o de lluvia, sistemas de aire comprimido o de protección contra incendios. Gracias a la selección de material, el acero austenítico AISI 316L, esta gama es apta también por sistemas navales.

Para aplicaciones solares y de vapor es necesario utilizar la junta tórica de FKM verde.

3. Области применения

Фитинги серии FRABOPRESS 316 M подходят для широкого спектра применения: они находят свое идеальное место в системах подачи и распределения питьевой воды, системах транспортировки обработанной и дождевой воды, системах сжатого воздуха, отопления и охлаждения, противопожарных системах. Фитинги произведены из аустенитной нержавеющей стали AISI 316L и подходят для использования в инженерных системах в кораблестроении и особо агрессивных средах.

При применении фитингов в системах на солнечных коллекторах и на пару, необходимо использовать кольцевую прокладку из эластомера FKM зеленого цвета.



DRINKING WATER



HEATING



HVAC



COMPRESSED AIR



FIREFIGHTING



MARINE



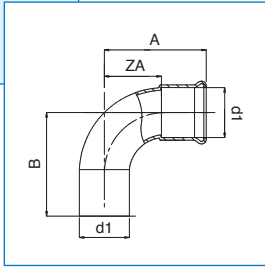
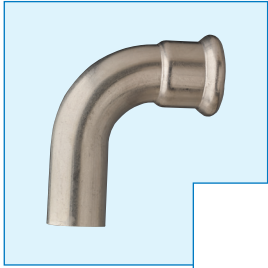
STEAM








SOLAR



INDUSTRIAL



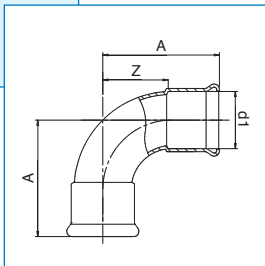
Art. **MX0001**
AX0001

-  M/F 90° elbow.
-  Bogen 90° I/A.
-  Courbe 90° M/F.
-  Curva 90° M/H.
-  Угол 90° H-B.

PATENTED



d1	BAG	MASTER BOX	CODE	A	B	ZA
15	10	100	MX0001015015000	39	45	19,5
18	10	100	MX0001018018000	43	49	23,5
22	10	70	MX0001022022000	48	54	25,5
28	5	40	MX0001028028000	57	63	34,5
35	5	25	MX0001035035000	68	74	42,5
42	1	10	MX0001042042000	83	89	53,5
54	1	4	MX0001054054000	102	108	67,5
76,1	1	5	AX0001076076000	148	154	93
88,9	1	4	AX0001089089000	174	190	111
108	1	2	AX0001108108000	215	238	138



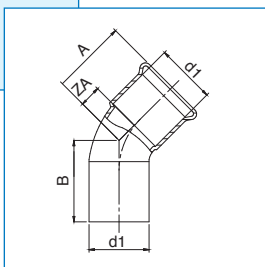
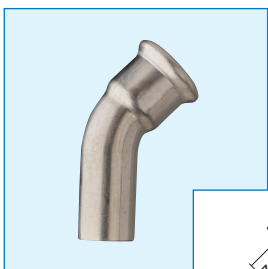
Art. **MX0002**
AX0002

-  F/F 90° elbow.
-  Bogen 90° I/I.
-  Courbe 90° F/F.
-  Curva 90° H/H.
-  Угол 90° B-B.






PATENTED



d1	BAG	MASTER BOX	CODE	A	Z
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18	10	100	MX0002018018000	43	23,5
22	5	50	MX0002022022000	48	25,5
28	5	30	MX0002028028000	57	34,5
35	5	25	MX0002035035000	68	42,5
42	1	10	MX0002042042000	83	53,5
54	1	7	MX0002054054000	102	67,5
76,1	1	5	AX0002076076000	148	93
88,9	1	4	AX0002089089000	174	111
108	1	2	AX0002108108000	215	138



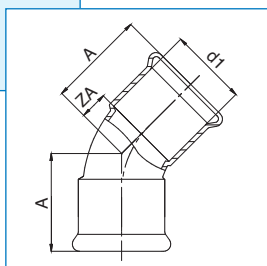
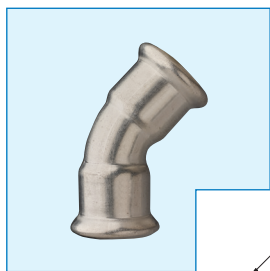
Art. **MX0040**
AX0040

-  M/F 45° elbow.
-  Bogen 45° I/A.
-  Courbe 45° M/F.
-  Curva 45° M/H.
-  Угол 45° H-B.

PATENTED



d1	BAG	MASTER BOX	CODE	A	B	ZA
15	10	40	MX0040015015000	29	30	9,5
18	10	100	MX0040018018000	31	32	11,5
22	10	60	MX0040022022000	34	35	11,5
28	5	40	MX0040028028000	38	39	15,5
35	5	30	MX0040035035000	43	44	17,5
42	1	20	MX0040042042000	53	54	23,5
54	1	10	MX0040054054000	69	70	34,5
76,1	1	5	AX0040076076000	98	117	43
88,9	1	3	AX0040089089000	112	131	49
108	1	3	AX0040108108000	138	154	61



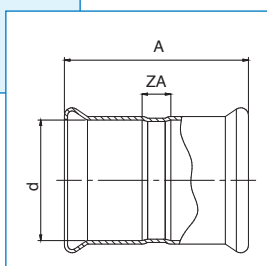
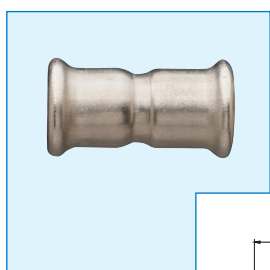
Art. **MX0041** **AX0041**

-  F/F 45° elbow.
-  Bogen 45° I/I.
-  Courbe 45° F/F.
-  Curva 45° H/H.
-  Угол 45° B-B.

PATENTED



d1	BAG	MASTER BOX	CODE	A	ZA
15	10	100	MX0041015015000	29	9,5
18	5	30	MX0041018018000	31	11,5
22	5	50	MX0041022022000	34	11,5
28	5	40	MX0041028028000	38	15,5
35	5	40	MX0041035035000	43	17,5
42	1	20	MX0041042042000	53	23,5
54	1	5	MX0041054054000	69	34,5
76,1	1	5	AX0041076076000	98	43
88,9	1	6	AX0041089089000	112	49
108	1	2	AX0041108108000	138	61



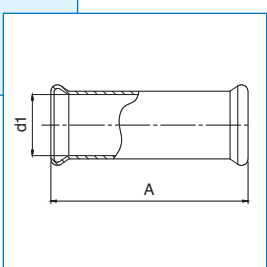
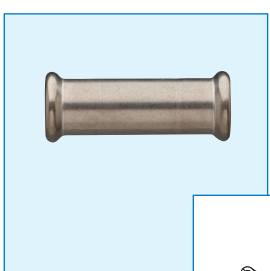
Art. **MX0270** **AX0270**

-  F/F coupling.
-  Muffe I/I.
-  Manchon avec flexion F/F.
-  Manguito con remante H/H.
-  Муфта с упором B-B.

PATENTED



d	BAG	MASTER BOX	CODE	A	ZA
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18	10	100	MX0270018018000	48	9
22	5	30	MX0270022022000	50	5
28	5	40	MX0270028028000	54	9
35	5	35	MX0270035035000	62	11
42	1	25	MX0270042042000	73	14
54	1	15	MX0270054054000	85	16
76,1	1	5	AX0270076076000	152	50
88,9	1	5	AX0270089089000	175	54
108	1	5	AX0270108108000	204	66



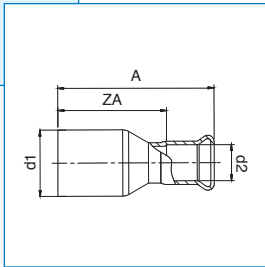
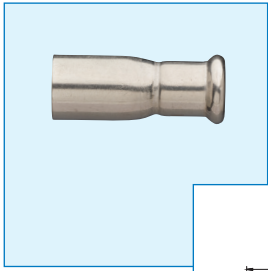
Art. **MX0271** **AX0271**

-  F/F slip coupling.
-  Schiebemuffe I/I.
-  Manchon coulissant F/F.
-  Manguito de paso H/H.
-  Муфта проходная B-B.

PATENTED



d1	BAG	MASTER BOX	CODE	A
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18	10	40	MX0271018018000	80
22	5	30	MX0271022022000	85
28	5	30	MX0271028028000	95
35	5	30	MX0271035035000	105
42	1	10	MX0271042042000	120
54	1	15	MX0271054054000	135
76,1	1	5	AX0271076076000	242
88,9	1	1	AX0271089089000	272
108	1	3	AX0271108108000	324



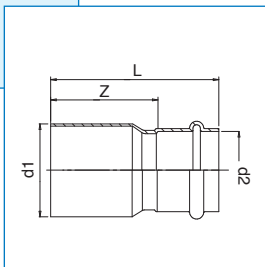
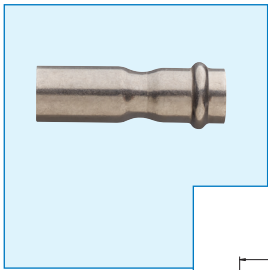
Art. **MX0243**
AMX243
AX0243

-  M/F reducer.
-  Reduzierstück I/A.
-  Réduction M/F.
-  Reducción M/H.
-  Муфта редуционная Н-В.

PATENTED

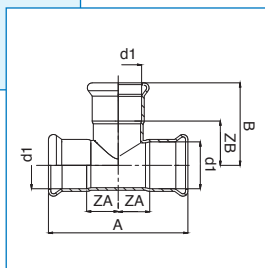
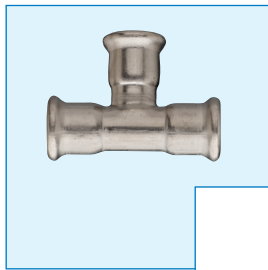


d1xd2	BAG	MASTER BOX	CODE	A	ZA
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22x15	10	150	MX0243022015000	60	40,5
22x18	10	40	MX0243022018000	60	40,5
28x15	5	30	MX0243028015000	68	48,5
28x18	5	70	MX0243028018000	68	48,5
28x22	5	50	MX0243028022000	63	40,5
35x18	5	20	MX0243035018000	77	57,5
35x22	5	50	MX0243035022000	70	47,5
35x28	5	50	MX0243035028000	67	44,5
42x18	5	50	MX0243042018000	86	66,5
42x22	5	50	MX0243042022000	86	63,5
42x28	5	30	MX0243042028000	82	59,5
42x35	5	35	MX0243042035000	76	50,5
54x22	5	20	MX0243054022000	99	76,5
54x28	5	20	MX0243054028000	96	73,5
54x35	1	15	MX0243054035000	94	68,5
54x42	1	15	MX0243054042000	95	65,5
76,1x42	1	10	AMX243076042000	151	119
76,1x54	1	10	AMX243076054000	140	103
88,9x54	1	4	AMX243089054000	154	119
88,9x76,1	1	5	AX0243089076000	182	127
108x54	1	6	AMX243108054000	204	167
108x76,1	1	2	AX0243108076000	265	210
108x88,9	1	5	AX0243108089000	249,5	189,5



d1xd2	BAG	MASTER BOX	CODE	L	Z
76,1x42*	1	10	AX0243076042000	149,5	108,5
76,1x54*	1	10	AX0243076054000	152,5	107,5
88,9x54*	1	4	AX0243089054000	194	149
108x54*	1	6	AX0243108054000	260	215

* V profile - V-Profil.



Art. **MX0130**
AX0130

-  F/F/F tee.
-  T-Stück I/I/I.
-  Té F/F/F.
-  T H/H/H.
-  Тройник В-В-В.

PATENTED



d1	BAG	MASTER BOX	CODE	A	B	ZA	ZB
15	5	40	MX0130015015015	68	34	14,5	14,5
18	5	50	MX0130018018018	70	35	15,5	15,5
22	5	30	MX0130022022022	79	39,5	17	17
28	5	20	MX0130028028028	92	46	23,5	23,5
35	1	15	MX0130035035035	106	53	27,5	27,5
42	1	10	MX0130042042042	124	62	32,5	32,5
54	1	5	MX0130054054054	146	73	38,5	38,5
76,1	1	5	AX0130076076076	242	121,5	66	66,5
88,9	1	3	AX0130089089089	272	133	76	73
108	1	1	AX0130108108108	324	165	92	95

Art. **MX0131**
AMX131
AX0131

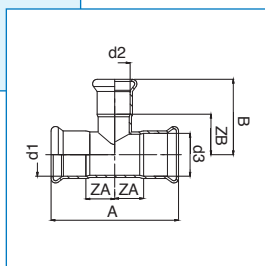
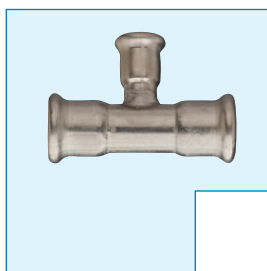
 F/F/F reducing tee.

 T-Stück reduziert I/I/I.

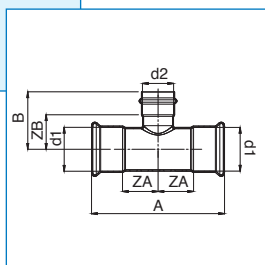
 Té réduit F/F/F.

 T reducido H/H/H.

 Тройник уменьшенного размера В-В-В.

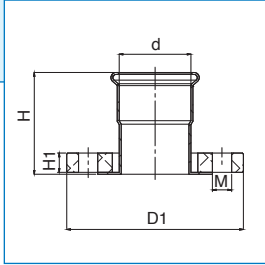
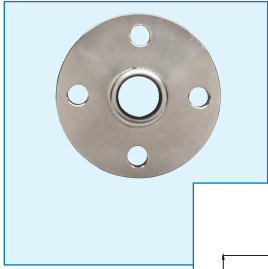


d1xd2xd3	BAG	MASTER BOX	CODE	A	B	ZA	ZB
18x15x15	5	30	MX0131018015015	78	39	19,5	19,5
18x15x18	5	30	MX0131018015018	96	56	28,5	36,5
22x15x22	5	40	MX0131022015022	98	48	26,5	28,5
22x18x22	5	25	MX0131022018022	98	51	26,5	31,5
28x15x28	5	15	MX0131028015028	112	61	33,5	41,5
28x18x28	5	15	MX0131028018028	94	47	24,5	24,5
28x22x22	5	15	MX0131028022022	112	54	33,5	34,5
28x22x28	5	15	MX0131028022028	112	54	33,5	34,5
35x15x35	1	15	MX0131035015035	136	65	42,5	45,5
35x18x35	1	15	MX0131035018035	132	60	40,5	40,5
35x22x35	1	10	MX0131035022035	132	59	40,5	36,5
35x28x35	1	15	MX0131035028035	132	62	40,5	39,5
42x18x42	1	10	MX0131042018042	156	62	48,5	42,5
42x22x42	1	8	MX0131042022042	156	63	48,5	40,5
42x28x42	1	6	MX0131042028042	156	75	48,5	52,5
42x35x42	1	5	MX0131042035042	156	75	48,5	49,5
54x18x54	1	5	MX0131054018054	184	65	57,5	45,5
54x22x54	1	5	MX0131054022054	184	67	57,5	44,5
54x28x54	1	5	MX0131054028054	184	72	57,5	49,5
54x35x54	1	5	MX0131054035054	184	90	57,5	64,5
54x42x54	1	5	MX0131054042054	184	109	57,5	79,5
76,1x22x76,1	1	5	AMX131076022076	242	79	66	56
76,1x28x76,1	1	7	AMX131076028076	242	81	66	58
76,1x35x76,1	1	5	AMX131076035076	242	84	66	58
76,1x42x76,1	1	5	AMX131076042076	242	87	66	56
76,1x54x76,1	1	5	AMX131076054076	242	96	66	61
88,9x22x88,9	1	3	AMX131089022089	272	86	76	85
88,9x28x88,9	1	2	AMX131089028089	272	88	76	63
88,9x35x88,9	1	2	AMX131089035089	272	91	76	65
88,9x42x88,9	1	4	AMX131089042089	272	94	76	62
88,9x54x88,9	1	4	AMX131089054089	272	103	76	68
88,9x76,1x88,9	1	3	AX0131089076089	272	128	76	73
108x22x108	1	2	AMX131108022108	324	95	92	73
108x28x108	1	2	AMX131108028108	324	97	92	74
108x35x108	1	2	AMX131108035108	324	100	92	74
108x42x108	1	2	AMX131108042108	324	103	92	72
108x54x108	1	2	AMX131108054108	324	112	92	77
108x76,1x108	1	2	AX0131108076108	324	137,5	92	82,5
108x88,9x108	1	2	AX0131108089108	324	142,5	92	82,5



d1xd2xd1	BAG	MASTER BOX	CODE	A	B	ZA	ZB
76,1x22*x76,1	1	5	AX0131076022076	152	80,5	25	56,5
76,1x28*x76,1	1	7	AX0131076028076	152	83	25	58
76,1x35*x76,1	1	5	AX0131076035076	242	84	66	58
76,1x42*x76,1	1	5	AX0131076042076	242	91,5	66	55,5
76,1x54*x76,1	1	5	AX0131076054076	242	101	66	61
88,9x22*x88,9	1	3	AX0131089022089	175	87	27	63
88,9x28*x88,9	1	2	AX0131089028089	175	89,5	27	64,5
88,9x35*x88,9	1	2	AX0131089035089	272	90,5	76	64,5
88,9x42*x88,9	1	4	AX0131089042089	272	98	76	62
88,9x54*x88,9	1	4	AX0131089054089	272	107,5	76	67,5
108x22*x108	1	2	AX0131108022108	204	96,5	33	73,5
108x28*x108	1	2	AX0131108028108	204	99	33	74
108x35*x108	1	2	AX0131108035108	324	100	92	74
108x42*x108	1	2	AX0131108042108	324	107,5	92	71,5
108x54*x108	1	2	AX0131108054108	324	117	92	77

* V profile - V-Profil.



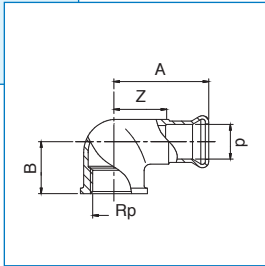
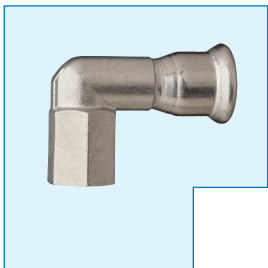
Art. **MX0273** **AX0273**

-  F PN16 flanged joint.
-  Flanschadapter I PN16.
-  Joint avec bride F PN16.
-  Manguito bridado H PN16.
-  Муфта фланцевая В PN16.

PATENTED



d	BAG	MASTER BOX	CODE	D1	H	H1	M
22	1	10	MX0273022000000	105	59	12	14
28	1	5	MX0273028000000	114	65	14	14
35	1	5	MX0273035000000	140	70	15	18
42	1	3	MX0273042000000	150	77	16	18
54	1	2	MX0273054000000	165	86	18	18
76,1	1	3	AX0273076000000	185	126	18	18
88,9	1	2	AX0273089000000	200	147	20	18
108	1	2	AX0273108000000	220	167	20	18



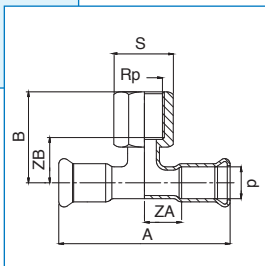
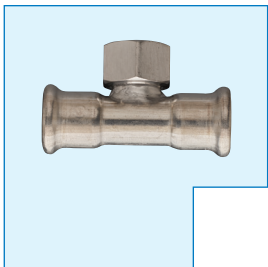
Art. **MX0F90**

-  F/female thread elbow.
-  Bogen I mit I Gewinde.
-  Coude F/filetage femelle.
-  Codo mixto H/rosca hembra.
-  Угол B-B(Rp).

PATENTED



Rpxd	BAG	MASTER BOX	CODE	A	B	Z
1/2"x15	5	50	MX0F90A12015000	46	31	27
1/2"x18	5	100	MX0F90A12018000	47	32	28
1/2"x22	5	75	MX0F90A12022000	48	32	27
3/4"x22	5	20	MX0F90A34022000	52	35	31
3/4"x28	5	20	MX0F90A34028000	52	38	28
1"x28	5	30	MX0F90B01028000	56	38	34



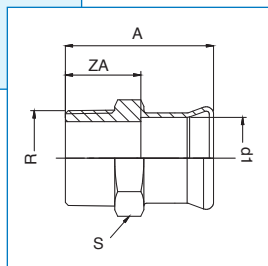
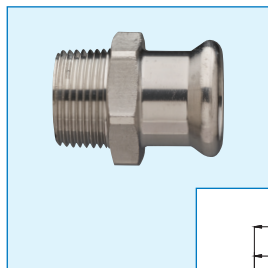
Art. **MXF130** **AXF130**

-  F/female thread/F tee.
-  T-Stück I mit I Gewinde.
-  Té F/filetage femelle/F.
-  T H/rosca hembra/H.
-  Тройник B-B(Rp)-B.

PATENTED



Rpxd	BAG	MASTER BOX	CODE	A	B	S	ZA	ZB
1/2"x15	5	50	MXF130015A12015	74	39	26	17,5	-
1/2"x18	5	30	MXF130018A12018	80	37	26	20,5	-
1/2"x22	5	25	MXF130022A12022	82	39	26	18,5	-
1/2"x28	5	25	MXF130028A12028	92	37	26	23,5	-
1/2"x35	5	10	MXF130035A12035	102	43	26	25,5	-
1/2"x42	1	5	MXF130042A12042	140	47	26	40,5	-
1/2"x54	1	5	MXF130054A12054	154	53	26	37,5	-
3/4"x18	5	50	MXF130018A34018	80	39	31	20,5	-
3/4"x22	5	25	MXF130022A34022	82	41	31	18,5	-
3/4"x28	5	15	MXF130028A34028	92	45	31	23,5	-
3/4"x35	1	10	MXF130035A34035	102	49	31	25,5	-
3/4"x42	1	5	MXF130042A34042	118	52	31	29,5	-
3/4"x54	1	5	MXF130054A34054	140	58	31	30,5	-
3/4"x76,1	1	8	AXF130076A34076	152	69	-	25	51
3/4"x88,9	1	5	AXF130089A34089	175	76	-	27	58
3/4"x108	1	3	AXF130108A34108	204	85	-	33	67
1"x28	5	15	MXF130028B01028	92	46	37	23,5	-
1"1/4x35	1	10	MXF130035B14035	102	55	48	25,5	-
1"1/2x42	1	5	MXF130042B12042	118	58	54	29,5	-
2"x54	1	4	MXF130054C02054	140	68	67	30,5	-
2"x76,1	1	4	AXF130076C02076	152	75	-	25	52
2"x88,9	1	5	AXF130089C02089	175	82	-	27	59
2"x108	1	3	AXF130108C02108	204	91	-	33	68



Art. MXF243 AXF243

F/male thread adapter.

Übergangsstück I mit A Gewinde.

Manchon F/filetage mâle.

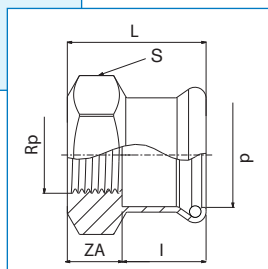
Manguito mixto H/rosca macho.

Муфта B-H(R).

PATENTED



Rxd1	BAG	MASTER BOX	CODE	A	S	ZA
1/2"x15	10	50	MXF243A12015000	43	25	21,5
1/2"x18	10	150	MXF243A12018000	44	25	21,5
1/2"x22	5	100	MXF243A12022000	45	32	21,5
3/4"x18	10	30	MXF243A34018000	45	32	22,5
3/4"x22	10	100	MXF243A34022000	46	32	22,5
3/4"x28	5	70	MXF243A34028000	57	32	32,5
1"x22	10	50	MXF243B01022000	55	38	31,5
1"x28	5	50	MXF243B01028000	57	38	32,5
1"x35	5	40	MXF243B01035000	60	38	34,5
1"1/4x35	5	40	MXF243B14035000	60	50	34,5
1"1/4x42	1	25	MXF243B14042000	-	-	-
1"1/2x35	1	40	MXF243B12035000	62	55	36,5
1"1/2x42	1	20	MXF243B12042000	72	55	36,5
1"1/2x54	1	20	MXF243B12054000	68,5	65	33,5
2"x54	1	15	MXF243C02054000	83	64	43,5
2"1/2x76,1	1	8	AXF243C12076000	128	86	73
3"x88,9	1	5	AXF243D03089000	141,5	98	81,5
4"x108	1	3	AXF243E04108000	169	122	99



Art. MXF270 AXF270

F/female thread adapter.

Übergangsstück I mit I Gewinde.

Manchon F/filetage femelle.

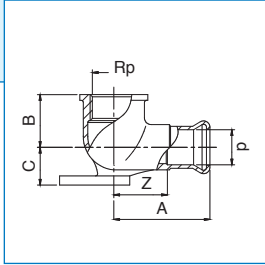
Manguito mixto H/rosca hembra.

Муфта B-B(Rp).

PATENTED



Rpxd	BAG	MASTER BOX	CODE	I	L	S	ZA
1/2"x15	10	150	MXF270A12015000	19	36	27	17
1/2"x18	10	40	MXF270A12018000	19	36	27	17
1/2"x22	10	100	MXF270A12022000	22	37	32	15
3/4"x18	10	100	MXF270A34018000	19	38	32	19
3/4"x22	10	100	MXF270A34022000	22	41	32	19
3/4"x28	5	50	MXF270A34028000	22	37	38	15
1"x22	5	50	MXF270B01022000	22	43	38	21
1"x28	5	50	MXF270B01028000	22	43	38	21
1"x35	5	20	MXF270B01035000	25	81	45	56
1"1/4x35	1	30	MXF270B14035000	25	72	50	47
1"1/2x42	1	20	MXF270B12042000	29	74	55	45
2"x54	1	10	MXF270C02054000	34	84	70	50
2"1/2x76,1	1	8	AXF270C12076000	55	114	86	59
3"x88,9	1	5	AXF270D03089000	60	123,5	98	63
4"x108	1	3	AXF270E04108000	70	153	122	83



Art. MXF472

F/female thread elbow with wallplate.

PATENTED

Wandscheibe I mit I Gewinde.

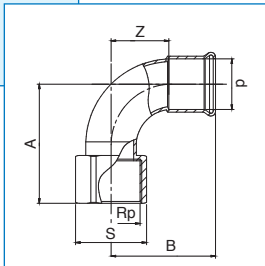
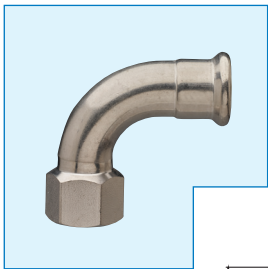
Applique coude F/filetage femelle.

Codo mixto H/rosca hembra con brida.

Угол с фланцем В-В(Rp).



Rpxd	BAG	MASTER BOX	CODE	A	B	C	Z
1/2"x15	5	70	MXF472A12015000	46	31	12	26,5
1/2"x18	5	50	MXF472A12018000	47	32	13	27,5
1/2"x22	5	30	MXF472A12022000	48	32	13	25,5
3/4"x22	5	40	MXF472A34022000	52	35	16	29,5
1"x28	5	10	MXF472B01028000	56	38	21	33,5



Art. MXF90L

F/female thread 90° elbow.

PATENTED

Bogen 90° I mit I Gewinde.

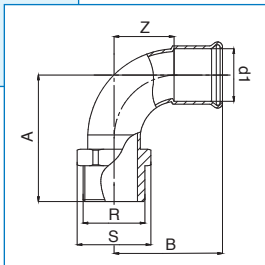
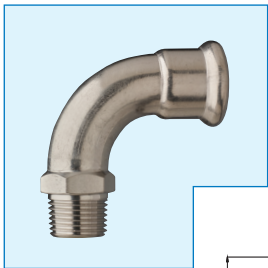
Coude 90° F/filetage femelle.

Curva mixta 90° H/rosca hembra.

Угол 90° B-B(Rp).



Rpxd	BAG	MASTER BOX	CODE	A	B	S	Z
1/2"x15	5	30	MXF90LA12015000	42	45	24	23,5
1/2"x18	5	30	MXF90LA12018000	45	49	24	26,5
1/2"x22	5	30	MXF90LA12022000	45	49	24	26,5
3/4"x22	5	50	MXF90LA34022000	51	54	30	30,5
1"x28	5	15	MXF90LB01028000	61	63	36	38,5
1"1/4x35	1	10	MXF90LB14035000	69	74	50	48,5



Art. MXF92L

F/male thread 90° elbow.

PATENTED

Bogen 90° I mit A Gewinde.

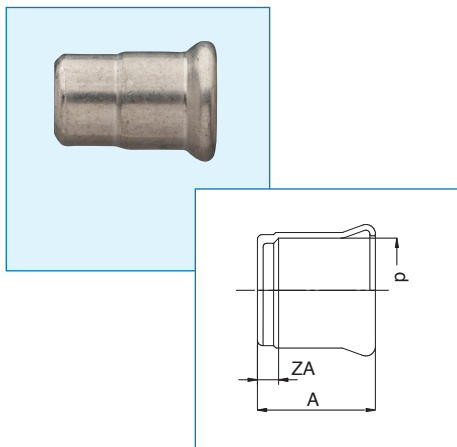
Coude 90° F/filetage mâle.

Curva mixta 90° H/rosca macho.

Угол 90° B-H(R).



Rxd1	BAG	MASTER BOX	CODE	A	B	S	Z
1/2"x15	5	30	MXF92LA12015000	42	45	25	23,5
1/2"x18	5	30	MXF92LA12018000	45	49	24	26,5
1/2"x22	5	30	MXF92LA12022000	45	49	25	26,5
3/4"x22	5	20	MXF92LA34022000	51	54	30	30,5
1"x28	5	15	MXF92LB01028000	61	63	38	38,5
1"1/4x35	1	10	MXF92LB14035000	69	74	45	48,5
1"1/2x42	1	10	MXF92LB12042000	89	89	50	53,5
2"x54	1	5	MXF92LC02054000	144	108	70	68,5



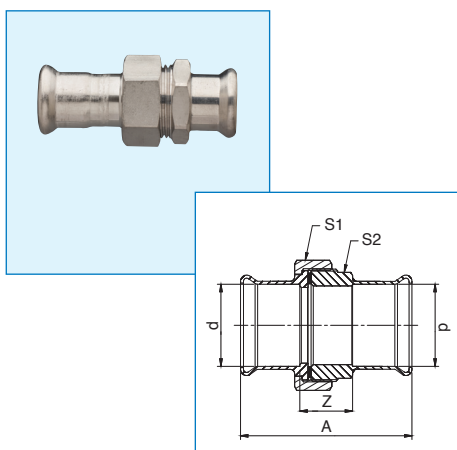
Art. **MX0302** **AX0302**

-  F plug.
-  Kappe I.
-  Bouchon F.
-  Tapón Hembra.
-  Заглушка В.






PATENTED



d	BAG	MASTER BOX	CODE	A	ZA
15	10	200	MX0302015000000	32	12,5
18	10	150	MX0302018000000	32	12,5
22	10	100	MX0302022000000	35	12,5
28	10	100	MX0302028000000	37	14,5
35	5	40	MX0302035000000	43	17,5
42	5	20	MX0302042000000	48	18,5
54	1	30	MX0302054000000	56	21,5
76,1	1	10	AX0302076000000	81	26
88,9	1	5	AX0302089000000	89	29
108	1	6	AX0302108000000	109	39



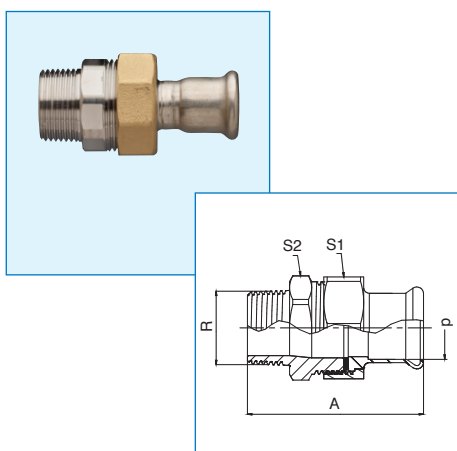
Art. **MX0340**

-  F/F flat seat joint.
-  Rohrverschraubung gerade I/I flachdichtend.
-  Union F/F à joint plat.
-  Unión sede plana H/H.
-  Разъемное соединение с плоским уплотнением В-В.






PATENTED



d	BAG	MASTER BOX	CODE	A	S1	S2	Z
15	5	100	MX0340015015000	85	24	25	46
18	5	100	MX0340018018000	95	30	30	56
22	5	40	MX0340022022000	97	37	34	52
28	5	30	MX0340028028000	91	46	45	46
35	1	20	MX0340035035000	120	52	50	69
42	1	10	MX0340042042000	134	64	60	75
54	1	8	MX0340054054000	144	85	75	75



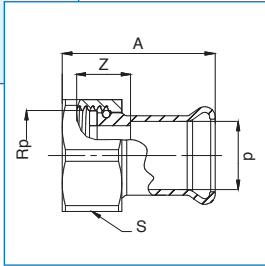
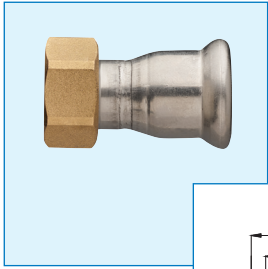
Art. **MXF341**

-  F/male thread flat seat joint.
-  Rohrverschraubung I mit A Gewinde flachdichtend.
-  Union F/filetage mâle à joint plat.
-  Unión H/rosca macho sede plana.
-  Разъемное соединение с плоским уплотнением В-Н(В).






PATENTED



Rxd	BAG	MASTER BOX	CODE	A	S1	S2
1/2"x15	5	50	MXF341A12015000	70	24	27
1/2"x18	5	50	MXF341A12018000	70	30	30
1/2"x22	5	50	MXF341A12022000	78	30	30
3/4"x15	5	50	MXF341A34015000	65	30	30
3/4"x18	5	50	MXF341A34018000	75	30	30
3/4"x22	5	50	MXF341A34022000	82	30	30
1"x22	5	30	MXF341B01022000	77	37	34
1"x28	5	30	MXF341B01028000	77	46	45
1"x1/4x35	1	15	MXF341B14035000	85	52	50
1"x1/2x42	1	15	MXF341B12042000	95	64	60
2"x54	1	8	MXF341C02054000	100	85	75

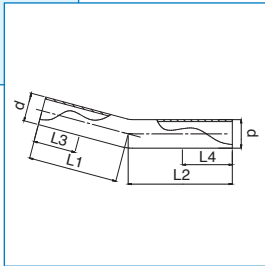
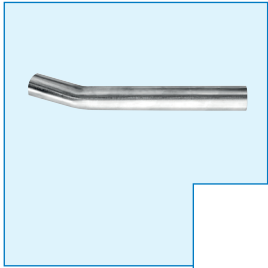


Art. MXF359






-  F/female thread valve connector with a swivel nut in brass.
-  Halbe Verschraubung flachdichtend.
-  Raccord avec écrou en laiton F/filetage femelle.
-  Conexión H/rosca hembra con tuerca giratoria de latón.
-  Соединение с латунной накидной гайкой В-В(Rp).



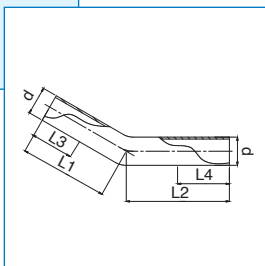
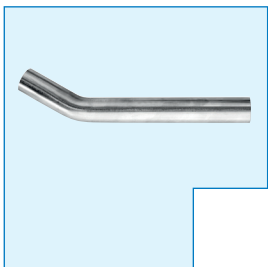
Rpxd	BAG	MASTER BOX	CODE	A	S	Z
1/2"x15	10	50	MXF359A12015000	40	24	20,5
3/4"x15	10	100	MXF359A34015000	28	30	8,5
3/4"x18	5	100	MXF359A34018000	32	30	12,5
3/4"x22	5	50	MXF359A34022000	47	30	24,5
1"x22	5	100	MXF359B01022000	34	37	11,5
1"1/4x28	10	50	MXF359B14028000	31	46	8,5
1"1/2x35	5	20	MXF359B12035000	34	46	8,5
1"3/4x42	5	20	MXF359B34042000	45	58	15,5
2"x42	1	20	MXF359C02042000	48	64	18,5
2"3/8x54	1	10	MXF359C38054000	47	76	12,5
2"1/2x54	1	10	MXF359C12054000	40	85	5,5








Art. ZX0015 AX0015

-  M/M 15° bend.
-  Gebogene Rohrstücke A/A 15°.
-  Courbe 15° M/M.
-  Curva 15° M/M.
-  Угол 15° H-H.

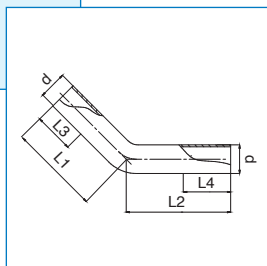
d	BAG	MASTER BOX	CODE	L1	L2	L3 min	L4 min
15		50	ZX0015015015000	60	122	25	25
18		50	ZX0015018018000	55	128	25	25
22		40	ZX0015022022000	50	124	30	30
28		40	ZX0015028028000	45	136	30	30
35		30	ZX0015035035000	62	234	30	30
42		20	ZX0015042042000	94	276	45	45
54		20	ZX0015054054000	117	337	65	65
76,1		2	AX0015076076000	226	230	65	65
88,9		10	AX0015089089000	240	260	80	80
108		1	AX0015108108000	222	291	95	95








Art. ZX0030 AX0030

-  M/M 30° bend.
-  Gebogene Rohrstücke A/A 30°.
-  Courbe 30° M/M.
-  Curva 30° M/M.
-  Угол 30° H-H.

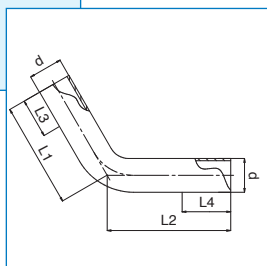
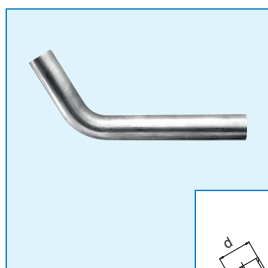
d	BAG	MASTER BOX	CODE	L1	L2	L3 min	L4 min
15	5	100	ZX0030015015000	60	122	25	25
18	10	100	ZX0030018018000	55	128	25	25
22	5	100	ZX0030022022000	50	124	30	30
28	5	20	ZX0030028028000	54	130	30	30
35	5	15	ZX0030035035000	80	218	30	30
42	2	10	ZX0030042042000	98	274	45	45
54	2	10	ZX0030054054000	137	324	65	65
76,1	1	2	AX0030076076000	200	202	65	65
88,9	1	5	AX0030089089000	262	264	80	80
108	1	1	AX0030108108000	259	272	95	95








Art. ZX0045 AX0045

-  M/M 45° bend.
-  Gebogene Rohrstücke A/A 45°.
-  Courbe 45° M/M.
-  Curva 45° M/M.
-  Yron 45° H-H.

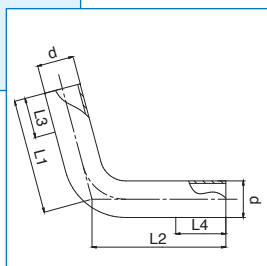
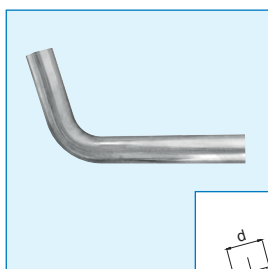
d	BAG	MASTER BOX	CODE	L1	L2	L3 min	L4 min
15	10	40	ZX0045015015000	62	120	25	25
18	10	30	ZX0045018018000	58	124	25	25
22	5	20	ZX0045022022000	56	120	30	30
28	5	15	ZX0045028028000	58	122	30	30
35	5	10	ZX0045035035000	94	206	30	30
42	1	5	ZX0045042042000	114	262	45	45
54	1	5	ZX0045054054000	146	321	65	65
76,1	1	5	AX0045076076000	225	225	65	65
88,9	1	5	AX0045089089000	267	267	80	80
108	1	5	AX0045108108000	293	293	95	95








Art. ZX0060 AX0060

-  M/M 60° bend.
-  Gebogene Rohrstücke A/A 60°.
-  Courbe 60° M/M.
-  Curva 60° M/M.
-  Yron 60° H-H.

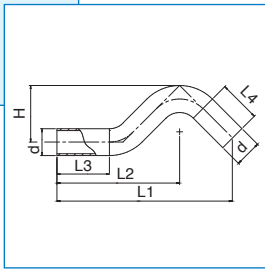
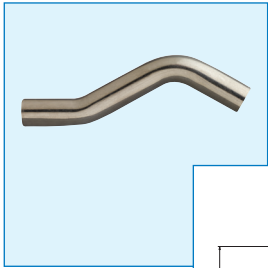
d	BAG	MASTER BOX	CODE	L1	L2	L3 min	L4 min
15	5	30	ZX0060015015000	80	140	30	90
18	5	30	ZX0060018018000	90	140	40	90
22	5	30	ZX0060022022000	100	140	45	90
28	5	20	ZX0060028028000	110	140	50	90
35	5	15	ZX0060035035000	130	170	60	100
42	2	10	ZX0060042042000	170	220	75	120
54	2	10	ZX0060054054000	220	260	100	150
76,1	1	5	AX0060076076000	216	229	65	65
88,9	1	5	AX0060089089000	250	257	80	80
108	1	5	AX0060108108000	288	298	95	95



Art. ZX0075 AX0075

-  M/M 75° bend.
-  Gebogene Rohrstücke A/A 75°.
-  Courbe 75° M/M.
-  Curva 75° M/M.
-  Yron 75° H-H.

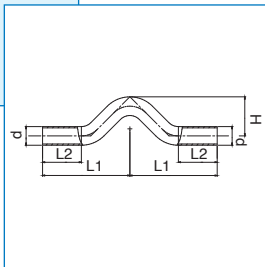
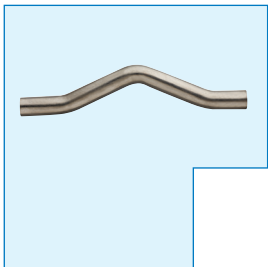
d	BAG	MASTER BOX	CODE	L1	L2	L3 min	L4 min
15	5	30	ZX0075015015000	66	117	25	25
18	5	30	ZX0075018018000	65	120	25	25
22	5	30	ZX0075022022000	64	118	30	30
28	5	20	ZX0075028028000	71	114	30	30
35	5	15	ZX0075035035000	110	200	30	30
42	2	10	ZX0075042042000	137	251	45	45
54	2	10	ZX0075054054000	178	305	65	65
76,1	1	5	AX0075076076000	240	240	65	65
88,9	1	5	AX0075089089000	280	280	80	80
108	1	5	AX0075108108000	345	345	95	95



Art. ZX0084

-  Partial crossover M/M.
-  Überbogen kurz A/A.
-  Clarinette M/M.
-  Desviación corta M/M.
-  Обвод короткий H-H.

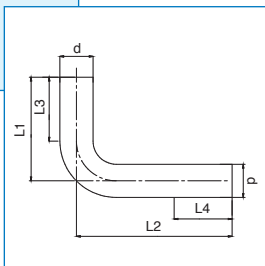
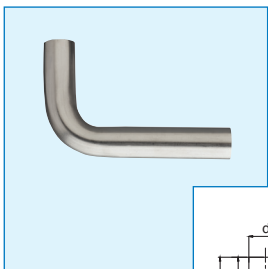
d	BAG	MASTER BOX	CODE	L1	L2	L3	L4	H
15	5	100	ZX0084015015000	135	93	22	22	37
18	5	80	ZX0084018018000	153	115	23	23	37
22	5	20	ZX0084022022000	181	120	24	24	40
28	5	10	ZX0084028028000	241	150	25	25	55








Art. ZX0087

-  Full crossover M/M.
-  Überbogen lang A/A.
-  Chapeau de gendarme M/M.
-  Desviación larga M/M.
-  Обвод длинный H-H.

d	BAG	MASTER BOX	CODE	L1	L2	H
15	5	30	ZX0087015015000	91	22	33
18	5	20	ZX0087018018000	100	23	43
22	5	20	ZX0087022022000	120	24	40
28	5	10	ZX0087028028000	150	25	64



Art. ZX0090

-  M/M 90° bend.
-  Gebogene Rohrstücke A/A 90°.
-  Courbe 90° M/M.
-  Curva 90° M/M.
-  Угол 90° H-H.

d	BAG	MASTER BOX	CODE	L1	L2	L3 min	L4 min
15	10	40	ZX0090015015000	95	120	25	25
18	10	30	ZX0090018018000	40	120	25	25
22	5	20	ZX0090022022000	90	120	30	30
28	5	30	ZX0090028028000	60	80	30	30
35	5	10	ZX0090035035000	60	65	30	30
42	1	5	ZX0090042042000	105	130	45	45
54	1	5	ZX0090054054000	82	82	65	65



1. Introduction

FRABOPRESS 316 GAS V is a system of AISI 316L austenitic stainless steel pipes and fittings (material nr. 1.4404), available in a dimensional range between 15 and 54 mm. The fittings feature a **V-type pressing profile**.

The series complies with the requirements of UNI 11179 class 2. The sealing gasket is in high-quality HNBR.

FRABOPRESS 316 GAS V mixed connection fittings to other systems are made using AISI 316L austenitic stainless steel threaded parts with press ends. The threads comply with UNI EN 10226-1 standard.

1. Einführung

FRABOPRESS 316 GAS V ist ein System bestehend aus Rohren und Pressfittings aus austenitischem Edelstahl AISI 316L (W. 1.4404), welches im Abmessungsbereich von 15 bis 54 mm erhältlich ist. **V-Profil**.

Das FRABOPRESS 316 GAS V System erfüllt die Anforderungen der Normen UNI 11179 Klasse 2.

Die Dichtung besteht aus hochwertigem HNBR.

Die Gewindeanschlüsse zum Anschluss an andere Systeme werden aus Edelstahl AISI 316L hergestellt. Die Gewinde entsprechen der UNI EN 10226-1.

1. Présentation

FRABOPRESS 316 GAS V est un système constitué par des tubes et des raccords à sertir en acier inoxydable austénitique AISI 316L (n° de matériau 1.4404) disponible dans la gamme dimensionnelle entre 15 et 54 mm. Les raccords ont un **profil** de sertissage de type **V**. La gamme FRABOPRESS 316 GAS V est conforme à la norme UNI 11179 classe 2. Le joint torique est réalisé en HNBR de haute qualité. Les raccords filetés sont conformes à la norme UNI EN 10226-1 et ils sont réalisées avec des parties filetées en acier inox austénitique AISI 316L avec terminassions à sertir.

1. Presentación

FRABOPRESS 316 GAS V es un sistema constituido por tubería y racores para prensar de acero inoxidable austenítico AISI 316L (n° material 1.4404) disponible en la gama dimensional desde 15 hasta 54 mm. Los racores tienen un **perfil** de tipo **V**.

La serie FRABOPRESS 316 GAS V cumple con las exigencias de la norma UNI 11179 clase 2. La junta tórica es de HNBR de alta calidad.

Las terminaciones roscadas de conexión con otros sistemas se realizan con piezas de acero inoxidable austenítico AISI 316L con extremidad para prensar. Las roscas cumplen con la norma UNI EN 10226-1.

1. Описание

FRABOPRESS 316 GAS V - система из труб и пресс-фитингов из аустенитной нержавеющей стали AISI 316L (нержавеющая сталь 1.4404), с размерным рядом от 15 е 54 мм. Пресс-фитинги имеют **V профиль**.

Серия FRABOPRESS 316 GAS V соответствует требованиям стандартов UNI 11179 класс 2.

Уплотнительная прокладка выполнена из эластомера HNBR высокого качества.

Резьбовые соединения системы FRABOPRESS 316 GAS V выполнены из аустенитной нержавеющей стали AISI 316L с пресс-соединением на патрубке. Резьба соответствует UNI EN 10226-1.

2. Advantages

- Maximum corrosion resistance.
- Excellent hydraulic and mechanical seal.
- Easy and quick installation.
- Limited thermal expansion of the plant.

2. Vorteile

- Maximale Korrosionsbeständigkeit.
- Hohe hydraulische und mechanische Abdichtung.
- Einfache und schnelle Installation.
- Reduzierte Wärmeausdehnung des Systems.

2. Avantages

- Résistance maximale à la corrosion.
- Grande étanchéité hydraulique et mécanique.
- Facilité et rapidité d'installation.
- Dilatations thermiques de l'installation limitées.

2. Ventajas

- Máxima resistencia a la corrosión.
- Estanqueidad idrúlica y mecánica elevada.
- Facilidad y velocidad de instalación.
- Reducida expansión térmica.

2. Преимущества

- Максимальная устойчивость к коррозии.
- Повышенная гидравлическая и механическая герметичность.
- Быстрый и легкий монтаж.
- Низкое тепловое расширение системы.

3. Applications

FRABOPRESS 316 GAS V range is suitable for gas applications such as domestic methane or LPG installations.

3. Anwendungsbereiche

Die FRABOPRESS 316 GAS V Serie eignet sich für Gasanwendungen wie Haushaltsanlagen zur Verteilung von Methangas- oder LPG-Systemen.

3. Champs d'emploi

La gamme FRABOPRESS 316 GAS V est adaptée aux applications gaz comme, par exemple, les installations domestiques de gaz méthane ou les systèmes de GPL.

3. Aplicaciones

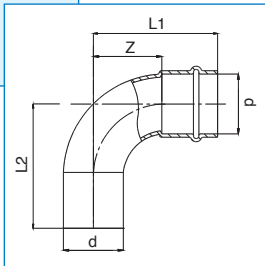
La gama FRABOPRESS 316 GAS V es apta para aplicaciones de gas como, por ejemplo, instalaciones domesticas de distribución de gas metano o GPL.

3. Области применения






Фитинги серии FRABOPRESS 316 GAS V могут применяться для систем газораспределения, таких как бытовые установки распределения природного газа или системы GPL (сжиженного нефтяного газа).



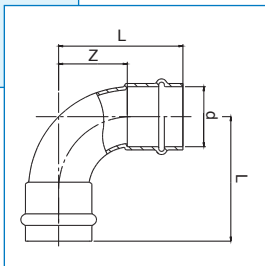
GAS



Art. GX0001

-  M/F 90° elbow.
-  Bogen 90° I/A.
-  Courbe 90° M/F.
-  Curva 90° M/H.
-  Угол 90° H-B.

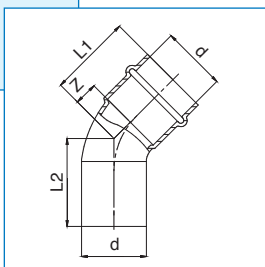
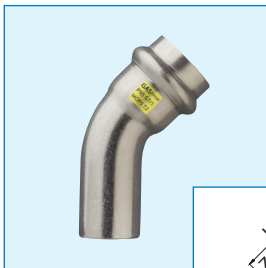
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18	10	100	GX0001018018000	45	47	22
22	5	70	GX0001022022000	51	53	27
28	5	40	GX0001028028000	59	61	34
35	5	10	GX0001035035000	68	70	42
42	1	10	GX0001042042000	87	89	51
54	1	4	GX0001054054000	105	107	65








Art. GX0002

-  F/F 90° elbow.
-  Bogen 90° I/I.
-  Courbe 90° F/F.
-  Curva 90° H/H.
-  Угол 90° B-B.

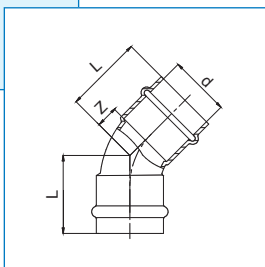
d	BAG	MASTER BOX	CODE	L	Z
15	10	100	GX0002015015000	40	18
18	10	30	GX0002018018000	45	22
22	5	50	GX0002022022000	51	27
28	5	30	GX0002028028000	59	34
35	5	25	GX0002035035000	68	42
42	1	10	GX0002042042000	87	51
54	1	7	GX0002054054000	105	65



Art. GX0040

-  M/F 45° elbow.
-  Bogen 45° I/A.
-  Courbe 45° M/F.
-  Curva 45° M/H.
-  Угол 45° H-B.

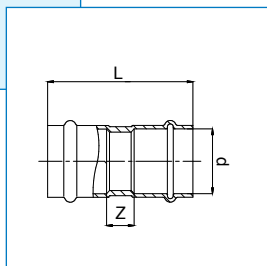
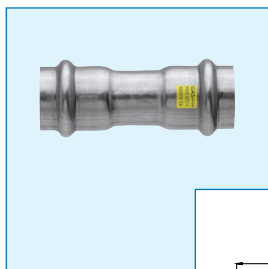
d	BAG	MASTER BOX	CODE	L1	L2	Z
15	10	40	GX0040015015000	29	30	7
18	10	100	GX0040018018000	31	32	8
22	10	60	GX0040022022000	34	35	10
28	5	40	GX0040028028000	38	39	13
35	5	30	GX0040035035000	43	44	17
42	1	20	GX0040042042000	53	54	17
54	1	5	GX0040054054000	69	70	29



Art. GX0041

-  F/F 45° elbow.
-  Bogen 45° I/I.
-  Courbe 45° F/F.
-  Curva 45° H/H.
-  Угол 45° B-B.

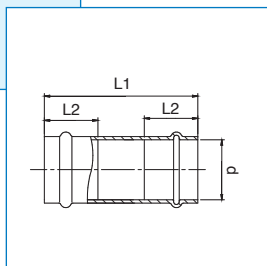
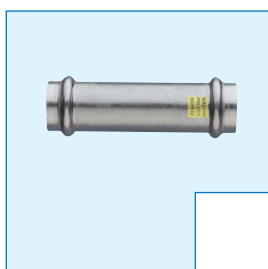
d	BAG	MASTER BOX	CODE	L	Z
15	10	100	GX0041015015000	29	7
18	5	30	GX0041018018000	46	23
22	5	50	GX0041022022000	34	10
28	5	40	GX0041028028000	38	13
35	5	40	GX0041035035000	43	17
42	1	20	GX0041042042000	53	17
54	1	5	GX0041054054000	69	29



Art. GX0270

-  F/F coupling.
-  Muffe I/I.
-  Manchon avec flexion F/F.
-  Manguito con remante H/H.
-  Муфта с упором В-В.

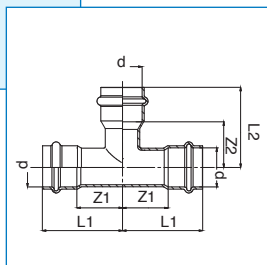
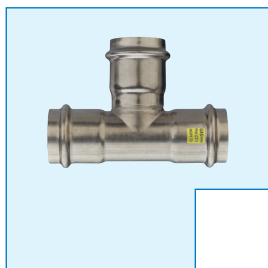
d	BAG	MASTER BOX	CODE	L	Z
15	10	150	GX0270015015000	57	13
18	10	100	GX0270018018000	71	23
22	5	30	GX0270022022000	71	23
28	5	40	GX0270028028000	80	30
35	5	35	GX0270035035000	84	23
42	1	25	GX0270042042000	97	25
54	1	5	GX0270054054000	107	27



Art. GX0271

-  F/F slip coupling.
-  Schiebemuffe I/I.
-  Manchon coulissant F/F.
-  Manguito de paso H/H.
-  Муфта проходная В-В.

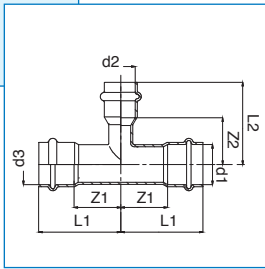
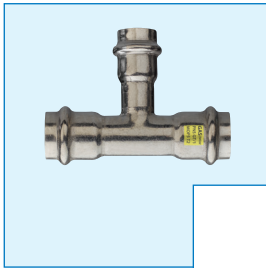
d	BAG	MASTER BOX	CODE	L1	L2
15	10	50	GX0271015015000	85	22
18	10	40	GX0271018018000	91	23
22	5	30	GX0271022022000	100	24
28	5	30	GX0271028028000	113	25
35	5	30	GX0271035035000	131	26
42	1	10	GX0271042042000	176	36
54	1	15	GX0271054054000	162	40








Art. GX0130

-  F/F/F tee.
-  T-Stück I/I/I.
-  Té F/F/F.
-  T H/H/H.
-  Тройник В-В-В.

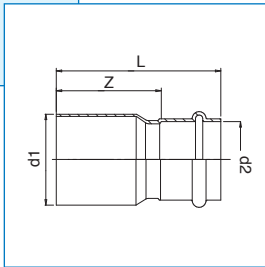
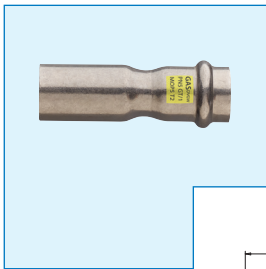
d	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
15	5	40	GX0130015015015	42	44	20	22
18	5	50	GX0130018018018	46	49	23	26
22	5	30	GX0130022022022	49	53	25	29
28	5	20	GX0130028028028	56	57	31	34
35	1	15	GX0130035035035	66	63	42	37
42	1	10	GX0130042042042	78	76	44	40
54	1	5	GX0130054054054	82	92	42	51



Art. GX0131

-  F/F/F reducing tee.
-  T-Stück reduziert I/I/I.
-  Té réduit F/F/F.
-  T reducido H/H/H.
-  Тройник уменьшенного размера В-В-В.

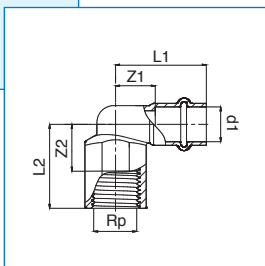
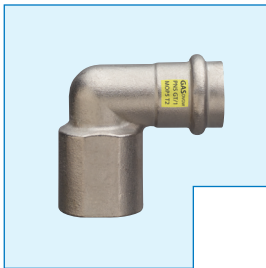
d1xd2xd3	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
18x15x18	5	30	GX0131018015018	48	56	23	24
22x15x22	5	40	GX0131022015022	49	48	25	26
22x18x22	5	25	GX0131022018022	49	51	25	28
28x15x28	5	15	GX0131028015028	56	61	31	29
28x18x28	5	15	GX0131028018028	56	54	31	31
28x22x28	5	15	GX0131028022028	56	65	31	32
35x15x35	1	15	GX0131035015035	68	65	42	33
35x18x35	1	15	GX0131035018035	66	60	42	35
35x22x35	1	10	GX0131035022035	66	59	42	35
35x28x35	1	15	GX0131035028035	66	62	42	37
42x22x42	1	8	GX0131042022042	78	63	44	39
42x28x42	1	6	GX0131042028042	78	75	44	41
42x35x42	1	5	GX0131042035042	78	75	44	41
54x18x54	1	5	GX0131054018054	92	65	42	37
54x22x54	1	5	GX0131054022054	92	67	42	45
54x28x54	1	5	GX0131054028054	92	72	42	47
54x35x54	1	5	GX0131054035054	92	90	42	47
54x42x54	1	5	GX0131054042054	92	109	42	47



Art. GX0243

-  M/F reducer.
-  Reduzierstück I/A.
-  Réduction M/F.
-  Reducción M/H.
-  Муфта редукционная Н-В.

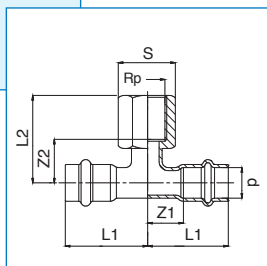
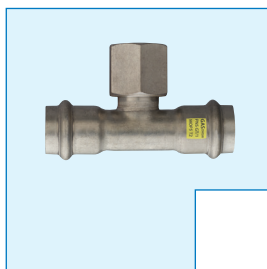
d1xd2	BAG	MASTER BOX	CODE	L	Z
18x15	10	50	GX0243018015000	75	52
22x15	10	50	GX0243022015000	68	46
22x18	10	40	GX0243022018000	73	50
28x15	5	30	GX0243028015000	72	36
28x18	5	70	GX0243028018000	80	59
28x22	5	50	GX0243028022000	73	49
35x22	5	20	GX0243035022000	87	60
35x28	5	50	GX0243035028000	77	52
42x28	5	10	GX0243042028000	101	76
42x35	5	35	GX0243042035000	97	71
54x28	5	20	GX0243054028000	126	101
54x35	1	5	GX0243054035000	117	91
54x42	1	15	GX0243054042000	105	69



Art. GX0F90

-  F/female thread elbow.
-  Bogen I mit I Gewinde.
-  Coude F/filetage femelle.
-  Codo mixto H/rosca hembra.
-  Угол В-В(Rp).

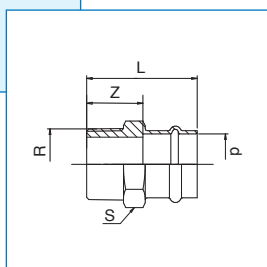
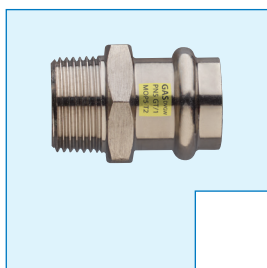
Rpxd1	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
1/2"x15	5	50	GX0F90A12015000	41	37	19	19
1/2"x18	5	100	GX0F90A12018000	43	39	20	21
1/2"x22	5	75	GX0F90A12022000	42	37	18	19
3/4"x22	5	20	GX0F90A34022000	45	42	21	24
3/4"x28	5	20	GX0F90A34028000	47	43	22	25
1"x28	5	30	GX0F90B01028000	54	48	29	28








Art. GXF130

-  F/female thread/F tee.
-  T-Stück I mit I Gewinde.
-  Té F/filetage femelle/F.
-  T H/rosca hembra/H.
-  Тройник В-В(Rp)-В.

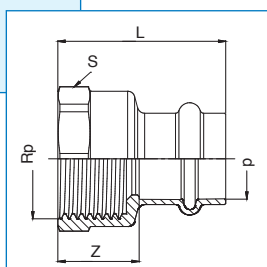
Rpxd	BAG	MASTER BOX	CODE	L1	L2	S	Z1	Z2
1/2"x15	5	50	GXF130015A12015	42	30	24	20	17
1/2"x18	5	30	GXF130018A12018	46	31	24	23	18
1/2"x22	10	25	GXF130022A12022	49	33	24	25	20
1/2"x28	5	25	GXF130028A12028	56	36	24	31	23
1/2"x35	1	10	GXF130035A12035	68	50	24	42	27
1/2"x42	1	5	GXF130042A12042	80	53	24	44	30
1/2"x54	1	5	GXF130054A12054	82	51	24	42	36
3/4"x18	5	50	GXF130018A34018	46	42	30	23	22
3/4"x22	5	25	GXF130022A34022	49	44	30	25	24
3/4"x28	5	15	GXF130028A34028	66	48	30	31	27
3/4"x35	1	10	GXF130035A34035	68	51	30	42	31
3/4"x42	1	5	GXF130042A34042	80	54	30	44	34
3/4"x54	1	5	GXF130054A34054	92	60	30	42	40
2"x54	1	4	GXF130054C02054	82	61	70	42	39








Art. GXF243

-  F/male thread adapter.
-  Übergangsstück I mit A Gewinde.
-  Manchon F/filetage mâle.
-  Manguito mixto H/rosca macho.
-  Муфта В-Н(R).

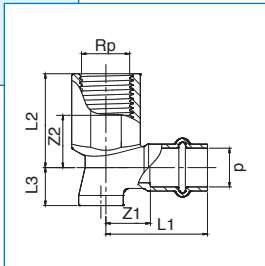
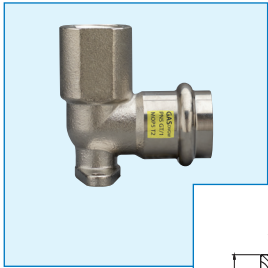
Rxd	BAG	MASTER BOX	CODE	L	S	Z
1/2"x15	10	50	GXF243A12015000	43	23	21
1/2"x18	10	150	GXF243A12018000	62	22	21
1/2"x22	5	100	GXF243A12022000	46	31	20
3/4"x18	10	30	GXF243A34018000	49	30	26
3/4"x22	10	50	GXF243A34022000	47	31	21
3/4"x28	5	70	GXF243A34028000	47	32	22
1"x22	10	50	GXF243B01022000	55	34	31
1"x28	5	50	GXF243B01028000	49	36	24
1"x35	5	40	GXF243B01035000	70	36	52
1"1/4x35	5	40	GXF243B14035000	81	45	55
1"1/2x42	1	20	GXF243B12042000	86	48	51
2"x54	1	15	GXF243C02054000	100	60	60








Art. GXF270

-  F/female thread adapter.
-  Übergangsstück I mit I Gewinde.
-  Manchon F/filetage femelle.
-  Manguito mixto H/rosca hembra.
-  Муфта В-В(Rp).

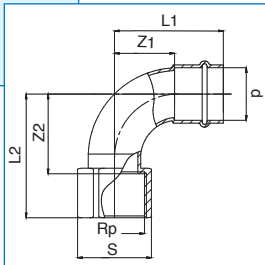
Rpxd	BAG	MASTER BOX	CODE	L	S	Z
1/2"x15	10	50	GXF270A12015000	44	27	22
1/2"x18	10	40	GXF270A12018000	46	27	23
1/2"x22	10	100	GXF270A12022000	40	32	16
3/4"x18	10	100	GXF270A34018000	46	30	26
3/4"x22	10	100	GXF270A34022000	44	32	20
3/4"x28	5	50	GXF270A34028000	43	38	18
1"x22	5	50	GXF270B01022000	47	38	23
1"x28	5	50	GXF270B01028000	48	38	23
1"x35	5	20	GXF270B01035000	72	38	46
1"1/4x35	1	30	GXF270B14035000	76	50	43
1"1/2x42	1	20	GXF270B12042000	79	55	43
2"x54	1	10	GXF270C02054000	92	70	52








Art. GXF472

-  F/female thread elbow with wallplate.
-  Wandscheibe I mit I Gewinde.
-  Applique coude F/filetage femelle.
-  Codo mixto H/rosca hembra con brida.
-  Угол с фланцем В-В(Rp).

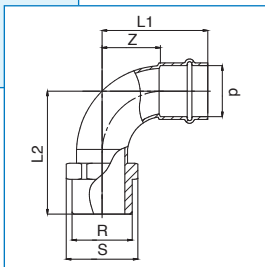
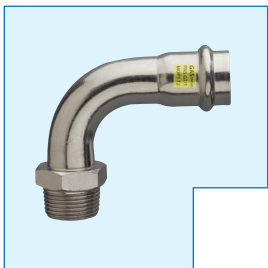
Rpxd	BAG	MASTER BOX	CODE	L1	L2	L3	Z1	Z2
1/2"x15	5	70	GXF472A12015000	39	37	15	19	19
1/2"x18	5	50	GXF472A12018000	43	37	15	20	20
1/2"x22	5	30	GXF472A12022000	45	42	17	21	22
3/4"x22	5	40	GXF472A34022000	46	46	20	21	20
1"x28	5	10	GXF472B01028000	54	48	22	29	23








Art. GXF90L

-  F/female thread 90° elbow.
-  Bogen 90° I mit I Gewinde.
-  Coude 90° F/filetage femelle.
-  Curva mixta 90° H/rosca hembra.
-  Угол 90° B-B(Rp).

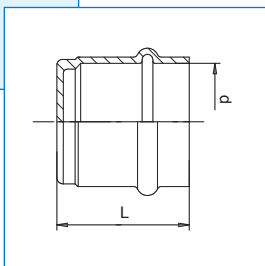
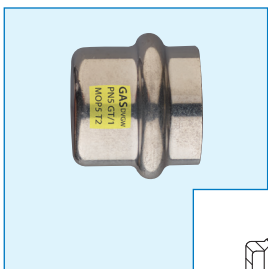
Rpxd	BAG	MASTER BOX	CODE	L1	L2	S	Z1	Z2
1/2"x15	5	30	GXF90LA12015000	58	55	24	31	26
1/2"x18	5	30	GXF90LA12018000	61	63	24	36	47
1/2"x22	5	30	GXF90LA12022000	61	63	24	37	50
3/4"x22	5	50	GXF90LA34022000	73	67	30	40	48
1"x28	5	15	GXF90LB01028000	82	80	36	50	61
1"1/4x35	1	10	GXF90LB14035000	92	90	50	66	66



Art. GXF92L

-  F/male thread 90° elbow.
-  Bogen 90° I mit A Gewinde.
-  Coude 90° F/filetage mâle.
-  Curva mixta 90° H/rosca macho.
-  Угол 90° B-H(R).

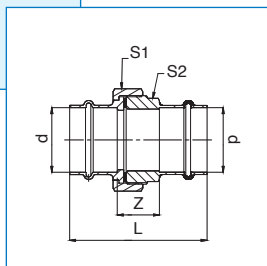
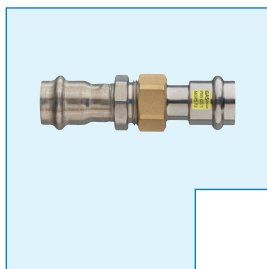
Rxd	BAG	MASTER BOX	CODE	L1	L2	S	Z
1/2"x15	5	30	GXF92LA12015000	53	45	25	31
1/2"x18	5	80	GXF92LA12018000	65	56	24	36
1/2"x22	5	30	GXF92LA12022000	61	58	25	37
3/4"x22	5	20	GXF92LA34022000	64	60	30	40
1"x28	5	15	GXF92LB01028000	83	75	38	50
1"1/4x35	1	10	GXF92LB14035000	92	87	45	66
1"1/2x42	1	2	GXF92LB12042000	111	102	50	75
2"x54	1	5	GXF92LC02054000	142	120	70	91








Art. GX0302

-  F plug.
-  Kappe I.
-  Bouchon F.
-  Tapón Hembra.
-  Зарлушка В.

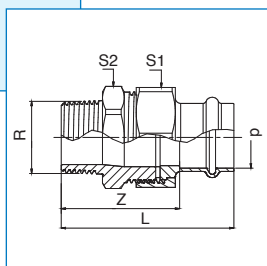
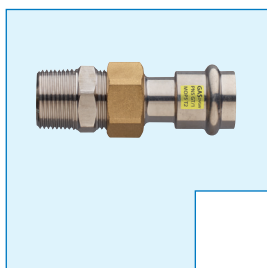
d	BAG	MASTER BOX	CODE	L
15	10	200	GX0302015000000	25
18	10	150	GX0302018000000	26
22	10	100	GX0302022000000	27
28	10	100	GX0302028000000	28
35	5	40	GX0302035000000	44
42	5	20	GX0302042000000	54
54	1	30	GX0302054000000	63








Art. GX0340

-  F/F flat seat joint.
-  Rohrverschraubung gerade I/I flachdichtend.
-  Union F/F à joint plat.
-  Unión sede plana H/H.
-  Разъемное соединение с плоским уплотнением В-В.

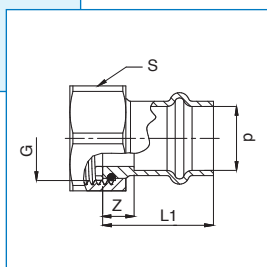
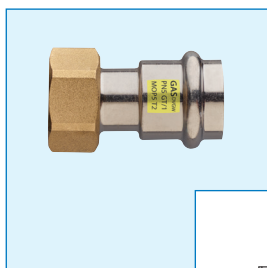
d	BAG	MASTER BOX	CODE	L	S1	S2	Z
15	10	100	GX0340015015000	90	24	25	46
18	10	100	GX0340018018000	100	30	30	54
22	5	40	GX0340022022000	103	37	34	55
28	5	40	GX0340028028000	96	46	45	46
35	5	30	GX0340035035000	125	52	50	73
42	5	15	GX0340042042000	132	64	60	60
54	5	15	GX0340054054000	148	85	75	68








Art. GXF341

-  F/male thread flat seat joint.
-  Rohrverschraubung I mit A Gewinde flachdichtend.
-  Union F/filetage mâle à joint plat.
-  Unión H/rosca macho sede plana.
-  Разъемное соединение с плоским уплотнением В-Н(R).

Rxd	BAG	MASTER BOX	CODE	L	S1	S2	Z
1/2"x15	5	50	GXF341A12015000	66	24	27	44
1/2"x18	5	50	GXF341A12018000	69	30	30	46
1/2"x22	5	50	GXF341A12022000	83	30	30	59
3/4"x15	5	50	GXF341A34015000	69	30	30	47
3/4"x18	5	50	GXF341A34018000	72	30	30	49
3/4"x22	5	30	GXF341A34022000	86	30	30	62
1"x22	5	30	GXF341B01022000	81	37	35	57
1"x28	5	30	GXF341B01028000	83	46	45	58
1"1/4x35	1	15	GXF341B14035000	88	52	50	62
1"1/2x42	1	10	GXF341B12042000	98	64	60	62
2"x54	1	8	GXF341C02054000	106	85	75	66



Art. GXF359

-  F/female thread valve connector with a swivel nut in brass.
-  Halbe Verschraubung flachdichtend.
-  Raccord avec écrou en laiton F/filetage femelle.
-  Conexión H/rosca hembra con tuerca giratoria de latón.
-  Соединение с латунной накидной гайкой В(Г)-В.

Gxd	BAG	MASTER BOX	CODE	L1	S	Z
1/2"x15	10	100	GXF359A12015000	44	24	22
3/4"x15	5	25	GXF359A34015000	29	30	7
3/4"x18	5	25	GXF359A34018000	32	30	9
1"x22	10	100	GXF359B01022000	38	37	14
1"1/4x28	5	50	GXF359B14028000	34	46	9
2"x42	5	20	GXF359C02042000	48	64	12
2"1/2x54	1	10	GXF359C12054000	45	85	5



1. Introduction

FRABOPRESS 316 GAS M is a system of AISI 316L austenitic stainless steel pipes and fittings (material nr. 1.4404), available in a dimensional range between 15 and 54 mm. The fittings feature a **M-type pressing profile**.

The series complies with the requirements of UNI 11179 class 2. The sealing gasket is in high-quality HNBR and it is compliant with EN 549.

The threads comply with UNI EN 10226-1 standard.

1. Einführung

FRABOPRESS 316 GAS M ist ein System bestehend aus Rohren und PressfitTINGS aus austenitischem Edelstahl AISI 316L (W. 1.4404), welches im Abmessungsbereich von 15 bis 54 mm erhältlich ist. **M-Profil**.

Das FRABOPRESS 316 GAS M System erfüllt die Anforderungen der Normen UNI 11179 Klasse 2.

Die Dichtung besteht aus hochwertigem HNBR.

Die Gewindeanschlüsse zum Anschluss an andere Systeme werden aus Edelstahl AISI 316L hergestellt.

Die Gewinde entsprechen der UNI EN 10226-1.

1. Présentation

FRABOPRESS 316 GAS M est un système constitué par des tubes et des raccords à sertir en acier inoxydable austénitique AISI 316L (n° de matériau 1.4404) disponible dans la gamme dimensionnelle entre 15 et 54 mm. Les raccords ont un **profil** de sertissage de type **M**. La gamme FRABOPRESS 316 GAS M est conforme à la norme UNI 11179 classe 2. Le joint torique est réalisé en HNBR de haute qualité et il est certifié selon la norme EN 549.

Les raccords filetés sont conformes à la norme UNI EN 10226-1.

1. Presentación

FRABOPRESS 316 GAS M es un sistema constituido por tubería y racores para prensar de acero inoxidable austenítico AISI 316L (n° material 1.4404) disponible en la gama dimensional desde 15 hasta 54 mm. Los racores tienen un **perfil** de tipo **M**.

La serie FRABOPRESS 316 GAS M cumple con las exigencias de la norma UNI 11179 clase 2. La junta tórica es de HNBR de alta calidad y es certificada según la norma EN 549.

Las roscas cumplen con la norma UNI EN 10226-1.

1. Описание

FRABOPRESS 316 GAS M с системой безопасности Securfrabo представляет собой систему из труб и пресс-фитингов из аустенитной нержавеющей стали AISI 316L (нержавеющая сталь 1.4404), с размерным рядом от 15 до 54 mm. Пресс-фитинги имеют **M профиль**.

Серия FRABOPRESS 316 GAS M соответствует требованиям стандартов UNI 11179 Класс 2. Уплотнительная прокладка выполнена из эластомера HNBR высокого качества, сертифицированного в соответствии с нормативом EN 549.

Резьбовые соединения соответствуют нормативу UNI EN 10226-1.

2. Advantages

- Thanks to the yellow mark, present on each fitting, gas application suitability is immediately detected.
- Easy and quick installation, typical of pressing technique.
- Excellent corrosion resistance.

2. Vorteile

- Gelbe Markierung als eindeutige Kennzeichnung für die Anwendung im Gas Bereich.
- Einfache und schnelle Installation.
- Maximale Korrosionsbeständigkeit.

2. Avantages

- Applications du gaz immédiatement identifiable grâce au marquage jaune présent sur chaque raccord.
- Facilité et rapidité d'installation, typiques de la technique de jonction à sertir.
- Résistance maximale à la corrosion.

2. Ventajas

- Aplicación gas inmediatamente reconocible gracias a la marca de color amarillo presente sobre cada rácor.
- Facilidad y velocidad de instalación, típicas de las conexiones para prensar.
- Máxima resistencia a la corrosión.

2. Преимущества

- Наличие маркировки желтого цвета на каждом фитинге, которая указывает на пригодность для применения в системах газораспределения.
- Простота и скорость монтажа, характерные для техники выполнения пресс-соединений.
- Превосходная устойчивость к коррозии.

3. Applications

FRABOPRESS 316 GAS M range is suitable for gas applications such as domestic methane or LPG installations.

3. Anwendungsbereiche

Die FRABOPRESS 316 GAS M Serie eignet sich für Gasanwendungen wie Haushaltsanlagen zur Verteilung von Methangas- oder LPG-Systemen.

3. Champs d'emploi

La gamme FRABOPRESS 316 GAS M est adaptée aux applications gaz comme, par exemple, les installations domestiques de gaz méthane ou les systèmes de GPL.

3. Aplicaciones

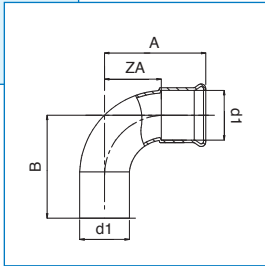
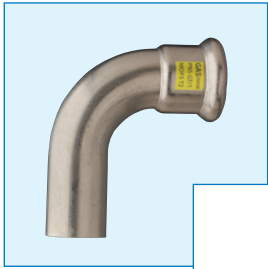
La gama FRABOPRESS 316 GAS M es apta para aplicaciones de gas como, por ejemplo, instalaciones domesticas de distribución de gas metano o GPL.

3. Области применения

Фитинги серии FRABOPRESS 316 GAS M могут применяться для систем газораспределения, таких как бытовые установки распределения природного газа или системы GPL (сжиженного нефтяного газа).



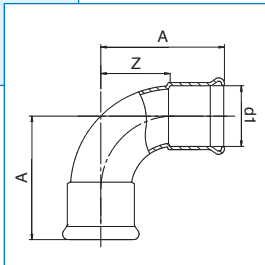
GAS



Art. GM0001

- M/F 90° elbow.
- Bogen 90° I/A.
- Courbe 90° M/F.
- Curva 90° M/H.
- Угол 90° H-B.

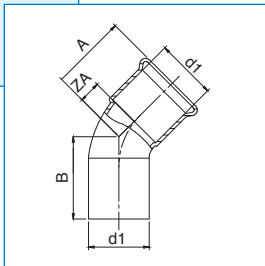
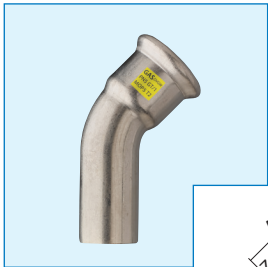
d1	BAG	MASTER BOX	CODE	A	B	ZA
15	10	100	GM0001015015000	39	45	19,5
18	10	100	GM0001018018000	43	49	23,5
22	5	70	GM0001022022000	48	54	25,5
28	5	40	GM0001028028000	57	63	34,5
35	5	10	GM0001035035000	68	74	42,5
42	1	10	GM0001042042000	83	89	53,5
54	1	4	GM0001054054000	102	108	67,5



Art. GM0002

- F/F 90° elbow.
- Bogen 90° I/I.
- Courbe 90° F/F.
- Curva 90° H/H.
- Угол 90° B-B.

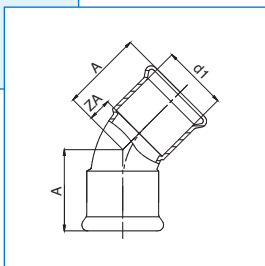
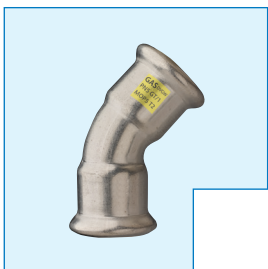
d1	BAG	MASTER BOX	CODE	A	Z
15	10	100	GM0002015015000	39	19,5
18	10	30	GM0002018018000	43	23,5
22	5	50	GM0002022022000	48	25,5
28	5	30	GM0002028028000	57	34,5
35	5	25	GM0002035035000	68	42,5
42	1	10	GM0002042042000	83	53,5
54	1	7	GM0002054054000	102	67,5



Art. GM0040

- M/F 45° elbow.
- Bogen 45° I/A.
- Courbe 45° M/F.
- Curva 45° M/H.
- Угол 45° H-B.

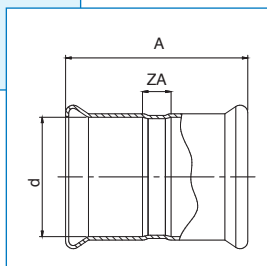
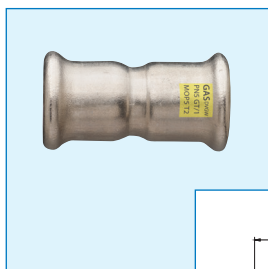
d1	BAG	MASTER BOX	CODE	A	B	ZA
15	10	40	GM0040015015000	29	30	9,5
18	10	100	GM0040018018000	31	32	11,5
22	10	60	GM0040022022000	34	35	11,5
28	5	40	GM0040028028000	38	39	15,5
35	5	30	GM0040035035000	43	44	17,5
42	1	5	GM0040042042000	53	54	23,5
54	1	5	GM0040054054000	69	70	34,5



Art. GM0041

- F/F 45° elbow.
- Bogen 45° I/I.
- Courbe 45° F/F.
- Curva 45° H/H.
- Угол 45° B-B.

d1	BAG	MASTER BOX	CODE	A	ZA
15	10	100	GM0041015015000	29	9,5
18	5	30	GM0041018018000	31	11,5
22	5	50	GM0041022022000	34	11,5
28	5	40	GM0041028028000	38	15,5
35	5	40	GM0041035035000	43	17,5
42	1	20	GM0041042042000	53	23,5
54	1	5	GM0041054054000	69	34,5



Art. GM0270

F/F coupling.

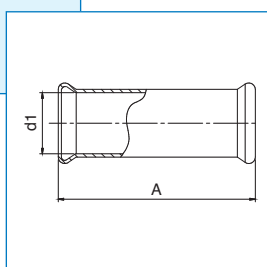
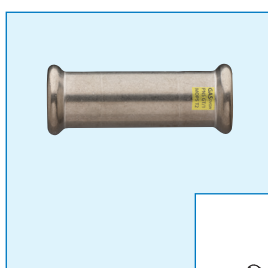
Muffe I/I.

Manchon avec flexion F/F.

Manguito con remante H/H.

Муфта с упором В-В.

d	BAG	MASTER BOX	CODE	A	ZA
15	10	150	GM0270015015000	48	9
18	10	100	GM0270018018000	48	9
22	5	30	GM0270022022000	50	5
28	5	40	GM0270028028000	54	9
35	5	35	GM0270035035000	62	11
42	1	25	GM0270042042000	73	14
54	1	15	GM0270054054000	85	16



Art. GM0271

F/F slip coupling.

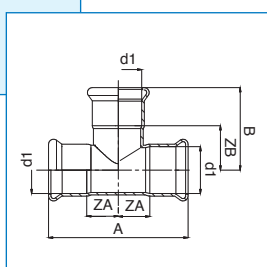
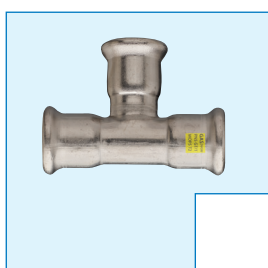
Schiebemuffe I/I.

Manchon coulissant F/F.

Manguito de paso H/H.

Муфта проходная В-В.

d1	BAG	MASTER BOX	CODE	A
15	10	50	GM0271015015000	80
18	10	40	GM0271018018000	80
22	5	30	GM0271022022000	85
28	5	30	GM0271028028000	95
35	5	30	GM0271035035000	105
42	1	10	GM0271042042000	120
54	1	15	GM0271054054000	135



Art. GM0130

F/F/F tee.

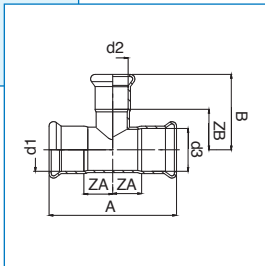
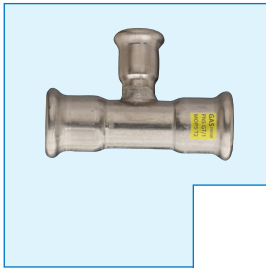
T-Stück I/I/I.

Té F/F/F.

T H/H/H.

Тройник В-В-В.

d1	BAG	MASTER BOX	CODE	A	B	ZA	ZB
15	5	40	GM0130015015015	68	34	14,5	14,5
18	5	50	GM0130018018018	70	35	15,5	15,5
22	5	30	GM0130022022022	79	39,5	17	17
28	5	20	GM0130028028028	92	46	23,5	23,5
35	1	15	GM0130035035035	106	53	27,5	27,5
42	1	10	GM0130042042042	124	62	32,5	32,5
54	1	5	GM0130054054054	146	73	38,5	38,5



Art. GM0131

F/F/F reducing tee.

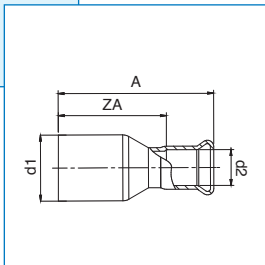
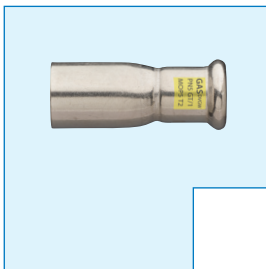
T-Stück reduziert I/I/I.

Té réduit F/F/F.

T reducido H/H/H.

Тройник уменьшенного размера В-В-В.

d1xd2xd3	BAG	MASTER BOX	CODE	A	B	ZA	ZB
18x15x18	5	30	GM0131018015018	96	56	28,5	36,5
22x15x22	5	40	GM0131022015022	98	48	26,5	28,5
22x18x22	5	25	GM0131022018022	98	51	26,5	31,5
28x15x28	5	15	GM0131028015028	112	61	33,5	41,5
28x18x28	5	15	GM0131028018028	94	47	24,5	24,5
28x22x28	5	15	GM0131028022028	112	54	33,5	34,5
35x15x35	1	15	GM0131035015035	136	65	42,5	45,5
35x18x35	1	15	GM0131035018035	132	60	40,5	40,5
35x22x35	1	10	GM0131035022035	132	59	40,5	36,5
35x28x35	1	15	GM0131035028035	132	62	40,5	39,5
42x22x42	1	8	GM0131042022042	156	63	48,5	40,5
42x28x42	1	6	GM0131042028042	156	75	48,5	52,5
42x35x42	1	5	GM0131042035042	156	75	48,5	49,5
54x18x54	1	5	GM0131054018054	184	65	57,5	45,5
54x22x54	1	5	GM0131054022054	184	67	57,5	44,5
54x28x54	1	5	GM0131054028054	184	72	57,5	49,5
54x35x54	1	5	GM0131054035054	184	90	57,5	64,5
54x42x54	1	5	GM0131054042054	184	109	57,5	79,5



Art. GM0243

M/F reducer.

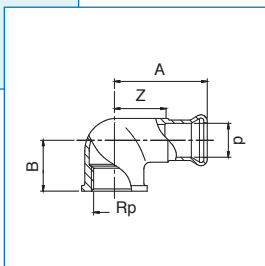
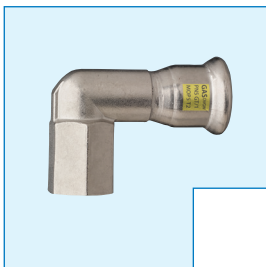
Reduzierstück I/A.

Réduction M/F.

Reducción M/H.

Муфта редукционная H-B.

d1xd2	BAG	MASTER BOX	CODE	A	ZA
18x15	10	50	GM0243018015000	55	35,5
22x15	10	50	GM0243022015000	60	40,5
22x18	10	40	GM0243022018000	60	40,5
28x15	5	30	GM0243028015000	68	48,5
28x18	5	70	GM0243028018000	68	48,5
28x22	5	50	GM0243028022000	63	40,5
35x22	5	20	GM0243035022000	70	47,5
35x28	5	50	GM0243035028000	67	44,5
42x28	5	10	GM0243042028000	82	59,5
42x35	5	35	GM0243042035000	76	50,5
54x28	5	20	GM0243054028000	96	73,5
54x35	1	5	GM0243054035000	94	68,5
54x42	1	15	GM0243054042000	95	65,5



Art. GM0F90

F/female thread elbow.

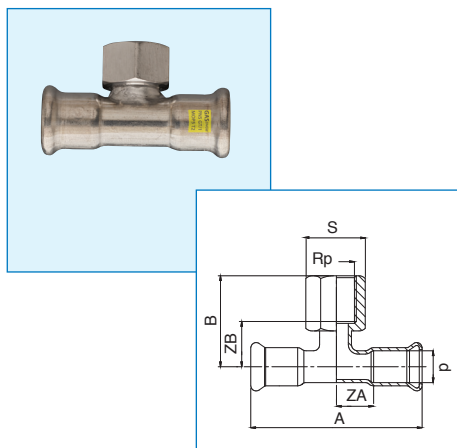
Bogen I mit I Gewinde.

Coude F/filetage femelle.

Codo mixto H/rosca hembra.

Угол B-B(Rp).

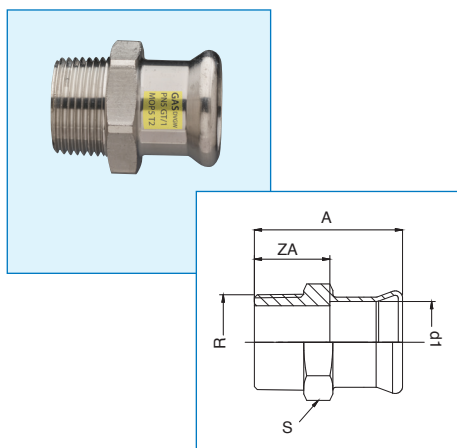
Rpxd	BAG	MASTER BOX	CODE	A	B	Z
1/2"x15	5	50	GM0F90A12015000	46	31	27
1/2"x18	5	100	GM0F90A12018000	47	32	28
1/2"x22	5	75	GM0F90A12022000	48	32	27
3/4"x22	5	20	GM0F90A34022000	52	35	31
3/4"x28	5	20	GM0F90A34028000	52	38	28
1"x28	5	30	GM0F90B01028000	56	38	34








Art. GMF130

-  F/female thread/F tee.
-  T-Stück I mit I Gewinde.
-  Té F/filetage femelle/F.
-  T H/rosca hembra/H.
-  Тройник В-В(Rp)-В.

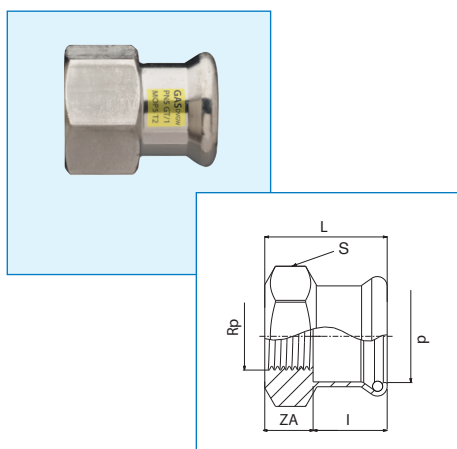
Rpxd	BAG	MASTER BOX	CODE	A	B	S	ZA	ZB
1/2"x15	5	50	GMF130015A12015	74	39	26	17,5	17
1/2"x18	5	30	GMF130018A12018	80	37	26	20,5	18
1/2"x22	10	25	GMF130022A12022	82	39	26	18,5	20
1/2"x28	5	25	GMF130028A12028	92	37	26	23,5	23
1/2"x35	1	10	GMF130035A12035	102	43	26	25,5	27
1/2"x42	1	5	GMF130042A12042	140	47	26	40,5	30
1/2"x54	1	5	GMF130054A12054	154	53	26	37,5	36
3/4"x18	5	50	GMF130018A34018	80	39	31	20,5	22
3/4"x22	5	25	GMF130022A34022	82	41	31	18,5	24
3/4"x28	5	15	GMF130028A34028	92	45	31	23,5	27
3/4"x35	1	10	GMF130035A34035	102	49	31	25,5	31
3/4"x42	1	5	GMF130042A34042	118	52	31	29,5	34
3/4"x54	1	5	GMF130054A34054	140	58	31	30,5	40
1"x28	5	25	GMF130028B01028	92	46	37	23,5	-
2"x54	1	4	GMF130054C02054	140	68	67	30,5	39








Art. GMF243

-  F/male thread adapter.
-  Übergangsstück I mit A Gewinde.
-  Manchon F/filetage mâle.
-  Manguito mixto H/rosca macho.
-  Муфта В-Н(R).

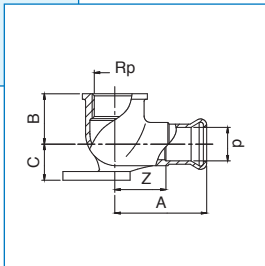
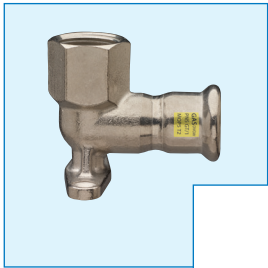
Rxd1	BAG	MASTER BOX	CODE	A	S	ZA
1/2"x15	10	50	GMF243A12015000	43	25	21,5
1/2"x18	10	150	GMF243A12018000	44	25	21,5
1/2"x22	5	100	GMF243A12022000	45	32	21,5
3/4"x18	10	30	GMF243A34018000	45	32	22,5
3/4"x22	10	50	GMF243A34022000	46	32	22,5
3/4"x28	5	70	GMF243A34028000	57	32	32,5
1"x22	10	50	GMF243B01022000	55	38	31,5
1"x28	5	50	GMF243B01028000	57	38	32,5
1"x35	5	40	GMF243B01035000	60	38	34,5
1"1/4x35	5	40	GMF243B14035000	60	50	34,5
1"1/2x42	1	20	GMF243B12042000	72	55	36,5
2"x54	1	15	GMF243C02054000	83	64	43,5








Art. GMF270

-  F/female thread adapter.
-  Übergangsstück I mit I Gewinde.
-  Manchon F/filetage femelle.
-  Manguito mixto H/rosca hembra.
-  Муфта В-В(Rp).

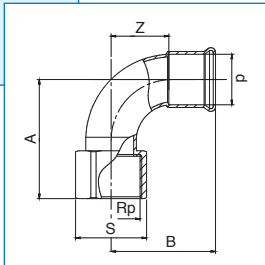
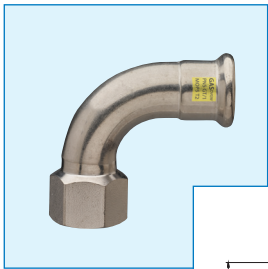
Rpxd	BAG	MASTER BOX	CODE	I	L	S	ZA
1/2"x15	10	50	GMF270A12015000	19	36	27	17
1/2"x18	10	40	GMF270A12018000	19	36	27	17
1/2"x22	10	100	GMF270A12022000	22	37	32	15
3/4"x18	10	100	GMF270A34018000	19	38	32	19
3/4"x22	10	100	GMF270A34022000	22	41	32	19
3/4"x28	5	50	GMF270A34028000	22	37	38	15
1"x22	5	50	GMF270B01022000	22	43	38	21
1"x28	5	50	GMF270B01028000	22	43	38	21
1"x35	5	20	GMF270B01035000	25	81	45	56
1"1/4x35	1	30	GMF270B14035000	25	72	50	47
1"1/2x42	1	20	GMF270B12042000	29	74	55	45
2"x54	1	10	GMF270C02054000	34	84	70	50








Art. GMF472

-  F/female thread elbow with wallplate.
-  Wandscheibe I mit I Gewinde.
-  Applique coude F/filetage femelle.
-  Codo mixto H/rosca hembra con brida.
-  Угол с фланцем В-В(Rp).

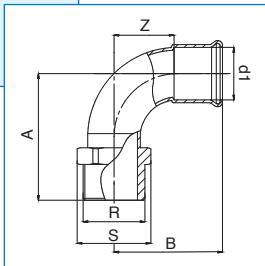
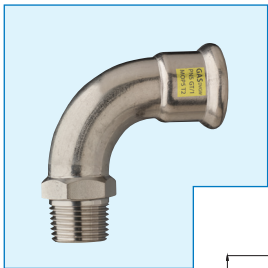
Rpxd	BAG	MASTER BOX	CODE	A	B	C	Z
1/2"x15	5	70	GMF472A12015000	46	31	12	26,5
1/2"x18	5	50	GMF472A12018000	47	32	13	27,5
1/2"x22	5	30	GMF472A12022000	48	32	13	25,5
3/4"x22	5	40	GMF472A34022000	52	35	16	29,5
1"x28	5	10	GMF472B01028000	56	38	21	33,5








Art. GMF90L

-  F/female thread 90° elbow.
-  Bogen 90° I mit I Gewinde.
-  Coude 90° F/filetage femelle.
-  Curva mixta 90° H/rosca hembra.
-  Угол 90° B-B(Rp).

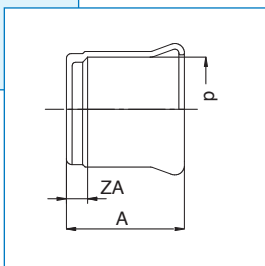
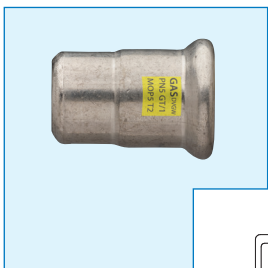
Rpxd	BAG	MASTER BOX	CODE	A	B	S	Z
1/2"x15	5	30	GMF90LA12015000	42	45	24	23,5
1/2"x18	5	30	GMF90LA12018000	45	49	24	26,5
1/2"x22	5	30	GMF90LA12022000	45	49	24	26,5
3/4"x22	5	50	GMF90LA34022000	51	54	30	30,5
1"x28	5	15	GMF90LB01028000	61	63	36	38,5
1"1/4x35	1	10	GMF90LB14035000	69	74	50	48,5



Art. GMF92L

-  F/male thread 90° elbow.
-  Bogen 90° I mit A Gewinde.
-  Coude 90° F/filetage mâle.
-  Curva mixta 90° H/rosca macho.
-  Угол 90° B-H(R).

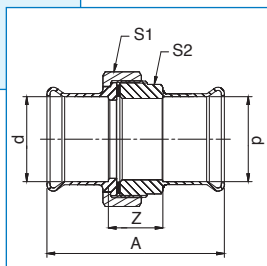
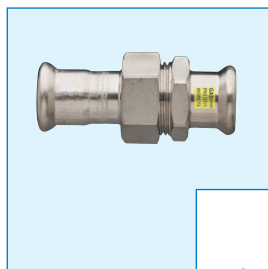
Rxd1	BAG	MASTER BOX	CODE	A	B	S	Z
1/2"x15	5	30	GMF92LA12015000	42	45	25	23,5
1/2"x18	5	80	GMF92LA12018000	45	49	24	26,5
1/2"x22	5	30	GMF92LA12022000	45	49	25	26,5
3/4"x22	5	20	GMF92LA34022000	51	54	30	30,5
1"x28	5	15	GMF92LB01028000	61	63	38	38,5
1"1/4x35	1	10	GMF92LB14035000	69	74	45	48,5
1"1/2x42	1	2	GMF92LB12042000	89	89	50	53,5
2"x54	1	5	GMF92LC02054000	144	108	70	68,5



Art. GM0302

-  F plug.
-  Kappe I.
-  Bouchon F.
-  Tapón Hembra.
-  Зарлушка В.

d	BAG	MASTER BOX	CODE	A	ZA
15	10	200	GM0302015000000	32	12,5
18	10	150	GM0302018000000	32	12,5
22	10	100	GM0302022000000	35	12,5
28	10	100	GM0302028000000	37	14,5
35	5	40	GM0302035000000	43	17,5
42	5	20	GM0302042000000	48	18,5
54	1	30	GM0302054000000	56	21,5



Art. GM0340

F/F flat seat joint.

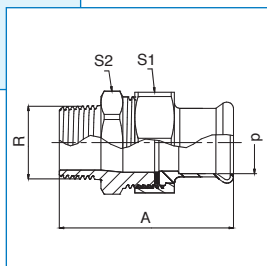
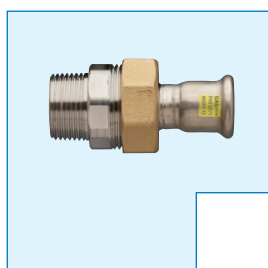
Rohrverschraubung gerade l/l flachdichtend.

Union F/F à joint plat.

Unión sede plana H/H.

Разъемное соединение с плоским уплотнением В-В.

d	BAG	MASTER BOX	CODE	A	S1	S2	Z
15	10	100	GM0340015015000	85	24	25	46
18	10	100	GM0340018018000	95	30	30	56
22	5	40	GM0340022022000	97	37	34	52
28	5	40	GM0340028028000	91	46	45	46
35	5	30	GM0340035035000	120	52	50	69
42	5	15	GM0340042042000	134	64	60	75
54	5	15	GM0340054054000	144	85	75	75



Art. GMF341

F/male thread flat seat joint.

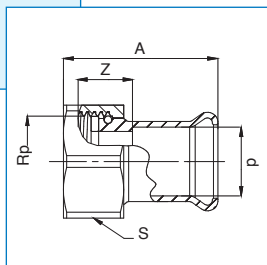
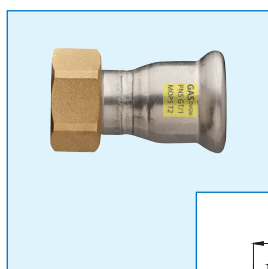
Rohrverschraubung l mit A Gewinde flachdichtend.

Union F/filetage mâle à joint plat.

Unión H/rosca macho sede plana.

Разъемное соединение с плоским уплотнением В-Н(Р).

Rxd	BAG	MASTER BOX	CODE	A	S1	S2
1/2"x15	5	50	GMF341A12015000	70	24	27
1/2"x18	5	50	GMF341A12018000	70	30	30
1/2"x22	5	50	GMF341A12022000	78	30	30
3/4"x15	5	50	GMF341A34015000	65	30	30
3/4"x18	5	50	GMF341A34018000	75	30	30
3/4"x22	5	30	GMF341A34022000	82	30	30
1"x22	5	30	GMF341B01022000	77	37	34
1"x28	5	30	GMF341B01028000	77	46	45
1"1/4x35	1	15	GMF341B14035000	85	52	50
1"1/2x42	1	10	GMF341B12042000	95	64	60
2"x54	1	8	GMF341C02054000	100	85	75



Art. GMF359

F/female thread valve connector with a swivel nut in brass.

Halbe Verschraubung flachdichtend.

Raccord avec écrou en laiton F/filetage femelle.

Conexión H/rosca hembra con tuerca giratoria de latón.

Соединение с латунной накидной гайкой В-В(Rp).

Rpxd	BAG	MASTER BOX	CODE	A	S	Z
1/2"x15	10	100	GMF359A12015000	40	24	20,5
3/4"x15	5	25	GMF359A34015000	28	30	8,5
3/4"x18	5	25	GMF359A34018000	32	30	12,5
1"x22	10	100	GMF359B01022000	34	37	11,5
1"1/4x28	5	50	GMF359B14028000	31	46	8,5
2"x42	5	20	GMF359C02042000	48	64	18,5
2"1/2x54	1	10	GMF359C12054000	40	85	5,5



1. Introduction

FRABOPRESS TS is a press coupling designed to connect hot water radiant heating units. FRABOPRESS TS fittings are made of carbon steel and they are equipped with an EPDM O-ring, ideal to handle high working temperatures typical of hot water radiant heating units (maximum temperature: 110°C).

FRABOPRESS TS is universal, it means that both types of jaws, **V** and **M profile**, with diameter 22 are suitable and right for pressing.

1. Einführung

FRABOPRESS TS ist eine Pressmuffe zur Verbindung von mit Heißwasser betriebenen Deckenstrahlplatten.

Die FRABOPRESS TS Fittings bestehen aus C-Stahl und sind mit EPDM Dichtringen ausgestattet, die für die Betriebstemperaturen Strahlplatten geeignet sind (max 110°C).

FRABOPRESS TS Fittings können sowohl mit **V-Profil** Backen als auch **M-Profil** Backen im Durchmesser 22 verarbeitet werden können.

1. Présentation

FRABOPRESS TS est un manchon à sertir réalisé pour le raccordement des bandes chauffantes alimentées à eau chaude.

Les manchons FRABOPRESS TS sont réalisés en acier au carbone et sont équipés des joints toriques en EPDM adaptés aux températures de service des bandes chauffantes à eau chaude (temp. max. 110°C).

Le sertissage de FRABOPRESS TS est universel car on peut utiliser aussi bien les mâchoires avec **profile V** que les mâchoires avec **profile M** de diamètre 22.

1. Presentación

FRABOPRESS TS es un manguito realizado para la conexión de paneles radiantes alimentados por agua caliente.

Los manguitos FRABOPRESS TS son realizados de acero al carbono, tienen junta tórica de EPDM y son aptos para las temperaturas elevadas de los paneles radiantes alimentados por agua caliente (temperatura máxima 110°C).

El prensado de FRABOPRESS TS es universal dado que se utilizan tanto los agarradores con **perfil V** como los agarradores con **perfil M** de diámetro 22.

1. Описание

FRABOPRESS TS - пресс-муфта для соединения излучающих панелей на горячей воде.

Муфты FRABOPRESS TS выполнены из углеродистой стали и оснащены прокладкой O-ring из EPDM, подходят для излучающих панелей на горячей воде с рабочей температурой до Tmax 110°C.

Опрессовка фитингов FRABOPRESS TS универсальна поскольку могут использоваться как пресс-клещи с профилем обжима **V** так и с **профилем M**, диаметр 22.

2. Advantages

- Easy longitudinal alignment of water radiant heating units.
- Quick connection of radiant heating units.

2. Vorteile

- Einfache Ausrichtung der Deckenstrahlplatten.
- Schelle Installation der Strahlplatten.

2. Avantages

- Alignement facilité des bandes chauffantes.
- Raccordement rapide des bandes chauffantes.

2. Ventajas

- Alineación facilitada de los paneles.
- Velocidad de instalación de los paneles.

2. Преимущества

- Облегченное выравнивание излучающих панелей.
- Скорость монтажа излучающих панелей.

3. Applications

FRABOPRESS TS is purpose-developed for a particular field of application: the junction of hot water radiant heating units.

3. Anwendungsbereiche

Die FRABOPRESS TS Serie wurde für eine bestimmte Anwendung entwickelt, die Verbindung von Heißwasser betriebenen Deckenstrahlplatten.

3. Champs d'emploi

La gamme FRABOPRESS TS a été développée pour le raccordement des bandes chauffantes alimentées à eau chaude.

3. Aplicaciones

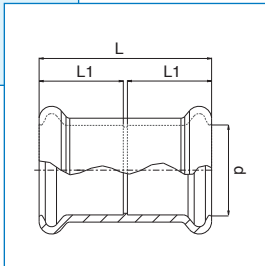
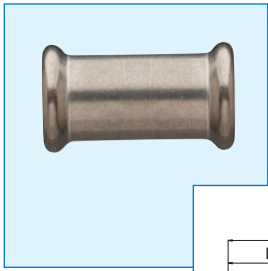
La gama FRABOPRESS TS es diseñada para una aplicación particular, la conexión de paneles radiantes alimentados por agua caliente.

3. Области применения

Серия FRABOPRESS TS разработана для конкретного применения, соединения излучающих панелей на горячей воде.




INDUSTRIAL





Art. TS9270

 F/F coupling.

 Muffe I/I.

 Manchon avec flexion F/F.

 Manguito con remante H/H.

 Муфта с упором В-В.

d	BAG	MASTER BOX	CODE	L	L1
1/2"	10	100	TS9270A12A12000	42	21



1. Introduction

FRABOPRESS C-STEEL V, with Securfrabo security system, is the patented system of carbon steel pipes and pressfittings available in a dimensional range between 12 and 54 mm. The fittings feature a **V-type pressing profile**.

The zinc plating applied to EN 10305 pipes and fittings guarantees higher corrosion resistance, ensuring reliability over time.

FRABOPRESS C-STEEL V pressfittings are made of carbon steel (material nr. 1.0034) and are electrolytically zinc plated.

The EPDM sealing gasket is equipped with Securfrabo system for detecting leaks from fittings, which are not pressed.

For dimensions between 67 and 108 mm, the range is completed by a series of M-profile carbon steel pressfittings (FRABOPRESS C-STEEL M range). The threads comply with UNI EN 10226-1 standard.

1. Einführung

FRABOPRESS C-STEEL V mit Securfrabo ist ein System bestehend aus Rohren und Pressfittings aus unlegiertem Stahl, welches im Abmessungsbereich von 12 bis 54 mm erhältlich ist. Die Verzinkung der Rohre nach EN 10305 und Formstücke gewährleistet eine ideale Korrosionsschutzleistung und eine langjährige Zuverlässigkeit. **V-Profil**.

FRABOPRESS C-STEEL V Pressfittings bestehen aus unlegiertem Stahl (C-Stahl W. 1.0034) und sind elektrolytisch verzinkt.

Die Dichtung besteht aus EPDM und ist mit dem Securfrabo-System zur Erkennung von Undichtigkeiten an nicht gepressten Verbindungen ausgestattet.

Die Serie wird in den Abmessungen zwischen 67 und 108 mm durch eine Reihe von Pressfittings mit M-Profil vervollständigt (FRABOPRESS C-STEEL M Serie). Die Gewinde entsprechen der UNI EN 10226-1.

1. Présentation

FRABOPRESS C-STEEL V, avec système de sécurité Securfrabo, est un système breveté constitué par des tubes et des raccords à sertir en acier au carbone galvanisé disponible dans la gamme dimensionnelle entre 12 et 54 mm. Les raccords ont un **profil** de sertissage de type **V**. Le zingage appliqué aux tubes EN 10305 et aux raccords assure un niveau de performance anticorrosion plus élevé et une fiabilité durable dans le temps.

Les raccords FRABOPRESS C-STEEL V sont en acier au carbone (n° matériau 1.0034) et sont galvanisés par électrolyse.

Le joint d'étanchéité est en EPDM et est équipé du système Securfrabo pour la détection des fuites des raccords non sertis.

La gamme est complétée dans les dimensions comprises entre 67 et 108 mm par une série des raccords à profile M en acier au carbone (Gamme FRABOPRESS C-STEEL M). Les filetages sont conformes à la norme UNI EN 10226-1.

1. Presentación

FRABOPRESS C-STEEL V, con sistema de seguridad Securfrabo, es un sistema patentado constituido por tubería y racores para prensar de acero al carbono disponible en la gama dimensional desde 12 hasta 54 mm. Los racores tienen un **perfil** de tipo **V**.

El tratamiento galvanico especial de cincado aplicado a la tubería EN 10305 y a los racores aumenta significativamente los tiempos de oxidación por los agentes corrosivos habituales, garantizando una fiabilidad durable.

Los racores para prensar FRABOPRESS C-STEEL V son de acero al carbono (n° material 1.0034) y cincados electrolíticamente.

La junta tórica es de EPDM y equipada con el sistema Securfrabo para detectar las fugas si la conexión no se ha prensado.

La gama se completa en las dimensiones desde 67 hasta 108 mm con una serie de racores para prensar con perfil M de acero inoxidable (gama FRABOPRESS C-STEEL M). Las roscas cumplen con la norma UNI EN 10226-1.

1. Описание

FRABOPRESS C-STEEL V с системой безопасности Securfrabo - система из труб и пресс-фитингов из нелегированной стали с размерным рядом от 12 до 54 мм. Пресс-фитинги имеют **V профиль**.

Цинковое покрытие труб EN 10305 и фитингов обеспечивает высокую антикоррозийную устойчивость, гарантируя надежность на долгое время.

Пресс-фитинги FRABOPRESS C-STEEL V выполнены из нелегированной стали (углеродистая сталь 1.0034) и оцинкованы методом горячего (электролитического) цинкования.

Уплотнительная прокладка из EPDM снабжена системой Securfrabo для выявления протечек на неопрессованных фитингах. В больших размерах с диаметром от 67 до 108 мм серию дополняют пресс-фитинги с профилем М (серия FRABOPRESS C-STEEL М). Резьбовые соединения системы FRABOPRESS C-STEEL V произведены в соответствии с нормативом UNI EN 10226-1.

2. Advantages

- Safety: thanks to Securfrabo **security system**, it is possible to find immediately a leakage of an unpressed fitting during the pressure test.
- Easy and quick installation.
- Excellent hydraulic and mechanical seal.
- High resistance to hydro-saline mists
- Perfect material to contain system construction costs.
- Limited thermal expansion of the plant.
- Wide application range.
- Total protective galvanizing.

2. Vorteile

- Sicherheit: Securfrabo-**Sicherheitssystem** welches versehentliche nicht gepresst Stellen bei der Druckprobe signalisiert.
- Einfache und schnelle Installation.
- Hohe hydraulische und mechanische Abdichtung.
- Hohe Beständigkeit gegen Salznebel.
- Ideales Material zur Eindämmung der Kosten für den Bau des Systems.
- Verringerte Wärmeausdehnung des Systems.
- Weites Anwendungsfeld.
- Vollständige Schutzverzinkung (sowohl extern als auch intern).

2. Avantages

- Sécurité: grâce au **système de sécurité** Securfrabo, il est possible de détecter la fuite du fluide dans la phase de test de l'installation, si le raccord n'a pas été serti.
- Facilité et rapidité d'installation.
- Grande étanchéité hydraulique et mécanique.
- Grande résistance aux brumes Hydrosalines.
- Matériau idéal pour contenir les coûts de réalisation de l'installation.
- Dilatations thermiques de l'installations limitées.
- Large champ d'application.
- Zingage de protection totale (interne et externe).

2. Ventajas

- Seguridad: el **sistema de seguridad** Securfrabo permite detectar una fuga de fluido durante la prueba de la instalación, si la conexión no se ha prensado.
- Facilidad y velocidad de instalación.
- Estanqueidad idrúlica y mecánica elevada.
- Material ideal para reducir los costes de realización de la instalación.
- Reducida expansión térmica.
- Amplio ámbito de aplicaciones.
- Galvanización protectora total (externamente y internamente).

2. Преимущества

- Безопасность: благодаря **системе безопасности** Securfrabo возможно обнаружение протечки в момент испытания системы, в случае, если фитинг не был опрессован.
- Быстрый и легкий монтаж.
- Повышенная гидравлическая и механическая герметичность.
- Высокая устойчивость к солевому туману.
- Идеальный материал для снижения затрат на систему.
- Низкое тепловое расширение системы.
- Обширная область применения.
- Полная защитная оцинковка (внешняя и внутренняя).

3. Applications

FRABOPRESS C-STEEL V range is perfect for the installations of closed-circuit heating/cooling systems, closed-circuit water systems, firefighting systems (sprinkler), compressed-air systems and distribution of inert gases.

3. Anwendungsbereiche

Die FRABOPRESS C-STEEL V Serie eignet sich für die Installation von geschlossenen Kreislaufsystemen für Heizungen, geschlossenen Kreislaufwassersystemen, Brandschutzsystemen (Sprinklern) und Systemen für die Verteilung von Druckluft und Inertgas.

3. Champs d'emploi

La gamme FRABOPRESS C-STEEL V est la réponse idéale pour les installations de chauffage à circuit fermé, les installations d'eau à circuit fermé et de protection contre les incendies (sprinkler), les installations pour la distribution de gaz inertes et les systèmes d'air comprimé.

3. Aplicaciones

La gama FRABOPRESS C-STEEL V es ideal en la realización de instalaciones de agua o calefacción de circuito cerrado, instalaciones de protección contra incendios (rociadores) e instalaciones de aire comprimido y distribución de gases inertes.

3. Области применения

Серия FRABOPRESS C-STEEL V идеальна для систем отопления и водоснабжения закрыто типа, противопожарных систем (разбрызгиватели), систем сжатого воздуха и распределения инертных газов.



HEATING



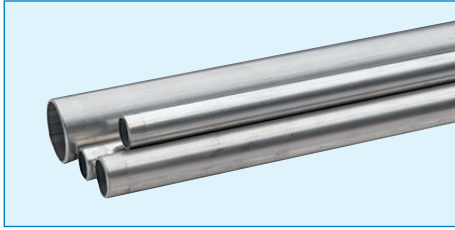
HVAC



COMPRESSED
AIR



FIREFIGHTING



Art. ACTBZN

EN 10305 external internal zinc plated carbon steel pipe.

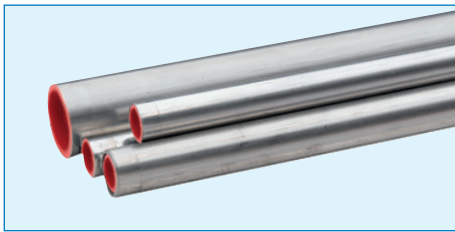
Rohr aus galvanisiertem Kohlenstoffstahl EN 10305 Innen und aussen verzinkt.

Tube en acier au carbone zingué à l'intérieur et à l'extérieur EN 10305.

Tubo de acero al carbono cincado internamente y externamente EN 10305.

Труба из оцинкованной стали наружная и внутренняя, EN 10305.

SIZE ABMESSUNG	SP	m/BAR m/STANGE	m/SMALL BUNCH m/KLEINES BÜNDEL	m/STANDARD BUNCH m/STANDARD BÜNDEL	CODE
15	1,2	6	120	1.026	ACTBZN015012000
18	1,2	6	90	990	ACTBZN018012000
22	1,5	6	60	1.188	ACTBZN022015000
28	1,5	6	60	762	ACTBZN028015000
35	1,5	6	30	762	ACTBZN035015000
42	1,5	6	30	552	ACTBZN042015000
54	1,5	6	30	366	ACTBZN054015000
76,1	2	6	6	234	ACTBZN076020000
88,9	2	6	6	234	ACTBZN089020000
108	2	6	6	114	ACTBZN108020000



Art. ACTBFZ

EN 10305 external zinc plated carbon steel pipe.

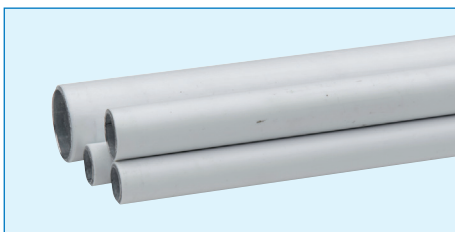
C-Stahlrohre elektrolytisch aussen verzinkt.

Tube en acier au carbone zingué à l'extérieur EN 10305.

Tubo de acero al carbono cincado externamente EN 10305.

Труба из оцинкованной стали наружная, EN 10305.

SIZE ABMESSUNG	SP	m/BAR m/STANGE	m/SMALL BUNCH m/KLEINES BÜNDEL	m/STANDARD BUNCH m/STANDARD BÜNDEL	CODE
12	1,2	6	120	624	ACTBFZ012012000
15	1,2	6	120	1.290	ACTBFZ015012000
18	1,2	6	90	1.524	ACTBFZ018012000
22	1,5	6	60	1.290	ACTBFZ022015000
28	1,5	6	60	624	ACTBFZ028015000
35	1,5	6	30	402	ACTBFZ035015000
42	1,5	6	30	402	ACTBFZ042015000
54	1,5	6	30	366	ACTBFZ054015000
76,1	2	6	6	222	ACTBFZ076020000
88,9	2	6	6	114	ACTBFZ089020000
108	2	6	6	114	ACTBFZ108020000



Art. ACTBPP

Covered zinc plated carbon steel pipe.

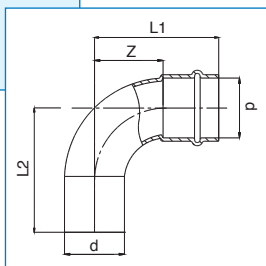
Rohr aus verzinktem Stahl in Kunststoffbeschichtet.

Tube en acier au carbone zingué avec revêtement en plastique.






Tubo de acero al carbono cincado revestido.

Труба из оцинкованной стали с пластиковым покрытием.

SIZE ABMESSUNG	SP	m/BAR m/STANGE	m/SMALL BUNCH m/KLEINES BÜNDEL	m/STANDARD BUNCH m/STANDARD BÜNDEL	CODE
15	1,2	6	120	1.014	ACTBPP015012000
18	1,2	6	90	1.014	ACTBPP018012000
22	1,5	6	60	1.188	ACTBPP022015000
28	1,5	6	60	762	ACTBPP028015000
35	1,5	6	30	762	ACTBPP035015000
42	1,5	6	30	552	ACTBPP042015000
54	1,5	6	30	366	ACTBPP054015000



Art. ZC0001

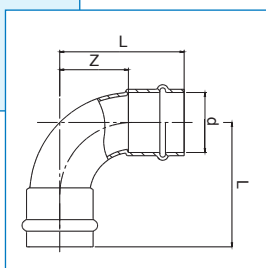
-  M/F 90° elbow.
-  Bogen 90° I/A.
-  Courbe 90° M/F.
-  Curva 90° M/H.
-  Угол 90° H-B.

PATENTED








d	BAG	MASTER BOX	CODE	L1	L2	Z
12	10	200	ZC0001012012000	33	34	15
15	10	200	ZC0001015015000	40	42	18
18	10	150	ZC0001018018000	45	47	22
22	10	80	ZC0001022022000	50	52	26
28	5	40	ZC0001028028000	56	61	34
35	5	30	ZC0001035035000	68	70	42
42	1	10	ZC0001042042000	87	88	51
54	1	7	ZC0001054054000	105	107	65

The big-size, item AC0001, is available. See at page 154 - Big-size, Artikel AC0001, ist verfügbar. Bitte sehen Sie Seite 154.



Art. ZC0002

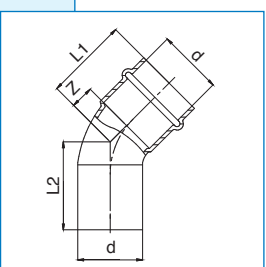
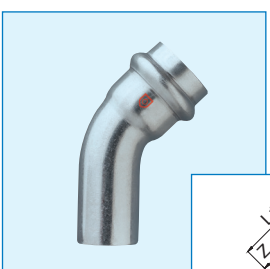
-  F/F 90° elbow.
-  Bogen 90° I/I.
-  Courbe 90° F/F.
-  Curva 90° H/H.
-  Угол 90° B-B.

PATENTED



d	BAG	MASTER BOX	CODE	L	Z
12	10	150	ZC0002012012000	33	15
15	10	150	ZC0002015015000	40	18
18	10	100	ZC0002018018000	45	22
22	10	60	ZC0002022022000	50	26
28	5	40	ZC0002028028000	59	34
35	5	30	ZC0002035035000	68	42
42	1	10	ZC0002042042000	87	51
54	1	7	ZC0002054054000	105	65

The big-size, item AC0002, is available. See at page 154 - Big-size, Artikel AC0002, ist verfügbar. Bitte sehen Sie Seite 154.



Art. ZC0040

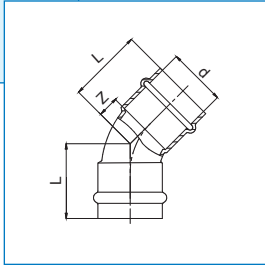
-  M/F 45° elbow.
-  Bogen 45° I/A.
-  Courbe 45° M/F.
-  Curva 45° M/H.
-  Угол 45° H-B.

PATENTED



d	BAG	MASTER BOX	CODE	L1	L2	Z
12	10	250	ZC0040012012000	25	27	7
15	10	200	ZC0040015015000	29	31	7
18	10	150	ZC0040018018000	31	33	8
22	10	100	ZC0040022022000	34	36	10
28	5	60	ZC0040028028000	38	40	13
35	5	40	ZC0040035035000	43	45	17
42	5	20	ZC0040042042000	53	55	17
54	1	10	ZC0040054054000	68	70	28

The big-size, item AC0040, is available. See at page 154 - Big-size, Artikel AC0040, ist verfügbar. Bitte sehen Sie Seite 154.



Art. ZC0041

F/F 45° elbow.

Bogen 45° I/I.

Courbe 45° F/F.

Curva 45° H/H.

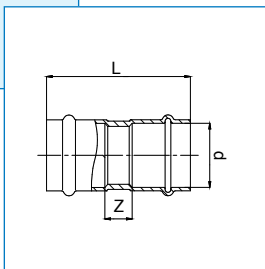
Угол 45° B-B.

PATENTED



d	BAG	MASTER BOX	CODE	L	Z
12	10	200	ZC0041012012000	25	7
15	10	200	ZC0041015015000	29	7
18	10	150	ZC0041018018000	31	8
22	10	80	ZC0041022022000	34	10
28	5	60	ZC0041028028000	38	13
35	5	40	ZC0041035035000	43	17
42	5	20	ZC0041042042000	53	17
54	1	10	ZC0041054054000	68	22

The big-size, item AC0041, is available. See at page 155 - Big-size, Artikel AC0041, ist verfügbar. Bitte sehen Sie Seite 155.



Art. ZC0270

F/F coupling.

Muffe I/I.

Manchon avec flexion F/F.

Manguito con remante H/H.

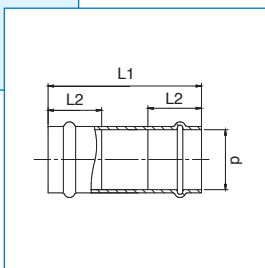
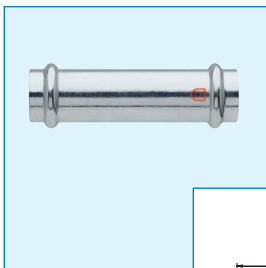
Муфта с упором B-B.

PATENTED



d	BAG	MASTER BOX	CODE	L	Z
12	10	300	ZC0270012012000	57	21
15	10	200	ZC0270015015000	60	16
18	10	150	ZC0270018018000	70	24
22	10	100	ZC0270022022000	72	24
28	10	50	ZC0270028028000	74	24
35	5	40	ZC0270035035000	76	24
42	5	25	ZC0270042042000	98	26
54	1	15	ZC0270054054000	107	27

The big-size, item AC0270, is available. See at page 155 - Big-size, Artikel AC0270, ist verfügbar. Bitte sehen Sie Seite 155.



Art. ZC0271

F/F slip coupling.

Schiebemuffe I/I.

Manchon coulissant F/F.

Manguito de paso H/H.

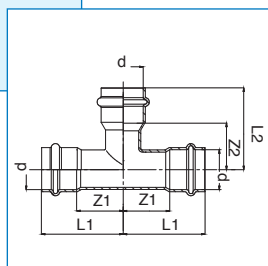
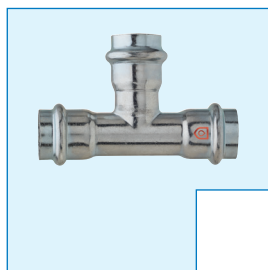
Муфта проходная B-B.

PATENTED



d	BAG	MASTER BOX	CODE	L1	L2
12	10	200	ZC0271012012000	57	18
15	10	150	ZC0271015015000	85	22
18	10	100	ZC0271018018000	96	23
22	5	30	ZC0271022022000	97	24
28	5	30	ZC0271028028000	107	25
35	1	20	ZC0271035035000	116	26
42	1	20	ZC0271042042000	142	36
54	1	10	ZC0271054054000	163	40

The big-size, item AC0271, is available. See at page 155 - Big-size, Artikel AC0271, ist verfügbar. Bitte sehen Sie Seite 155.



Art. ZC0130

F/F/F tee.

T-Stück /I/I.

Té F/F/F.

T H/H/H.

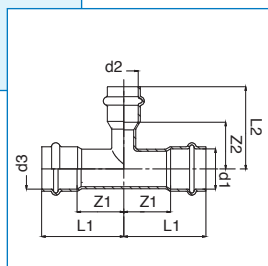
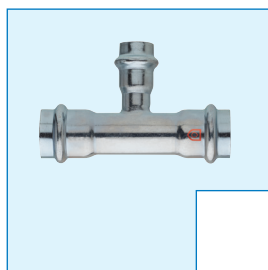
Тройник В-В-В.

PATENTED



d	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
12	10	100	ZC0130012012012	29	30	11	12
15	10	100	ZC0130015015015	41	42	19	20
18	10	50	ZC0130018018018	46	56	23	33
22	5	40	ZC0130022022022	49	54	25	30
28	5	30	ZC0130028028028	58	58	33	33
35	5	20	ZC0130035035035	58	62	32	36
42	1	10	ZC0130042042042	71	75	35	39
54	1	10	ZC0130054054054	82	86	42	46

The big-size, item AC0130, is available. See at page 156 - Big-size, Artikel AC0130, ist verfügbar. Bitte sehen Sie Seite 156.



Art. ZC0131

F/F/F reducing tee.

T-Stück reduziert /I/I.

Té réduit F/F/F.

T reducido H/H/H.

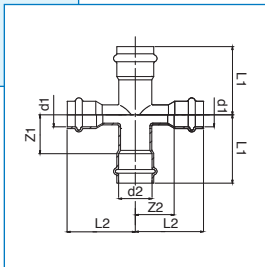
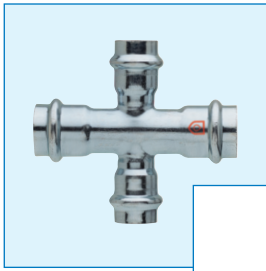
Тройник уменьшенного размера В-В-В.

PATENTED



d1xd2xd3	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
12x15x12	10	100	ZC0131012015012	29	39	11	21
15x12x12	10	50	ZC0131015012012	40	30	18	12
15x12x15	10	50	ZC0131015012015	41	42	19	24
15x22x15	10	70	ZC0131015022015	42	46	20	22
18x15x18	10	80	ZC0131018015018	45	42	22	20
18x22x18	5	50	ZC0131018022018	45	48	22	24
22x12x22	5	50	ZC0131022012022	49	39	25	21
22x15x22	5	50	ZC0131022015022	49	47	25	25
22x18x22	5	50	ZC0131022018022	49	45	25	22
22x28x22	5	40	ZC0131022028022	49	49	25	24
28x15x28	5	30	ZC0131028015028	54	56	29	34
28x18x28	5	30	ZC0131028018028	58	55	33	32
28x22x28	5	30	ZC0131028022028	58	54	33	30
35x15x35	5	25	ZC0131035015035	58	56	32	34
35x18x35	5	25	ZC0131035018035	58	58	32	35
35x22x35	5	20	ZC0131035022035	58	49	32	25
35x28x35	5	20	ZC0131035028035	58	61	32	36
42x22x42	3	15	ZC0131042022042	71	63	35	39
42x28x42	1	10	ZC0131042028042	71	64	35	39
42x35x42	1	10	ZC0131042035042	71	67	35	41
54x22x54	1	10	ZC0131054022054	82	72	42	48
54x28x54	1	10	ZC0131054028054	82	74	42	49
54x35x54	1	10	ZC0131054035054	82	76	42	50
54x42x54	1	10	ZC0131054042054	82	82	42	46

The big-sizes, items AC0131 and ACM131, are available. See at page 157 - Big-sizes, Artikel AC0131 und ACM131, sind verfügbar. Bitte sehen Sie Seite 157.



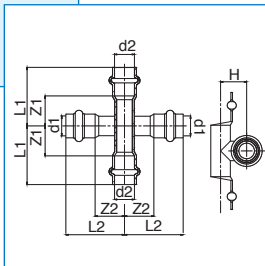
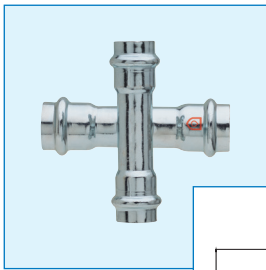
Art. ZC0140

-  F/F/F/F cross.
-  Kreuzstück I/I/I/I.
-  Croix F/F/F/F.
-  Cruz H/H/H/H.
-  Крестовина В-В-В-В.






PATENTED



d1xd2	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
12x12	5	50	ZC0140012012000	40	40	22	22
18x15	5	40	ZC0140018015000	44	46	22	23
22x15	5	30	ZC0140022015000	50	49	28	25
22x18	5	30	ZC0140022018000	51	49	28	25
28x15	5	30	ZC0140028015000	52	58	30	33
28x18	5	30	ZC0140028018000	59	58	36	33
28x22	5	30	ZC0140028022000	57	58	33	33
35x22	5	20	ZC0140035022000	61	58	37	32
42x22	5	10	ZC0140042022000	63	71	39	35
54x22	5	10	ZC0140054022000	71	82	47	42
54x28	1	5	ZC0140054028000	72	82	47	42



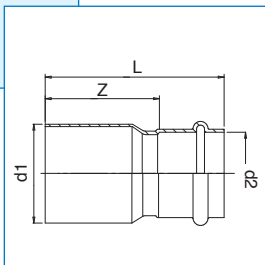
Art. ZC0150

-  F/F/F/F offset cross.
-  Ausserachsiges Kreuz I/I/I/I.
-  Croix désaxée F/F/F/F.
-  Cruz desplazamiento H/H/H/H.
-  Крестовина со смещенной осью В-В-В-В.

PATENTED



d1xd2	BAG	MASTER BOX	CODE	L1	L2	H	Z1	Z2
12x12	5	30	ZC0150012012000	40	40	28	22	22
15x12	5	50	ZC0150015012000	41	41	28	22	19
15x15	5	40	ZC0150015015000	41	41	28	19	19
18x15	5	40	ZC0150018015000	41	46	30	19	23
22x12	5	30	ZC0150022012000	40	49	32	22	25
22x15	5	30	ZC0150022015000	41	49	32	19	25
22x18	5	30	ZC0150022018000	46	49	33	23	25
28x15	5	20	ZC0150028015000	41	58	35	19	33
28x18	5	15	ZC0150028018000	46	58	36	23	33
28x22	5	30	ZC0150028022000	49	58	38	25	33
35x22	5	15	ZC0150035022000	49	58	41	25	32
42x22	1	10	ZC0150042022000	49	71	45	25	35
54x22	1	10	ZC0150054022000	49	82	51	25	42



Art. ZC0243

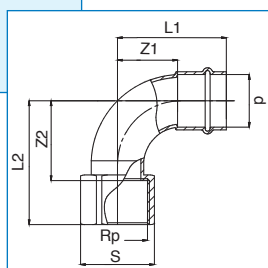
-  M/F reducer.
-  Reduzierstück I/A.
-  Réduction M/F.
-  Reducción M/H.
-  Муфта редуцирующая Н-В.

PATENTED



d1xd2	BAG	MASTER BOX	CODE	L	Z
15x12	10	50	ZC0243015012000	45	27
18x15	10	200	ZC0243018015000	74	52
22x12	10	50	ZC0243022012000	56	38
22x15	10	150	ZC0243022015000	57	35
22x18	10	150	ZC0243022018000	58	35
28x15	5	100	ZC0243028015000	59	37
28x18	10	100	ZC0243028018000	72	49
28x22	10	100	ZC0243028022000	69	45
35x18	5	50	ZC0243035018000	78	55
35x22	10	60	ZC0243035022000	74	50
35x28	10	50	ZC0243035028000	77	52
42x28	5	40	ZC0243042028000	97	72
42x35	5	40	ZC0243042035000	87	61
54x22	5	20	ZC0243054022000	112	88
54x28	5	20	ZC0243054028000	117	92
54x35	5	20	ZC0243054035000	111	85
54x42	5	20	ZC0243054042000	115	79

The big-sizes, items AC0243 and ACM243, are available. See at page 159 - Big-sizes, Artikel AC0243 und ACM243, sind verfügbar. Bitte sehen Sie Seite 159.



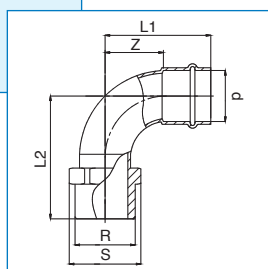
Art. ZCOF90

- F/female thread elbow.
- Bogen I mit I Gewinde.
- Coude F/filetage femelle.
- Codo mixto H/rosca hembra.
- Yron B-B(Rp).

PATENTED



Rpxd	BAG	MASTER BOX	CODE	L1	L2	S	Z1	Z2
1/2"x15	10	100	ZCOF90A12015000	42	45	27	20	32
1/2"x18	10	150	ZCOF90A12018000	45	50	27	22	37
3/4"x18	10	80	ZCOF90A34018000	45	53	32	22	38
3/4"x22	10	50	ZCOF90A34022000	51	53	32	27	38
1"x28	5	30	ZCOF90B01028000	61	70	38	36	54
1"x35	5	20	ZCOF90B01035000	69	79	38	43	60
1"1/4 x35	1	20	ZCOF90B14035000	69	82	48	43	61
1"1/2x42	1	10	ZCOF90B12042000	89	87	55	53	66
1"1/2x54	1	10	ZCOF90B12054000	114	99	60	74	78
2"x54	1	5	ZCOF90C02054000	114	110	70	74	85



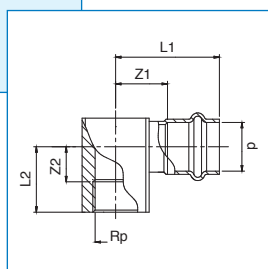
Art. ZCOF92

- F/male thread elbow.
- Bogen mit A Gewinde.
- Coude F/filetage mâle.
- Codo mixto H/rosca macho.
- Yron B-H(R).

PATENTED



Rxd	BAG	MASTER BOX	CODE	L1	L2	S	Z
3/8"x15	10	100	ZCOF92A38015000	42	38	21	22
1/2"x15	10	100	ZCOF92A12015000	42	39	21	22
1/2"x18	10	80	ZCOF92A12018000	45	43	21	22
3/4"x22	10	80	ZCOF92A34022000	51	47	27	27
1"x28	5	30	ZCOF92B01028000	61	67	34	36
1"1/4x35	5	20	ZCOF92B14035000	69	81	42	43
1"1/2x35	1	15	ZCOF92B12035000	69	84	48	43
1"1/2x42	5	15	ZCOF92B12042000	89	81	50	53
2"x54	1	8	ZCOF92C02054000	114	106	60	74



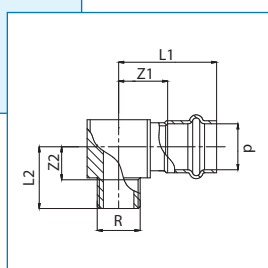
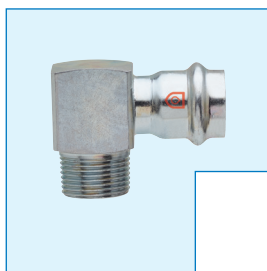
Art. ZCF90Q

- F/female thread elbow.
- Bogen I mit I Gewinde.
- Coude F/filetage femelle.
- Codo mixto H/rosca hembra.
- Yron B-B(Rp).

PATENTED



Rpxd	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
1/2"x15	5	80	ZCF90QA12015000	46	26	24	11
1/2"x18	5	40	ZCF90QA12018000	50	26	27	11
1/2"x22	5	25	ZCF90QA12022000	49	28	25	13
1/2"x28	10	25	ZCF90QA12028000	52	31	27	16
3/4"x22	5	25	ZCF90QA34022000	52	28	28	13



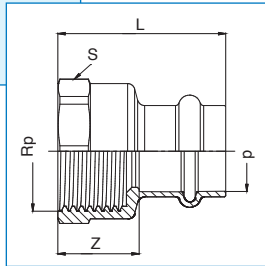
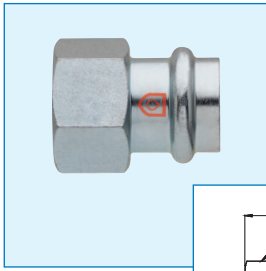
Art. ZCF92Q

- F/male thread elbow.
- Bogen mit A Gewinde.
- Coude F/filetage mâle.
- Codo mixto H/rosca macho.
- Yron B-H(R).

PATENTED



Rxd	BAG	MASTER BOX	CODE	L1	L2	Z1	Z2
3/8"x15	5	80	ZCF92QA38015000	43	24	21	12
1/2"x15	5	80	ZCF92QA12015000	44	28	22	13
1/2"x18	5	80	ZCF92QA12018000	48	28	25	13
3/4"x18	10	50	ZCF92QA34018000	51	30	28	13
3/4"x22	5	50	ZCF92QA34022000	50	33	26	16



Art. ZCF270

F/female thread adapter.

PATENTED

Übergangsstück I mit I Gewinde.

Manchon F/filetage femelle.

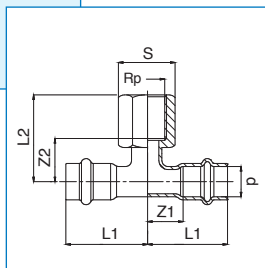
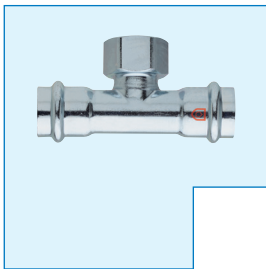
Manguito mixto H/rosca hembra.

Муфта В-В(Rp).



Rpxd	BAG	MASTER BOX	CODE	L	S	Z
3/8"x12	10	100	ZCF270A38012000	31	21	13
3/8"x15	10	100	ZCF270A38015000	46	21	24
1/2"x12	10	100	ZCF270A12012000	34	25	16
1/2"x15	10	200	ZCF270A12015000	50	25	28
1/2"x18	10	150	ZCF270A12018000	54	25	31
1/2"x22	10	100	ZCF270A12022000	55	32	31
3/4"x18	10	100	ZCF270A34018000	55	32	32
3/4"x22	10	100	ZCF270A34022000	44	32	20
3/4"x28	5	70	ZCF270A34028000	57	32	32
1"x22	5	50	ZCF270B01022000	59	38	35
1"x28	5	50	ZCF270B01028000	60	38	35
1"x35	5	40	ZCF270B01035000	61	38	35
1"1/4x35	5	30	ZCF270B14035000	63	50	37
1"1/2x35	5	20	ZCF270B12035000	63	55	37
1"1/2x42	1	20	ZCF270B12042000	71	55	35
1"1/2x54	1	15	ZCF270B12054000	84	60	44
2"x54	1	10	ZCF270C02054000	90	64	50

The big-size, item ACF270 is available. See at page 161 - Big-size, Artikel ACF270, ist verfügbar. Bitte sehen Sie Seite 161.



Art. ZCF130

F/female thread/F tee.

PATENTED

T-Stück I mit I Gewinde.

Té F/filetage femelle/F.

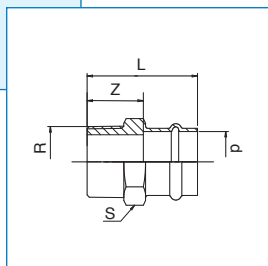
T H/rosca hembra/H.

Тройник В-В(Rp)-В.



Rpxd	BAG	MASTER BOX	CODE	L1	L2	S	Z1	Z2
1/2"x15	10	80	ZCF130015A12015	41	39	27	19	24
1/2"x18	10	60	ZCF130018A12018	46	37	27	23	22
1/2"x22	5	25	ZCF130022A12022	49	39	27	25	24
1/2"x28	5	25	ZCF130028A12028	58	37	27	33	22
1/2"x35	1	15	ZCF130035A12035	58	43	27	32	28
1/2"x42	1	10	ZCF130042A12042	71	47	27	35	32
1/2"x54	1	10	ZCF130054A12054	82	53	27	42	38
3/4"x18	5	50	ZCF130018A34018	46	39	32	23	23
3/4"x22	5	40	ZCF130022A34022	49	41	32	25	25
3/4"x28	5	20	ZCF130028A34028	58	45	32	33	29
3/4"x35	1	20	ZCF130035A34035	58	49	32	32	33
3/4"x42	1	10	ZCF130042A34042	71	52	32	35	36
3/4"x54	1	5	ZCF130054A34054	82	58	32	42	42
1"x28	5	15	ZCF130028B01028	58	46	38	33	27
1"x35	10	10	ZCF130035B01035	58	50	38	32	31
1"x42	10	10	ZCF130042B01042	71	53	38	35	34
1"1/4x35	1	10	ZCF130035B14035	58	55	50	32	34
1"1/2x42	1	10	ZCF130042B12042	71	58	55	35	37
2"x54	1	4	ZCF130054C02054	82	68	70	42	43

The big-size, item ACF130 is available. See at page 156 - Big-size, Artikel ACF130, ist verfügbar. Bitte sehen Sie Seite 156.



Art. ZCF243

F/male thread adapter.

PATENTED

Übergangsstück I mit A Gewinde.

Manchon F/filetage mâle.

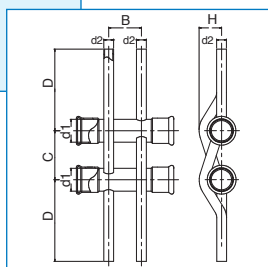
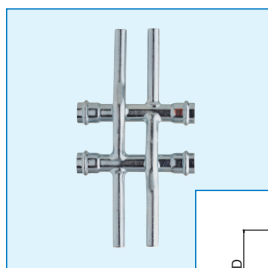
Manguito mixto H/rosca macho.

Муфта B-H(R).



Rxd	BAG	MASTER BOX	CODE	L	S	Z
3/8"x12	10	100	ZCF243A38012000	34	19	16
3/8"x15	10	100	ZCF243A38015000	39	25	17
1/2"x12	10	100	ZCF243A12012000	38	19	20
1/2"x15	10	150	ZCF243A12015000	43	25	21
1/2"x18	10	150	ZCF243A12018000	44	27	21
1/2"x22	10	100	ZCF243A12022000	45	32	21
3/4"x18	10	100	ZCF243A34018000	45	27	22
3/4"x22	10	100	ZCF243A34022000	46	32	22
3/4"x28	5	70	ZCF243A34028000	57	32	32
1"x22	5	50	ZCF243B01022000	55	34	31
1"x28	5	50	ZCF243B01028000	57	34	32
1"x35	5	40	ZCF243B01035000	60	38	34
1"1/4x35	5	40	ZCF243B14035000	60	42	34
1"1/2x35	5	20	ZCF243B12035000	62	48	36
1"1/2x42	5	20	ZCF243B12042000	72	50	36
2"x54	1	10	ZCF243C02054000	83	60	43

The big-size, item ACF243 is available. See at page 161 - Big-size, Artikel ACF243, ist verfügbar. Bitte sehen Sie Seite 161.



Art. ZC0360

Double crossover.

PATENTED

Kreuzfitting.

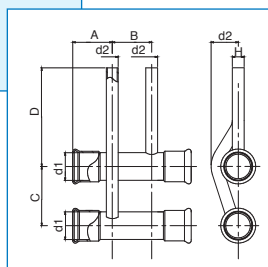
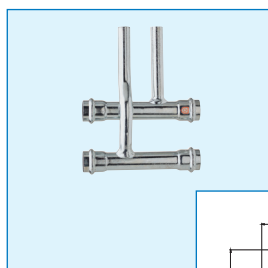
Raccord double aller-retour.

Desviación doble.

Обвод двойной.



d1xd2	BAG	MASTER BOX	CODE	B	C	D	H
12x12	1	5	ZC0360012012000	40	60	100	27
15x12	1	5	ZC0360015012000	40	60	100	28
18x12	1	5	ZC0360018012000	40	60	100	28
18x15	1	5	ZC0360018015000	40	60	100	31
22x12	1	10	ZC0360022012000	40	60	100	30
22x15	1	5	ZC0360022015000	40	60	100	34
28x12	1	5	ZC0360028012000	40	60	100	30
28x15	1	5	ZC0360028015000	40	60	100	35
35x15	1	5	ZC0360035015000	40	60	100	39



Art. ZC0350

Single crossover.

PATENTED

Heizkörperanschluss.

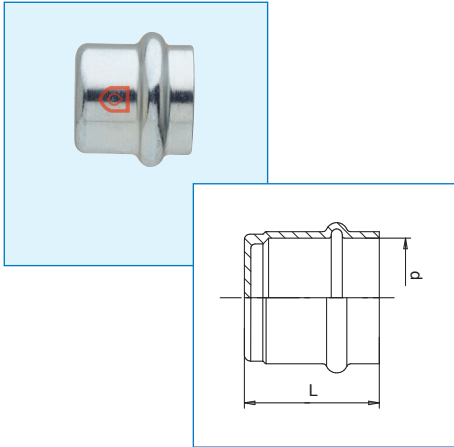
Raccord simple aller-retour.

Desviación sola.

Обвод одинарный.



d1xd2	BAG	MASTER BOX	CODE	A	B	C	D	H
12x12	1	10	ZC0350012012000	40	40	60	100	27
15x12	1	5	ZC0350015012000	40	40	60	100	28
15x15	1	5	ZC0350015015000	40	40	60	100	31
18x12	1	5	ZC0350018012000	40	40	60	100	28
18x15	1	5	ZC0350018015000	40	40	60	100	31
22x12	1	5	ZC0350022012000	40	40	60	100	30
22x15	1	5	ZC0350022015000	40	40	60	100	34
28x12	1	5	ZC0350028012000	40	40	60	100	30
28x15	1	10	ZC0350028015000	40	40	60	100	35
35x15	1	10	ZC0350035015000	50	40	60	100	39



Art. ZC0302

F plug.

Kappe I.

Bouchon F.

Tapón Hembra.

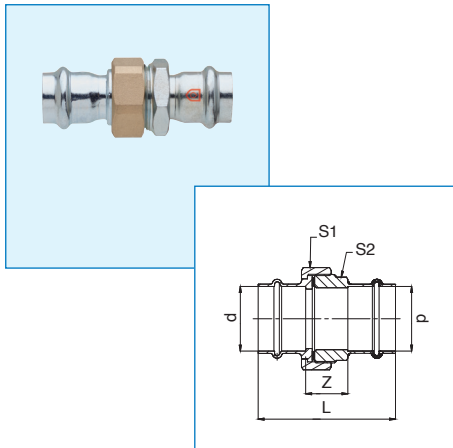
Заглушка В.

PATENTED



d	BAG	MASTER BOX	CODE	L
12	10	200	ZC0302012000000	21
15	10	200	ZC0302015000000	25
18	10	350	ZC0302018000000	26
22	10	200	ZC0302022000000	27
28	10	200	ZC0302028000000	28
35	5	80	ZC0302035000000	29
42	5	20	ZC0302042000000	39
54	5	20	ZC0302054000000	43

The big-size, item AC0302 is available. See at page 158 - Big-size, Artikel AC0302, ist verfügbar. Bitte sehen Sie Seite 158.



Art. ZC0340

F/F flat seat joint.

Rohrverschraubung gerade I/I flachdichtend.

Union F/F à joint plat.

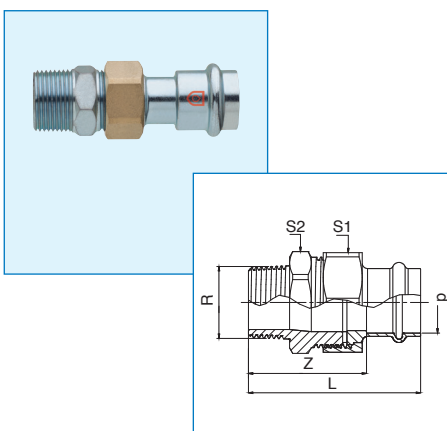
Unión sede plana H/H.

Разъемное соединение с плоским уплотнением В-В.

PATENTED



d	BAG	MASTER BOX	CODE	L	S1	S2	Z
15	5	40	ZC0340015015000	90	24	25	46
18	5	30	ZC0340018018000	100	30	30	54
22	5	30	ZC0340022022000	103	37	34	55
28	5	20	ZC0340028028000	96	46	45	46
35	1	15	ZC0340035035000	125	52	50	73
42	5	10	ZC0340042042000	132	64	60	60
54	5	15	ZC0340054054000	148	85	75	68



Art. ZCF341

F/male thread flat seat joint.

Rohrverschraubung I mit A Gewinde flachdichtend.

Union F/filetage mâle à joint plat.

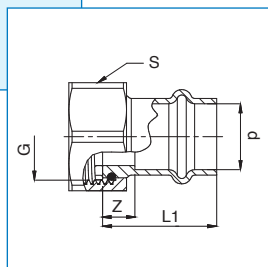
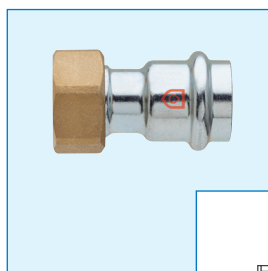
Unión H/rosca macho sede plana.

Разъемное соединение с плоским уплотнением В-Н(Р).






PATENTED



Rxd	BAG	MASTER BOX	CODE	L	S1	S2	Z
1/2"x15	5	50	ZCF341A12015000	66	24	27	44
1/2"x18	5	30	ZCF341A12018000	69	30	30	46
1/2"x22	5	30	ZCF341A12022000	83	30	30	59
3/4"x15	5	50	ZCF341A34015000	69	30	30	47
3/4"x18	5	50	ZCF341A34018000	72	30	30	49
3/4"x22	5	50	ZCF341A34022000	86	30	30	62
1"x22	5	50	ZCF341B01022000	81	37	35	57
1"x28	5	30	ZCF341B01028000	83	46	45	58
1"1/4x35	5	15	ZCF341B14035000	88	52	50	62
1"1/2x42	1	10	ZCF341B12042000	98	64	60	62
2"x54	1	8	ZCF341C02054000	106	85	75	66



Art. ZCF359






-  F/female thread valve connector with a swivel nut in brass.
-  Halbe Verschraubung flachdichtend.
-  Raccord avec écrou en laiton F/filetage femelle.
-  Conexión H/rosca hembra con tuerca giratoria de latón.
-  Соединение с латунной накидной гайкой В(Г)-В.



Gxd	BAG	MASTER BOX	CODE	L1	S	Z
1/2"x15	5	100	ZCF359A12015000	44	24	22
1/2"x18	10	100	ZCF359A12018000	44	24	22
3/4"x15	5	100	ZCF359A34015000	29	30	7
3/4"x18	5	100	ZCF359A34018000	32	30	9
3/4"x22	10	100	ZCF359A34022000	46	30	22
1"x18	5	100	ZCF359B01018000	38	37	14
1"x22	5	100	ZCF359B01022000	38	37	14
1"1/4x28	10	50	ZCF359B14028000	34	46	9
1"1/2x35	5	30	ZCF359B12035000	34	46	9
2"x42	5	20	ZCF359C02042000	48	64	12
2"1/2x54	1	10	ZCF359C12054000	45	85	5



Art. ZCF271

-  Male/female thread adapter.
-  Übergangsstück mit Innengewinde.
-  Manchon M/filetage femelle.
-  Manguito mixto M/rosca hembra.
-  Муфта В-В(Рр).

SEE AT PAGE 164 - BITTE SEHEN SIE SEITE 164 - VOIR PAGE 164 - VER A LA PAGINA 164 - CM. СТРАНИЦЫ 164








Art. ZC0301

-  M plug.
-  Kappe A.
-  Bouchon M.
-  Tapón M.
-  Заглушка Н.

SEE AT PAGE 164 - BITTE SEHEN SIE SEITE 164 - VOIR PAGE 164 - VER A LA PAGINA 164 - CM. СТРАНИЦЫ 164








Art. ZC0025

-  M/M 25° bend.
-  Gebogene Rohrstück A/A 25°.
-  Courbe 25° M/M.
-  Curva 25° M/M.
-  Угол 25° Н-Н.

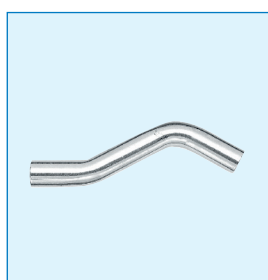
SEE AT PAGE 164 - BITTE SEHEN SIE SEITE 164 - VOIR PAGE 164 - VER A LA PAGINA 164 - CM. СТРАНИЦЫ 164



Art. ZC0045

-  M/M 45° bend.
-  Gebogene Rohrstücke A/A 45°.
-  Courbe 45° M/M.
-  Curva 45° M/M.
-  Угол 45° Н-Н.

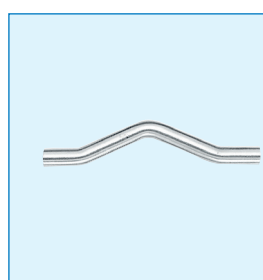
SEE AT PAGE 164 - BITTE SEHEN SIE SEITE 164 - VOIR PAGE 164 - VER A LA PAGINA 164 - CM. СТРАНИЦЫ 164








Art. ZC0084

-  M/M partial crossover.
-  Überbogen kurz A/A.
-  Clarinette M/M.
-  Desviación corta M/M.
-  Обвод короткий Н-Н.

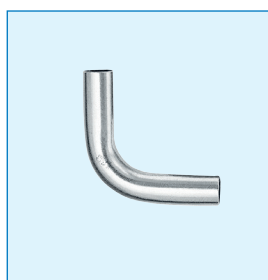
SEE AT PAGE 165 - BITTE SEHEN SIE SEITE 165 - VOIR PAGE 165 - VER A LA PAGINA 165 - CM. СТРАНИЦЫ 165








Art. ZC0087

-  M/M full crossover.
-  Überbogen lang A/A.
-  Chapeau de gendarme M/M.
-  Desviación larga M/M.
-  Обвод длинный Н-Н.

SEE AT PAGE 165 - BITTE SEHEN SIE SEITE 165 - VOIR PAGE 165 - VER A LA PAGINA 165 - CM. СТРАНИЦЫ 165



Art. ZC0090

-  M/M 90° bend.
-  Gebogene Rohrstücke A/A 90°.
-  Courbe 90° M/M.
-  Curva 90° M/M.
-  Угол 90° Н-Н.

SEE AT PAGE 165 - BITTE SEHEN SIE SEITE 165 - VOIR PAGE 165 - VER A LA PAGINA 165 - CM. СТРАНИЦЫ 165



1. Introduction

FRABOPRESS C-STEEL M, with Securfrabo security system, is the patented system of carbon steel pipes and pressfittings available in a dimensional range between 15 and 108 mm. The fittings feature a **M-type pressing profile**.

The zinc plating applied to the pipes and fittings guarantees higher corrosion resistance, ensuring reliability over time. FRABOPRESS C-STEEL M pressfittings are made of carbon steel (material nr. 1.0034) and are electrolytically zinc plated. The threads comply with UNI EN 10226-1 standard. The EPDM sealing gasket is equipped with Securfrabo system for detecting leaks from fittings, which are not pressed.

1. Einführung

FRABOPRESS C-STEEL M mit Securfrabo ist ein System bestehend aus Rohren und Pressfittings aus unlegiertem Stahl, welches im Abmessungsbereich von 15 bis 108 mm erhältlich ist. **M-Profil**. Die Verzinkung der Rohre und Formstücke gewährleistet eine ideale Korrosionsschutzleistung und eine langjährige Zuverlässigkeit.

FRABOPRESS C-STEEL M Pressfittings bestehen aus unlegiertem Stahl (C-Stahl W. 1.0034) und sind elektrolytisch verzinkt. Die Dichtung besteht aus EPDM und ist mit dem Securfrabo-System zur Erkennung von Undichtigkeiten an nicht gepressten Verbindungen ausgestattet.

1. Présentation

FRABOPRESS C-STEEL M, avec système de sécurité Securfrabo, est un système breveté constitué par des tubes et des raccords à sertir en acier au carbone galvanisé disponible dans la gamme dimensionnelle entre 15 et 108 mm. Les raccords ont un **profil** de sertissage de type **M**. Le zingage appliqué aux tubes et raccords assure un niveau de performance anticorrosion plus élevé et une fiabilité durable dans le temps. Les raccords FRABOPRESS C-STEEL M sont en acier au carbone (n° matériau 1.0034) et sont galvanisés par électrolyse et filetés conformément à la norme UNI EN 10226-1. Le joint d'étanchéité est en EPDM et est équipé du système Securfrabo pour la détection des fuites des raccords non sertis.

1. Presentación

FRABOPRESS C-STEEL M, con sistema de seguridad Securfrabo, es un sistema patentado constituido por tubería y racores para prensar de acero al carbono disponible en la gama dimensional desde 15 hasta 108 mm. Los racores tienen un **perfil** de tipo **M**.

El tratamiento galvanico especial de cincado aplicado a la tubería y a los racores aumenta significativamente los tiempos de oxidación por los agentes corrosivos habituales, garantizando una fiabilidad durable. Los racores para prensar FRABOPRESS C-STEEL M son de acero al carbono (n° maerial 1.0034) y cincados electrolíticamente y con roscas que cumplen con la norma UNI EN 10226-1.

La junta tórica es de EPDM y equipada con el sistema Securfrabo para detectar las fugas si la conexión no se ha prensado.

1. Описание

FRABOPRESS C-STEEL M с системой безопасности Securfrabo представляет собой систему из труб и пресс-фитингов из нелегированной стали, с размерным рядом от 15 до 108 мм. Пресс-фитинги имеют **М профиль**.

Оцинковка труб и соединений гарантирует превосходные антикоррозийные характеристики, обеспечивая надежность на долгое время. Пресс-фитинги FRABOPRESS C-STEEL M выполнены из нелегированной стали (сталь 1.0034) и оцинкованы электролитическим методом. Резьба в соответствии с нормативом UNI EN 10226-1.

Уплотнительная прокладка из EPDM снабжена системой Securfrabo для выявления протечек на неопрессованных фитингах.

2. Advantages

- Safety: in fittings with dimensions between 15 and 54 mm, thanks to Securfrabo **security system**, it is possible to find immediately a leakage of an unpressed fitting during the pressure test.
- Easy and quick installation, typical of pressing technique.
- Excellent hydraulic and mechanical seal.
- Perfect material to contain system construction costs.
- Total protective galvanizing.

2. Vorteile

- Sicherheit: Securfrabo-**Sicherheitssystem** welches versehentliche nicht gepresst Stellen bei der Druckprobe signalisiert (15-54 mm).
- Einfache und schnelle Installation.

- Hohe hydraulische und mechanische Abdichtung.
- Ideales Material zur Eindämmung der Kosten für den Bau der Anlage.
- Vollständige Schutzverzinkung (sowohl extern als auch intern).

2. Avantages

- Sécurité: grâce au **système de sécurité** Securfrabo (pour les dimensions entre 15 et 54 mm), il est possible de détecter la fuite du fluide dans la phase de test de l'installation, si le raccord n'a pas été serti.
- Facilité et rapidité d'installation, typiques de la technique de jonction à sertir.
- Grande étanchéité hydraulique et mécanique.
- Matériau idéal pour contenir les coûts de réalisation de l'installation.
- Zingage de protection totale (interne et externe).

2. Ventajas

- Seguridad: por los diámetros desde 15 hasta 54 mm, el **sistema de seguridad** Securfrabo permite detectar una fuga de fluido durante la prueba de la instalación, si la conexión no se ha prensado.
- Facilidad y velocidad de instalación, típicas de las conexiones para prensar.
- Estanqueidad idráulica y mecánica elevada.
- Material ideal para reducir los costes de realización de la instalación.
- Galvanización protectora total (externamente y internamente).

2. Преимущества

- Безопасность: благодаря запатентованной **системе безопасности** Securfrabo, у фитингов с размерами от 15 до 54 mm возможно обнаружение протечки в момент испытания системы, в случае, если фитинг не был опрессован.
- Простота и скорость монтажа, характерные для техники выполнения пресс-соединений.
- Повышенная гидравлическая и механическая герметичность.
- Идеальный материал для снижения затрат на систему.
- Полная защитная оцинковка (внешняя и внутренняя).

3. Applications

FRABOPRESS C-STEEL M range has many different possible applications: closed-circuit heating/cooling systems, compressed-air systems, distribution of inert gases, (sprinkler) firefighting systems and closed-circuit water systems.

3. Anwendungsbereiche

Die FRABOPRESS C-STEEL M Serie eignet sich für die Installation von geschlossenen Kreislaufsystemen für Heizungen, geschlossenen Kreislaufwassersystemen, Brandschutzsystemen (Sprinklern) und Systemen für die Verteilung von Druckluft und Inertgas.

3. Champs d'emploi

La gamme FRABOPRESS C-STEEL M a un grand nombre d'applications possibles: les installations de chauffage à circuit fermé, les installations pour la distribution de gaz inertes et les systèmes d'air comprimé, les installations de protection contre les incendies (sprinkler) et d'eau à circuit fermé.

3. Aplicaciones

La gama FRABOPRESS C-STEEL M es ideal en la realización de instalaciones de agua o calefacción de circuito cerrado, instalaciones de protección contra incendios (rociadores) e instalaciones de aire comprimido y distribución de gases inertes.

3. Области применения

Серия FRABOPRESS C-STEEL M может похвастаться большим количеством возможных сфер применения: системы отопления закрытого типа, системы сжатого воздуха и распределения инертных газов, противопожарные системы (разбрызгиватели) и закрытые системы водоснабжения.



HEATING



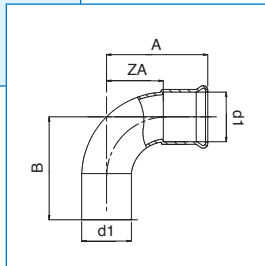
HVAC








COMPRESSED
AIR



FIREFIGHTING



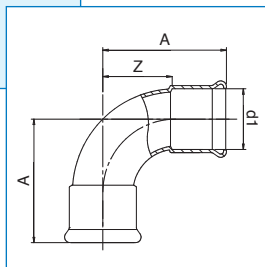
Art. **CM0001**
AC0001

-  M/F 90° elbow.
-  Bogen 90° I/A.
-  Courbe 90° M/F.
-  Curva 90° M/H.
-  Угол 90° H-B.



PATENTED



d1	BAG	MASTER BOX	CODE	A	B	ZA
15	10	200	CM0001015015000	36	42	16
18	10	150	CM0001018018000	41	50	21
22	10	80	CM0001022022000	46	53	23
28	5	40	CM0001028028000	57	60	34
35	5	30	CM0001035035000	62	75	36
42	1	10	CM0001042042000	76	94	46
54	1	7	CM0001054054000	94	110	59
66,7	1	10	AC0001067067000	135	145	80
76,1	1	6	AC0001076076000	146	157	91
88,9	1	4	AC0001089089000	167	178	107
108	1	2	AC0001108108000	200	212	130



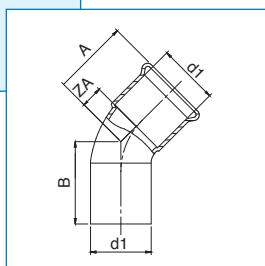
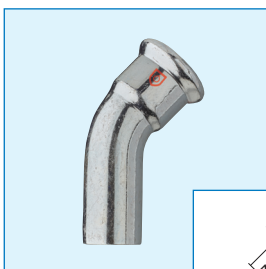
Art. **CM0002**
AC0002

-  F/F 90° elbow.
-  Bogen 90° I/I.
-  Courbe 90° F/F.
-  Curva 90° H/H.
-  Угол 90° B-B.






PATENTED



d1	BAG	MASTER BOX	CODE	A	Z
15	10	150	CM0002015015000	36	16
18	10	100	CM0002018018000	41	21
22	10	60	CM0002022022000	46	23
28	5	40	CM0002028028000	57	34
35	5	30	CM0002035035000	62	36
42	1	10	CM0002042042000	76	46
54	1	7	CM0002054054000	94	59
66,7	1	10	AC0002067067000	125	80
76,1	1	4	AC0002076076000	146	91
88,9	1	4	AC0002089089000	167	107
108	1	2	AC0002108108000	200	130



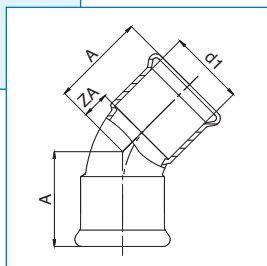
Art. **CM0040**
AC0040

-  M/F 45° elbow.
-  Bogen 45° I/A.
-  Courbe 45° M/F.
-  Curva 45° M/H.
-  Угол 45° H-B.

PATENTED



d1	BAG	MASTER BOX	CODE	A	B	ZA
15	10	200	CM0040015015000	28	37	9
18	10	150	CM0040018018000	29	37	10
22	10	100	CM0040022022000	34	42	13
28	5	60	CM0040028028000	37	42	15
35	5	40	CM0040035035000	44	46	19
42	5	20	CM0040042042000	51	68	22
54	1	10	CM0040054054000	62	72	28
66,7	1	10	AC0040067067000	78	88	33
76,1	1	10	AC0040076076000	93	104	38
88,9	1	6	AC0040089089000	104	115	44
108	1	2	AC0040108108000	124	136	68



Art. **CM0041** **AC0041**

F/F 45° elbow.

Bogen 45° I/I.

Courbe 45° F/F.

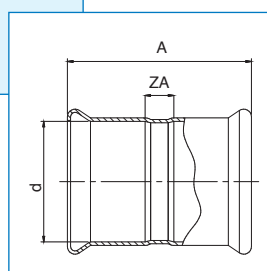
Curva 45° H/H.

Угол 45° B-B.

PATENTED



d1	BAG	MASTER BOX	CODE	A	ZA
15	10	200	CM0041015015000	28	9
18	10	150	CM0041018018000	29	10
22	10	80	CM0041022022000	34	13
28	5	60	CM0041028028000	37	15
35	5	40	CM0041035035000	44	19
42	5	20	CM0041042042000	51	22
54	1	10	CM0041054054000	62	28
66,7	1	15	AC0041067067000	78	33
76,1	1	10	AC0041076076000	93	38
88,9	1	6	AC0041089089000	104	44
108	1	3	AC0041108108000	124	68



Art. **CM0270** **AC0270**

F/F coupling.

Muffe I/I.

Manchon avec flexion F/F.

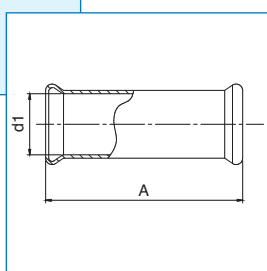
Manguito con remante H/H.

Муфта с упором B-B.

PATENTED



d	BAG	MASTER BOX	CODE	A	ZA
15	10	200	CM0270015015000	50	12
18	10	150	CM0270018018000	48	10
22	10	100	CM0270022022000	57	15
28	10	50	CM0270028028000	57	13
35	5	40	CM0270035035000	68	18
42	5	25	CM0270042042000	74	16
54	1	15	CM0270054054000	86	18
66,7	1	10	AC0270067067000	130	40
76,1	1	10	AC0270076076000	152	50
88,9	1	5	AC0270089089000	175	54
108	1	5	AC0270108108000	204	66



Art. **CM0271** **AC0271**

F/F slip coupling.

Schiebemuffe I/I.

Manchon coulissant F/F.

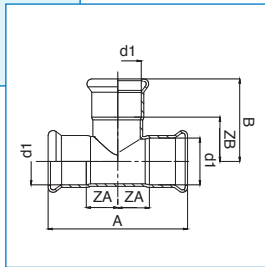
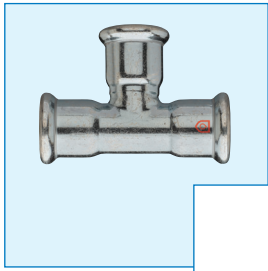
Manguito de paso H/H.

Муфта проходная B-B.

PATENTED



d1	BAG	MASTER BOX	CODE	A
15	10	150	CM0271015015000	76
18	10	100	CM0271018018000	80
22	5	30	CM0271022022000	82
28	5	30	CM0271028028000	92
35	1	20	CM0271035035000	102
42	1	20	CM0271042042000	118
54	1	10	CM0271054054000	140
66,7	1	10	AC0271067067000	232
76,1	1	8	AC0271076076000	242
88,9	1	6	AC0271089089000	272
108	1	3	AC0271108108000	324



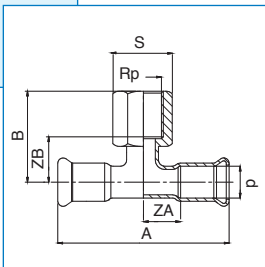
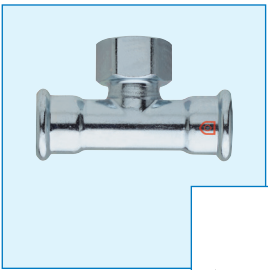
Art. CM0130 AC0130

-  F/F/F tee.
-  T-Stück I/I/I.
-  Té F/F/F.
-  T H/H/H.
-  Тройник В-В-В.

PATENTED



d1	BAG	MASTER BOX	CODE	A	B	ZA	ZB
15	10	100	CM0130015015015	75	38	18,5	19
18	10	50	CM0130018018018	80	39	21	20
22	5	40	CM0130022022022	82	44	20	23
28	5	30	CM0130028028028	92	49	24	27
35	5	20	CM0130035035035	102	57	26	32
42	1	10	CM0130042042042	118	69	30	40
54	1	10	CM0130054054054	142	79	37	45
66,7	1	8	AC0130067067067	182	104	46	59
76,1	1	5	AC0130076076076	242	121,5	66	66,5
88,9	1	4	AC0130089089089	272	133	76	73
108	1	2	AC0130108108108	324	165	92	95



Art. CMF130 ACF130

-  F/female thread/F tee.
-  T-Stück I mit I Gewinde.
-  Té F/filetage femelle/F.
-  T H/rosca hembra/H.
-  Тройник В-В(Rp)-В.

PATENTED



Rpxd	BAG	MASTER BOX	CODE	A	B	S	ZA	ZB
1/2"x15	10	80	CMF130015A12015	74	39	26	21	-
1/2"x18	10	60	CMF130018A12018	80	37	26	21	-
1/2"x22	5	50	CMF130022A12022	82	39	26	20	-
1/2"x28	5	25	CMF130028A12028	92	37	26	24	-
1/2"x35	1	15	CMF130035A12035	102	43	26	26	-
1/2"x42	1	10	CMF130042A12042	118	47	26	30	-
1/2"x54	1	10	CMF130054A12054	140	53	26	36	-
3/4"x18	5	50	CMF130018A34018	80	39	31	21	-
3/4"x22	5	40	CMF130022A34022	82	41	31	20	-
3/4"x28	5	20	CMF130028A34028	92	45	31	24	-
3/4"x35	1	20	CMF130035A34035	102	49	31	26	-
3/4"x42	1	10	CMF130042A34042	118	52	31	30	-
3/4"x54	1	5	CMF130054A34054	140	58	31	36	-
3/4"x76,1	1	8	ACF130076A34076	152	69	-	25	51
3/4"x88,9	1	5	ACF130089A34089	175	76	-	27	58
3/4"x108	1	3	ACF130108A34108	204	85	-	33	67
1"x28	5	15	CMF130028B01028	92	46	37	24	-
1"x35	10	10	CMF130035B01035	102	57	37	26	-
1"x42	10	10	CMF130042B01042	118	60	37	30	-
1"1/4x35	1	10	CMF130035B14035	102	55	48	26	-
1"1/2x42	1	10	CMF130042B12042	118	58	54	30	-
2"x54	1	4	CMF130054C02054	140	66	37	36	-

Art. **CM0131**
ACM131
AC0131

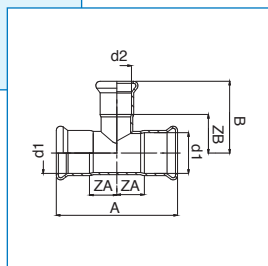
 F/F/F reducing tee.

 T-Stück reduziert I/I/I.

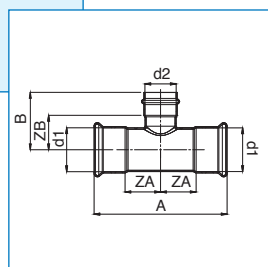
 Té réduit F/F/F.

 T reducido H/H/H.

 Тройник уменьшенного размера В-В-В.

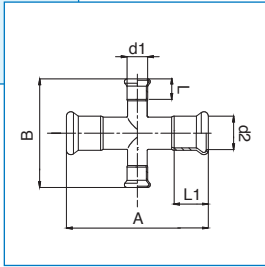


d1xd2xd1	BAG	MASTER BOX	CODE	A	B	ZA	ZB
15x22x15	10	70	CM0131015022015	75	42	18,5	19
18x15x18	10	80	CM0131018015018	80	36	21	17
18x22x18	5	50	CM0131018022018	80	43	21	20
22x15x22	5	50	CM0131022015022	82	38	20	19
22x18x22	5	50	CM0131022018022	82	38	20	19
22x28x22	5	40	CM0131022028022	82	46	20	23
28x15x28	5	30	CM0131028015028	92	42	24	23
28x18x28	5	30	CM0131028018028	92	42	24	23
28x22x28	5	30	CM0131028022028	92	45	24	23
35x15x35	5	25	CM0131035015035	102	45	26	26
35x18x35	5	25	CM0131035018035	102	45	26	26
35x22x35	5	20	CM0131035022035	102	46	26	24
35x28x35	5	20	CM0131035028035	115	53	32,5	31
42x22x42	3	15	CM0131042022042	130	56	36	35
42x28x42	1	10	CM0131042028042	130	57	36	35
42x35x42	1	10	CM0131042035042	130	61	36	36
54x22x54	1	10	CM0131054022054	160	63	46	42
54x28x54	1	10	CM0131054028054	160	64	46	42
54x35x54	1	10	CM0131054035054	160	68	46	43
54x42x54	1	10	CM0131054042054	160	76	46	47
66,7x28x66,7	1	8	ACM131067028067	182	76	46	53
66,7x35x66,7	1	10	ACM131067035067	182	79	46	56
66,7x42x66,7	1	7	ACM131067042067	182	82	46	52
66,7x54x66,7	1	7	ACM131067054067	182	91	46	56
76,1x22x76,1	1	8	ACM131076022076	242	79	66	56
76,1x28x76,1	1	4	ACM131076028076	242	81	66	58
76,1x35x76,1	1	7	ACM131076035076	242	84	66	58
76,1x42x76,1	1	7	ACM131076042076	242	87	66	56
76,1x54x76,1	1	4	ACM131076054076	242	96	66	61
76,1x66,7x76,1	1	5	AC0131076067076	230	104	60	54
88,9x22x88,9	1	6	ACM131089022089	272	86	76	85
88,9x28x88,9	1	6	ACM131089028089	272	88	76	63
88,9x35x88,9	1	6	ACM131089035089	272	91	76	65
88,9x42x88,9	1	4	ACM131089042089	272	94	76	62
88,9x54x88,9	1	7	ACM131089054089	272	103	76	68
88,9x66,7x88,9	1	5	AC0131089067089	260	111	67	61
88,9x76,1x88,9	1	5	AC0131089076089	272	128	76	73
108x22x108	1	3	ACM131108022108	324	95	92	73
108x28x108	1	3	ACM131108028108	324	97	92	74
108x35x108	1	3	ACM131108035108	324	100	92	74
108x42x108	1	3	ACM131108042108	324	103	92	72
108x54x108	1	2	ACM131108054108	324	112	92	77
108x76,1x108	1	2	AC0131108076108	324	137,5	92	82,5
108x88,9x108	1	2	AC0131108089108	324	142,5	92	82,5



d1xd2xd1	BAG	MASTER BOX	CODE	A	B	ZA	ZB
76,1x22*x76,1	1	8	AC0131076022076	152	80,5	25	56,5
76,1x28*x76,1	1	4	AC0131076028076	152	83	25	58
76,1x35*x76,1	1	7	AC0131076035076	242	84	66	58
76,1x42*x76,1	1	7	AC0131076042076	242	91,5	66	55,5
76,1x54*x76,1	1	4	AC0131076054076	242	101	66	61
88,9x22*x88,9	1	6	AC0131089022089	175	87	27	63
88,9x28*x88,9	1	6	AC0131089028089	175	89,5	27	64,5
88,9x35*x88,9	1	6	AC0131089035089	272	90,5	76	64,5
88,9x42*x88,9	1	4	AC0131089042089	272	98	76	62
88,9x54*x88,9	1	7	AC0131089054089	272	107,5	76	67,5
108x22*x108	1	3	AC0131108022108	204	96,5	33	72,5
108x28*x108	1	3	AC0131108028108	204	99	33	74
108x35*x108	1	3	AC0131108035108	324	100	92	74
108x42*x108	1	3	AC0131108042108	324	107,5	92	71,5
108x54*x108	1	2	AC0131108054108	324	117	92	77

* V profile - V-Profil.



Art. CM0140

F/F/F/F cross.

PATENTED

Kreuzstück I/I/I/I.

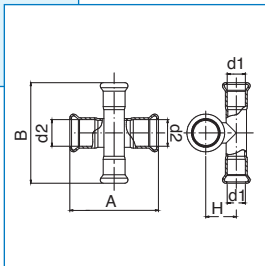
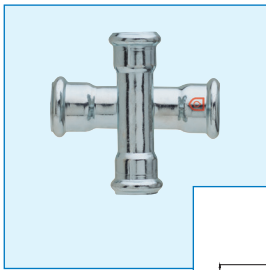
Croix F/F/F/F.

Cruz H/H/H/H.

Крестовина В-В-В-В.



d1xd2	BAG	MASTER BOX	CODE	A	B	L	L1
18x15	5	40	CM0140018015000	79	77	19	19
22x15	5	30	CM0140022015000	81	81	19	21
22x18	5	30	CM0140022018000	81	83	19	21
28x15	5	30	CM0140028015000	94	87	19	22
28x18	5	30	CM0140028018000	94	89	19	22
28x22	5	30	CM0140028022000	94	93	21	22
35x22	5	20	CM0140035022000	100	100	21	25
42x22	5	10	CM0140042022000	116	107	21	29
54x22	5	10	CM0140054022000	140	119	21	34
54x28	1	5	CM0140054028000	140	120	22	34



Art. CM0150

F/F/F/F offset cross.

PATENTED

Ausserachsiges Kreuz I/I/I/I.

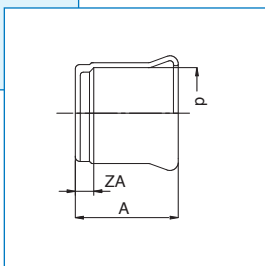
Croix désaxée F/F/F/F.

Cruz desplazamiento H/H/H/H.

Крестовина со смещенной осью В-В-В-В.



d1xd2	BAG	MASTER BOX	CODE	A	B	H
15x15	5	40	CM0150015015000	75	75	26
18x15	5	40	CM0150018015000	80	75	28
22x15	5	30	CM0150022015000	72	75	30
22x18	5	30	CM0150022018000	82	80	31
28x15	5	20	CM0150028015000	92	75	33
28x18	5	20	CM0150028018000	92	80	34
28x22	5	30	CM0150028022000	92	82	36
35x22	5	15	CM0150035022000	102	82	40
42x22	1	10	CM0150042022000	118	82	43
54x22	1	10	CM0150054022000	142	82	49



Art. CM0302 AC0302

F plug.

PATENTED

Kappe I.

Bouchon F.

Tapón Hembra.

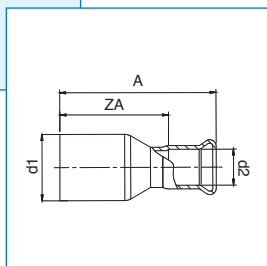
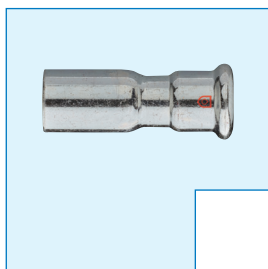
Заглушка В.



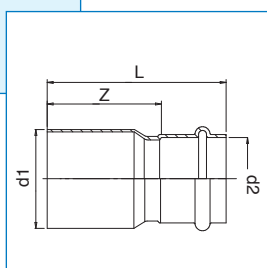
d	BAG	MASTER BOX	CODE	A	ZA
15	10	200	CM0302015000000	36	17
18	10	350	CM0302018000000	38	19
22	10	200	CM0302022000000	41	20
28	10	200	CM0302028000000	42	20
35	5	80	CM0302035000000	43	18
42	5	20	CM0302042000000	47	18
54	5	20	CM0302054000000	57	23
66,7	1	10	AC0302067000000	83	38
76,1	1	20	AC0302076000000	81	26
88,9	1	10	AC0302089000000	89	29
108	1	6	AC0302108000000	109	39

Art. **CM0243**
ACM243
AC0243

-  M/F reducer.
-  Reduzierstück I/A.
-  Réduction M/F.
-  Reducción M/H.
-  Муфта редукционная Н-В.

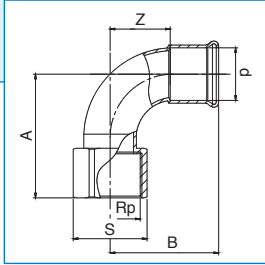


d1xd2	BAG	MASTER BOX	CODE	A	ZA
18x15	10	200	CM0243018015000	55	36
22x15	10	150	CM0243022015000	60	31
22x18	10	150	CM0243022018000	60	41
28x15	5	100	CM0243028015000	68	49
28x18	10	100	CM0243028018000	68	49
28x22	10	100	CM0243028022000	63	42
35x18	5	50	CM0243035018000	77	58
35x22	10	60	CM0243035022000	70	49
35x28	10	50	CM0243035028000	67	45
42x22	5	40	CM0243042022000	106	61
42x28	5	40	CM0243042028000	82	60
42x35	5	40	CM0243042035000	76	51
54x22	5	20	CM0243054022000	99	78
54x28	5	20	CM0243054028000	96	74
54x35	5	20	CM0243054035000	94	69
54x42	5	20	CM0243054042000	95	66
66,7x28	1	15	ACM243067028000	-	-
66,7x35	1	15	ACM243067035000	-	-
66,7x42	1	15	ACM243067042000	-	-
66,7x54	1	15	ACM243067054000	-	-
76,1x42	1	20	ACM243076042000	151	119
76,1x54	1	5	ACM243076054000	140	103
76,1x66,7	1	10	AC0243076067000	-	-
88,9x54	1	16	ACM243089054000	156	119
88,9x76,1	5	5	AC0243089076000	182	127
108x54	1	8	ACM243108054000	204	167
108x66,7	1	6	AC0243108067000	-	-
108x76,1	1	10	AC0243108076000	265	210
108x88,9	1	6	AC0243108089000	249,5	189,5



d1xd2	BAG	MASTER BOX	CODE	L	Z
76,1x42*	1	20	AC0243076042000	149,5	108,5
76,1x54*	1	5	AC0243076054000	152,5	107,5
88,9x54*	1	16	AC0243089054000	194	149
108x54*	1	8	AC0243108054000	260	215

* V profile - V-Profil.



Art. CM0F90

F/female thread elbow.

PATENTED

Bogen I mit I Gewinde.

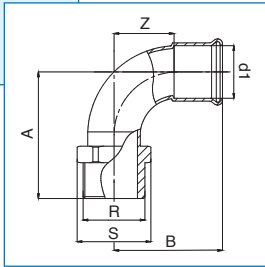
Coude F/filetage femelle.

Codo mixto H/rosca hembra.

Углон B-B(Rp).



Rpxd	BAG	MASTER BOX	CODE	A	B	S	Z
1/2"x15	10	100	CM0F90A12015000	47	36	25	17
1/2"x18	10	150	CM0F90A12018000	53	40	25	21
3/4"x18	10	80	CM0F90A34018000	53	40	32	-
3/4"x22	10	50	CM0F90A34022000	52	46	32	25
1"x28	5	30	CM0F90B01028000	70	58	38	36
1"x35	5	20	CM0F90B01035000	72	61	38	-
1"1/4x35	1	20	CM0F90B14035000	81	61	50	36
1"1/2x42	1	10	CM0F90B12042000	84	81	55	52
1"1/2x54	1	10	CM0F90B12054000	106	95	60	60
2"x54	1	5	CM0F90C02054000	110	95	70	60



Art. CM0F92

F/male thread elbow.

PATENTED

Bogen mit A Gewinde.

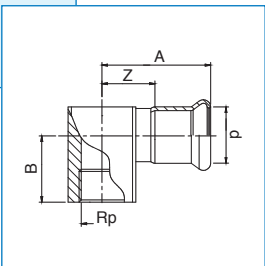
Coude F/filetage mâle.

Codo mixto H/rosca macho.

Углон B-H(R).



Rxd1	BAG	MASTER BOX	CODE	A	B	S	Z
3/8"x15	10	100	CM0F92A38015000	43	36	21	16
1/2"x15	10	100	CM0F92A12015000	46	36	21	16
1/2"x18	10	80	CM0F92A12018000	50	40	21	20
3/4"x22	10	80	CM0F92A34022000	50	46	27	23
1"x28	5	30	CM0F92B01028000	66	58	34	35
1"1/4x35	5	20	CM0F92B14035000	72	61	42	31
1"1/2x35	1	15	CM0F92B12035000	74	61	50	31
1"1/2x42	5	15	CM0F92B12042000	80	81	50	51
2"x54	1	8	CM0F92C02054000	110	95	60	60



Art. CMF90Q

F/female thread elbow.

PATENTED

Bogen I mit I Gewinde.

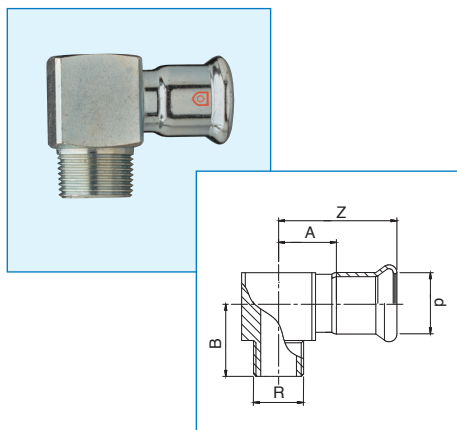
Coude F/filetage femelle.

Codo mixto H/rosca hembra.

Углон B-B(Rp).



Rpxd	BAG	MASTER BOX	CODE	A	B	Z
1/2"x15	5	80	CMF90QA12015000	46	26	30
1/2"x18	5	40	CMF90QA12018000	45	26	26
1/2"x22	5	25	CMF90QA12022000	47,5	28	25,5
1/2"x28	10	25	CMF90QA12028000	50	31	31
3/4"x22	5	25	CMF90QA34022000	51	28	32



Art. CMF92Q

F/male thread elbow.

Bogen mit A Gewinde.

Coude F/filetage mâle.

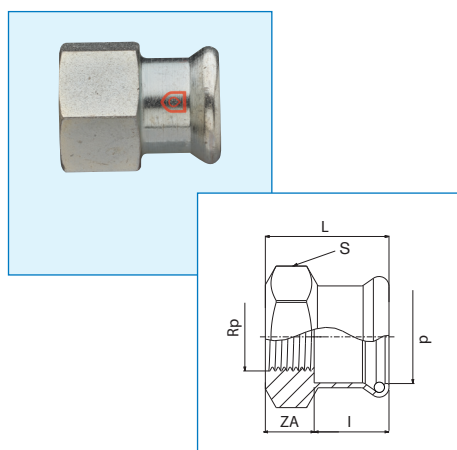
Codo mixto H/rosca macho.

Углон B-H(R).

PATENTED



Rxd	BAG	MASTER BOX	CODE	A	B	Z
3/8"x15	5	80	CMF92QA38015000	24	24	43
1/2"x15	5	80	CMF92QA12015000	25,5	28	44,5
1/2"x18	5	80	CMF92QA12018000	24,5	28	43,5
3/4"x18	10	50	CMF92QA34018000	27	30	46
3/4"x22	5	50	CMF92QA34022000	29,5	33	48,5



Art. CMF270 ACF270

F/female thread adapter.

Übergangsstück I mit I Gewinde.

Manchon F/filetage femelle.

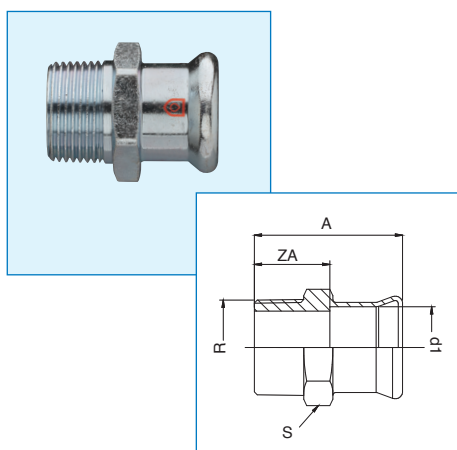
Manguito mixto H/rosca hembra.

Муфта B-B(Rp).

PATENTED



Rpxd	BAG	MASTER BOX	CODE	I	L	S	ZA
3/8"x15	10	100	CMF270A38015000	14	34	24	20
1/2"x15	10	200	CMF270A12015000	16	36	24	20
1/2"x18	10	150	CMF270A12018000	16	36	25	20
1/2"x22	10	100	CMF270A12022000	14	37	32	23
1/2"x28	5	50	CMF270A12028000	15	38	38	23
3/4"x18	10	100	CMF270A34018000	18	38	32	20
3/4"x22	10	100	CMF270A34022000	19	42	32	23
3/4"x28	5	70	CMF270A34028000	14	37	38	23
1"x22	5	50	CMF270B01022000	20	43	38	23
1"x28	5	50	CMF270B01028000	20	43	38	23
1"x35	5	40	CMF270B01035000	19	45	45	26
1"1/4x35	5	30	CMF270B14035000	24	50	50	26
1"1/2x35	5	20	CMF270B12035000	24	50	55	26
1"1/2x42	1	20	CMF270B12042000	24	54	55	30
1"1/2x54	1	15	CMF270B12054000	24	59	70	35
2"x54	1	10	CMF270C02054000	29	64	70	35
2"1/2x76,1	1	8	ACF270C12076000	55	114	86	59
3"x88,9	1	5	ACF270D03089000	60	123,5	98	63
4"x108	1	3	ACF270E04108000	70	153	122	83



Art. CMF243 ACF243

F/male thread adapter.

Übergangsstück I mit A Gewinde.

Manchon F/filetage mâle.

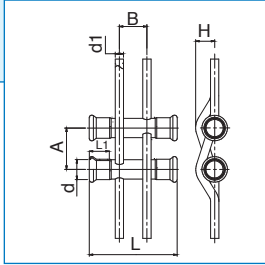
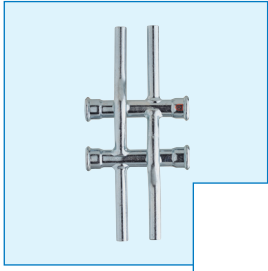
Manguito mixto H/rosca macho.

Муфта B-H(R).

PATENTED



Rxd1	BAG	MASTER BOX	CODE	A	S	ZA
3/8"x15	10	100	CMF243A38015000	34	24	14
1/2"x15	10	150	CMF243A12015000	37,5	24	17,5
1/2"x18	10	150	CMF243A12018000	37,5	27	17,5
1/2"x22	10	100	CMF243A12022000	40,5	32	17,5
3/4"x18	10	100	CMF243A34018000	41	27	21
3/4"x22	10	100	CMF243A34022000	44	32	21
3/4"x28	5	70	CMF243A34028000	45	38	22
1"x22	5	50	CMF243B01022000	47	34	24
1"x28	5	50	CMF243B01028000	48	38	25
1"x35	5	40	CMF243B01035000	52	50	26
1"1/4x35	5	40	CMF243B14035000	55	46	29
1"1/2x35	5	20	CMF243B12035000	55	50	29
1"1/2x42	5	20	CMF243B12042000	55	55	29
2"x54	1	10	CMF243C02054000	68,5	70	33,5
2"1/2x66,7	1	15	ACF243C12067000	-	-	-
2"1/2x76,1	1	8	ACF243C12076000	114	86	59
3"x88,9	1	5	ACF243D03089000	125,5	98	65,5
4"x108	1	3	ACF243E04108000	151	122	81



Art. CM0360

Double crossover.

PATENTED

Kreuzfitting.

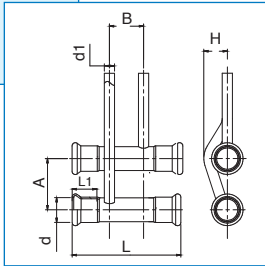
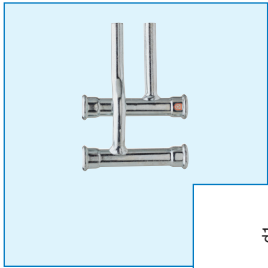
Raccord double aller-retour.

Desviación doble.

Обвод двойной.

SECURFRABO

dxd1	BAG	MASTER BOX	CODE	A	B	L	L1	H
18x15	1	5	CM0360018015000	60	40	120	19	46
22x15	1	5	CM0360022015000	60	40	120	21	50
28x15	1	5	CM0360028015000	60	40	120	22	57
35x15	1	5	CM0360035015000	60	40	120	25	64



Art. CM0350

Single crossover.

PATENTED

Heizkörperanschluss.

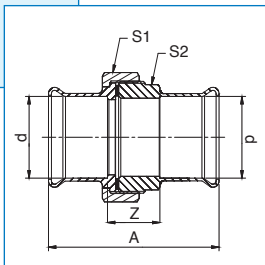
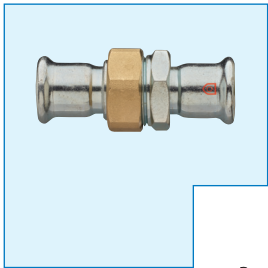
Raccord simple aller-retour.

Desviación sola.

Обвод одинарный.

SECURFRABO

dxd1	BAG	MASTER BOX	CODE	A	B	L	L1	H
15x15	1	5	CM0350015015000	60	40	120	19	42
18x15	1	5	CM0350018015000	60	40	120	19	46
22x15	1	5	CM0350022015000	60	40	120	21	50
28x15	1	10	CM0350028015000	60	40	120	22	57



Art. CM0340

F/F flat seat joint.

PATENTED

Rohrverschraubung gerade l/l flachdichtend.

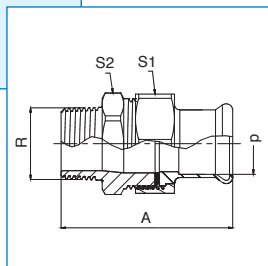
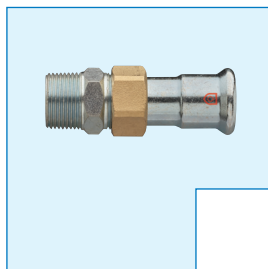
Union F/F à joint plat.

Unión sede plana H/H.

Разъемное соединение с плоским уплотнением В-В.

SECURFRABO

d	BAG	MASTER BOX	CODE	A	S1	S2	Z
15	5	40	CM0340015015000	85	24	25	47
18	5	30	CM0340018018000	95	30	30	57
22	5	30	CM0340022022000	97	37	34	55
28	5	20	CM0340028028000	91	46	45	47
35	1	15	CM0340035035000	120	52	50	70
42	1	10	CM0340042042000	134	64	60	76
54	1	15	CM0340054054000	144	85	75	76



Art. CMF341

F/male thread flat seat joint.

PATENTED

Rohrverschraubung I mit A Gewinde flachdichtend.

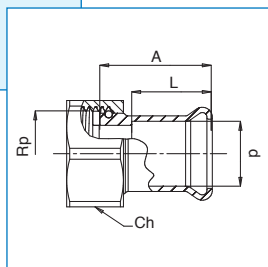
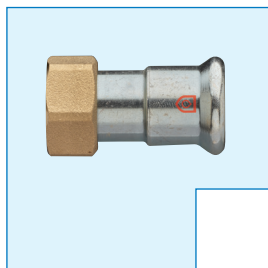
Union F/filetage mâle à joint plat.

Unión H/rosca macho sede plana.

Разъемное соединение с плоским уплотнением В-Н(Р).



Rxd	BAG	MASTER BOX	CODE	A	S1	S2
1/2"x15	5	50	CMF341A12015000	70	24	27
1/2"x18	5	30	CMF341A12018000	70	30	30
1/2"x22	5	30	CMF341A12022000	78	30	30
3/4"x15	5	50	CMF341A34015000	65	30	30
3/4"x18	5	50	CMF341A34018000	75	30	30
3/4"x22	5	50	CMF341A34022000	82	30	30
1"x22	5	50	CMF341B01022000	77	37	34
1"x28	5	30	CMF341B01028000	77	46	45
1"1/4x35	5	15	CMF341B14035000	85	52	50
1"1/2x42	1	10	CMF341B12042000	95	64	60
2"x54	1	8	CMF341C02054000	100	85	75



Art. CMF359

F/female thread valve connector with a swivel nut in brass.

PATENTED

Halbe Verschraubung flachdichtend.

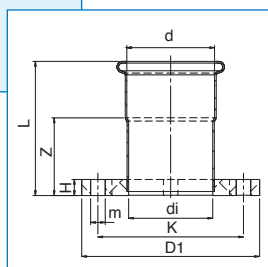
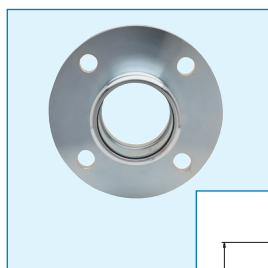
Raccord avec écrou en laiton F/filetage femelle.

Conexión H/rosca hembra con tuerca giratoria de latón.

Соединение с латунной накладной гайкой В-В(Rp).



Rpxd	BAG	MASTER BOX	CODE	A	Ch	L
1/2"x15	5	100	CMF359A12015000	40	24	20
1/2"x18	5	100	CMF359A12018000	-	-	-
3/4"x15	5	100	CMF359A34015000	28	30	20
3/4"x18	5	100	CMF359A34018000	32	30	20
3/4"x22	5	100	CMF359A34022000	47	30	23
1"x18	5	100	CMF359B01018000	27,5	37	20
1"x22	5	100	CMF359B01022000	34	37	22
1"1/4x28	10	50	CMF359B14028000	31	46	23
1"1/2x22	5	30	CMF359B12022000	-	-	-
1"1/2x28	5	30	CMF359B12028000	-	-	-
1"1/2x35	5	30	CMF359B12035000	40	46	26
2"x42	5	20	CMF359C02042000	41,5	64	33
2"1/2x54	1	10	CMF359C12054000	51,5	85	39



Art. AC0273

PN16 F flanged joint.

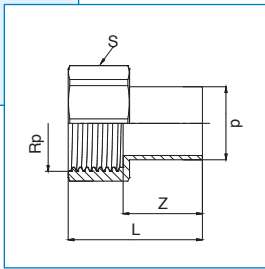
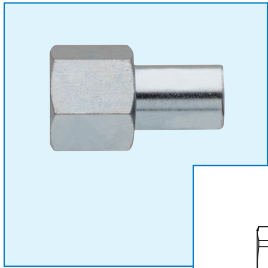
Flanschadapter I PN16.

Joint avec bride F PN16.

Manguito bridado H PN16.

Муфта фланцевая В PN16.

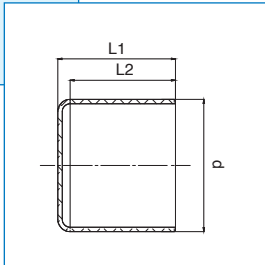
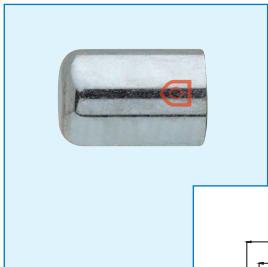
d	BAG	MASTER BOX	CODE	di	D1	H	K	L	m	Z	N° HOLE
66,7	1	2	AC0273067000000	63	185	18	145	125	18	80	4
76,1	1	2	AC0273076000000	72	185	18	145	134	18	79	4
88,9	1	2	AC0273089000000	85	200	20	160	141	18	78	8
108	1	2	AC0273108000000	104	220	20	180	166	18	89	8



Art. ZCF271

- Male/female thread adapter.
- Übergangsstück mit Innengewinde.
- Manchon M/filetage femelle.
- Manguito mixto M/rosca hembra.
- Муфта B-B(Rp).

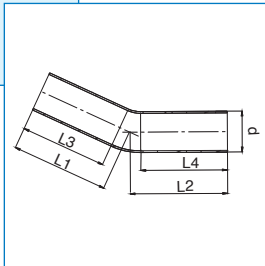
Rpxd	BAG	MASTER BOX	CODE	L	S	Z
1/2"x15	10	100	ZCF271A12015000	48	27	32
1/2"x18	10	100	ZCF271A12018000	49	27	33
1/2"x22	10	60	ZCF271A12022000	50	27	34
3/4"x18	10	100	ZCF271A34018000	51	32	33
3/4"x22	10	60	ZCF271A34022000	52	32	34



Art. ZC0301

- M plug.
- Kappe A.
- Bouchon M.
- Tapón M.
- Заглушка H.

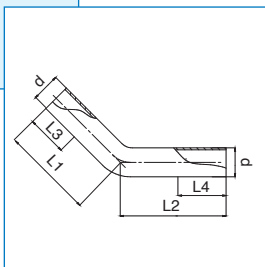
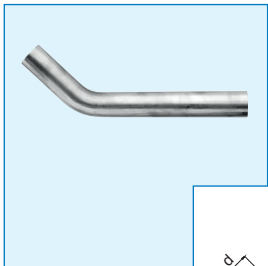
d	BAG	MASTER BOX	CODE	L1	L2
15	10	200	ZC0301015000000	28	22
18	10	200	ZC0301018000000	30	23
22	10	200	ZC0301022000000	32	24
28	10	150	ZC0301028000000	33	25
35	10	80	ZC0301035000000	34	26
42	5	50	ZC0301042000000	44	36
54	5	20	ZC0301054000000	48	40



Art. ZC0025

- M/M 25° bend.
- Gebogene Rohrstück A/A 25°.
- Courbe 25° M/M.
- Curva 25° M/M.
- Угол 25° H-H.

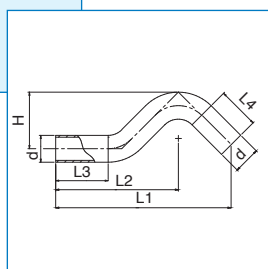
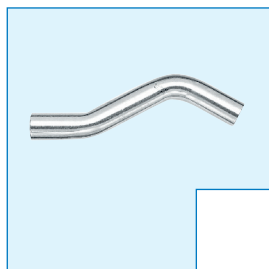
d	BAG	MASTER BOX	CODE	L1	L2	L3 min	L4 min
35	1	20	ZC0025035035000	94	206	30	30
42	5	10	ZC0025042042000	114	262	45	45



Art. ZC0045

- M/M 45° bend.
- Gebogene Rohrstücke A/A 45°.
- Courbe 45° M/M.
- Curva 45° M/M.
- Угол 45° H-H.

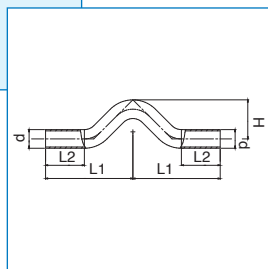
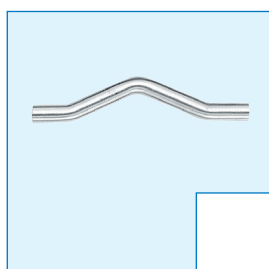
d	BAG	MASTER BOX	CODE	L1	L2	L3 min	L4 min
15	10	40	ZC0045015000000	62	120	25	25
18	10	30	ZC0045018000000	58	124	25	25
22	5	20	ZC0045022000000	56	120	30	30
28	5	15	ZC0045028000000	58	122	30	30
35	5	10	ZC0045035000000	94	206	30	30
42	1	5	ZC0045042000000	114	262	45	45
54	1	5	ZC0045054000000	146	321	65	65



Art. ZC0084

-  M/M partial crossover.
-  Überbogen kurz A/A.
-  Clarinette M/M.
-  Desviación corta M/M.
-  Обвод короткий Н-Н.

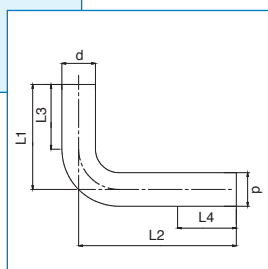
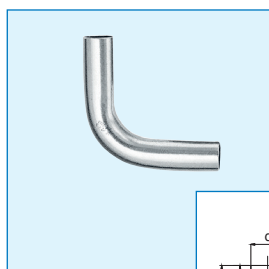
d	BAG	MASTER BOX	CODE	H	L1	L2	L3 min	L4 min
12	5	50	ZC0084012012000	32	125	88	20	20
15	5	100	ZC0084015015000	32	135	93	24	24
18	5	20	ZC0084018018000	42	141	118	25	25
22	5	20	ZC0084022022000	50	163	120	26	26
28	5	10	ZC0084028028000	50	205	140	27	27








Art. ZC0087

-  M/M full crossover.
-  Überbogen lang A/A.
-  Chapeau de gendarme M/M.
-  Desviación larga M/M.
-  Обвод длинный Н-Н.

d	BAG	MASTER BOX	CODE	H	L1	L2 min
12	5	30	ZC0087012012000	32	88	20
15	5	30	ZC0087015015000	32	93	24
18	5	20	ZC0087018018000	42	118	25
22	5	20	ZC0087022022000	50	120	26
28	5	10	ZC0087028028000	50	140	27



Art. ZC0090

-  M/M 90° bend.
-  Gebogene Rohrstücke A/A 90°.
-  Courbe 90° M/M.
-  Curva 90° M/M.
-  Угол 90° Н-Н.

d	BAG	MASTER BOX	CODE	L1	L2	L3 min	L4 min
12	10	100	ZC0090012012000	50	100	20	20
15	10	40	ZC0090015015000	50	100	24	24
18	10	30	ZC0090018018000	50	100	25	25
22	5	20	ZC0090022022000	50	100	26	26
28	5	15	ZC0090028028000	65	90	27	27
35	5	10	ZC0090035035000	75	150	28	28
42	1	5	ZC0090042042000	100	200	38	38
54	1	5	ZC0090054054000	150	200	42	42



1. Introduction

FRABO 5000 is the Cu-DHP (material CW024A in compliance with EN 1412) copper solder fitting series, available in a dimensional range between 6 and 133 mm and realized in compliance with EN 1254-1 European standard. This standard contains material, tolerances and application parameters; for different application, please, contact our technical office.

1. Einführung

FRABO 5000 ist eine Serie bestehend aus Cu-DHP-KupferlötfitTINGS (Material CW024A nach EN 1412), die im Abmessungsbereich von 6 bis 133 mm erhältlich sind und den Anforderungen der europäischen Norm EN 1254-1 entsprechen. Diese Norm regelt Materialien, Toleranzen und Anwendungsparameter; Für verschiedene Anwendungen wenden Sie sich bitte an das technische Büro.

1. Présentation

FRABO 5000 est une série constituée par des raccords à souder en cuivre Cu-DHP (matériau CW024A selon la norme EN 1412) disponible dans la gamme dimensionnelle entre 6 et 133 mm et réalisée en conformité avec la norme européenne EN 1254-1. Cette norme régit les matériaux, les tolérances et les paramètres d'emploi; pour des applications différentes, nous vous prions de contacter notre service technique.

1. Presentación

FRABO 5000 es una serie de racores para soldar de cobre Cu-DHP (material CW024A según la norma EN 1412) disponible en la gama dimensional desde 6 hasta 133 mm y realizada según las exigencias de la norma europea EN 1254-1. Esta norma regula materiales, tolerancias y parámetros de utilización; para aplicaciones diferentes, por favor, contacten la oficina técnica.

1. Описание

FRABO 5000 - серия фитингов под сварку из меди Cu-DHP (материал CW024A в соответствии с EN 1412), размерный ряд от 6 до 133 мм, произведена в соответствии с требованиями европейского стандарта EN 1254-1. Этот стандарт регулирует материалы, допуски и параметры использования; в случае иного применения, пожалуйста, свяжитесь с техническим отделом.

2. Advantages

- Complete range.
- High-quality raw material.
- Fitting tolerances with copper pipe are carefully tested to guarantee an optimum fit and that all junctions are welded quickly and safely.

2. Vorteile

- Vollständigkeit des Sortiments.
- Hochwertiges Vormaterial.
- Genaue Überprüfung der Kupplungstoleranzen mit dem Kupferrohr, um eine schnelle und sichere Ausführung der Schweißverbindungen sicherzustellen.

2. Avantages

- Gamme complète.
- Matières premières de haute qualité.
- Vérification approfondie des tolérances de jonction avec tube en cuivre pour garantir les meilleures conditions de «capillarité» et la réalisation des jonctions soudées rapides et sécurées.

2. Ventajas

- Completitud de la gama.
- Material de alta calidad.
- Verificación precisa de las tolerancias del apareamiento con el tubo de cobre para garantizar las mejores condiciones de “capilaridad” y la realización de conexiones soldadas con rapidez y seguridad.

2. Преимущества

- Широкая гамма продукции.
- Сырье высокого качества.
- Тщательная проверка допусков в соединении с медной трубой для обеспечения лучших условий для «капиллярности» и быстрого выполнения надежного сварного соединения.

3. Applications

FRABO 5000 fittings are suitable for a big number of applications both in civil and industrial installations: heating and cooling system, drinking water, gas distribution systems, chilled water, compressed-air, fuel oils, solar installations and thermal power stations.

3. Anwendungsbereiche

Die Fittings der FRABO 5000 Serie können für eine Vielzahl von Anwendungen im Anlagenbau eingesetzt werden: Heiz- und Kühlsysteme, Trinkwasser, Gasverteilungssysteme, Kühlwasser, Druckluft, Diesel oder Öl Brennstoffe, Solaranlagen und Wärmekraftwerke.

3. Champs d'emploi

Les raccords de la gamme FRABO 5000 sont utilisables pour un grand nombre d'emploi dans le secteurs civils et industriels: installations de chauffage et de refroidissement, d'eau potable, de distribution de gaz, d'eau réfrigérée, d'air comprimé, de gazole ou carburants, installations solaires et centrales thermiques.

3. Aplicaciones

Los racores de la gama FRABO 5000 se pueden utilizar en una gran cantidad de aplicaciones en el sector de las instalaciones civiles y industriales: instalaciones de calefacción y refrigeración, de agua potable, sistemas de distribución de gas, de agua refrigerada, de aire comprimido, de gasóleo o de fuelóleos, instalaciones solares y centrales térmicas.

3. Области применения

Фитинги серии FRABO 5000 могут широко применяться в инженерных системах в гражданском и промышленном строительстве: системах отопления и охлаждения, сантехнического и питьевого водоснабжения, газораспределения, системах охлажденной воды, сжатого воздуха, дизельного и горючего топлива, системах на солнечных коллекторах и тепловых электростанциях.



DRINKING
WATER



HEATING



HVAC



GAS



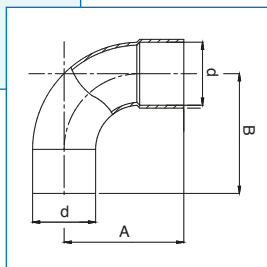
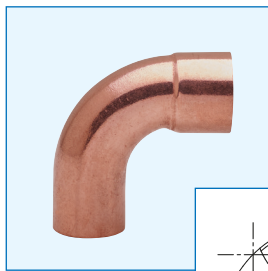
COMPRESSED
AIR








SOLAR



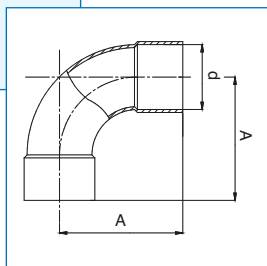
INDUSTRIAL



Art. **RR5001**

-  M/F 90° elbow.
-  Bogen 90° I/A.
-  Courbe 90° M/F.
-  Curva 90° M/H.
-  Угол 90° H-B.

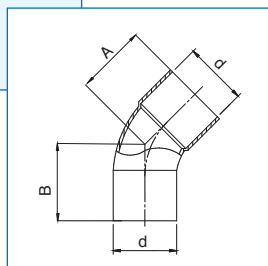
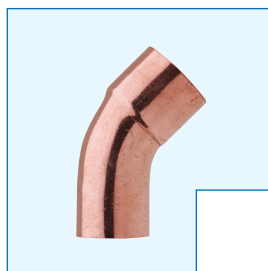
d	BAG	MASTER BOX	CODE	A	B
6	10	1000	RR5001006006000	15,5	16
8	25	1000	RR5001008008000	16,5	18
10	10	700	RR5001010010000	19,5	21,5
12	10	400	RR5001012012000	22	23,5
14	10	300	RR5001014014000	27	29
15	10	300	RR5001015015000	28	30
16	10	240	RR5001016016000	28	30
18	10	150	RR5001018018000	31	33
20	10	150	RR5001020020000	40	42
22	10	100	RR5001022022000	39	41
25	10	80	RR5001025025000	44,5	46,5
28	10	60	RR5001028028000	49	51
32	10	80	RR5001032032000	60	62
35	5	80	RR5001035035000	62	64,5
36	5	80	RR5001036036000	62	64,5
40	5	50	RR5001040040000	73,5	75
42	5	40	RR5001042042000	75,5	78
52	1	10	RR5001052052000	93,5	96
54	1	10	RR5001054054000	93	99
63	1	10	RR5001063063000	109,5	112,5
64	1	5	RR5001064064000	109,5	112,5
66,7	1	10	RR5001067067000	127	130
76,1	1	8	RR5001076076000	125	128
80	1	6	RR5001080080000	153	155
88,9	1	6	RR5001089089000	144,5	147,5
108	1	2	RR5001108108000	179	180



Art. **RR5002**

-  F/F 90° elbow.
-  Bogen 90° I/I.
-  Courbe 90° F/F.
-  Curva 90° H/H.
-  Угол 90° B-B.

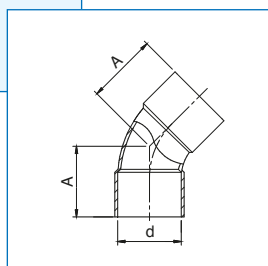
d	BAG	MASTER BOX	CODE	A
6	10	1000	RR5002006006000	15,5
8	10	1000	RR5002008008000	16,5
10	10	700	RR5002010010000	19,5
12	10	500	RR5002012012000	22
14	10	300	RR5002014014000	27
15	10	300	RR5002015015000	28
16	10	200	RR5002016016000	28
18	10	180	RR5002018018000	31
20	10	300	RR5002020020000	40
22	10	100	RR5002022022000	39
25	10	150	RR5002025025000	44,5
28	10	60	RR5002028028000	49
32	5	80	RR5002032032000	60
35	5	30	RR5002035035000	62
36	5	80	RR5002036036000	62
40	5	50	RR5002040040000	73,5
42	5	40	RR5002042042000	75,5
52	1	10	RR5002052052000	93,5
54	1	10	RR5002054054000	93
63	1	12	RR5002063063000	109,5
64	1	6	RR5002064064000	109,5
66,7	1	12	RR5002067067000	127
76,1	1	8	RR5002076076000	125
80	1	6	RR5002080080000	153
88,9	1	6	RR5002089089000	144,5
108	1	2	RR5002108108000	179
133	1	1	RR5002133133000	209



Art. RR5040

-  M/F 45° elbow.
-  Bogen 45° I/A.
-  Courbe 45° M/F.
-  Curva 45° M/H.
-  Угол 45° H-B.

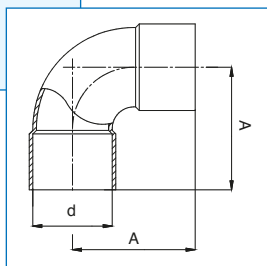
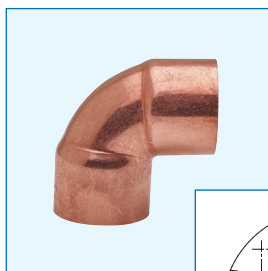
d	BAG	MASTER BOX	CODE	A	B
6	10	1000	RR5040006006000	14	19
8	10	1000	RR5040008008000	14	19
10	25	800	RR5040010010000	12	14
12	10	600	RR5040012012000	13	14,5
14	10	400	RR5040014014000	15	17
15	10	400	RR5040015015000	15	17
16	10	500	RR5040016016000	15,5	17,5
18	10	250	RR5040018018000	18	20
20	10	400	RR5040020020000	21	23
22	10	100	RR5040022022000	21,5	23,5
28	10	80	RR5040028028000	25,5	27,5
32	5	100	RR5040032032000	31,5	33,5
35	5	100	RR5040035035000	33	35
36	5	100	RR5040036036000	33,5	35
40	5	80	RR5040040040000	37	39
42	5	50	RR5040042042000	38	40
52	5	10	RR5040052052000	45	48
54	1	10	RR5040054054000	46	48
63	1	20	RR5040063063000	52,5	56
64	1	25	RR5040064064000	62	64
66,7	1	15	RR5040067067000	52,5	57
76,1	1	15	RR5040076076000	58	62
88,9	1	5	RR5040089089000	65	70
108	1	2	RR5040108108000	79	82



Art. RR5041

-  F/F 45° elbow.
-  Bogen 45° I/I.
-  Courbe 45° F/F.
-  Curva 45° H/H.
-  Угол 45° B-B.

d	BAG	MASTER BOX	CODE	A
6	10	1000	RR5041006006000	14
8	10	1000	RR5041008008000	14
10	10	800	RR5041010010000	12
12	10	500	RR5041012012000	13
14	10	400	RR5041014014000	15
15	10	400	RR5041015015000	15
16	10	500	RR5041016016000	15,5
18	10	200	RR5041018018000	18
20	10	350	RR5041020020000	21
22	10	100	RR5041022022000	21,5
25	10	200	RR5041025025000	24
28	10	80	RR5041028028000	25,5
32	10	100	RR5041032032000	31,5
35	5	100	RR5041035035000	33
36	5	100	RR5041036036000	33,5
40	5	80	RR5041040040000	37
42	5	50	RR5041042042000	38
52	5	10	RR5041052052000	45
54	5	10	RR5041054054000	46
63	1	20	RR5041063063000	52,5
64	1	20	RR5041064064000	62
66,7	1	15	RR5041067067000	52,5
76,1	1	10	RR5041076076000	58
80	1	12	RR5041080080000	64
88,9	1	10	RR5041089089000	65
108	1	5	RR5041108108000	79
133	1	2	RR5041133133000	89



Art. RR5090

F/F 90° elbow.

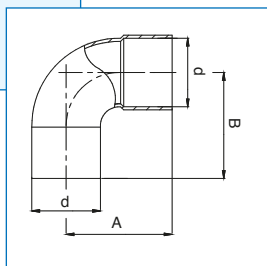
Winkel 90° I/I.

Coude 90° F/F.

Codo 90° H/H.

Yron 90° B-B.

d	BAG	MASTER BOX	CODE	A
6	10	1500	RR5090006006000	14
8	10	1500	RR5090008008000	16,5
10	10	800	RR5090010010000	17
12	10	500	RR5090012012000	19,5
14	10	400	RR5090014014000	23
15	25	300	RR5090015015000	25
16	10	300	RR5090016016000	24,5
18	10	200	RR5090018018000	28,5
20	10	350	RR5090020020000	27
22	10	130	RR5090022022000	33
25	10	200	RR5090025025000	30,5
28	10	60	RR5090028028000	45
32	10	40	RR5090032032000	40,5
35	5	40	RR5090035035000	52
36	5	80	RR5090036036000	42,5
40	5	50	RR5090040040000	49
42	5	50	RR5090042042000	59
52	5	30	RR5090052052000	59,5
54	1	10	RR5090054054000	60,5
63	1	6	RR5090063063000	71
64	1	25	RR5090064064000	72
66,7	1	10	RR5090067067000	72
70	1	10	RR5090070070000	72
76,1	1	8	RR5090076076000	81
80	1	10	RR5090080080000	86
85	1	8	RR5090085085000	87
88,9	1	8	RR5090089089000	92,5
108	1	5	RR5090108108000	113,5



Art. RR5092

M/F 90° elbow.

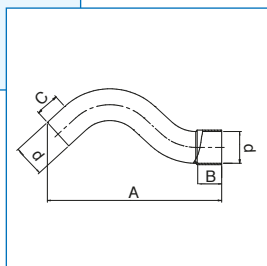
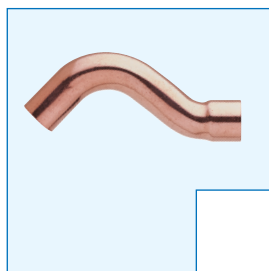
Winkel 90° I/A.

Coude 90° M/F.

Codo 90° M/H.

Yron 90° H-B.

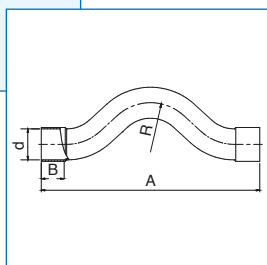
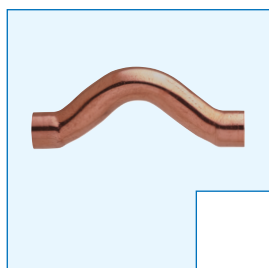
d	BAG	MASTER BOX	CODE	A	B
6	10	1000	RR5092006006000	14	16
8	25	1000	RR5092008008000	16,5	18,5
10	10	500	RR5092010010000	17	19
12	10	400	RR5092012012000	19,5	21,5
14	10	400	RR5092014014000	23	25
15	10	300	RR5092015015000	25	27
16	10	300	RR5092016016000	24,5	26,5
18	10	250	RR5092018018000	28,5	30,5
20	10	350	RR5092020020000	27	29,5
22	10	130	RR5092022022000	33	35
28	10	60	RR5092028028000	42	44
32	5	100	RR5092032032000	40,5	44
35	5	100	RR5092035035000	52	54
36	5	100	RR5092036036000	42,5	46,5
40	5	50	RR5092040040000	49	52,5
42	5	50	RR5092042042000	59	61
52	1	10	RR5092052052000	59,5	63,5
54	1	10	RR5092054054000	65	70
63	1	6	RR5092063063000	71	74
64	1	8	RR5092064064000	72	75
66,7	1	8	RR5092067067000	72	75
70	1	15	RR5092070070000	72	75
76,1	1	10	RR5092076076000	81	86
80	1	10	RR5092080080000	86	90
88,9	1	10	RR5092089089000	92,5	96
108	1	5	RR5092108108000	113,5	115,5



Art. RR5086

-  M/F partial crossover.
-  Überspringbogen I/A.
-  Clarinette M/F.
-  Desviación corta M/H.
-  Обвод длинный H-B.

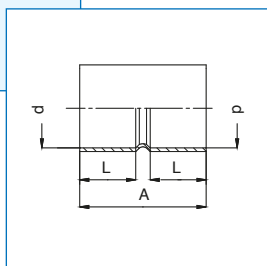
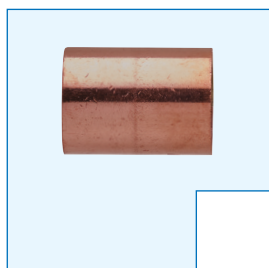
d	BAG	MASTER BOX	CODE	A	B min	C min
12	10	150	RR5086012012000	86	8,6	10,6
14	10	150	RR5086014014000	91	10,6	12,6
15	10	150	RR5086015015000	96	10,6	12,6
16	10	100	RR5086016016000	99	10,6	12,6
18	10	100	RR5086018018000	105	12,6	14,6
22	5	100	RR5086022022000	123	15,4	17,4



Art. RR5085

-  F/F full crossover.
-  Überspringbogen I/I.
-  Chapeau de gendarme F/F.
-  Desviación larga H/H.
-  Обвод короткий H-H.

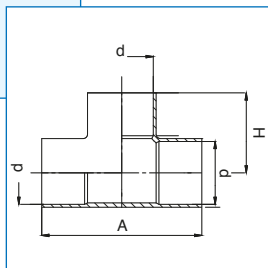
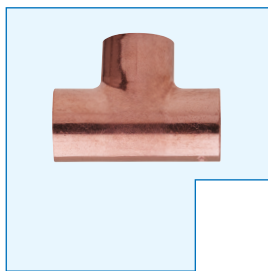
d	BAG	MASTER BOX	CODE	A	B min	R
12	10	150	RR5085012012000	98	8,6	20
14	10	100	RR5085014014000	113	10,6	20
15	10	180	RR5085015015000	113	10,6	20
16	10	100	RR5085016016000	114	10,6	20
18	10	200	RR5085018018000	127	12,6	20
22	5	100	RR5085022022000	136	15,4	20



Art. RR5270

-  F/F coupling.
-  Muffe I/I.
-  Manchon avec flexion F/F.
-  Manguito con remante H/H.
-  Муфта с упором B-B.

d	BAG	MASTER BOX	CODE	A	L min
6	10	1000	RR5270006006000	14	5,8
8	25	1800	RR5270008008000	15	6,8
10	10	600	RR5270010010000	17	7,8
12	10	500	RR5270012012000	19	8,6
14	10	350	RR5270014014000	23	10,6
15	10	300	RR5270015015000	23	10,6
16	10	400	RR5270016016000	23	10,6
18	10	300	RR5270018018000	27	12,6
20	10	550	RR5270020020000	32,8	15,4
22	10	200	RR5270022022000	32,8	15,4
25	10	300	RR5270025025000	34,5	16,4
28	10	100	RR5270028028000	38,5	18,4
32	10	200	RR5270032032000	47,5	23
35	10	60	RR5270035035000	47,5	23
36	5	150	RR5270036036000	47,5	23
40	5	100	RR5270040040000	55,5	27
42	5	100	RR5270042042000	55,5	27
52	5	50	RR5270052052000	66	32
54	5	50	RR5270054054000	66	32
63	1	20	RR5270063063000	71	32,5
64	5	30	RR5270064064000	71	32,5
66,7	1	40	RR5270067067000	73	33,5
70	1	40	RR5270070070000	73	33,5
75	1	1	RR5270075075000	73	33,5
76,1	1	10	RR5270076076000	73	33,5
80	1	15	RR5270080080000	79	35,5
88,9	1	24	RR5270089089000	81	37,5
108	1	9	RR5270108108000	101	47,5



Art. RR5 130

F/F/F tee.

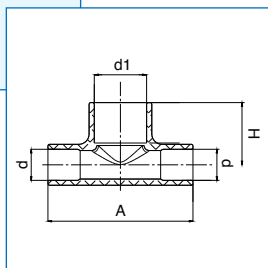
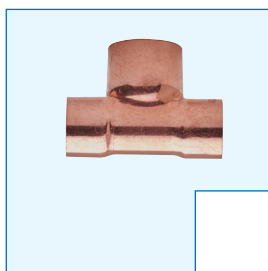
T-Stück I/I/I.

Té F/F/F.

T H/H/H.

Тройник В-В-В.

d	BAG	MASTER BOX	CODE	A	H
6	10	750	RR5130006006006	23	11
8	10	1400	RR5130008008008	23	13
10	10	1000	RR5130010010010	29	14
12	10	400	RR5130012012012	32	17
14	10	300	RR5130014014014	37	18
15	10	250	RR5130015015015	37	19,5
16	10	200	RR5130016016016	37	20
18	10	140	RR5130018018018	45	22,5
20	10	250	RR5130020020020	53	26,5
22	10	80	RR5130022022022	55	28
25	10	130	RR5130025025025	60	31,5
28	10	40	RR5130028028028	66	34
32	10	80	RR5130032032032	81	39
35	5	70	RR5130035035035	83	43
36	5	80	RR5130036036036	86	44
40	5	50	RR5130040040040	96	48
42	5	40	RR5130042042042	98	48
52	1	10	RR5130052052052	121	62,5
54	1	10	RR5130054054054	120	62
63	1	12	RR5130063063063	141	70,5
64	1	12	RR5130064064064	134	71
67	1	10	RR5130067067067	138	69
70	1	5	RR5130070070070	155	77,5
76	1	9	RR5130076076076	148	75
80	1	8	RR5130080080080	164	82
89	1	5	RR5130089089089	182	91
108	1	3	RR5130108108108	216	109



Art. RR5 130

F/F/F side reduced symmetrical tee.

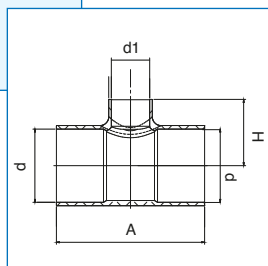
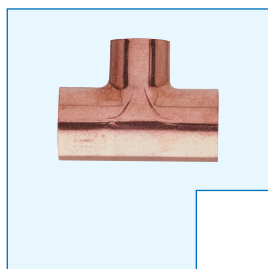
T-Stück reduziert symmetrical Seite I/I/I.

Té réduit latéral symétrique F/F/F.

T reducido lateral simétrico H/H/H.

Тройник с уменьшенным боковым отверстием симметричный В-В-В.

dxd1xd	BAG	MASTER BOX	CODE	A	H
6x8x6	10	600	RR5130006008006	26	12
6x10x6	10	500	RR5130006010006	28	14
8x10x8	10	600	RR5130008010008	31	15
10x12x10	10	500	RR5130010012010	33	16
10x15x10	10	300	RR5130010015010	33	18,5
12x14x12	10	300	RR5130012014012	34,5	18,5
12x15x12	10	300	RR5130012015012	34,5	18,5
12x16x12	10	300	RR5130012016012	37	19,5
12x18x12	10	300	RR5130012018012	48	22
12x22x12	10	250	RR5130012022012	52	26
14x16x14	10	250	RR5130014016014	39	19,5
14x18x14	10	150	RR5130014018014	42,5	21
14x20x14	10	200	RR5130014020014	45	24
14x22x14	10	250	RR5130014022014	45	25
15x18x15	10	300	RR5130015018015	42	22
15x22x15	10	250	RR5130015022015	47	26
15x28x15	10	100	RR5130015028015	55	30
16x18x16	10	300	RR5130016018016	42	22
16x20x16	10	250	RR5130016020016	43	25
16x22x16	10	250	RR5130016022016	43	25
18x20x18	10	250	RR5130018020018	51	27
18x22x18	10	250	RR5130018022018	51	27
18x28x18	10	50	RR5130018028018	73	35
20x22x20	10	200	RR5130020022020	52	28
22x28x22	5	130	RR5130022028022	62,5	33
22x35x22	5	100	RR5130022035022	70	36
28x35x28	5	70	RR5130028035028	85	40
28x42x28	5	50	RR5130028042028	92	44
35x42x35	5	40	RR5130035042035	93	48,5
42x54x42	1	10	RR5130042054042	125	60
54x67x54	1	8	RR5130054067054	135	75



Art. RR5 130

F/F/F central reduced tee.

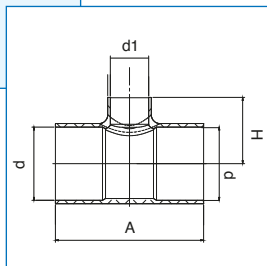
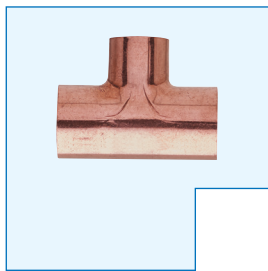
T-Stück reduziert zentrale symmetrical Seite I/II.

Tè réduit central F/F/F.






T reducido central H/H/H.

Тройник с уменьшенным торцевым отверстием В-В-В.

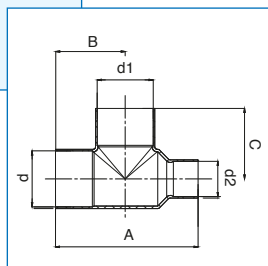
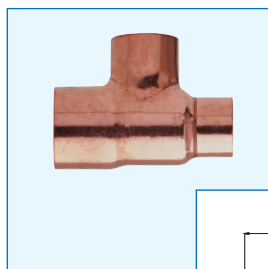
dx d1 x d	BAG	MASTER BOX	CODE	A	H
8x6x8	10	500	RR5130008006008	27	12
10x6x10	10	600	RR5130010006010	29	12
10x8x10	10	500	RR5130010008010	28	13
12x6x12	10	400	RR5130012006012	29	14,5
12x8x12	10	450	RR5130012008012	29	14,5
12x10x12	10	400	RR5130012010012	30	17
14x10x14	10	300	RR5130014010014	33,5	16
14x12x14	10	300	RR5130014012014	35,5	17,5
15x8x15	10	300	RR5130015008015	32	16
15x10x15	10	300	RR5130015010015	33,5	17,5
15x12x15	10	200	RR5130015012015	35	18
16x10x16	10	250	RR5130016010016	34	17
16x12x16	10	250	RR5130016012016	36	18
16x14x16	10	200	RR5130016014016	38	20
18x10x18	10	350	RR5130018010018	37	18,5
18x12x18	10	250	RR5130018012018	39	19
18x14x18	10	300	RR5130018014018	41	21
18x15x18	10	180	RR5130018015018	42	21
18x16x18	10	300	RR5130018016018	43	22
20x14x20	10	250	RR5130020014020	47	23,5
20x18x20	10	200	RR5130020018020	52	26
22x10x22	10	250	RR5130022010022	44	20
22x12x22	10	250	RR5130022012022	46	21
22x14x22	10	200	RR5130022014022	48	23
22x15x22	10	100	RR5130022015022	47	23
22x16x22	10	200	RR5130022016022	48	24
22x18x22	10	100	RR5130022018022	50	25
22x20x22	10	200	RR5130022020022	52	27
28x10x28	10	200	RR5130028010028	50	24
28x12x28	10	200	RR5130028012028	52	24,5
28x14x28	10	200	RR5130028014028	52	26
28x15x28	10	150	RR5130028015028	53	26,5
28x16x28	10	200	RR5130028016028	55	27
28x18x28	10	180	RR5130028018028	56	28
28x20x28	10	180	RR5130028020028	60	31
28x22x28	10	130	RR5130028022028	60	31
32x16x32	10	100	RR5130032016032	65	29
32x18x32	10	100	RR5130032018032	66	30,5
32x22x32	10	100	RR5130032022032	70	33,5
32x28x32	5	80	RR5130032028032	76	36
35x12x35	5	100	RR5130035012035	62	28,5
35x15x35	5	100	RR5130035015035	63	30,5
35x18x35	5	100	RR5130035018035	66	33
35x22x35	5	80	RR5130035022035	70	35,5
35x28x35	5	70	RR5130035028035	76,5	38
36x16x36	5	100	RR5130036016036	65	30
36x18x36	5	100	RR5130036018036	66	31
36x22x36	5	100	RR5130036022036	71	35
36x28x36	5	100	RR5130036028036	78	38
36x32x36	5	70	RR5130036032036	79	40
40x32x40	5	50	RR5130040032040	89	46
40x36x40	5	50	RR5130040036040	90	46
42x15x42	5	70	RR5130042015042	71	34,5
42x18x42	5	70	RR5130042018042	74	38
42x22x42	5	60	RR5130042022042	78	39,5
42x28x42	5	50	RR5130042028042	84	42
42x32x42	5	40	RR5130042032042	90	46,5
42x35x42	5	40	RR5130042035042	91	47
52x28x52	5	10	RR5130052028052	95	47



Art. RR5 130

-  F/F/F central reduced tee.
-  T-Stück reduziert zentrale symmetrical Seite I/I/I.
-  Té réduit central F/F/F.
-  T reducido central H/H/H.
-  Тройник с уменьшенным торцевым отверстием В-В-В.

dx dx1 dx	BAG	MASTER BOX	CODE	A	H
52x32x52	5	10	RR5130052032052	100	52
52x42x52	1	10	RR5130052042052	110	55
54x15x54	1	10	RR5130054015054	82	42
54x18x54	5	20	RR5130054018054	86	42
54x22x54	5	20	RR5130054022054	90	46
54x28x54	5	25	RR5130054028054	94	47,5
54x35x54	1	10	RR5130054035054	101	52,5
54x42x54	1	10	RR5130054042054	110	57
64x42x64	1	10	RR5130064042064	120	68
64x54x64	1	18	RR5130064054064	131	74
67x35x67	1	5	RR5130067035067	114	63
76x35x76	1	15	RR5130076035076	127	68
76x42x76	1	5	RR5130076042076	128	73
76x54x76	1	12	RR5130076054076	135	77
76x64x76	1	10	RR5130076064076	146	80
89x42x89	1	2	RR5130089042089	141	81
89x76x89	1	5	RR5130089076089	171	87,5
108x54x108	1	3	RR5130108054108	167	97
108x64x108	1	3	RR5130108064108	179	96
108x76x108	1	5	RR5130108076108	186	98,5
108x89x108	1	1	RR5130108089108	200	105



Art. RR5130

 F/F/F side reduced tee.

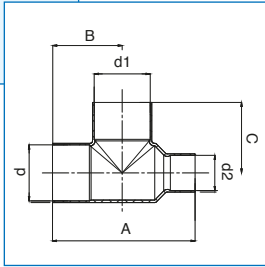
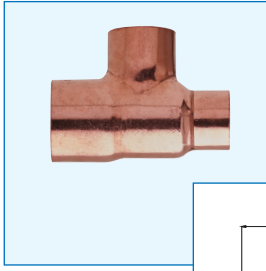
 T-Stück reduziert Seite I/I/I.

 Té réduit latéral F/F/F.

 T reducido lateral H/H/H.

 Тройник с уменьшенным боковым отверстием В-В-В.

dx1xd2	BAG	MASTER BOX	CODE	A	B	C
8x6x6	10	300	RR5130008006006	24	12	11
10x8x8	10	600	RR5130010008008	28	14	13
10x10x8	10	500	RR5130010010008	30	15	14
12x8x8	10	450	RR5130012008008	30	14	15
12x8x10	10	300	RR5130012008010	30	14,5	15
12x10x8	10	450	RR5130012010008	30	15	16
12x10x10	10	400	RR5130012010010	31,5	15	15
12x12x8	10	400	RR5130012012008	31	15	15
12x12x10	10	400	RR5130012012010	34	17	17
14x10x10	10	300	RR5130014010010	34	17	16,5
14x10x12	10	300	RR5130014010012	35	17	16,5
14x12x10	10	300	RR5130014012010	37	18	17
14x12x12	10	300	RR5130014012012	37	18	17
14x14x10	10	300	RR5130014014010	38	19	19
14x14x12	10	300	RR5130014014012	39	19,5	19
14x16x12	10	250	RR5130014016012	49	23,5	24,5
14x18x12	10	200	RR5130014018012	49,5	24,5	25,5
15x10x10	10	400	RR5130015010010	35	17	17
15x10x12	10	400	RR5130015010012	35	17,5	17
15x12x12	10	250	RR5130015012012	37	18	18
15x15x10	10	300	RR5130015015010	39	20	19,5
15x15x12	10	300	RR5130015015012	40	19,5	19,5
15x15x18	10	300	RR5130015015018	41	19,5	19,5
15x18x12	10	300	RR5130015018012	45,5	23	23,5
16x12x12	10	250	RR5130016012012	38	18	18,5
16x12x14	10	250	RR5130016012014	38,5	18	18,5
16x14x12	10	250	RR5130016014012	39	19	20
16x14x14	10	200	RR5130016014014	41	19	20,5
16x16x10	10	250	RR5130016016010	41,5	20	20,5
16x16x12	10	250	RR5130016016012	41,5	20	20
16x16x14	10	250	RR5130016016014	42	20	20
16x18x14	10	300	RR5130016018014	44	20,5	22,5
18x10x10	10	350	RR5130018010010	41	20	19
18x10x12	10	350	RR5130018010012	41	20	19
18x12x12	10	350	RR5130018012012	41	20	19
18x12x14	10	350	RR5130018012014	43	20	19
18x12x15	10	350	RR5130018012015	43	20	19
18x12x16	10	350	RR5130018012016	42	20	19
18x14x12	10	300	RR5130018014012	41	21	21
18x14x14	10	300	RR5130018014014	47	21	21
18x14x16	10	300	RR5130018014016	45	21	21,5
18x15x12	10	300	RR5130018015012	44	21,5	21,5
18x15x15	10	180	RR5130018015015	44	21,5	21,5
18x16x12	10	200	RR5130018016012	44	22	21,5
18x16x14	10	300	RR5130018016014	45	22	21,5
18x16x16	10	300	RR5130018016016	45	22	21,5
18x18x10	10	300	RR5130018018010	47	23	23,5
18x18x12	10	250	RR5130018018012	47	23	23,5
18x18x14	10	250	RR5130018018014	48	23	23,5
18x18x15	10	250	RR5130018018015	48	23	23,5
18x18x16	10	300	RR5130018018016	48	23	23,5
18x22x14	10	250	RR5130018022014	52	25	27
18x22x15	10	200	RR5130018022015	54	27	27
20x14x16	10	200	RR5130020014016	50	23	23,5
20x18x18	10	200	RR5130020018018	53	26	25
20x20x14	10	200	RR5130020020014	54	27	26,5
20x20x16	10	200	RR5130020020016	54	27	26,5
20x20x18	10	200	RR5130020020018	54	27	26,5
20x22x16	10	250	RR5130020022016	56	27	26,5



Art. RR5130

F/F/F side reduced tee.

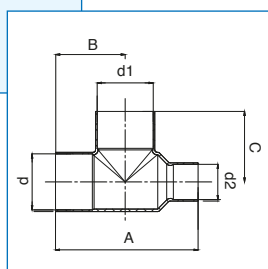
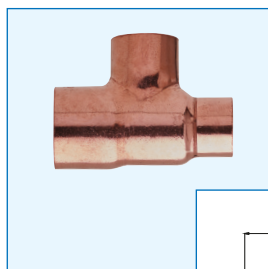
T-Stück reduziert Seite I/I/I.

Té réduit latéral F/F/F.

T reducido lateral H/H/H.


Тройник с уменьшенным боковым отверстием В-В-В.

dx1xd2	BAG	MASTER BOX	CODE	A	B	C
22x12x12	10	250	RR5130022012012	50	23	21,5
22x12x14	10	250	RR5130022012014	49	23	23,5
22x12x15	10	250	RR5130022012015	48	23	23,5
22x12x18	10	250	RR5130022012018	47	23	21
22x14x14	10	200	RR5130022014014	47	24	23
22x14x16	10	200	RR5130022014016	47	24	23
22x14x18	10	200	RR5130022014018	52	25	23,5
22x15x12	10	150	RR5130022015012	50	24,5	23,5
22x15x15	10	200	RR5130022015015	49,5	24	23
22x15x18	10	200	RR5130022015018	49	24	23
22x16x14	10	200	RR5130022016014	51,5	25	23,5
22x16x16	10	200	RR5130022016016	50,5	23,5	24,5
22x16x18	10	200	RR5130022016018	50	25	23,5
22x18x12	10	150	RR5130022018012	52	26	25
22x18x14	10	200	RR5130022018014	52	26	25
22x18x15	10	200	RR5130022018015	51	25,5	25
22x18x16	10	200	RR5130022018016	51	25,5	25
22x18x18	10	150	RR5130022018018	53	25,5	25
22x22x12	10	250	RR5130022022012	55	27,5	29
22x22x14	10	250	RR5130022022014	56	27,5	28,5
22x22x15	10	250	RR5130022022015	56	27,5	28,5
22x22x16	10	250	RR5130022022016	56	27,5	29
22x22x18	10	250	RR5130022022018	57	27,5	29
22x22x20	10	200	RR5130022022020	58	28	31
22x28x15	10	200	RR5130022028015	64	31	32,5
28x12x12	10	50	RR5130028012012	51	26	24
28x12x18	10	180	RR5130028012018	53,5	25,5	24,5
28x12x22	10	180	RR5130028012022	54,5	25,5	24,5
28x14x14	10	200	RR5130028014014	54	28	26
28x15x12	10	100	RR5130028015012	54	28	26
28x15x15	10	200	RR5130028015015	57	27,5	27
28x15x18	10	150	RR5130028015018	57	27,5	27
28x15x22	10	200	RR5130028015022	59	27,5	27
28x16x16	10	200	RR5130028016016	58	28	27
28x16x18	10	200	RR5130028016018	58	28	27
28x16x22	10	150	RR5130028016022	56	28	26
28x18x12	10	180	RR5130028018012	57	29	29
28x18x15	10	150	RR5130028018015	59	29	29
28x18x18	10	180	RR5130028018018	60	29	29
28x18x22	10	150	RR5130028018022	61	29	29
28x22x12	10	150	RR5130028022012	61	31	31
28x22x15	10	150	RR5130028022015	62	31	31,5
28x22x16	10	150	RR5130028022016	63	31	31,5
28x22x18	10	150	RR5130028022018	63,5	31	31,5
28x22x22	10	160	RR5130028022022	65	31	31
28x28x12	10	200	RR5130028028012	70	34	34,5
28x28x14	5	100	RR5130028028014	71	34	34
28x28x15	10	150	RR5130028028015	69	34	33,5
28x28x16	10	150	RR5130028028016	68	34	34
28x28x18	10	100	RR5130028028018	70	34	34,5
28x28x22	10	130	RR5130028028022	69	34	33,5
28x35x22	5	70	RR5130028035022	76	38	36
35x15x28	5	100	RR5130035015028	67	32	30,5
35x18x22	5	100	RR5130035018022	67,5	33,5	32
35x18x28	5	100	RR5130035018028	70	33,5	32
35x22x15	5	100	RR5130035022015	71	36	34,5
35x22x18	5	100	RR5130035022018	72	36	34
35x22x22	5	100	RR5130035022022	73	36	35
35x22x28	5	100	RR5130035022028	74	36	35
35x28x18	5	80	RR5130035028018	77	39	38
35x28x22	5	100	RR5130035028022	80	39	38



Art. RR5130

 F/F/F side reduced tee.

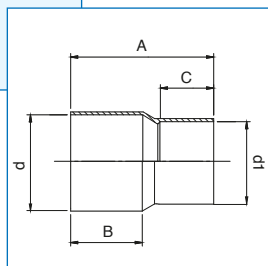
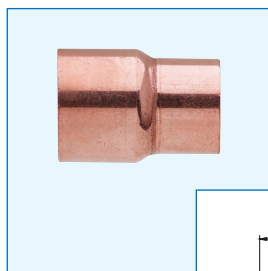
 T-Stück reduziert Seite I/I/I.

 Té réduit latéral F/F/F.


 T reducido lateral H/H/H.

 Тройник с уменьшенным боковым отверстием В-В-В.

dxd1xd2	BAG	MASTER BOX	CODE	A	B	C
35x28x28	5	80	RR5130035028028	80	39	38
35x35x15	5	70	RR5130035035015	83	42	43,5
35x35x18	5	70	RR5130035035018	84	42	43,5
35x35x22	5	70	RR5130035035022	85	42	43,5
35x35x28	5	70	RR5130035035028	87	42	43,5
36x28x22	5	100	RR5130036028022	86	42	44
42x22x35	5	70	RR5130042022035	84	40	39
42x28x22	5	50	RR5130042028022	87	43	41,5
42x28x28	5	60	RR5130042028028	87	43	41,5
42x28x35	5	50	RR5130042028035	90	43	41,5
42x35x28	5	40	RR5130042035028	96	46,5	46
42x35x35	5	40	RR5130042035035	96	46,5	46
42x42x22	5	40	RR5130042042022	99	50	50
42x42x28	5	40	RR5130042042028	101	50	50
42x42x35	5	40	RR5130042042035	103	50	50
54x22x42	1	20	RR5130054022042	93	46	45
54x28x42	1	10	RR5130054028042	103	48,5	49
54x35x35	1	8	RR5130054035035	107	51,5	54
54x35x42	1	10	RR5130054035042	108	51,5	53
54x42x42	1	10	RR5130054042042	115	54,5	57
54x54x22	1	20	RR5130054054022	121	61	55
54x54x28	1	20	RR5130054054028	122	61	57
54x54x35	1	20	RR5130054054035	123	61	60
54x54x42	1	20	RR5130054054042	126	61	62




Art. RR5240

 F/F reducing coupling.

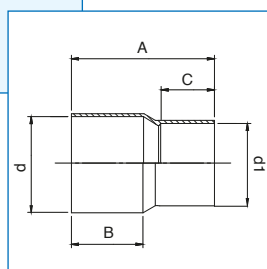
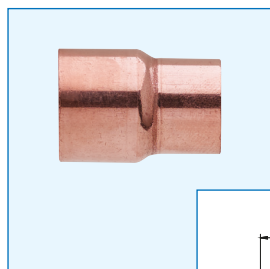
 Reduziermuffe I/I.

 Réduction F/F.


 Reducción H/H.

 Муфта редуцирующая В-В.

dx/d1	BAG	MASTER BOX	CODE	A	B min	C min
8x6	10	2000	RR524008006000	15,5	6,8	5,8
10x6	10	2000	RR5240010006000	18	7,8	5,8
10x8	10	1000	RR5240010008000	18,5	7,8	6,8
12x6	10	1000	RR5240012006000	20,5	8,6	5,8
12x8	10	1000	RR5240012008000	20,5	8,6	6,8
12x10	10	600	RR5240012010000	20,5	8,6	7,8
14x10	10	600	RR5240014010000	24	10,6	7,8
14x12	10	500	RR5240014012000	23,5	10,6	8,6
15x8	10	1000	RR5240015008000	24	10,6	6,8
15x10	10	600	RR5240015010000	24	10,6	7,8
15x12	10	500	RR5240015012000	23,8	10,6	8,6
15x14	10	500	RR5240015014000	25	10,6	10,6
16x10	10	500	RR5240016010000	24	10,6	7,8
16x12	10	500	RR5240016012000	24	10,6	8,6
16x14	10	400	RR5240016014000	25	10,6	10,6
16x15	10	500	RR5240016015000	24	10,6	10,6
18x10	10	400	RR5240018010000	28	12,6	7,8
18x12	10	400	RR5240018012000	28	12,6	8,6
18x14	10	700	RR5240018014000	28,5	12,6	10,6
18x15	10	350	RR5240018015000	28	12,6	10,6
18x16	10	600	RR5240018016000	28	12,6	10,6
20x12	10	200	RR5240020012000	30,5	15,4	8,6
20x14	10	300	RR5240020014000	33	15,4	10,6
20x16	10	300	RR5240020016000	33	15,4	10,6
20x18	10	300	RR5240020018000	33	15,4	12,6
22x10	10	300	RR5240022010000	32,5	15,4	7,8
22x12	10	250	RR5240022012000	32,5	15,4	8,6
22x14	10	300	RR5240022014000	34	15,4	10,6
22x15	10	250	RR5240022015000	34	15,4	10,6
22x16	10	300	RR5240022016000	34	15,4	10,6
22x18	10	240	RR5240022018000	34	15,4	12,6
22x20	10	250	RR5240022020000	35	15,4	15,4
25x22	10	250	RR5240025022000	36,5	16,4	15,4
28x10	10	300	RR5240028010000	39	18,4	7,8
28x12	10	300	RR5240028012000	38,5	18,4	8,6
28x14	10	250	RR5240028014000	41	18,4	10,6
28x15	10	250	RR5240028015000	42	18,4	10,6
28x16	10	250	RR5240028016000	41	18,4	10,6
28x18	10	250	RR5240028018000	39,5	18,4	12,6
28x20	10	250	RR5240028020000	41	18,4	15,4
28x22	10	150	RR5240028022000	41	18,4	15,4
32x16	10	250	RR5240032016000	46	23	10,6
32x18	10	250	RR5240032018000	46	23	12,6
32x20	10	200	RR5240032020000	47,5	23	15,4
32x22	10	200	RR5240032022000	47,5	23	15,4
32x28	10	200	RR5240032028000	48	23	18,4
35x12	10	250	RR5240035012000	47	23	8,6
35x15	10	250	RR5240035015000	48	23	10,6
35x18	10	200	RR5240035018000	48	23	12,6
35x22	10	200	RR5240035022000	48	23	15,4
35x28	10	200	RR5240035028000	48,5	23	18,4
35x32	5	170	RR5240035032000	52	23	23
36x22	5	200	RR5240036022000	48	23	15,4
36x28	5	150	RR5240036028000	50	23	18,4
36x32	5	170	RR5240036032000	52	23	23
36x35	5	150	RR5240036035000	52	23	23
40x22	5	190	RR5240040022000	56	27	15,4
40x28	5	120	RR5240040028000	55	27	18,4
40x32	5	120	RR5240040032000	58	27	23
40x35	5	120	RR5240040035000	57	27	23




Art. RR5240

 F/F reducing coupling.

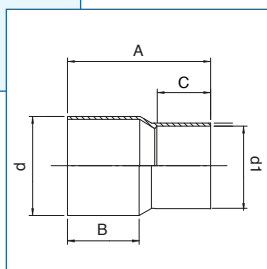
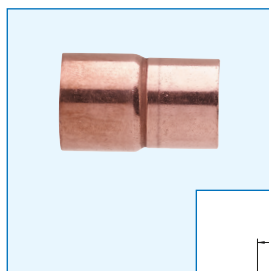
 Reduziermuffe I/I.

 Réduction F/F.

 Reducción H/H.

 Муфта редуцирующая В-В.

dx d1	BAG	MASTER BOX	CODE	A	B min	C min
40x36	5	120	RR5240040036000	56	27	23
42x15	5	190	RR5240042015000	56	27	10,6
42x18	5	190	RR5240042018000	56	27	12,6
42x22	5	100	RR5240042022000	57,5	27	15,4
42x28	5	130	RR5240042028000	56,5	27	18,4
42x32	5	120	RR5240042032000	60	27	23
42x35	5	120	RR5240042035000	58,5	27	23
42x36	5	100	RR5240042036000	57,5	27	23
42x40	5	80	RR5240042040000	59	27	27
52x28	5	50	RR5240052028000	69	32	18,4
52x32	5	50	RR5240052032000	69	32	23
52x35	5	50	RR5240052035000	68	32	23
52x36	5	50	RR5240052036000	68	32	23
52x40	5	50	RR5240052040000	70	32	27
52x42	5	50	RR5240052042000	69,5	32	27
54x22	5	90	RR5240054022000	68	32	15,4
54x28	5	70	RR5240054028000	69	32	18,4
54x35	5	50	RR5240054035000	68	32	23
54x36	5	50	RR5240054036000	69	32	23
54x40	5	50	RR5240054040000	71	32	27
54x42	5	50	RR5240054042000	69,5	32	27
54x52	5	50	RR5240054052000	70	32	32
63x40	1	10	RR5240063040000	77	32,5	27
63x42	1	10	RR5240063042000	77	32,5	27
63x52	1	10	RR5240063052000	79	32,5	32
63x54	1	10	RR5240063054000	78	32,5	32
64x35	1	15	RR5240064035000	80	32,5	23
64x42	1	10	RR5240064042000	80	32,5	27
64x54	1	40	RR5240064054000	76	32,5	32
67x42	1	40	RR5240067042000	81	33,5	27
67x54	1	45	RR5240067054000	82	33,5	32
70x52	1	10	RR5240070052000	84	33,5	27
70x54	1	10	RR5240070054000	81	33,5	32
70x63	1	10	RR5240070063000	76	33,5	32,5
76x35	1	10	RR5240076035000	86	33,5	23
76x42	1	10	RR5240076042000	85	33,5	27
76x54	1	30	RR5240076054000	85	33,5	32
76x63	1	10	RR5240076063000	78	33,5	32,5
76x64	1	30	RR5240076064000	82	33,5	32,5
80x54	1	10	RR5240080054000	90	35,5	32
80x67	1	10	RR5240080067000	86	35,5	33,5
85x54	1	8	RR5240085054000	92	35,5	32
89x76	1	20	RR5240089076000	90	37,5	33,5
108x54	1	10	RR5240108054000	114	47,5	32
108x64	1	10	RR5240108064000	115	47,5	32,5
108x67	1	15	RR5240108067000	109	47,5	32,5
108x76	1	5	RR5240108076000	107	47,5	33,5
108x89	1	5	RR5240108089000	108	47,5	37,5



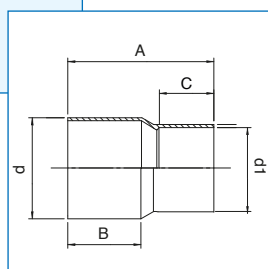
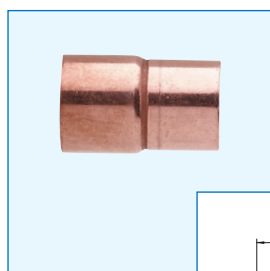
Art. RR5243

- M/F reducer.
- Reduzierstück I/A.
- Réduction M/F.
- Reducción M/H.
- Муфта редуцирующая Н-В.

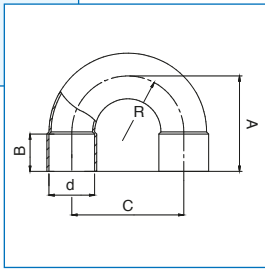
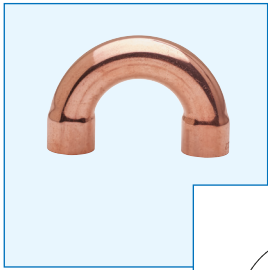
dx d1	BAG	MASTER BOX	CODE	A	B min	C min
8x6	50	2500	RR5243008006000	15,2	8,8	5,8
10x6	10	2000	RR5243010006000	19	9,8	5,8
10x8	10	2000	RR5243010008000	17,5	9,8	6,8
12x6	10	1000	RR5243012006000	21	10,6	5,8
12x8	10	1000	RR5243012008000	21,5	10,6	6,8
12x10	10	1000	RR5243012010000	20	10,6	7,8
14x10	25	1000	RR5243014010000	23,2	12,6	7,8
14x12	10	500	RR5243014012000	23	12,6	8,6
15x8	10	1000	RR5243015008000	24,5	12,6	6,8
15x10	10	500	RR5243015010000	24,8	12,6	7,8
15x12	10	500	RR5243015012000	25	12,6	8,6
15x14	10	500	RR5243015014000	26	12,6	10,6
16x10	10	500	RR5243016010000	26	12,6	7,8
16x12	10	500	RR5243016012000	26	12,6	8,6
16x14	10	500	RR5243016014000	26	12,6	10,6
16x15	10	500	RR5243016015000	26	12,6	10,6
18x10	10	400	RR5243018010000	29	14,6	7,8
18x12	10	400	RR5243018012000	28	14,6	8,6
18x14	10	700	RR5243018014000	28	14,6	10,6
18x15	10	350	RR5243018015000	28	14,6	10,6
18x16	10	700	RR5243018016000	27,5	14,6	10,6
20x14	10	250	RR5243020014000	33	17,4	10,6
20x16	10	200	RR5243020016000	32	17,4	10,6
20x18	10	200	RR5243020018000	32	17,4	12,6
22x10	10	250	RR5243022010000	32,5	17,4	7,8
22x12	10	250	RR5243022012000	32,5	17,4	8,6
22x14	10	250	RR5243022014000	34	17,4	10,6
22x15	10	250	RR5243022015000	34	17,4	10,6
22x16	10	300	RR5243022016000	34	17,4	10,6
22x18	10	200	RR5243022018000	34	17,4	12,6
22x20	10	280	RR5243022020000	34	17,4	15,4
25x18	10	250	RR5243025018000	37,5	18,4	12,6
25x22	10	250	RR5243025022000	36,5	18,4	15,4
28x10	10	200	RR5243028010000	40,5	20,4	7,8
28x12	10	300	RR5243028012000	40,5	20,4	8,6
28x14	10	250	RR5243028014000	40,5	20,4	10,6
28x15	10	250	RR5243028015000	40	20,4	10,6
28x16	10	250	RR5243028016000	40	20,4	10,6
28x18	10	250	RR5243028018000	40,5	20,4	12,6
28x20	10	250	RR5243028020000	42	20,4	15,4
28x22	10	150	RR5243028022000	41	20,4	15,4
32x18	10	250	RR5243032018000	46	25	12,6
32x20	10	250	RR5243032020000	48	25	15,4
32x22	10	250	RR5243032022000	48	25	15,4
32x28	10	200	RR5243032028000	48,5	25	18,4
35x12	10	250	RR5243035012000	48	25	8,6
35x15	10	250	RR5243035015000	48,5	25	10,6
35x18	10	200	RR5243035018000	48	25	12,6
35x22	10	200	RR5243035022000	49	25	15,4
35x28	10	200	RR5243035028000	50	25	18,4
35x32	10	100	RR5243035032000	53	25	23
36x14	10	50	RR5243036014000	48	25	10,6
36x16	10	100	RR5243036016000	48	25	10,6
36x18	10	200	RR5243036018000	51	25	12,6
36x22	5	250	RR5243036022000	51	25	15,4
36x28	5	200	RR5243036028000	52	25	18,4
36x32	5	150	RR5243036032000	53	25	23
36x35	5	150	RR5243036035000	52	25	23
40x22	5	190	RR5243040022000	56,5	29	15,4
40x28	5	150	RR5243040028000	56,5	29	18,4
40x32	5	120	RR5243040032000	58,5	29	23

Art. RR5243

-  M/F reducer.
-  Reduzierstück I/A.
-  Réduction M/F.
-  Reducción M/H.
-  Муфта редукционная Н-В.



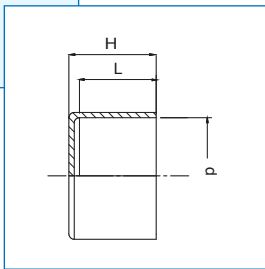
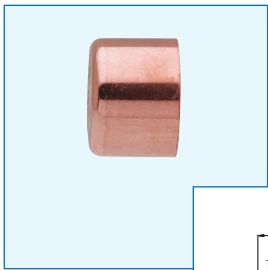
dxd1	BAG	MASTER BOX	CODE	A		B		C	
						min		min	
40x35	5	120	RR5243040035000	57,5		29		23	
40x36	5	120	RR5243040036000	57,5		29		23	
42x15	5	190	RR5243042015000	54		29		10,6	
42x18	5	100	RR5243042018000	56		29		12,6	
42x22	5	100	RR5243042022000	57,5		29		15,4	
42x28	5	140	RR5243042028000	57,5		29		18,4	
42x32	5	120	RR5243042032000	60		29		23	
42x35	5	120	RR5243042035000	58		29		23	
42x36	5	120	RR5243042036000	60		29		23	
42x40	5	100	RR5243042040000	59		29		27	
52x28	5	100	RR5243052028000	68		34		18,4	
52x32	5	50	RR5243052032000	69,5		34		23	
52x35	5	50	RR5243052035000	70		34		23	
52x36	5	50	RR5243052036000	68		34		23	
52x40	5	50	RR5243052040000	70,5		34		27	
52x42	5	50	RR5243052042000	69		34		27	
54x18	5	50	RR5243054018000	63,5		34		12,6	
54x22	5	90	RR5243054022000	65		34		15,4	
54x28	5	90	RR5243054028000	68		34		18,4	
54x32	5	50	RR5243054032000	72		34		23	
54x35	5	50	RR5243054035000	72		34		23	
54x40	5	50	RR5243054040000	71		34		27	
54x42	5	50	RR5243054042000	72		34		27	
54x52	5	50	RR5243054052000	72		34		27	
63x42	1	50	RR5243063042000	80		34,5		27	
63x52	1	50	RR5243063052000	81		34,5		32	
63x54	1	25	RR5243063054000	80		34,5		32	
64x35	1	10	RR5243064035000	81		34,5		23	
64x42	1	40	RR5243064042000	80		34,5		27	
64x54	1	40	RR5243064054000	77		34,5		32	
67x42	1	40	RR5243067042000	85		36,5		27	
67x54	1	24	RR5243067054000	83		36,5		32	
70x42	1	10	RR5243070042000	83		36,5		27	
76,1x35	1	24	RR5243076035000	86		36,5		23	
76,1x42	1	24	RR5243076042000	85		36,5		27	
76,1x54	1	30	RR5243076054000	89		36,5		32	
76,1x64	1	15	RR5243076064000	82		36,5		32,5	
76,1x67	1	10	RR5243076067000	81		36,5		33,5	
80x54	1	10	RR5243080054000	91		38,5		32	
80x64	1	5	RR5243080064000	87		38,5		32,5	
80x67	1	10	RR5243080067000	87		38,5		33,5	
85x63	1	10	RR5243085063000	93		40,5		32,5	
88,9x54	1	10	RR5243089054000	97		40,5		32	
88,9x64	1	20	RR5243089064000	95		40,5		32,5	
88,9x76,1	1	10	RR5243089076000	91		40,5		33,5	
108x54	1	5	RR5243108054000	116		51,5		32	
108x64	1	5	RR5243108064000	115		51,5		32,5	
108x67	1	10	RR5243108067000	113		51,5		33,5	
108x76,1	1	5	RR5243108076000	111		51,5		33,5	
108x88,9	1	5	RR5243108089000	109		51,5		37,5	








Art. RR5060

-  F/F 180° bend.
-  Doppelbogen 180° I/I.
-  Coude 180° F/F.
-  Curva doble 180° H/H.
-  Угол 180° B-B.

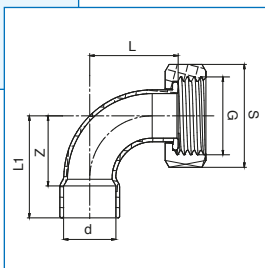
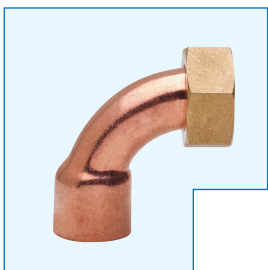
d	BAG	MASTER BOX	CODE	A	B min	C	R
10	10	300	RR5060010010000	24,5	7,8	30	15
12	10	250	RR5060012012000	27	8,6	36	18
14	10	200	RR5060014014000	35	10,6	45	22,5
15	10	100	RR5060015015000	30,5	10,6	45	22,5
16	10	150	RR5060016016000	35	10,6	48	24
18	10	150	RR5060018018000	39,5	12,6	54	27
22	10	60	RR5060022022000	47	15,4	66	32
28	5	60	RR5060028028000	59	18,4	84	42
35	5	30	RR5060035035000	93	23	140	47,5
42	1	12	RR5060042042000	112	27	168	84
54	1	6	RR5060054054000	140	32	216	108








Art. RR5301

-  F plug.
-  Kappe I.
-  Bouchon F.
-  Tapón Hembra.
-  Заглушка B.

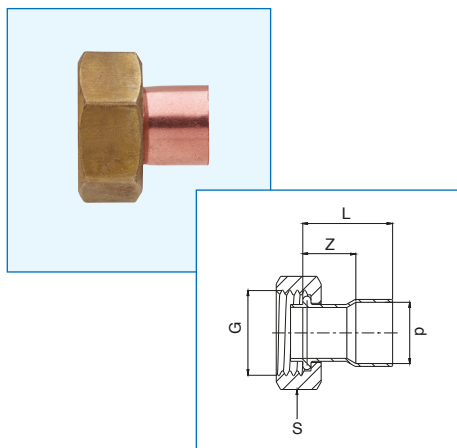
d	BAG	MASTER BOX	CODE	H min	L min
8	10	600	RR5301008000000	9	6,8
10	10	2500	RR5301010000000	9,5	7,8
12	10	1500	RR5301012000000	10	8,6
14	10	1000	RR5301014000000	12,5	10,6
15	10	600	RR5301015000000	12,5	10,6
16	10	400	RR5301016000000	12,5	10,6
18	10	500	RR5301018000000	14,5	12,6
22	10	300	RR5301022000000	17,5	15,4
28	10	200	RR5301028000000	21	18,4
35	5	100	RR5301035000000	25,5	23
42	5	70	RR5301042000000	30	27
54	5	100	RR5301054000000	36	32
64	1	50	RR5301064000000	37,5	32,5
66,7	1	30	RR5301067000000	40	33,5
76	1	25	RR5301076000000	40	33,5
80	1	25	RR5301080000000	43	35,5
89	1	25	RR5301089000000	45	37,5
108	1	5	RR5301108000000	55	108








Art. RD5002

-  F/female thread 90° elbow + gasket seat.
-  Bogenverschraubung 90° mit G Gewinde.
-  Courbe 90° F avec siège pour joint plat, filetage femelle.
-  Curva 90° H/rosca hembra con sede para junta.
-  Угол 90° с гнездом под плоскую прокладку B.

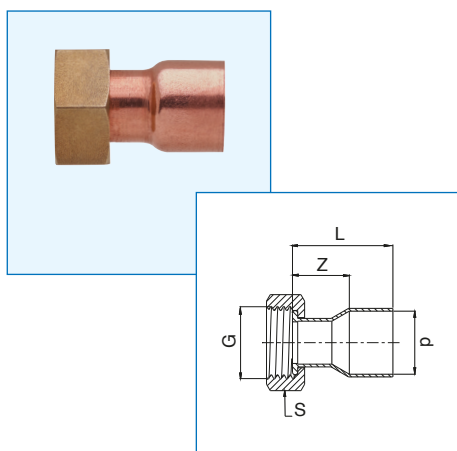
Gxd	BAG	MASTER BOX	CODE	L	L1	S	Z
3/8"x12	10	200	RD5002A38012000	23	25	20	17
1/2"x12	10	150	RD5002A12012000	23	25	24	17
1/2"x14	10	150	RD5002A12014000	27	31	24	20
1/2"x15	10	150	RD5002A12015000	26	28	24	18
1/2"x16	10	100	RD5002A12016000	25	31	24	21
3/4"x15	10	150	RD5002A34015000	35	39	30	29
3/4"x16	10	100	RD5002A34016000	35	39	30	29
3/4"x18	10	100	RD5002A34018000	34	38	30	26
3/4"x22	10	150	RD5002A34022000	32	41	30	26








Art. B5358T

-  Female thread valve connector with a swivel nut in brass + gasket.
-  Halbe Verschraubung mit G Gewinde + OR.
-  Raccord droit avec écrou en laiton filetage femelle + joint.
-  Conexión rosca hembra con tuerca giratoria de latón + junta.
-  Фитинг прямой с накидной гайкой из латуни В.

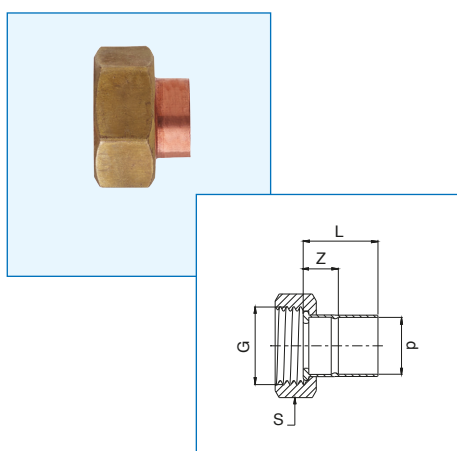
Gxd	BAG	MASTER BOX	CODE	L min	S	Z
1/2"x15	25	250	B5358TA12015000	28,5	24	18
3/4"x15	10	200	B5358TA34015000	28,5	30	18
3/4"x22	10	150	B5358TA34022000	38,5	30	23








Art. B5358G

-  Female thread valve connector with a swivel nut in brass.
-  Halbe Verschraubung mit G Gewinde.
-  Raccord droit avec écrou en laiton filetage femelle.
-  Conexión rosca hembra con tuerca giratoria de latón.
-  Фитинг прямой с накидной гайкой из латуни В.

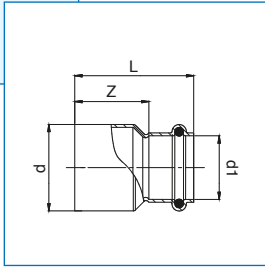
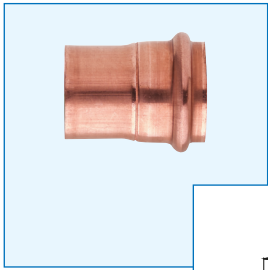
Gxd	BAG	MASTER BOX	CODE	L min	S	Z
3/8"x12	10	150	B5358GA38012000	22	21	13
1/2"x10	10	250	B5358GA12010000	21	24	13
1/2"x12	10	250	B5358GA12012000	25	24	16
1/2"x14	10	250	B5358GA12014000	25	24	14
1/2"x15	10	250	B5358GA12015000	25	24	14
1/2"x16	10	200	B5358GA12016000	25	24	14
3/4"x12	10	200	B5358GA34012000	25	30	16
3/4"x14	10	200	B5358GA34014000	26	30	15
3/4"x15	10	200	B5358GA34015000	27	30	16
3/4"x16	10	200	B5358GA34016000	27	30	16
3/4"x18	10	150	B5358GA34018000	28	30	15
3/4"x20	10	150	B5358GA34020000	34	30	19
3/4"x22	10	150	B5358GA34022000	34	30	19
1"x18	10	100	B5358GB01018000	31	37	18
1"x22	10	100	B5358GB01022000	35	37	20
1"1/4x28	10	50	B5358GB14028000	39	46	21
2"x54	1	16	B5358GC02054000	67	64	35








Art. B5359G

-  Female thread valve connector with a swivel nut in brass.
-  Halbe Verschraubung mit G Gewinde.
-  Raccord droit avec écrou en laiton filetage femelle.
-  Conexión rosca hembra con tuerca giratoria de latón.
-  Фитинг прямой с накидной гайкой из латуни В.

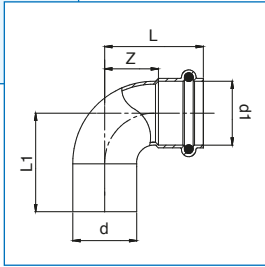
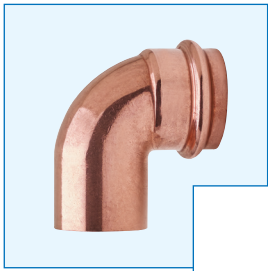
Gxd	BAG	MASTER BOX	CODE	L min	S	Z
1/2"x10	10	200	B5359GA12010000	20	24	12
1/2"x12	10	250	B5359GA12012000	20	24	11
1/2"x14	10	250	B5359GA12014000	20	24	10
1/2"x15	10	250	B5359GA12015000	20	24	10
3/4"x12	10	100	B5359GA34012000	20	30	11
3/4"x14	25	250	B5359GA34014000	20	30	10
3/4"x15	10	200	B5359GA34015000	20	30	10
3/4"x16	10	200	B5359GA34016000	20	30	10
3/4"x18	10	150	B5359GA34018000	22	30	10
1"x18	10	100	B5359GB01018000	22	37	10
1"x22	10	100	B5359GB01022000	25	37	10
1"1/4x28	10	50	B5359GB14028000	28	46	10








Art. RJ5243

-  M solder/F press coupling with O-ring.
-  Löt/Press-Muffe A/I mit O-Ringe.
-  Manchon M à souder/F à sertir avec joint torique.
-  Manguito M para soldar/H para presnar con O-ring.
-  Муфта с уплотнительным кольцом H-B.

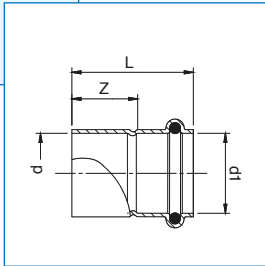
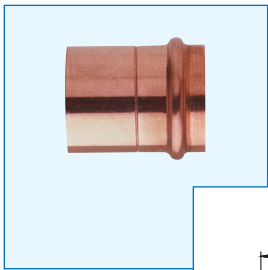
dxd1	BAG	MASTER BOX	CODE	L	Z
32x32	5	50	RJ5243032032000	47	25
40x40	10	50	RJ5243040040000	56	31








Art. RJ5092

-  M solder/F press 90° elbow with O-ring.
-  Löt/Press-Winkel 90° A/I mit O-Ringe.
-  Coude 90° M à souder/F à sertir avec joint torique.
-  Codo 90° M para soldar/H para presnar con O-ring.
-  Угол 90° с уплотнительным кольцом H-B.

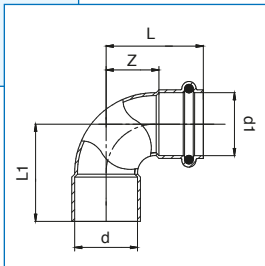
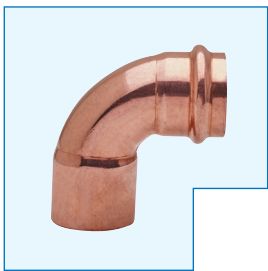
dxd1	BAG	MASTER BOX	CODE	L	L1	Z
32x32	10	50	RJ5092032032000	40	44	16
40x40	10	50	RJ5092040040000	51	53	21








Art. RJ5270

-  F solder/F press coupling with O-ring.
-  Löt/Press-Muffe I/I mit O-Ringe.
-  Manchon F à souder/F à sertir avec joint torique.
-  Manguito H para soldar/H para presnar con O-ring.
-  Муфта с уплотнительным кольцом B-B.

dxd1	BAG	MASTER BOX	CODE	L	Z
32x32	5	50	RJ5270032032000	46	25
40x40	10	50	RJ5270040040000	55	30
52x52	5	50	RJ5270052052000	66	36



Art. RJ5090

-  F solder/F press 90° elbow with O-ring.
-  Löt/Press-Winkel 90° I/I mit O-Ringe.
-  Coude 90° F à souder/F à sertir avec joint torique.
-  Codo 90° H para soldar/H para presnar con O-ring.
-  Угол 90° с уплотнительным кольцом B-B.

dxd1	BAG	MASTER BOX	CODE	L	L1	Z
32x32	10	50	RJ5090032032000	40	41	17
40x40	10	50	RJ5090040040000	51	48	21



1. Introduction

FRABO 4000 is the bronze solder fitting series, available in a dimensional range between 6 and 108 mm and realized in compliance with EN 1254-1 European standard. This standard contains material, tolerances and application parameters; for different application, please, contact our technical office. Mixed connection fittings to other systems are made using bronze threaded parts with solder ends. The threads comply with UNI EN 10226-1 standard.

1. Einführung

FRABO 4000 ist eine Serie von Fittings mit einem Lötanschluss aus Bronze, im Abmessungsbereich von 6 bis 108 mm erhältlich sind und den Anforderungen der europäischen Norm EN 1254-1 entsprechen. Diese Norm regelt Materialien, Toleranzen und Anwendungsparameter; Für verschiedene Anwendungen wenden Sie sich bitte an das technische Büro. Die Übergangsfittings für den Anschluss an andere Systeme werden mittels Verwendung von Bronzegewindeteilen mit Schweißende hergestellt. Die Gewinde entsprechen UNI EN 10226-1.

1. Présentation

FRABO 4000 est une série constituée par des raccords avec des extrémités à souder en bronze disponible dans la gamme dimensionnelle entre 6 et 108 mm et réalisée en conformité avec la norme européenne EN 1254-1. Cette norme régleme les matériaux, les tolérances et les paramètres d'emploi; pour des applications différentes, nous vous prions de contacter notre service technique. Les extrémités filetées de jonction avec des autres systèmes sont réalisées avec des parties filetées en bronze avec terminassions à souder. Les filetages sont conformes à la norme UNI EN 10226-1.

1. Presentación

FRABO 4000 es una serie de racores para soldar de bronce disponible en la gama dimensional desde 6 hasta 108 mm y realizada según las exigencias de la norma europea EN 1254-1. Esta norma regula materiales, tolerancias y parámetros de utilización; para aplicaciones diferentes, por favor, contacten la oficina técnica. Las terminaciones roscadas de conexión con otros sistemas se realizan con piezas de bronce roscadas con extremidad para soldar. Las roscas cumplen con la norma UNI EN 10226-1.

1. Описание

FRABO 4000 - серия фитингов из бронзы под сварку, с размерным рядом от 6 до 108 mm, производится в соответствии с требованиями европейского стандарта EN 1254-1. Этот стандарт регулирует материалы, допуски и параметры использования; в случае иного применения, пожалуйста, свяжитесь с техническим отделом. Фитинги смешанного типа для подсоединения к другим системам выполнены из бронзы с резьбой на одном выходе и соединением под сварку на патрубок. Резьба соответствует стандартам UNI EN 10226-1.

2. Advantages

- Complete range.
- High-quality raw material.
- Fitting tolerances with copper pipe are carefully tested to guarantee an optimum fit and that all junctions are welded quickly and safely.
- Threaded fittings are made of bronze, so they have a better corrosion and dezincification resistance than other less noble alloys.

2. Vorteile

- Vollständigkeit des Sortiments.
- Hochwertiges Vormaterial.
- Genaue Überprüfung der Kupplungstoleranzen mit dem Kupferrohr, um eine schnelle und sichere Ausführung der Schweißverbindungen sicherzustellen.
- Die Gewindefittings bestehen aus Bronze und sind daher frei von korrosiven oder entzinkenden Phänomenen, welche bei weniger edle Legierungen typisch sind.

2. Avantages

- Gamme complète.
- Matières premières de haute qualité.
- Vérification approfondie des tolérances de jonction avec tube en cuivre pour garantir les meilleures conditions de «capillarité» et la réalisation des jonctions soudées rapides et sécurées.
- Les raccords filetés sont réalisés en bronze, donc, ils sont indemnes des phénomènes corrosifs ou des dézincifications typiques des alliages moins nobles.

2. Ventajas

- Completitud de la gama.
- Material de alta calidad.
- Verificación precisa de las tolerancias del apareamiento con el tubo de cobre para garantizar las mejores condiciones de “capilaridad” y la realización de conexiones soldadas con rapidez y seguridad.
- Los racores roscados son de bronce y por eso son inmunes a fenómenos corrosivos o de dezincificación típicos de las aleaciones menos nobles.

2. Преимущества

- Широкая гамма продукции.
- Сырье высокого качества.
- Тщательная проверка допусков в соединении с медной трубой для обеспечения лучших условий для «капиллярности» и быстрого выполнения надежного сварного соединения.
- Резьбовые фитинги произведены из бронзы, поэтому они не подвержены явлениям коррозии или вымыванию цинка, которые характерны для менее благородных сплавов.

3. Applications

FRABO 4000 fittings are suitable for a big number of applications both in civil and industrial installations: drinking water, heating and cooling systems, gas distribution systems, chilled water, compressed-air and solar installations.

3. Anwendungsbereiche

Die Fittings der FRABO 4000 Serie eignen sich für verschiedene Installationsarten im zivilen und industriellen Bereich: Trinkwasser, Heiz- und Kühlsysteme, Gasverteilung, Kühlwasser, Druckluft und Solaranlagen.

3. Champs d'emploi

Les raccords de la gamme FRABO 4000 sont utilisables pour un grand nombre d'emploi dans le secteurs civils et industriels: installations d'eau potable, de chauffage et de refroidissement, de distribution de gaz, d'eau réfrigérée, d'air comprimé et installations solaires.

3. Aplicaciones

Los racores de la gama FRABO 4000 se pueden utilizar en una gran cantidad de aplicaciones en el sector de las instalaciones civiles y industriales: instalaciones de agua potable, de calefacción y refrigeración, sistemas de distribución de gas, de agua refrigerada, de aire comprimido y instalaciones solares.

3. Области применения

Фитинги серии FRABO 4000 идеальны для применения в инженерных системах в гражданском и промышленном строительстве: системах питьевого водоснабжения, отопления и охлаждения, газораспределения, системах охлажденной воды, сжатого воздуха и системах на солнечных коллекторах.



DRINKING
WATER



HEATING



HVAC



GAS



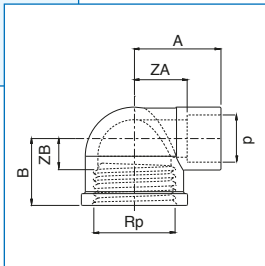
COMPRESSED
AIR



SOLAR



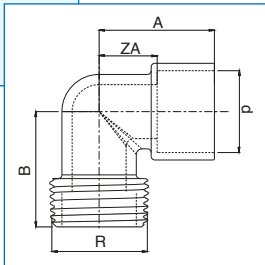
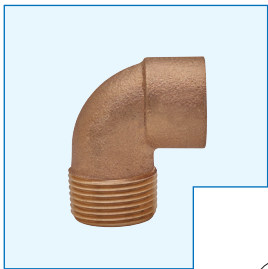
INDUSTRIAL



Art. **RB4090**

- F/female thread 90° elbow.
- Winkel 90° mit I Gewinde.
- Coude 90° F/filetage femelle.
- Codo mixto 90° H/rosca hembra.
- Угол 90° B-B(Rp).

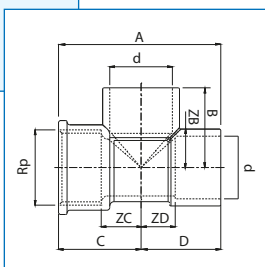
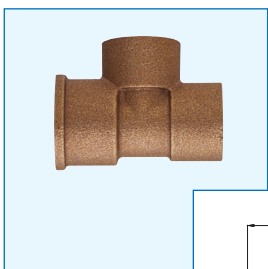
Rpxd	BAG	MASTER BOX	CODE	A	B	ZA	ZB
3/8"x10	10	250	RB4090A38010000	19	14	11,2	3
3/8"x12	10	250	RB4090A38012000	21	17,5	12,4	6,5
3/8"x15	10	200	RB4090A38015000	25	20	12,4	9
1/2"x10	10	250	RB4090A12010000	19,5	17	11,7	4
1/2"x12	10	250	RB4090A12012000	22	17	13,4	4
1/2"x14	10	200	RB4090A12014000	22	19	11,4	5
1/2"x15	10	250	RB4090A12015000	22	21,5	11,4	6,5
1/2"x16	10	200	RB4090A12016000	22	19	11,4	5
1/2"x18	10	150	RB4090A12018000	25	20,5	12,4	7,5
1/2"x22	10	100	RB4090A12022000	26,5	23,5	11,1	11,5
3/4"x15	10	100	RB4090A34015000	26	24	15,4	10
3/4"x16	10	150	RB4090A34016000	26	25	15,4	7
3/4"x18	10	100	RB4090A34018000	27	25	14,4	11
3/4"x22	10	80	RB4090A34022000	31	31	15,6	13
3/4"x28	10	70	RB4090A34028000	35	28	16,6	14
1"x22	5	50	RB4090B01022000	41	24,5	25,6	7,5
1"x28	5	50	RB4090B01028000	38	30,5	19,6	14,5
1"x35	5	30	RB4090B01035000	41	40	18	20
1"1/4"x35	10	40	RB4090B14035000	46	36	23	16
1"1/2"x42	5	30	RB4090B12042000	59	44	32	23



Art. **RB4092**

- F/male thread 90° elbow.
- Winkel 90° mit A Gewinde.
- Coude 90° F/filetage mâle.
- Codo mixto 90° H/rosca macho.
- Угол 90° B-H(R).

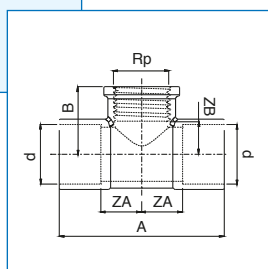
Rxd	BAG	MASTER BOX	CODE	A	B	ZA
3/8"x10	10	200	RB4092A38010000	18	23	10,2
3/8"x12	10	250	RB4092A38012000	18	23	9,4
3/8"x15	10	200	RB4092A38015000	24	25	13,4
1/2"x12	10	250	RB4092A12012000	17,5	25	8,9
1/2"x14	10	250	RB4092A12014000	20	24	9,4
1/2"x15	10	200	RB4092A12015000	21	32	10,4
1/2"x16	10	150	RB4092A12016000	23	32	12,4
1/2"x18	10	150	RB4092A12018000	22	27	9,4
1/2"x22	10	100	RB4092A12022000	26	31	10,6
3/4"x18	10	100	RB4092A34018000	25	31	12,4
3/4"x22	10	100	RB4092A34022000	31	31	15,6
3/4"x28	10	100	RB4092A34028000	33	34,5	14,6
1"x22	5	75	RB4092B01022000	30	36,5	14,6
1"x28	10	50	RB4092B01028000	39	36,5	20,6
1"1/4"x35	5	50	RB4092B14035000	46	49	23



Art. **RB4134**

- F/F/female thread tee.
- T-Stück mit I Gewinde.
- Té F/F/filetage femelle.
- T H/H/rosca hembra.
- Тройник B-B-B(Rp).

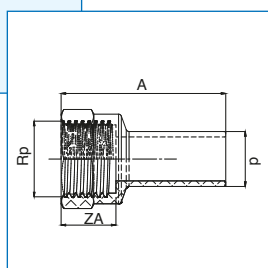
Rpxd	BAG	MASTER BOX	CODE	A	B	C	D	ZB	ZC	ZD
1/2"x15	10	150	RB4134A12015015	44	20	24	20	9	11	9
3/4"x22	10	150	RB4134A34022022	57	28	29	28	12	14	12








Art. RB4130

-  F/female thread/F tee.
-  T-Stück I mit I Gewinde.
-  Té F/filetage femelle/F.
-  T H/rosca hembra/H.
-  Тройник В-В(Rp)-В.

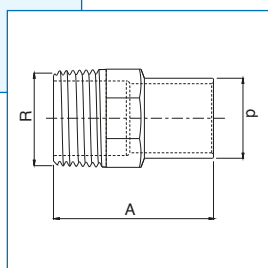
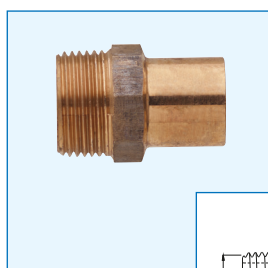
Rpxd	BAG	MASTER BOX	CODE	A	B	ZA	ZB
3/8"x10	10	200	RB4130010A38010	38	17	11,5	8
3/8"x14	10	150	RB4130014A38014	42	19	10,5	8
3/8"x15	10	150	RB4130015A38015	42	20	10,5	7
3/8"x18	10	150	RB4130018A38018	48	19	11,5	8
3/8"x22	10	150	RB4130022A38022	53	22	11,5	11
1/2"x10	10	200	RB4130010A12010	43	19	14	6
1/2"x12	10	150	RB4130012A12012	40	19	11,5	6
1/2"x14	10	100	RB4130014A12014	44	22	11,5	9
1/2"x15	10	150	RB4130015A12015	45	22	12	9
1/2"x16	10	100	RB4130016A12016	57	23	18	10
1/2"x18	10	100	RB4130018A12018	48	22	11,5	9
1/2"x22	10	70	RB4130022A12022	61	25	15,5	12
1/2"x28	5	90	RB4130028A12028	66	29	14,5	16
1/2"x35	5	25	RB4130035A12035	71	31	12,5	16
3/4"x18	10	60	RB4130018A34018	55	25	15	10
3/4"x22	5	80	RB4130022A34022	61	24	15,5	13
3/4"x28	5	40	RB4130028A34028	70	28	17	14
1"x28	10	50	RB4130028B01028	72	35	17,5	17








Art. RB4246

-  Male/female thread adapter.
-  Übergangsstück mit Innengewinde.
-  Manchon M/filetage femelle.
-  Manguito mixto M/rosca hembra.
-  Муфта В-В(Rp).

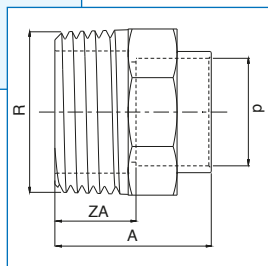
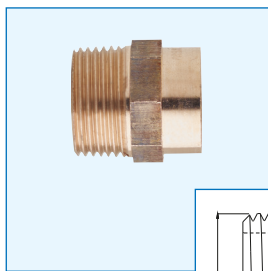
Rpxd	BAG	MASTER BOX	CODE	A	ZA
3/8"x12	10	300	RB4246A38012000	25	12
3/8"x15	10	300	RB4246A38015000	27	12
1/2"x12	10	200	RB4246A12012000	29	15
1/2"x15	10	100	RB4246A12015000	31	15
1/2"x18	10	100	RB4246A12018000	33	15
1/2"x22	10	150	RB4246A12022000	36	15
3/4"x22	10	100	RB4246A34022000	38	17
1"x28	5	100	RB4246B01028000	46	20
1"1/4x35	5	30	RB4246B14035000	52	22
1"1/2x42	5	30	RB4246B12042000	56	22








Art. RB4280

-  M/male thread coupling.
-  Doppelnippel mit A Gewinde.
-  Manchon M/filetage mâle.
-  Manguito mixto M/rosca macho.
-  Муфта H-H(R).

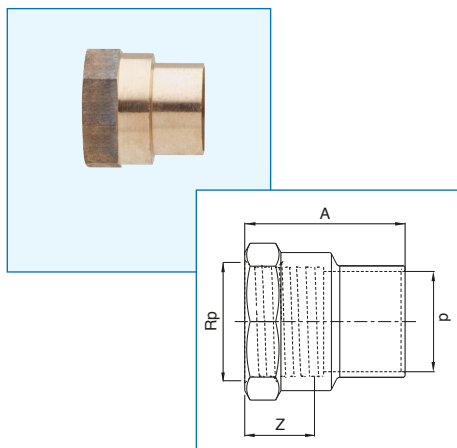
Rxd	BAG	MASTER BOX	CODE	A
1/2"x15	10	100	RB4280A12015000	31
1/2"x22	10	100	RB4280A12022000	40
3/4"x22	10	100	RB4280A34022000	44
1"x28	5	80	RB4280B01028000	47
1"1/4x35	5	20	RB4280B14035000	57
2"x54	1	10	RB4280C02054000	76








Art. **RB4243**

-  F/male thread adapter.
-  Übergangsstück I mit A Gewinde.
-  Manchon F/filetage mâle.
-  Manguito mixto H/rosca macho.
-  Муфта В-Н(Н).

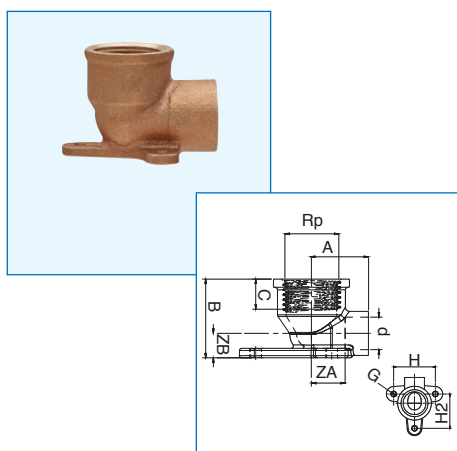
Rxd	BAG	MASTER BOX	CODE	A min	ZA
3/8"x10	10	500	RB4243A38010000	22	14,5
3/8"x12	10	500	RB4243A38012000	22	12,5
3/8"x14	10	300	RB4243A38014000	24	13,5
3/8"x15	10	300	RB4243A38015000	25	14,5
1/2"x10	10	300	RB4243A12010000	24	16,5
1/2"x12	10	350	RB4243A12012000	24	14
1/2"x14	10	300	RB4243A12014000	24	13,5
1/2"x15	10	300	RB4243A12015000	23	12,5
1/2"x16	10	300	RB4243A12016000	25	14,5
1/2"x18	10	300	RB4243A12018000	25	12,5
1/2"x22	10	200	RB4243A12022000	33	16
1/2"x28	10	100	RB4243A12028000	33	15
3/4"x14	10	200	RB4243A34014000	26	15,5
3/4"x15	10	200	RB4243A34015000	28	17,5
3/4"x16	10	200	RB4243A34016000	28	17,5
3/4"x18	10	200	RB4243A34018000	28	15,5
3/4"x22	10	150	RB4243A34022000	29	14
3/4"x28	10	100	RB4243A34028000	36	18
1"x22	10	100	RB4243B01022000	31	16
1"x28	10	100	RB4243B01028000	35	17
1"x35	5	70	RB4243B01035000	44	18
1"1/4x28	5	50	RB4243B14028000	33	15
1"1/4x35	5	50	RB4243B14035000	44	21
1"1/4x42	5	40	RB4243B14042000	49	22
1"1/2x35	5	80	RB4243B12035000	39	16
1"1/2x42	5	35	RB4243B12042000	45	18
1"1/2x54	5	25	RB4243B12054000	56	24
2"x54	5	20	RB4243C02054000	59	27
2"1/2x64	1	15	RB4243C12064000	70	35
2"1/2x76	1	20	RB4243C12076000	71	35
3"x76	1	16	RB4243D03076000	73	37
3"x80	1	16	RB4243D03080000	82	44
3"x89	1	10	RB4243D03089000	84	44
4"x80	1	5	RB4243E04080000	94	56
4"x102	1	6	RB4243E04102000	100	50
4"x108	1	6	RB4243E04108000	98	48








Art. RB4270

-  F/female thread adapter.
-  Übergangsstück I mit I Gewinde.
-  Manchon F/filetage femelle.
-  Manguito mixto H/rosca hembra.
-  Муфта B-B(Rp).

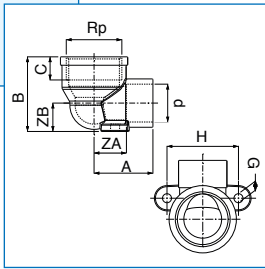
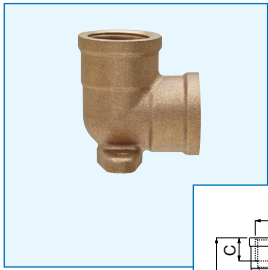
Rpxd	BAG	MASTER BOX	CODE	A min.	Z
3/8"x10	10	400	RB4270A38010000	22	14,2
3/8"x12	10	400	RB4270A38012000	22	13,4
3/8"x14	10	400	RB4270A38014000	22	11,4
3/8"x15	10	300	RB4270A38015000	26	15,4
1/2"x10	10	300	RB4270A12010000	25,5	17,7
1/2"x12	10	300	RB4270A12012000	25	16,4
1/2"x14	10	250	RB4270A12014000	26,5	15,9
1/2"x15	10	250	RB4270A12015000	26,5	15,9
1/2"x16	10	250	RB4270A12016000	26,5	15,9
1/2"x18	10	250	RB4270A12018000	27,5	14,9
1/2"x22	10	200	RB4270A12022000	31	15,6
1/2"x28	10	100	RB4270A12028000	33,5	15,1
3/4"x14	10	200	RB4270A34014000	27	16,4
3/4"x15	10	200	RB4270A34015000	29,5	18,9
3/4"x16	10	200	RB4270A34016000	31	20,4
3/4"x18	10	150	RB4270A34018000	29	16,4
3/4"x22	10	150	RB4270A34022000	31,5	16,1
3/4"x28	10	100	RB4270A34028000	34,5	16,1
1"x22	10	100	RB4270B01022000	31,5	16,1
1"x28	10	80	RB4270B01028000	34	15,6
1"x35	5	50	RB4270B01035000	39,5	16,5
1"x42	5	50	RB4270B01042000	39	12
1"1/4x28	5	50	RB4270B14028000	39,5	21,1
1"1/4x35	5	50	RB4270B14035000	46,5	23,5
1"1/4x42	5	40	RB4270B14042000	49,5	22,5
1"1/2x42	5	30	RB4270B12042000	51,5	24,5
1"1/2x54	5	15	RB4270B12054000	51,5	19,5
2"x54	1	15	RB4270C02054000	59,5	27,5
2"x64	1	10	RB4270C02064000	65	30
2"1/2x64	1	16	RB4270C12064000	69	34
3"x76	1	3	RB4270D03076000	74	38
4"x80	1	6	RB4270E04080000	79	43








Art. RB4471

-  F/female thread 90° elbow with 3-hole wallplate.
-  Deckenwinkel mit Dreiecksaufnahme und I Gewinde.
-  Applique coude 3 trous F/filetage femelle.
-  Codo mixto H/rosca hembra con brida 3 agujeros.
-  Угол с фланцем, 3 отверстия B-B(Rp).

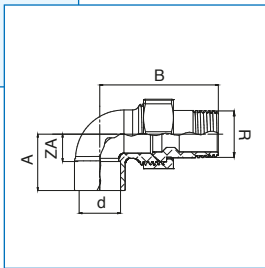
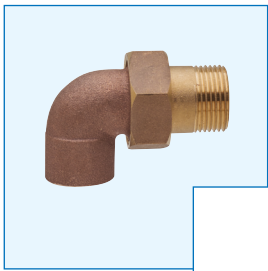
Rpxd	BAG	MASTER BOX	CODE	A	B	C	G	H	H2	ZA	ZB
1/2"x12	10	200	RB4471A12012000	21	29	13	4,5	34	28	12	9
1/2"x15	25	150	RB4471A12015000	21	29	13	4,5	34	28	12	9
1/2"x18	10	100	RB4471A12018000	39	18,4	10,6	4,5	34	28	12	11
1/2"x22	10	80	RB4471A12022000	39,5	18,4	12,6	4,5	32	34	13	13
3/4"x22	10	50	RB4471A34022000	41	18,4	15,4	4,5	34	30	15	15








Art. **RB4472**

-  F/female thread elbow with 2-hole wallplate.
-  Deckenwinkel mit 1 Gewinde.
-  Applique coude 2 trous F/filetage femelle.
-  Codo mixto H/rosca hembra con brida 2 agujeros.
-  Угол с фланцем, 2 отверстия В-В(Rp).

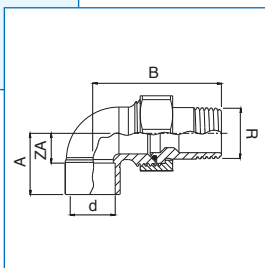
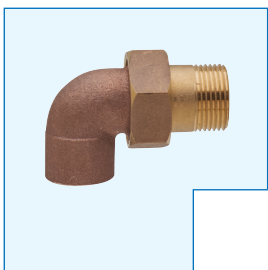
Rpxd	BAG	MASTER BOX	CODE	A	B	C	G	H	ZA	ZB
3/8"x12	10	200	RB4472A38012000	19	27	12	4,5	30	10	7
3/8"x14	10	100	RB4472A38014000	20	29	12	4,5	30	9	11
3/8"x15	10	100	RB4472A38015000	22	30	12	4,5	30	11	11
1/2"x12	10	150	RB4472A12012000	20	26	10	5	35	11	9
1/2"x14	10	150	RB4472A12014000	23	30	10	5	35	12	9
1/2"x15	10	150	RB4472A12015000	23	30	10	5	35	12	9
1/2"x16	10	150	RB4472A12016000	23	29	10	5	35	12	10
1/2"x18	10	100	RB4472A12018000	26	36	10	5	35	13	12
1/2"x22	10	70	RB4472A12022000	27	37	10	5	35	12	14
3/4"x15	10	80	RB4472A34015000	28	35	15	5	39	17	11
3/4"x18	10	80	RB4472A34018000	29	36	15	5	39	16	12
3/4"x22	10	70	RB4472A34022000	31	37	15	5	39	16	13








Art. **B4098G**

-  F/male thread 3-piece conical seat 90° elbow.
-  Winkelverschraubung 90° konischdichtend mit A Gewinde.
-  Coude 90° 3 pièces à joint conique, F/filetage mâle.
-  Codo 90° 3 piezas sede cónica H/rosca macho.
-  Угол 90° трёхсоставной с коническим уплотнением В-Н(R).

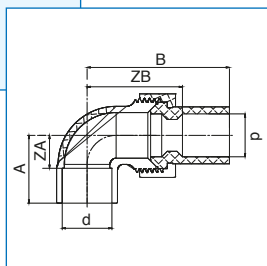
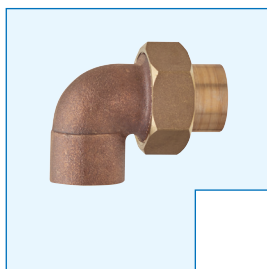
Rxd	BAG	MASTER BOX	CODE	A	B	ZA
3/8"x12	10	100	B4098GA38012000	21	47,5	12,5
3/8"x15	10	100	B4098GA38015000	19	48,5	8,5
1/2"x12	10	100	B4098GA12012000	18	46,5	9,5
1/2"x14	10	100	B4098GA12014000	20	46	9,5
1/2"x15	10	150	B4098GA12015000	19,5	47,5	9
1/2"x16	5	100	B4098GA12016000	21,5	50	11
1/2"x18	10	100	B4098GA12018000	23,5	51	11
3/4"x18	10	50	B4098GA34018000	23,5	55	11
3/4"x22	5	50	B4098GA34022000	29,5	56	14
1"x28	5	30	B4098GB01028000	35,5	67,5	17
1"1/4x28	5	25	B4098GB14028000	33,5	75	15
1"1/4x35	1	20	B4098GB14035000	45	77	22



Art. **B4098O**

-  F/male thread 3-piece 90° elbow + gasket.
-  Winkelverschraubung 90° konischdichtend mit A Gewinde.
-  Coude 90° 3 pièces, F/filetage mâle + joint.
-  Codo 90° 3 piezas H/rosca macho + junta.
-  Угол 90° трёхсоставной с кольцевой прокладкой В-Н(R).

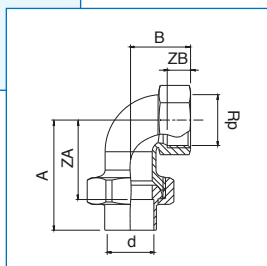
Rxd	BAG	MASTER BOX	CODE	A	B	ZA
1/2"x18	10	100	B4098OA12018000	23,5	51	11
3/4"x18	10	50	B4098OA34018000	23,5	55	11
3/4"x22	5	50	B4098OA34022000	29,5	56	14
1"x28	5	30	B4098OB01028000	35,5	67,5	17



Art. B4096B

- F/F 3-piece conical seat elbow.
- Winkelverschraubung konischdichtend.
- Coude union 3 pièces à joint conique, F/F.
- Codo 3 piezas sede cónica, H/H.
- Угол трёхсоставной с коническим уплотнением В-В.

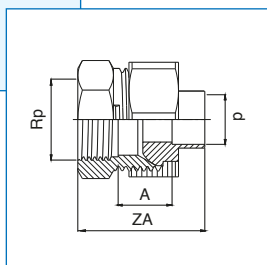
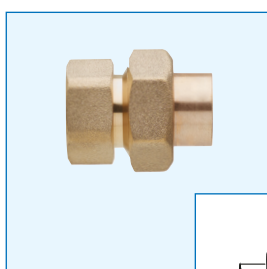
d	BAG	MASTER BOX	CODE	A	B	ZA	ZB
12	10	150	B4096B012012000	17,5	37	9	29
14	10	100	B4096B014014000	20	38	9	27
15	10	100	B4096B015015000	20	40	9	29
16	10	100	B4096B016016000	20	39,5	9	29
18	10	100	B4096B018018000	24	43	11	30
22	10	70	B4096B022022000	29,5	48	14	33
28	10	50	B4096B028028000	36,5	55,5	18	37
35	5	10	B4096B035035000	45	69	22	46



Art. B4096G

- F/female thread 3-piece conical seat 90° elbow.
- Winkelverschraubung 90° konischdichtend mit I Gewinde.
- Coude union 90° F/F à joint conique, filetage Rp.
- Codo 90° 3 piezas sede cónica, H/rosca hembra.
- Угол 90° трёхсоставной с коническим уплотнением В-В(Rp).

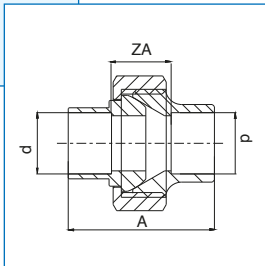
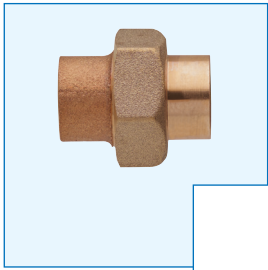
Rpxd	BAG	MASTER BOX	CODE	A	B	ZA	ZB
3/8"x10	10	100	B4096GA38010000	36	20	28	12
3/8"x12	10	100	B4096GA38012000	40	26,5	31	19
3/8"x14	10	100	B4096GA38014000	46	25,5	35	16
3/8"x15	10	100	B4096GA38015000	42,5	17,5	32	10
1/2"x12	10	100	B4096GA12012000	43	28	34	18
1/2"x14	10	80	B4096GA12014000	43	25	32	15
1/2"x15	5	80	B4096GA12015000	44,5	25	34	15
1/2"x16	10	80	B4096GA12016000	42	25	31	15
1/2"x18	10	100	B4096GA12018000	43,5	25	31	15
3/4"x18	5	50	B4096GA34018000	49	30	36	20
3/4"x22	10	50	B4096GA34022000	50	30	35	20
1"x22	5	30	B4096GB01022000	55	33	40	20
1"x28	5	40	B4096GB01028000	58,5	33	40	20








Art. B4340G

- F/female thread 3-piece conical seat joint.
- Rohrverschraubung flachdichtend mit I Gewinde.
- Union 3 pièces à joint conique, F/filetage femelle.
- Unión recta 3 piezas sede cónica, H/rosca hembra.
- Муфта прямая трехсоставная с коническим уплотнением В-В(Rp).

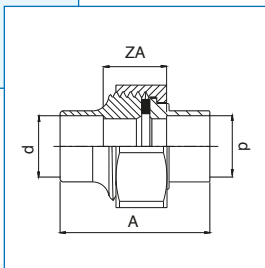
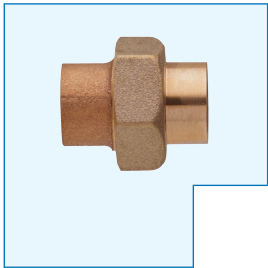
Rpxd	BAG	MASTER BOX	CODE	A	ZA
3/8"x12	10	100	B4340GA38012000	22	41
1/2"x12	10	100	B4340GA12012000	20	41
1/2"x14	10	100	B4340GA12014000	19	42
1/2"x15	10	100	B4340GA12015000	19	42
1/2"x16	10	100	B4340GA12016000	19	42
1/2"x18	10	100	B4340GA12018000	18	43
1/2"x22	10	50	B4340GA12022000	22	50
3/4"x15	10	100	B4340GA34015000	20	45
3/4"x16	10	100	B4340GA34016000	20	45
3/4"x18	5	50	B4340GA34018000	19	46
3/4"x22	10	80	B4340GA34022000	23	50
1"x22	5	50	B4340GB01022000	22	54
1"x28	5	40	B4340GB01028000	22	57
1 1/4"x35	5	25	B4340GB14035000	25	67
1 1/2"x42	5	20	B4340GB12042000	27	74
2"x54	1	15	B4340GC02054000	33	88








Art. B4340B

-  F/F 3-piece conical seat joint.
-  Rohrverschraubung konischdichtend.
-  Union 3 pièces à joint conique, F/F.
-  Unión recta 3 piezas sede cónica, H/H.
-  Муфта прямая трехсоставная с коническим уплотнением В-В.

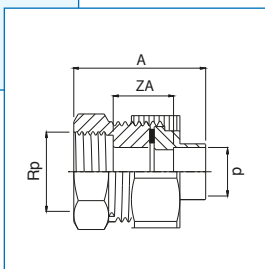
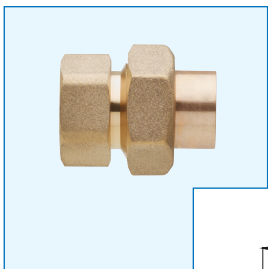
d	BAG	MASTER BOX	CODE	A	ZA
10	10	250	B4340B010010000	35	19
12	10	150	B4340B012012000	31	14
14	10	150	B4340B014014000	36,5	15
15	10	150	B4340B015015000	38	17
16	10	150	B4340B016016000	37	16
18	10	100	B4340B018018000	39	14
22	10	80	B4340B022022000	45	14
28	5	50	B4340B028028000	54	17
35	5	30	B4340B035035000	68	22
42	1	15	B4340B042042000	77,5	24
54	1	5	B4340B054054000	89	25








Art. B4330B

-  F/F 3-piece flat seat joint.
-  Rohrverschraubung flachdichtend.
-  Union 3 pièces à joint plat + joint, F/F.
-  Unión recta 3 piezas sede plana + junta, F/F.
-  Муфта прямая трехсоставная с плоским уплотнением и кольцевой прокладкой В-В.

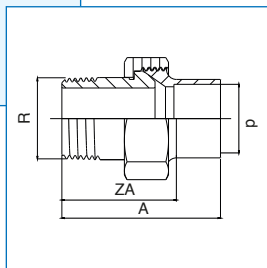
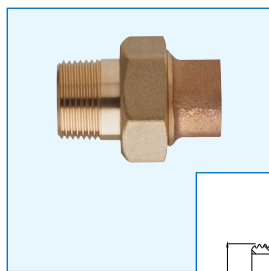
d	BAG	MASTER BOX	CODE	A	ZA
12	10	100	B4330B012012000	34	17
15	10	100	B4330B015015000	38	17
18	10	100	B4330B018018000	37,5	12
22	10	80	B4330B022022000	45,5	15
28	5	50	B4330B028028000	54	17
35	5	30	B4330B035035000	69,5	23








Art. B4330G

-  F/female thread 3-piece flat seat joint.
-  Rohrverschraubung flachdichtend mit I Gewinde.
-  Union 3 pièces à joint plat + joint, F/filetage femelle.
-  Unión recta 3 piezas H sede plana + junta, F/rosca hembra.
-  Муфта прямая трехсоставная с плоским уплотнением и кольцевой прокладкой В-В(Rp).

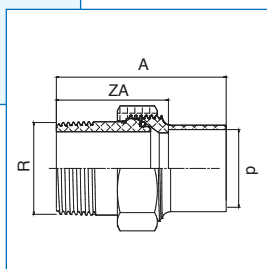
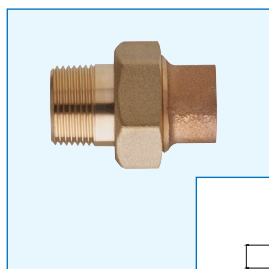
Rpxd	BAG	MASTER BOX	CODE	A	ZA
3/8"x15	10	100	B4330GA38015000	43	22
1/2"x12	10	100	B4330GA12012000	42	20,5
1/2"x15	10	100	B4330GA12015000	42	19
1/2"x18	10	100	B4330GA12018000	44	19
3/4"x18	10	100	B4330GA34018000	47	20
3/4"x22	10	60	B4330GA34022000	50	20
1"x22	5	50	B4330GB01022000	53	21
1"x28	10	40	B4330GB01028000	56	21
1"1/4x35	5	25	B4330GB14035000	66	24








Art. B4341G

-  F/male thread 3-piece conical seat joint.
-  Rohrverschraubung flachdichtend mit A Gewinde.
-  Union 3 pièces à joint conique, F/filetage mâle.
-  Unión recta 3 piezas sede cónica, H/rosca macho.
-  Муфта прямая трехсоставная с коническим уплотнением В-Н(R).

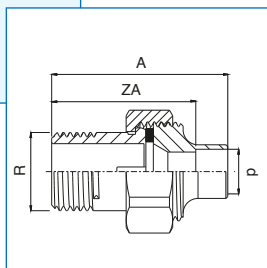
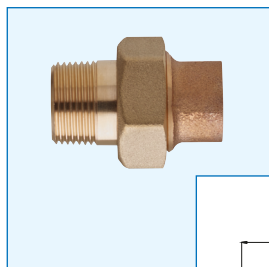
Rxd	BAG	MASTER BOX	CODE	A	ZA
3/8"x10	10	200	B4341GA38010000	41,5	34
3/8"x12	10	100	B4341GA38012000	40	31
1/2"x12	10	100	B4341GA12012000	45,5	37
1/2"x14	10	100	B4341GA12014000	46,5	36
1/2"x15	10	100	B4341GA12015000	46	35
1/2"x16	10	100	B4341GA12016000	46,5	36
1/2"x18	10	100	B4341GA12018000	46,5	34
1/2"x22	10	100	B4341GA12022000	50,5	35
3/4"x15	10	80	B4341GA34015000	49	39
3/4"x16	10	80	B4341GA34016000	54	43
3/4"x18	5	70	B4341GA34018000	52	39
3/4"x22	5	70	B4341GA34022000	53	38
3/4"x28	5	60	B4341GA34028000	59	41
1"x22	5	40	B4341GB01022000	64,5	49
1"x28	5	40	B4341GB01028000	64,5	46
1"1/4x35	5	25	B4341GB14035000	76	53
1"1/2x42	1	20	B4341GB12042000	94	67
2"x54	1	12	B4341GC02054000	105,5	74








Art. B43410

-  F/male thread 3-piece conical seat joint + gasket.
-  Rohrverschraubung flachdichtend + OR mit A Gewinde.
-  Union 3 pièces à joint conique + joint, F/filetage mâle.
-  Unión recta 3 piezas sede cónica, H/rosca macho.
-  Муфта прямая трехсоставная с коническим уплотнением и кольцевой прокладкой В-Н(R).

Rxd	BAG	MASTER BOX	CODE	A	ZA
1/2"x12	10	100	B4341OA12012000	45,5	37
1/2"x14	10	100	B4341OA12014000	46,5	36
1/2"x15	10	100	B4341OA12015000	46	35
1/2"x16	10	100	B4341OA12016000	46,5	36
1/2"x18	10	100	B4341OA12018000	46,5	34
3/4"x15	10	80	B4341OA34015000	49	39
3/4"x18	5	30	B4341OA34018000	52	39
3/4"x22	5	70	B4341OA34022000	53	38
3/4"x28	5	60	B4341OA34028000	59	41
1"x22	5	40	B4341OB01022000	65	49
1"x28	5	40	B4341OB01028000	64,5	46
1"1/4x35	5	25	B4341OB14035000	76	53
1"1/2x42	1	20	B4341OB12042000	94	67
2"x54	1	20	B4341OC02054000	105,5	74



Art. B4331G

-  F/male thread 3-piece flat seat joint + gasket.
-  Rohrverschraubung flachdichtend mit A Gewinde.
-  Union 3 pièces à joint plat + joint, F/filetage mâle.
-  Unión recta 3 piezas sede plana H/rosca macho + junta.
-  Муфта прямая трехсоставная с плоским уплотнением и кольцевой прокладкой В-Н(R).

Rxd	BAG	MASTER BOX	CODE	A	ZA
3/8"x12	10	100	B4331GA38012000	42	33
3/8"x15	10	100	B4331GA38015000	44,5	34
1/2"x12	10	100	B4331GA12012000	43	34
1/2"x15	10	100	B4331GA12015000	46,5	36
1/2"x18	10	100	B4331GA12018000	46	33
3/4"x15	10	60	B4331GA34015000	51,5	41
3/4"x18	10	60	B4331GA34018000	52	39
3/4"x22	10	60	B4331GA34022000	53	38
1"x28	10	40	B4331GB01028000	65	47
1"1/4x35	5	25	B4331GB14035000	77	54



1. Introduction

FRABO G-SIZE is the Cu-DHP (material CW024A in compliance with EN 1412) copper solder fitting series, available in a dimensional range between 22 and 133 mm and realized in compliance with EN 1254-1 European standard.

FRABO G-SIZE fittings are designed and produced to realize soldered junctions, which have to handle high working pressures and heavy mechanical stress: these applications are difficult to manage by using traditional fittings and they requires high-quality products and reliability. FRABO G-SIZE fittings are characterized by a wall thickness higher than the minimum required by UNI EN 1254-1 standard.

1. Einführung

FRABO G-SIZE ist eine Serie von Cu-DHP-Kupferlötfittings (Material CW024A gemäß EN 1412), die im Abmessungsbereich von 22 bis 133 mm erhältlich sind und gemäß den Anforderungen der europäischen Norm EN 1254-1 hergestellt werden.

Die Fittings der FRABO G-SIZE-Serie wurden für die Realisierung von Schweißverbindungen entwickelt und hergestellt, welche hohen Betriebsdrücken oder starken mechanischen Beanspruchungen ausgesetzt sind. Diese Anwendungen, die mit herkömmlichen Fittings schwer zu handhaben sind, erfordern Produkte von hoher Qualität und Zuverlässigkeit. FRABO G-SIZE-Fittings zeichnen sich durch Wandstärken aus, die über den Mindestwerten welche von der UNI EN 1254-1 Norm vorgeschriebenen sind liegen.

1. Présentation

FRABO G-SIZE est une série constituée par des raccords à souder en cuivre Cu-DHP (matériau CW024A selon la norme EN 1412) disponible dans la gamme dimensionnelle entre 22 et 133 mm et réalisée en conformité avec la norme européenne EN 1254-1.

Les raccords de la gamme G-SIZE sont conçus et produits pour la réalisation des jonctions soudées où il y a des pressions de service élevées ou des contraintes mécaniques intenses: ces applications, difficilement gérables par des raccords à souder ordinaires, nécessitent des produits fiables et de haute qualité.

Les raccords FRABO G-SIZE sont caractérisés par épaisseurs de paroi au-dessus des minimums contenus dans la norme UNI EN 1254-1.

1. Presentación

FRABO G-SIZE es una serie de racores para soldar de cobre Cu-DHP (material CW024A según la norma EN 1412) disponible en la gama dimensional desde 22 hasta 133 mm y realizada según las exigencias de la norma europea EN 1254-1.

Los racores de la serie G-SIZE fueron diseñados y producidos para la realización de conexiones soldadas sujetas a presiones de trabajo elevadas o gravosa tensión mecánica: estas aplicaciones, difícilmente manejables por los racores de espesor tradicional, necesitan productos de alta calidad y fiabilidad.

Los racores FRABO G-SIZE tienen espesores de pared superiores a los mínimos indicados en la norma UNI EN 1254-1.

1. Описание

FRABO G-SIZE - серия фитингов под сварку из меди Cu-DHP (материал CW024A в соответствии с EN 1412), размерный ряд от 22 до 133 мм, выпускается в соответствии с требованиями европейского стандарта EN 1254-1.

Фитинги серии FRABO G-SIZE разработаны и произведены для сварных соединений, подверженных высоким рабочим давлениям или тяжелым механическим нагрузкам: для таких соединений не пригодны фитинги с традиционной толщиной, но требуются фитинги высокого качества и надежности.

Фитинги FRABO G-SIZE характеризуются толщиной стенок выше минимальной, предписанной нормативом UNI EN 1254-1.

2. Advantages

- Increased wall thickness.
- Resistance to higher operating pressures than those which can be handled by common solder fittings.
- Resistance to heavy working conditions such as in installations where there are intense mechanical vibrations.
- Resistance to vibrations and heavy mechanical stress.

2. Vorteile

- Erhöhte Wandstärke.
- Widerstand gegen Betriebsdrücke, die höher sind als diejenigen, die mit herkömmlichen Lötfittings realisiert werden können.

- Beständigkeit gegen raue Arbeitsbedingungen, z. B. bei Installationen mit Vibrationen.
- Beständigkeit gegen Vibrationen und starke mechanische Beanspruchung.

2. Avantages

- Epaisseurs de paroi augmentées.
- Résistance à pressions de service plus élevées que celles gérables par des raccords à souder ordinaires.
- Résistance à conditions de service sévères comme où il y a des vibrations.
- Résistance à vibrations et contraintes mécaniques intenses.

2. Ventajas

- Espesor de pared aumentado.
- Resistencia a presiones de trabajo más elevadas que las manejables por los racores para soldar tradicionales.
- Resistencia a condiciones de trabajo gravosas como en instalaciones sujetas a vibraciones.
- Resistencia a vibraciones y tensión mecánica intensa.

2. Преимущества

- Увеличенная толщина стенок.
- Устойчивость к высоким рабочим давлениям, превышающим допустимое для общепринятых фитингов под сварку давление.
- Устойчивость к сложным условиям работы, как, например, в системах, подверженным вибрациям.
- Интенсивная механическая нагрузка.

3. Applications

Thanks to the increased wall thickness, FRABO G-SIZE fittings are suitable for many industrial applications such as, for example, high-pressure gas distribution systems, solar systems, compressed-air system and installations for the industrial refrigeration.

3. Anwendungsbereiche

Dank der erhöhten Wandstärke eignen sich die Fittings der FRABO G-SIZE Serie für verschiedene Anwendungen im industriellen Bereich, beispielsweise für Gasverteilungssysteme mit hohem Druck, Solaranlagen, Druckluftsysteme und industrielle Kühlsysteme.

3. Champs d'emploi

Grâce à l'épaisseur augmentée, les raccords de la gamme FRABO G-SIZE sont parfaits pour différentes applications dans le secteur industriel comme, par exemple, les installations de distribution de gaz à pressions élevées, les installations solaires, d'air comprimé et les systèmes pour la réfrigération industrielle.

3. Aplicaciones

Gracias al espesor de pared aumentado, los racores de la serie FRABO G-SIZE se pueden utilizar en diferentes aplicaciones industriales como, por ejemplo, sistemas de distribución de gas con presiones elevadas, instalaciones solares, de aire comprimido y de refrigeración industrial.

3. Области применения

Благодаря увеличенной толщине стенок, фитинги серии FRABO G-SIZE подходят для различного применения в промышленной области, например, в системах газораспределения с повышенным давлением, системах на солнечных коллекторах, сжатого газа и промышленных системах охлаждения.



GAS



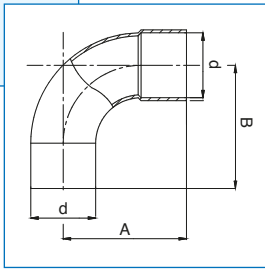
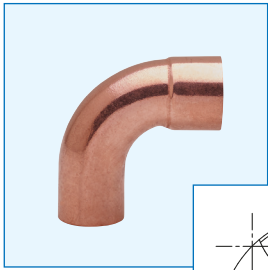
COMPRESSED
AIR




SOLAR



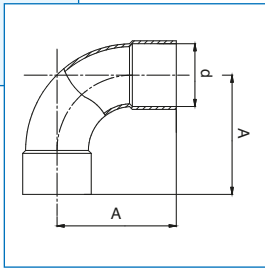
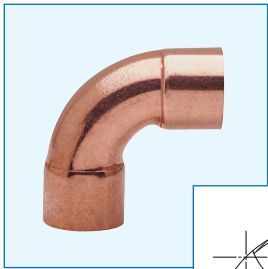
INDUSTRIAL



Art. **RG5001**

-  M/F 90° elbow.
-  Bogen 90° I/A.
-  Courbe 90° M/F.
-  Curva 90° M/H.
-  Угол 90° H-B.

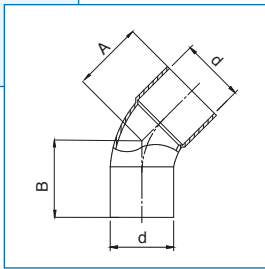
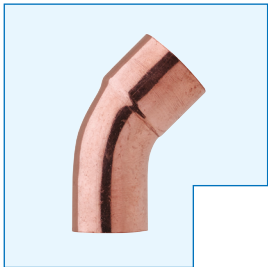
d	BAG	MASTER BOX	CODE	A	B
22	10	100	RG5001022022000	44	46
28	10	50	RG5001028028000	55	57
35	5	80	RG5001035035000	68	70
42	5	50	RG5001042042000	80	81
54	1	10	RG5001054054000	100	102
64	1	5	RG5001064064000	112	114
133	1	1	RG5001133133000	209	212




Art. **RG5002**

-  F/F 90° elbow.
-  Bogen 90° I/I.
-  Courbe 90° F/F.
-  Curva 90° H/H.
-  Угол 90° B-B.

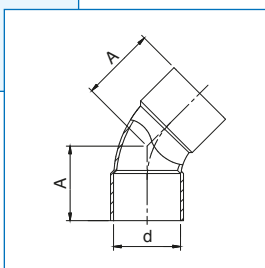
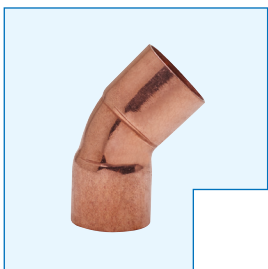
d	BAG	MASTER BOX	CODE	A
22	10	80	RG5002022022000	44
28	10	50	RG5002028028000	54
35	5	50	RG5002035035000	69
42	5	40	RG5002042042000	82
54	1	10	RG5002054054000	100
64	1	5	RG5002064064000	112
76	1	8	RG5002076076000	128
133	1	1	RG5002133133000	209



Art. **RG5040**

-  M/F 45° elbow.
-  Bogen 45° I/A.
-  Courbe 45° M/F.
-  Curva 45° M/H.
-  Угол 45° H-B.

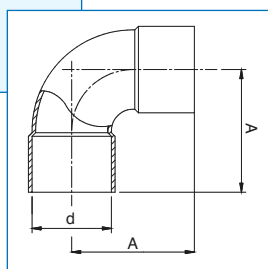
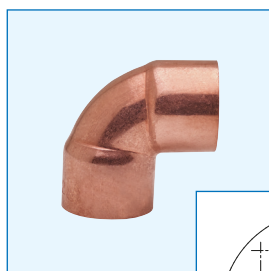
d	BAG	MASTER BOX	CODE	A	B
22	10	350	RG5040022022000	31	32
28	10	200	RG5040028028000	34,5	36,5
35	5	100	RG5040035035000	40	42,5
42	5	60	RG5040042042000	49	54
54	1	10	RG5040054054000	60	72
133	1	2	RG5040133133000	110	113



Art. **RG5041**

-  F/F 45° elbow.
-  Bogen 45° I/I.
-  Courbe 45° F/F.
-  Curva 45° H/H.
-  Угол 45° B-B.

d	BAG	MASTER BOX	CODE	A
22	10	350	RG5041022022000	27
28	10	200	RG5041028028000	33,5
35	5	100	RG5041035035000	40
42	5	60	RG5041042042000	46
54	1	10	RG5041054054000	55,5
133	1	2	RG5041133133000	110



Art. RG5090

F/F 90° elbow.

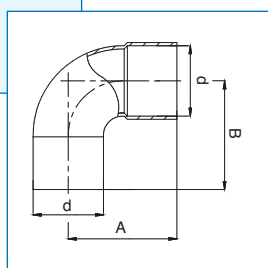
Winkel 90° I/I.

Coude 90° F/F.

Codo 90° H/H.

Угол 90° B-B.

d	BAG	MASTER BOX	CODE	A
35	5	90	RG5090035035000	54
42	5	40	RG5090042042000	61



Art. RG5092

M/F 90° elbow.

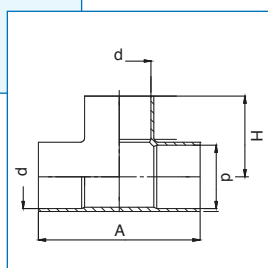
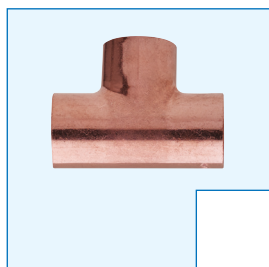
Winkel 90° I/A.

Coude 90° M/F.

Codo 90° M/H.

Угол 90° H-B.

d	BAG	MASTER BOX	CODE	A	B
22	10	300	RG5092022022000	33	35
28	10	150	RG5092028028000	45	47
35	5	90	RG5092035035000	53	55
42	5	40	RG5092042042000	61	63
54	1	10	RG5092054054000	74	76



Art. RG5130

F/F/F tee.

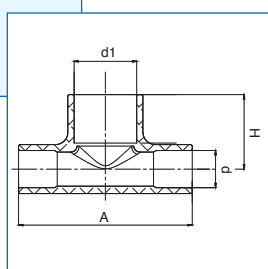
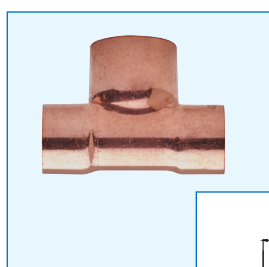
T-Stück I/I/I.

Té F/F/F.

T H/H/H.

Тройник B-B-B.

d	BAG	MASTER BOX	CODE	A	H
22	10	70	RG5130022022022	54	30
28	10	40	RG5130028028028	70	35
35	5	40	RG5130035035035	84	45
42	5	20	RG5130042042042	100	56
54	1	10	RG5130054054054	122	65
64	1	5	RG5130064064064	140	70
133	1	10	RG5130133133133	261	130



Art. RG5130

F/F/F side reduced symmetrical tee.

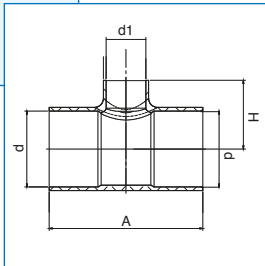
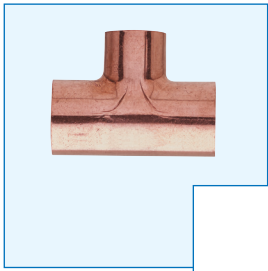
T-Stück reduziert symmetrical Seite I/I/I.

Té réduit latéral symétrique F/F/F.






T reducido lateral simétrico H/H/H.

Тройник с уменьшенным боковым отверстием симметричный B-B-B.

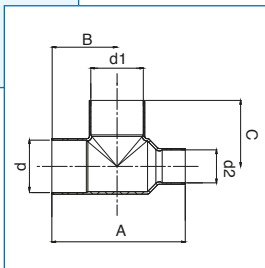
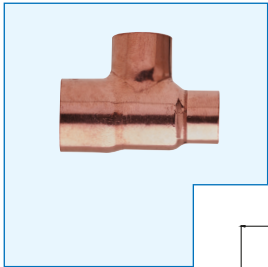
dxd1xd	BAG	MASTER BOX	CODE	A	H
18x22x18	10	100	RG5130018022018	32	30
22x28x22	5	50	RG5130022028022	37	35
28x35x28	5	25	RG5130028035028	42,5	40
35x42x35	5	10	RG5130035042035	48	49
42x54x42	2	8	RG5130042054042	61,5	60,5
42x64x42	1	5	RG5130042064042	82	72
54x67x54	1	8	RG5130054067054	90	80
64x76x64	1	8	RG5130064076064	100	80








Art. RG5 130

-  F/F/F central reduced tee.
-  T-Stück reduziert zentrale symmetrical Seite I/I/I.
-  Té réduit central F/F/F.
-  T reducido central H/H/H.
-  Тройник с уменьшенным торцевым отверстием В-В-В.

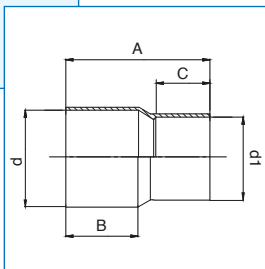
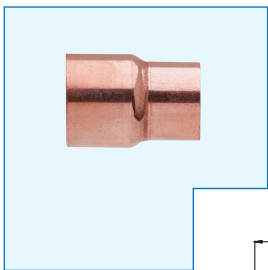
dx _{d1} x _d	BAG	MASTER BOX	CODE	A	H
28x18x28	10	100	RG5130028018028	64	34
35x22x35	5	80	RG5130035022035	82	36
35x28x35	5	70	RG5130035028035	75	36,5
42x22x42	5	60	RG5130042022042	85	38
42x35x42	2	16	RG5130042035042	94	46




Art. RG5 130

-  F/F/F side reduced tee.
-  T-Stück reduziert Seite I/I/I.
-  Té réduit latéral F/F/F.
-  T reducido lateral H/H/H.
-  Тройник с уменьшенным боковым отверстием В-В-В.

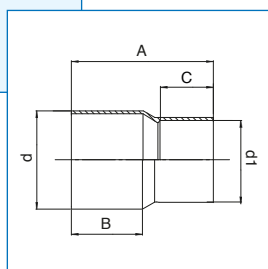
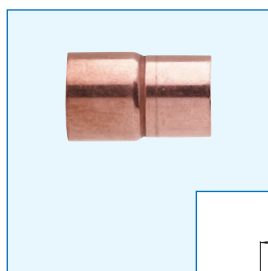
dx _{d1} x _{d2}	BAG	MASTER BOX	CODE	A	B	C
28x22x22	5	50	RG5130028022022	67	32	33
28x28x22	10	100	RG5130028028022	70	35	35
35x22x22	5	80	RG5130035022022	72	36	35
35x28x28	5	20	RG5130035028028	76	38	38
35x35x28	5	20	RG5130035035028	87	43	44
42x28x35	5	50	RG5130042028035	85	43	42
42x35x35	5	20	RG5130042035035	94	47	48
54x35x42	1	10	RG5130054035042	102	51	52
54x42x42	1	10	RG5130054042042	110	55	56
54x54x42	1	15	RG5130054054042	126	61	62



Art. RG5240

-  F/F reducing coupling.
-  Reduziermuffe I/I.
-  Réduction F/F.
-  Reducción H/H.
-  Муфта редуцирующая В-В.

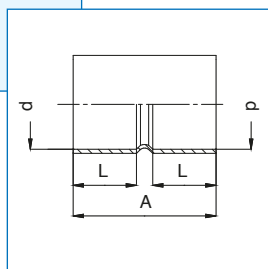
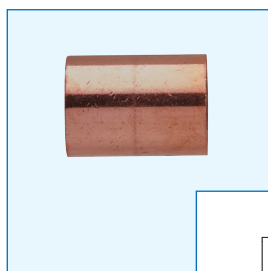
dx _{d1}	BAG	MASTER BOX	CODE	A	B min	C min
28x22	10	200	RG5240028022000	45	18,4	15,4
35x22	10	200	RG5240035022000	52	23	15,4
35x28	10	150	RG5240035028000	57	23	18,4
42x22	5	100	RG5240042022000	59	27	15,4
42x28	5	100	RG5240042028000	60	27	18,4
42x35	5	100	RG5240042035000	61	27	23
54x35	5	70	RG5240054035000	79	32	23
54x42	5	70	RG5240054042000	75	32	27



Art. RG5243

-  M/F reducer.
-  Reduzierstück I/A.
-  Réduction M/F.
-  Reducción M/H.
-  Муфта редукционная Н-В.

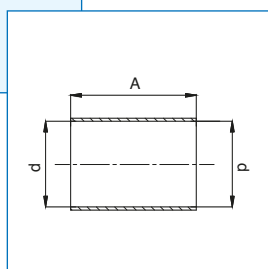
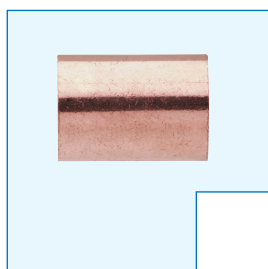
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22x16	10	300	RG5243022016000	37	17,4	10,6
22x18	10	300	RG5243022018000	40	17,4	12,6
28x16	10	200	RG5243028016000	44	20,4	10,6
28x22	10	200	RG5243028022000	43	20,4	15,4
35x18	10	150	RG5243035018000	50	25	12,6
35x22	10	200	RG5243035022000	54	25	15,4
35x28	10	150	RG5243035028000	57	25	18,4
42x22	5	100	RG5243042022000	61	29	15,4
42x28	5	100	RG5243042028000	62,5	29	18,4
42x35	5	70	RG5243042035000	60	29	23
54x35	5	70	RG5243054035000	78	34	23
54x42	5	70	RG5243054042000	76	34	27
64x42	1	10	RG5243064042000	80	34,5	27
89x76	1	8	RG5243089076000	91	39,5	33,5
108x76	1	6	RG5243108076000	111	52	33,5
108x89	1	6	RG5243108089000	107	52	37,5
133x89	1	8	RG5243133089000	119	54	37,5
133x108	1	8	RG5243133108000	126	54	47,5



Art. RG5270

-  F/F coupling.
-  Muffe I/I.
-  Manchon avec flexion F/F.
-  Manguito con remante H/H.
-  Муфта с упором В-В.

d	BAG	MASTER BOX	CODE	A	L min
22	10	200	RG5270022022000	36	15,4
28	10	80	RG5270028028000	42	18,4
35	5	150	RG5270035035000	54	23
42	5	100	RG5270042042000	62	27
54	5	50	RG5270054054000	73	32
133	1	6	RG5270133133000	110	50



Art. RG5271

-  F/F slip coupling.
-  Schiebemuffe I/I.
-  Manchon coulissant F/F.
-  Manguito de paso H/H.
-  Муфта проходная В-В.

d	BAG	MASTER BOX	CODE	A
22	10	200	RG5271022022000	36
28	10	100	RG5271028028000	42
35	5	50	RG5271035035000	54
42	10	40	RG5271042042000	62
54	10	20	RG5271054054000	73



1. Introduction

FRABO FRIO is the Cu-DHP (material CW024A in compliance with EN 1412) copper solder fitting series, available in a dimensional range between 1/4" and 4"1/8.
FRABO FRIO fittings comply with the U.S. ASME ANSI B 16.22 standard.

1. Einführung

FRABO FRIO ist eine Serie aus Cu-DHP-KupferlötfitTINGS (Material CW024A gemäß EN 1412), die im Abmessungsbereich von zwischen 1/4" und 4"1/8 erhältlich sind.
FRABO FRIO Fittings entsprechen der US Norm ASME ANSI B 16.22.

1. Présentation

FRABO FRIO est une série constituée par des raccords à souder en cuivre Cu-DHP (matériau CW024A selon la norme EN 1412) disponible dans la gamme dimensionnelle entre 1/4" et 4"1/8.
Les raccords FRABO FRIO sont conformes à la norme américaine ASME ANSI B 16.22.

1. Presentación

FRABO FRIO es una serie de racores para soldar de cobre Cu-DHP (material CW024A según la norma EN 1412) disponible en la gama dimensional desde 1/4" hasta 4"1/8.
Los racores FRABO FRIO cumplen la norma estadounidense ASME ANSI B 16.22.

1. Описание

FRABO FRIO - серия фитингов под сварку из меди Cu-DHP (материал CW024A в соответствии с EN 1412) с размерным рядом в дюймах от 1/4" до 4"1/8.
Фитинги FRABO FRIO соответствуют стандарту ASME ANSI B 16.22 американского национального института стандартов.

2. Advantages

- Durability.
- Corrosion resistance.
- Maximum hygiene.

2. Vorteile

- Robustheit.
- Korrosionsbeständigkeit.
- Maximale Hygiene.

2. Avantages

- Durabilité.
- Résistance à la corrosion.
- Hygiène maximale.

2. Ventajas

- Solidez.
- Resistencia a la corrosión.
- Máxima higiene.

2. Преимущества

- Прочность.
- Антикоррозийная устойчивость.
- Максимальная гигиеничность.

3. Applications

FRABO FRIO fittings are perfect for both VRV and VRF systems and for chilled water and refrigerant gas distribution systems in general.

3. Anwendungsbereiche

Die Fittings der FRABO FRIO Serie eignen sich ideal für Anwendungen mit Klimaanlage und allgemein für die Verteilung von gekühltem Wasser und Kältemittelgasen.

3. Champs d'emploi

La gamme de raccords FRABO FRIO est idéal pour les applications de climatisation VRV, VRF et, en général, pour la distribution d'eau réfrigérée et de gaz réfrigérants.

3. Aplicaciones

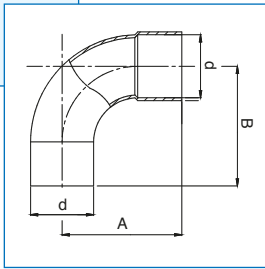
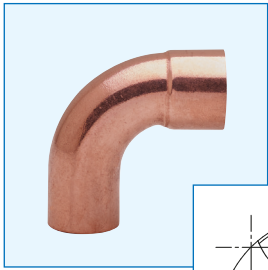
La gama de racores FRABO FRIO es ideal para aplicacione en instalaciones de climatización VRV, VRF y, en general, para la distribución de agua refrigerada o gases refrigerantes.

3. Области применения

Серия пресс-фитингов FRABO FRIO идеальна для применения в системах кондиционирования воздуха VRV, VRF и, в основном, для систем распределения охлажденной воды и холодильных газов.



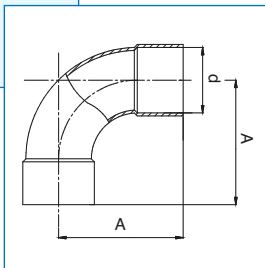
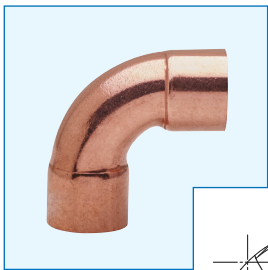
REFRIGERATION



Art. FR5001

-  M/F 90° elbow.
-  Bogen 90° I/A.
-  Courbe 90° M/F.
-  Curva 90° M/H.
-  Углон 90° H-B.

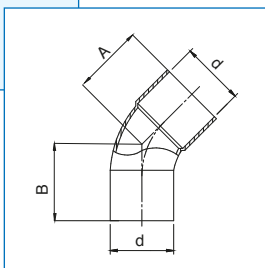
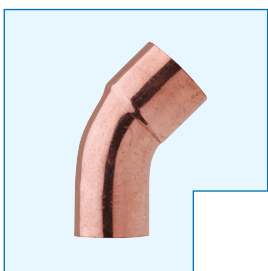
d	BAG	MASTER BOX	CODE	A	B
1/4"	10	100	FR5001A14A14000	19	20
3/8"	5	250	FR5001A38A38000	27	27,5
1/2"	10	50	FR5001A12A12000	29,5	29
5/8"	10	150	FR5001A58A58000	34	34,5
3/4"	10	160	FR5001A34A34000	45	44
7/8"	10	80	FR5001A78A78000	49	49
1"	5	50	FR5001B01B01000	56	57
1 1/8"	5	40	FR5001B18B18000	59,5	60
1 1/4"	5	30	FR5001B14B14000	58,5	59,5
1 3/8"	5	25	FR5001B38B38000	71	75
1 5/8"	5	15	FR5001B58B58000	85	87
2 1/8"	1	5	FR5001C18C18000	106	106
2 5/8"	1	10	FR5001C58C58000	131,5	134
3 1/8"	1	6	FR5001D18D18000	160	163



Art. FR5002

-  F/F 90° elbow.
-  Bogen 90° I/I.
-  Courbe 90° F/F.
-  Curva 90° H/H.
-  Углон 90° B-B.

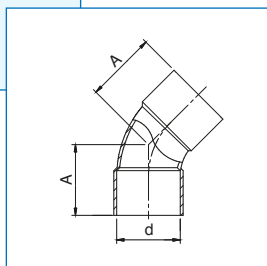
d	BAG	MASTER BOX	CODE	A
1/4"	10	300	FR5002A14A14000	19
3/8"	10	100	FR5002A38A38000	27
1/2"	10	300	FR5002A12A12000	29,5
5/8"	10	150	FR5002A58A58000	34
3/4"	10	100	FR5002A34A34000	45
7/8"	10	80	FR5002A78A78000	49
1"	5	50	FR5002B01B01000	56
1 1/8"	5	40	FR5002B18B18000	59,5
1 1/4"	5	25	FR5002B14B14000	58,5
1 3/8"	5	50	FR5002B38B38000	71
1 5/8"	5	10	FR5002B58B58000	85
2 1/8"	1	6	FR5002C18C18000	106
2 5/8"	1	12	FR5002C58C58000	131,5
3 1/8"	1	6	FR5002D18D18000	160



Art. FR5040

-  M/F 45° elbow.
-  Bogen 45° I/A.
-  Courbe 45° M/F.
-  Curva 45° M/H.
-  Углон 45° H-B.

d	BAG	MASTER BOX	CODE	A	B
1/4"	10	400	FR5040A14A14000	10	12,5
3/8"	10	500	FR5040A38A38000	12	14,5
1/2"	10	300	FR5040A12A12000	14	17
5/8"	10	150	FR5040A58A58000	18,5	20
3/4"	10	100	FR5040A34A34000	21	24
7/8"	10	100	FR5040A78A78000	25	27
1"	5	80	FR5040B01B01000	29,5	31
1 1/8"	5	60	FR5040B18B18000	31	34
1 3/8"	5	25	FR5040B38B38000	35	37
1 5/8"	5	20	FR5040B58B58000	39	43
2 1/8"	1	10	FR5040C18C18000	49	50
2 5/8"	1	10	FR5040C58C58000	58	60



Art. FR5041

F/F 45° elbow.

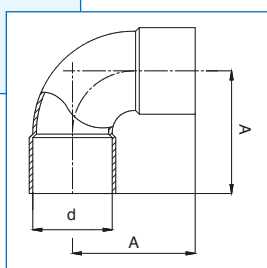
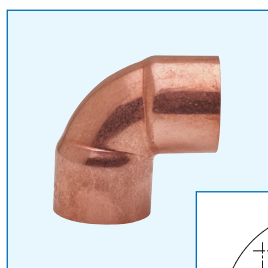
Bogen 45° I/I.

Courbe 45° F/F.

Curva 45° H/H.

Угол 45° B-B.

d	BAG	MASTER BOX	CODE	A
1/4"	10	400	FR5041A14A14000	10
3/8"	10	100	FR5041A38A38000	12
1/2"	10	100	FR5041A12A12000	14
5/8"	10	150	FR5041A58A58000	18,5
3/4"	10	200	FR5041A34A34000	21
7/8"	10	100	FR5041A78A78000	25
1"	10	50	FR5041B01B01000	29,5
1 1/8"	10	60	FR5041B18B18000	31
1 1/4"	10	50	FR5041B14B14000	31,5
1 3/8"	5	30	FR5041B38B38000	35
1 5/8"	5	20	FR5041B58B58000	39
2 1/8"	1	10	FR5041C18C18000	49
2 5/8"	1	20	FR5041C58C58000	58



Art. FR5090

F/F 90° elbow.

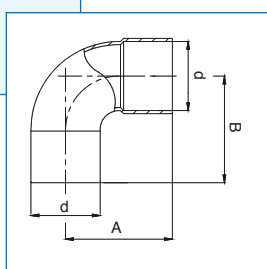
Winkel 90° I/I.

Coude 90° F/F.

Codo 90° H/H.

Угол 90° B-B.

d	BAG	MASTER BOX	CODE	A
1/4"	10	300	FR5090A14A14000	14
3/8"	10	200	FR5090A38A38000	15,5
1/2"	10	300	FR5090A12A12000	18
5/8"	10	120	FR5090A58A58000	21
3/4"	10	200	FR5090A34A34000	26
7/8"	10	40	FR5090A78A78000	31
1"	10	40	FR5090B01B01000	32
1 1/8"	5	50	FR5090B18B18000	39
1 1/4"	5	50	FR5090B14B14000	38
1 3/8"	5	35	FR5090B38B38000	44
1 5/8"	5	20	FR5090B58B58000	50
2 1/8"	1	25	FR5090C18C18000	62,5
2 5/8"	1	20	FR5090C58C58000	76
3 1/8"	1	8	FR5090D18D18000	91



Art. FR5092

M/F 90° elbow.

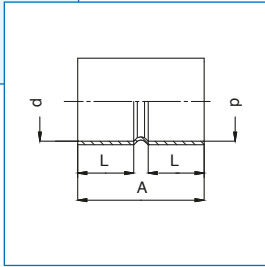
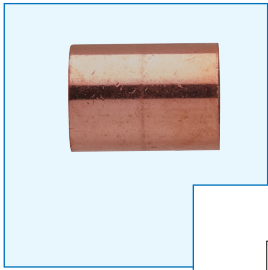
Winkel 90° I/A.

Coude 90° M/F.

Codo 90° M/H.

Угол 90° H-B.

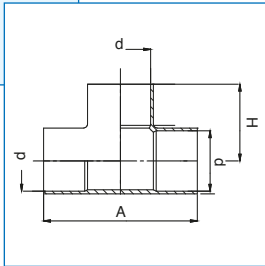
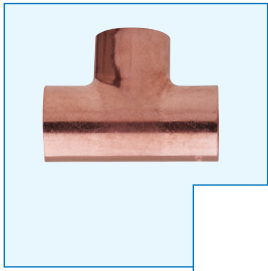
d	BAG	MASTER BOX	CODE	A	B
1/4"	10	400	FR5092A14A14000	14	15
3/8"	10	300	FR5092A38A38000	15,5	16
1/2"	10	350	FR5092A12A12000	18	20
5/8"	10	60	FR5092A58A58000	21	25
3/4"	10	60	FR5092A34A34000	26	30
7/8"	10	40	FR5092A78A78000	31	34
1"	5	20	FR5092B01B01000	32	36
1 1/8"	5	100	FR5092B18B18000	39	43
1 1/4"	5	50	FR5092B14B14000	38	41
1 3/8"	5	40	FR5092B38B38000	44	50
1 5/8"	5	50	FR5092B58B58000	50	51
2 1/8"	1	8	FR5092C18C18000	62,5	64
2 5/8"	1	10	FR5092C58C58000	76	79
3 1/8"	1	10	FR5092D18D18000	91	97



Art. FR5270

-  F/F coupling.
-  Muffe I/I.
-  Manchon avec flexion F/F.
-  Manguito con remante H/H.
-  Муфта с упором В-В.

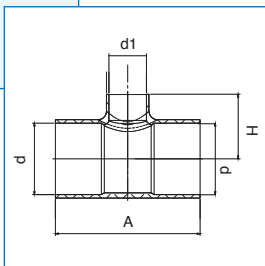
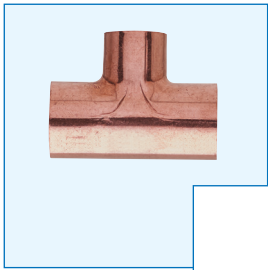
d	BAG	MASTER BOX	CODE	A	L min
1/4"	10	1000	FR5270A14A14000	14,5	6,4
3/8"	10	150	FR5270A38A38000	17	7,9
1/2"	10	400	FR5270A12A12000	20	9,7
5/8"	10	200	FR5270A58A58000	27	12,7
3/4"	10	180	FR5270A34A34000	33	15,8
7/8"	10	150	FR5270A78A78000	39	19,1
1"	5	100	FR5270B01B01000	45,5	22
1 1/8"	5	80	FR5270B18B18000	47	23,1
1 1/4"	5	50	FR5270B14B14000	44,5	21
1 3/8"	5	50	FR5270B38B38000	51	24,6
1 5/8"	5	30	FR5270B58B58000	57	27,7
2 1/8"	5	15	FR5270C18C18000	70	34
2 5/8"	1	20	FR5270C58C58000	79,5	37,5
3 1/8"	1	20	FR5270D18D18000	103	48,5








Art. FR5130

-  F/F/F tee.
-  T-Stück I/I/I.
-  Té F/F/F.
-  T H/H/H.
-  Тройник В-В-В.

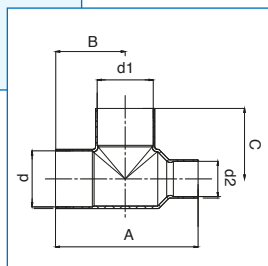
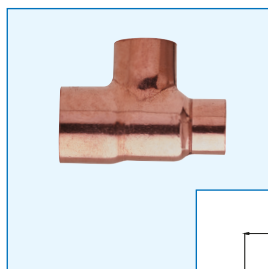
d	BAG	MASTER BOX	CODE	A	H
1/4"	10	1000	FR5130A14A14A14	27	13,5
3/8"	10	400	FR5130A38A38A38	30	15
1/2"	10	300	FR5130A12A12A12	36	18
5/8"	10	200	FR5130A58A58A58	44	22
3/4"	10	100	FR5130A34A34A34	54	27
7/8"	10	70	FR5130A78A78A78	64	32
1"	5	50	FR5130B01B01B01	74	37
1 1/8"	5	30	FR5130B18B18B18	78	39
1 1/4"	5	25	FR5130B14B14B14	79	39,5
1 3/8"	5	20	FR5130B38B38B38	89	44,5
1 5/8"	5	10	FR5130B58B58B58	102	51
2 1/8"	1	8	FR5130C18C18C18	128	64
2 5/8"	1	12	FR5130C58C58C58	154	77
3 1/8"	1	5	FR5130D18D18D18	180	90
3 5/8"	1	4	FR5130D58D58D58	208	104








Art. FR5130

-  F/F/F reducing tee.
-  T-Stück reduziert I/I/I.
-  Té réduit F/F/F.
-  T reducido H/H/H.
-  Тройник уменьшенного размера В-В-В.

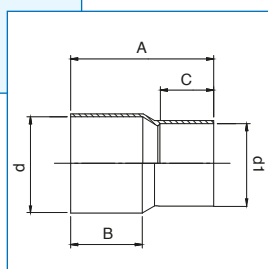
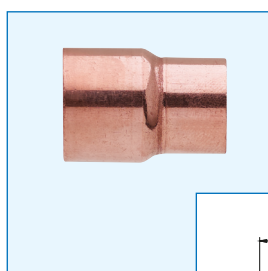
dx1xd	BAG	MASTER BOX	CODE	A	H
3/8"x1/4"x3/8"	10	500	FR5130A38A14A38	32	16
3/4"x5/8"x3/4"	10	100	FR5130A34A58A34	47,3	21,5
1 1/8"x7/8"x1 1/8"	5	25	FR5130B18A78B18	72	35
1 5/8"x2 1/8"x1 5/8"	1	2	FR5130B58C18B58	82	41,5
2 1/8"x2 5/8"x2 1/8"	1	10	FR5130C18C58C18	148	71,5







Art. FR5130

-  F/F/F side reduced tee.
-  T-Stück reduziert Seite I/I.
-  Té réduit latéral F/F/F.
-  T reducido lateral H/H/H.
-  Тройник с уменьшенным боковым отверстием В-В-В.

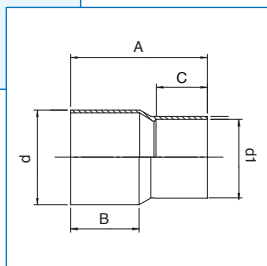
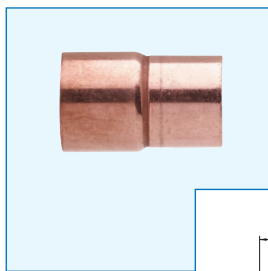
dxd1xd2	SAC.	MASTER BOX	CODE	A	B	C
1/4"x3/8"x3/8"	10	500	FR5130A14A38A38	26	14	13
1"5/8x1"3/8x1"3/8	5	20	FR5130B58B38B38	96	47,5	48
2"1/8x1"5/8x1"5/8	1	5	FR5130C18B58B58	119	58,5	58
2"5/8x2"1/8x2"1/8	1	10	FR5130C58C18C18	120	60	60



Art. FR5240

-  F/F reducing coupling.
-  Reduziermuffe I/I.
-  Réduction F/F.
-  Reducción H/H.
-  Муфта редукционная В-В.

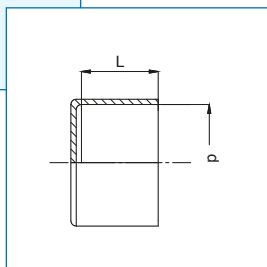
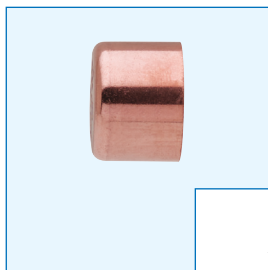
dxd1	BAG	MASTER BOX	CODE	A	B min	C min
1/2"x3/8"	10	500	FR5240A12A38000	21	9,7	7,9
5/8"x1/2"	10	150	FR5240A58A12000	27	12,7	9,7
3/4"x1/2"	10	50	FR5240A34A12000	30	15,8	9,7
3/4"x5/8"	10	200	FR5240A34A58000	34	15,8	12,7



Art. FR5243

-  M/F reducer.
-  Reduzierstück I/A.
-  Réduction M/F.
-  Reducción M/H.
-  Муфта редукционная Н-В.

dxd1	BAG	MASTER BOX	CODE	A	B	C
				min	min	min
3/8"x1/4"	10	50	FR5243A38A14000	35	18	12,7
1/2"x1/4"	5	500	FR5243A12A14000	23	11,2	6,4
1/2"x3/8"	5	250	FR5243A12A38000	22	11,2	7,9
5/8"x3/8"	10	500	FR5243A58A38000	26	14,2	7,9
5/8"x1/2"	10	200	FR5243A58A12000	27	14,2	9,7
3/4"x3/8"	10	100	FR5243A34A38000	31	17,5	7,9
3/4"x1/2"	10	100	FR5243A34A12000	32	17,5	9,7
3/4"x5/8"	10	100	FR5243A34A58000	33	17,5	12,7
7/8"x5/8"	10	200	FR5243A78A58000	38	20,6	12,7
7/8"x3/4"	10	200	FR5243A78A34000	39	20,6	15,8
1"x3/4"	5	120	FR5243B01A34000	47	23,5	15,8
1"x7/8"	5	100	FR5243B01A78000	48,5	23,5	19,1
1"1/8x3/4"	5	40	FR5243B18A34000	47	24,6	15,8
1"1/8x7/8"	5	100	FR5243B18A78000	48,5	24,6	19,1
1"3/8x1"1/8"	5	120	FR5243B38B18000	56	26,2	23,1
1"5/8x1"1/8"	5	50	FR5243B58B18000	62	29,5	23,1
1"5/8x1"3/8"	5	40	FR5243B58B38000	62	29,5	24,6
2"1/8x1"1/8"	5	30	FR5243C18B18000	67	35,8	23,1
2"1/8x1"5/8"	5	30	FR5243C18B58000	71	35,8	27,7
2"5/8x2"1/8"	1	25	FR5243C58C18000	86	39	34
4"1/8x3"5/8"	1	10	FR5243E18D58000	122	56,4	48,5



Art. FR5301

-  F plug.
-  Kappe I.
-  Bouchon F.
-  Tapón Hembra.
-  Зарлушка В.

d	BAG	MASTER BOX	CODE	L
				min
3/8"	10	500	FR5301A38000000	7,9
1/2"	10	500	FR5301A12000000	9,7
5/8"	10	50	FR5301A58000000	12,7
3/4"	10	400	FR5301A34000000	15,8
7/8"	10	300	FR5301A78000000	19,1
1"	5	50	FR5301B01000000	22
1"1/8"	5	150	FR5301B18000000	23,1
1"3/8"	5	100	FR5301B38000000	24,6
1"5/8"	5	60	FR5301B58000000	27,7



COPPER SOLDER FITTINGS FOR MEDICAL APPLICATIONS LÖTFITTINGS AUS KUPFER FÜR DEN MEDIZINISCHEN BEREICH RACCORDS A SOUDER A USAGE MEDICAL EN CUIVRE RACORES PARA SOLDAR DE COBRE PARA USO MÉDICO ФИТИНГИ ПОД СВАРКУ ИЗ МЕДИ ДЛЯ МЕДИЦИНСКОГО ИСПОЛЬЗОВАНИЯ



1. Introduction

FRABO MED is the Cu-DHP (material CW024A in compliance with EN 1412) copper solder fitting series, available in a dimensional range between 6 and 133 mm (for items and dimensions refer to solder ranges FRABO 5000, FRABO G-SIZE and FRABO FRIO). FRABO MED guarantees the realization of high-purity systems for medical sector. FRABO MED products are subjected to washing treatment to eliminate from surfaces all remains of mechanical operations.

1. Einführung

FRABO MED ist eine Serie von Cu-DHP-Lötfittings (Material CW024A nach EN 1412), die im Abmessungsbereich von 6 bis 133 mm erhältlich sind. Für die Artikel und Dimensionen beziehen sie sich auf die Serie der Lötfittings FRABO 5000, FRABO G-SIZE und FRABO FRIO.

FRABO MED garantiert die Realisierung von sehr hochreinen Leitungen für den medizinischen Bereich.

Die Produkte der FRABO MED-Serie werden gewaschen, um die Rückstände der mechanischen Bearbeitung von den Oberflächen nahezu vollständig zu entfernen.

1. Présentation

FRABO MED est une série constituée par des raccords à souder en cuivre Cu-DHP (matériau CW024A selon la norme EN 1412) disponible dans la gamme dimensionnelle entre 6 et 133 mm (pour articles et dimensions, faire référence aux gammes à souder FRABO 5000, FRABO G-SIZE et FRABO FRIO).

FRABO MED garantit la réalisation d'installations à pureté très élevée pour le secteur médical.

Les produits de la gamme FRABO MED sont sujets à un traitement de lavage effectué internement pour éliminer complètement les résidus des usinages mécaniques.

1. Presentación

FRABO MED es una serie de racores para soldar de cobre Cu-DHP (material CW024A según la norma EN 1412) disponible en la gama dimensional desde 6 hasta 133 mm (para artículos y dimensiones, referirse a las gamas para soldar FRABO 5000, FRABO G-SIZE y FRABO FRIO).

FRABO MED garantiza la realización de instalaciones de altísima pureza para el sector médico.

Los productos de la serie FRABO MED están sujetos a un tratamiento de lavado efectuado totalmente para eliminar todos los residuos de los procesos mecánicos.

1. Описание

FRABO MED - серия фитингов под сварку из меди Cu-DHP (материал CW024A в соответствии с EN 1412), размерный ряд от 6 до 133 мм.

FRABO MED гарантирует реализацию систем высочайшего уровня чистоты в сфере медицины.

Продукция серии FRABO MED подлежит обязательной промывке на предприятии с целью максимального удаления с поверхностей остатков механической обработки.

2. Advantages

- Subject to special washing treatment.
- Compliance with EN 1254-1, UNI EN 15001 and UNI EN ISO 7396-1.
- Every shipment of material is provided with a declaration of conformity and a specific label with references to standards.

2. Vorteile

- Spezielle Reinigungsbehandlung.
- Einhaltung von den EN 1254-1, UNI EN 15001 und UNI EN ISO 7396-1 Normen.
- Zu jeder Materiallieferung wird eine Konformitätserklärung und Kennzeichnung mit den Verweisen auf die Normen beigelegt.

2. Avantages

- Spécifique traitement de lavage.
- Conformité aux normes EN 1254-1, UNI EN 15001, UNI EN ISO 7396-1.
- Chaque livraison est accompagnée d'une déclaration de conformité et d'une étiquette avec les normes de référence.

2. Ventajas

- Tratamiento de limpieza específico.
- Cumplimiento de las normas EN 1254-1, UNI EN 15001, UNI EN ISO 7396-1.
- Cada expedición de material se acompaña de una declaración de conformidad y de una etiqueta con la referencia a las normas.

2. Преимущества

- Специальная очистка.
- Соответствие нормативам EN 1254-1, UNI EN 15001, UNI EN ISO 7396-1.
- Каждая отгрузка материала сопровождается декларацией соответствия и этикетажом с указанием стандартов.

3. Applications

Oxygen, technical and medical gas distribution systems are the perfect fields of application of FRABO MED fittings, in which the perfect cleaning of internal surface is a fundamental requirement.

3. Anwendungsbereiche

Die Hauptanwendungen der Fittings der FRABO MED Serie sind die Verteilungssysteme für Sauerstoff, technische Gase, medizinische Gase und alle besonderen Anlagen, die extrem hohe Anforderungen im Bereich der Oberflächenreinigung der Teile stellen.

3. Champs d'emploi

Les applications principales de la gamme de raccords FRABO MED sont les installations de distribution d'oxygène, de gaz techniques et médicaux et toutes les installations qui exigent des niveaux très élevés de nettoyage superficiel des pièces.

3. Aplicaciones

Las principales aplicaciones de la serie de racores FRABO MED son las instalaciones de distribución de oxígeno, gases técnicos, gases médicos y todas las instalaciones particulares que necesitan exigencias elevadísimas de limpieza superficial de las piezas.

3. Области применения

Основными областями применения серии фитингов FRABO MED являются системы распределения кислорода, технического и медицинского газа, и все системы, к которым предъявляются высокие требования к чистоте поверхностей изделий.



MEDICAL

BRASS COMPRESSION FITTINGS WITH O-RING SEAL MESSING-KLEMMRINGFITTINGS MIT O-RING RACCORDS A COMPRESSION AVEC ETANCHEITE OR RACORES DE LATÓN A COMPRESIÓN CON ESTANQUEIDAD OR ЛАТУННЫЕ КОМПРЕССИОННЫЕ ФИТИНГИ С УПЛОТНИТЕЛЬНЫМ КОЛЬЦОМ



1. Introduction

Serie 2000PLUS compression fittings have a metallic compression ring and a rubber O-ring, manufactured in compliance with EN 1254-2 standard in the dimensional range between 8 and 28 mm.

The grey high performance HNBR gasket is compliant with EN 681-1 and EN 549 standards, so it is suitable for contact with drinking water and gas.

1. Einführung

Die Fra.Bo Serie 2000PLUS besteht aus Messing-Klemmringverschraubungen mit Klemmring und O-Ring welche gemäß den Anforderungen der Norm EN 1254-2 im Abmessungsbereich 8 bis 28 mm hergestellt werden.

Die verwendete Dichtung besteht aus grauen HNBR, gemäß den Anforderungen der Normen EN 681-1 und EN 549 und ist daher für die Anwendungsbereiche Trinkwasser sowie Gas geeignet.

1. Présentation

La série 2000PLUS est une gamme constituée par des raccords à compression en laiton avec bague et joint torique d'étanchéité réalisé en conformité aux exigences de la norme EN 1254-2 dans la gamme dimensionnelle entre 8 et 28 mm.

Le joint utilisé est réalisé en HNBR à hautes performances de couleur grise conforme aux exigences des normes EN 681-1 et EN 549. Il est donc adapté pour le contact avec eau potable et gaz.

1. Presentación

La serie 2000PLUS es una gama de racores a compresión de latón con anillo de estanqueidad y junta tórica realizada según las exigencias de la norma EN 1254-2 en la gama dimensional desde 8 hasta 28 mm.

La junta utilizada es de HNBR de alto rendimiento de color gris y cumple la norma EN 681-1 y la EN 549, por eso, se puede utilizar en contacto con agua potable y con gas.

1. Описание

Серия 2000PLUS состоит из латунных компрессионных фитингов с обжимным кольцом и уплотнительной прокладкой O-ring, производится в соответствии с требованиями стандарта EN 1254-2. Серия представлена в размерах от 8 до 28 мм. Используемая прокладка выполнена из высокоэффективного эластомера HNBR серого цвета, в соответствии с требованиями стандартов EN 681-1 и EN 549, и пригодна как для питьевой воды, так и для газа.

2. Advantages

- Special gasket for water and gas.
- Extremely simple installation.
- Parts can be completely disassembled.

2. Vorteile

- Spezialdichtung für Wasser- und Gasanwendung.
- Extreme Einfachheit der Montage.
- Vollständige Demontage der Teile möglich.

2. Avantages

- Joint torique spécial pour eau et gaz.
- Très grande facilité de montage.
- Toutes les pièces sont complètement démontables.

2. Ventajas

- Junta especial por agua y por gas.
- Extrema simplicidad de montaje.
- Piezas completamente desmontables.

2. Преимущества

- Специальная прокладка для питьевой воды и газа.
- Чрезвычайно проста в монтаже.
- Возможность полной разборки.

3. Applications

2000PLUS series is perfect for drinking water supply or distribution systems, heating and cooling installations, gas or compressed-air systems.

3. Anwendungsbereiche

Die serie 2000PLUS ist ideal für Trinkwasserverteilungssysteme, Kühl- und Heizsysteme, Gassysteme und Druckluftsysteme.

3. Champs d'emploi

La série 2000PLUS est idéale pour les installations de distribution et adduction d'eau potable, de chauffage et refroidissement, les systèmes de gaz et d'air comprimé.

3. Aplicaciones

La serie 2000PLUS es ideal para instalaciones de distribución y aducción de agua potable, sistemas de calefacción y de refrigeración, instalaciones de gas y de aire comprimido.

3. Области применения

Серия 2000PLUS идеально подходит для систем подачи и распределения питьевой воды, систем отопления и охлаждения, газораспределения, систем сжатого воздуха.



DRINKING
WATER



HEATING



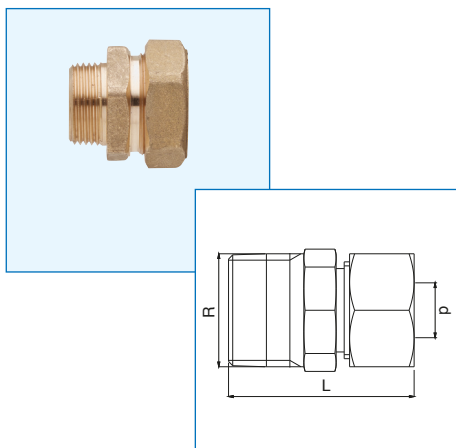
HVAC








GAS



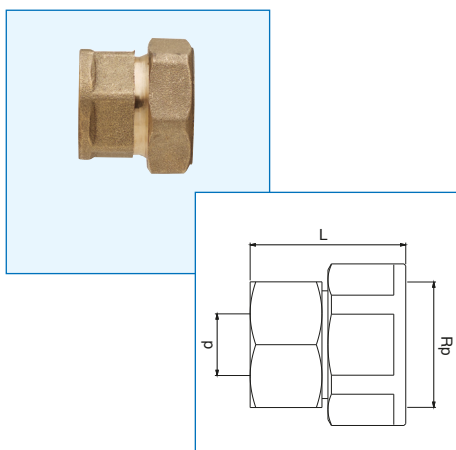
COMPRESSED
AIR








Art. OT2007

-  F/male thread adapter.
-  Übergangsstück I mit A Gewinde.
-  Manchon F/filetage mâle.
-  Manguito mixto H/rosca macho.
-  Муфта B-H(R).

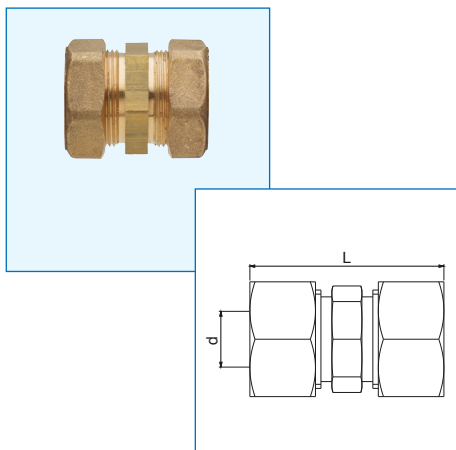
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3/8"x14	10	120	OT2007A38014000	34
3/8"x16	10	120	OT2007A38016000	37
1/2"x10	10	200	OT2007A12010000	33,5
1/2"x12	10	200	OT2007A12012000	35
1/2"x14	10	150	OT2007A12014000	36,5
1/2"x16	10	150	OT2007A12016000	37,5
1/2"x18	10	100	OT2007A12018000	39
1/2"x22	10	70	OT2007A12022000	42,5
3/4"x12	10	120	OT2007A34012000	37
3/4"x14	10	100	OT2007A34014000	38,5
3/4"x16	10	100	OT2007A34016000	40
3/4"x18	10	100	OT2007A34018000	40,5
3/4"x22	5	80	OT2007A34022000	43,5
1"x18	10	70	OT2007B01018000	44,5
1"x22	5	80	OT2007B01022000	45,5
1"x28	10	50	OT2007B01028000	47



Art. OT2010

-  F/female thread adapter.
-  Übergangsstück I mit I Gewinde.
-  Manchon F/filetage femelle.
-  Manguito mixto H/rosca hembra.
-  Муфта B-B(Rp).

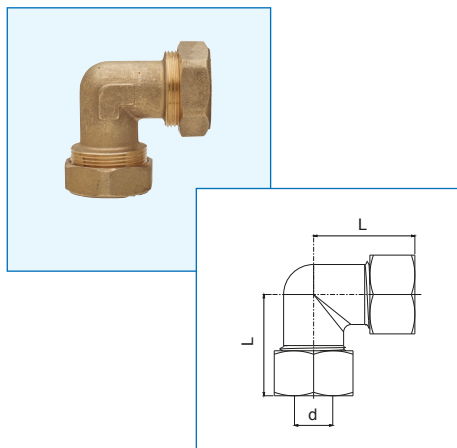
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3/8"x10	10	250	OT2010A38010000	30
3/8"x12	10	180	OT2010A38012000	33
3/8"x14	10	150	OT2010A38014000	34
1/2"x10	10	250	OT2010A12010000	30,5
1/2"x12	10	150	OT2010A12012000	35
1/2"x14	10	200	OT2010A12014000	30,5
1/2"x16	10	100	OT2010A12016000	31
1/2"x18	10	120	OT2010A12018000	31
3/4"x12	10	100	OT2010A34012000	35
3/4"x14	10	100	OT2010A34014000	36
3/4"x16	10	100	OT2010A34016000	36,5
3/4"x18	10	100	OT2010A34018000	36,5
3/4"x22	10	70	OT2010A34022000	37,5
1"x18	10	50	OT2010B01018000	38
1"x22	10	60	OT2010B01022000	39
1"x28	5	50	OT2010B01028000	41



Art. OT2009

-  F/F nipple.
-  Muffe I/I.
-  Manchon F/F.
-  Manguito H/H.
-  Муфта B-B.

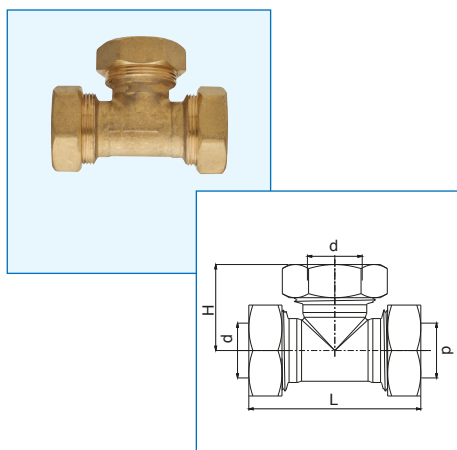
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10	10	200	OT2009010010000	34
12	10	150	OT2009012012000	35
14	10	100	OT2009014014000	39,5
16	10	100	OT2009016016000	44,5
18	10	100	OT2009018018000	45,5
22	5	50	OT2009022022000	50
28	5	50	OT2009028028000	53



Art. OT2002

- F/F elbow.
- Winkel I/I.
- Coude F/F.
- Codo H/H.
- Угол В-В.

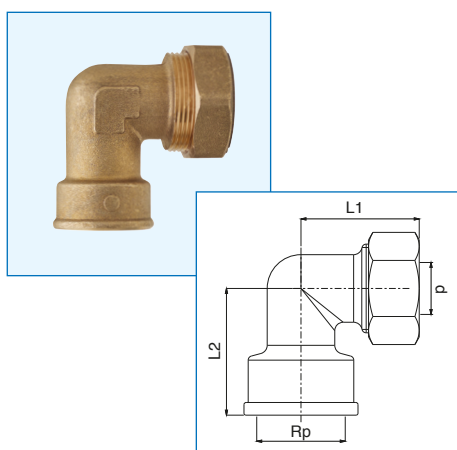
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12	10	100	OT2002012012000	33
14	10	80	OT2002014014000	35
16	5	50	OT2002016016000	37
18	5	40	OT2002018018000	38
22	5	30	OT2002022022000	44,5



Art. OT2005

- F/F/F tee.
- T-Stück I/I/I.
- Té F/F/F.
- T H/H/H.
- Тройник В-В-В.

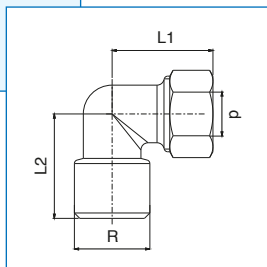
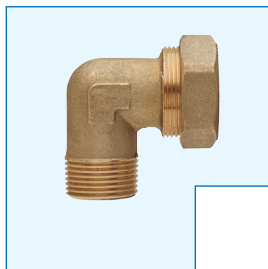
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12	5	100	OT2005012012012	35	69,5
14	5	50	OT2005014014014	36,5	71
16	5	50	OT2005016016016	38	75,5
18	10	50	OT2005018018018	39	78
22	5	30	OT2005022022022	40	80,5



Art. OT2090

- F/female thread elbow.
- Bogen I mit I Gewinde.
- Coude F/filetage femelle.
- Codo mixto H/rosca hembra.
- Угол В-В(Rp).

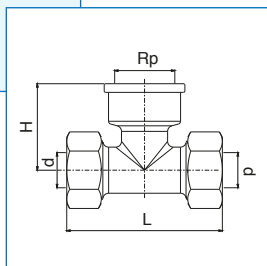
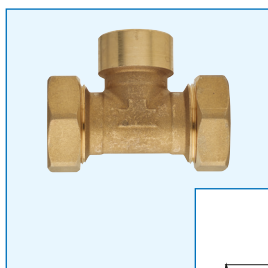
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1/2"x14	10	80	OT2090A12014000	35	30
1/2"x16	10	70	OT2090A12016000	35	30
1/2"x18	10	80	OT2090A12018000	40,5	31,5
1/2"x22	10	50	OT2090A12022000	41,5	33,5
3/4"x14	10	50	OT2090A34014000	36	32
3/4"x16	5	50	OT2090A34016000	37	35
3/4"x18	10	100	OT2090A34018000	38	35
3/4"x22	10	40	OT2090A34022000	41,5	41



Art. OT2092

-  F/male thread elbow.
-  Bogen mit A Gewinde.
-  Coude F/filetage mâle.
-  Codo mixto H/rosca macho.
-  Угол B-H(R).

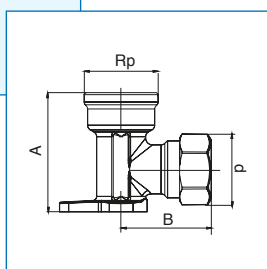
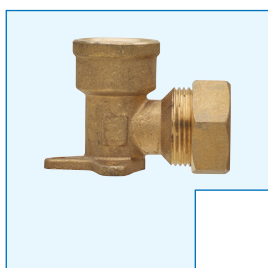
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1/2"x10	10	100	OT2092A12010000	32	27
1/2"x12	10	80	OT2092A12012000	33	28
1/2"x14	10	100	OT2092A12014000	35	30
1/2"x16	10	70	OT2092A12016000	35,5	30
1/2"x18	10	80	OT2092A12018000	37	33
3/4"x14	10	100	OT2092A34014000	36	32
3/4"x16	10	100	OT2092A34016000	37	35
3/4"x18	5	100	OT2092A34018000	38	35
3/4"x22	5	40	OT2092A34022000	41,5	39








Art. OT2130

-  F/female thread/F tee.
-  T-Stück I mit I Gewinde.
-  Té F/filetage femelle/F.
-  T H/rosca hembra/H.
-  Тройник B-B(Rp)-B.

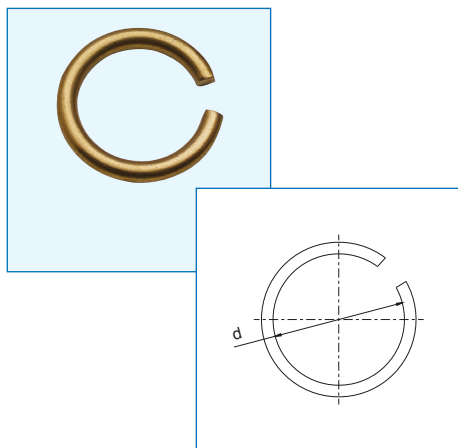
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1/2"x12	5	70	OT2130012A12012	67,5	35,5
1/2"x14	5	50	OT2130014A12014	71	36,5
1/2"x16	5	50	OT2130016A12016	73	36,5
1/2"x18	5	40	OT2130018A12018	74	38
3/4"x18	5	50	OT2130018A34018	78	39
3/4"x22	5	30	OT2130022A34022	80,5	40



Art. OT2471

-  F/female thread elbow with wallplate.
-  Wandscheibe I mit I Gewinde.
-  Applique coude F/filetage femelle.
-  Codo mixto H/rosca hembra con brida.
-  Угол с фланцем B-B(Rp).

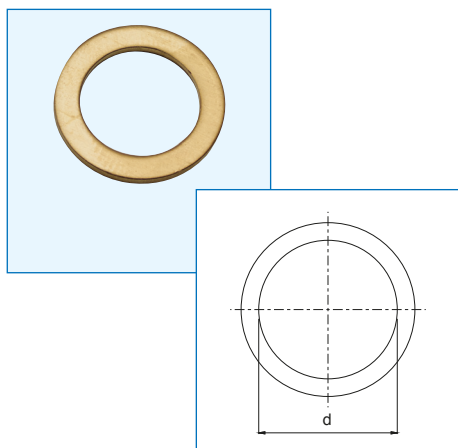
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1/2"x14	10	50	OT2471A12014000	43,5	32,3
1/2"x16	10	50	OT2471A12016000	43,5	34



Art. OT2150

-  Split ring.
-  Ring.
-  Bague.
-  Anillo.
-  Разрезное кольцо.

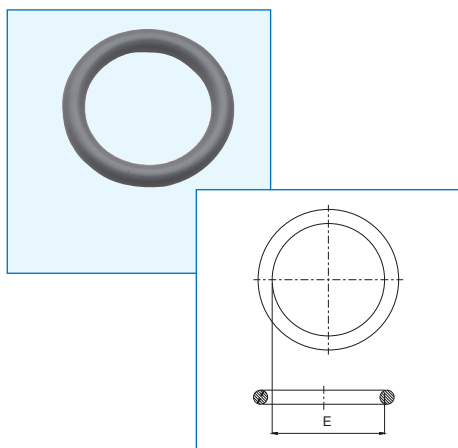
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12	10	10	OT2150012000000
14	10	10	OT2150014000000
16	10	10	OT2150016000000
18	10	10	OT2150018000000
22	10	10	OT2150022000000
28	10	10	OT2150028000000








Art. OT2151

-  Washer.
-  Scheibe.
-  Rondelle.
-  Arandela.
-  Шайба.

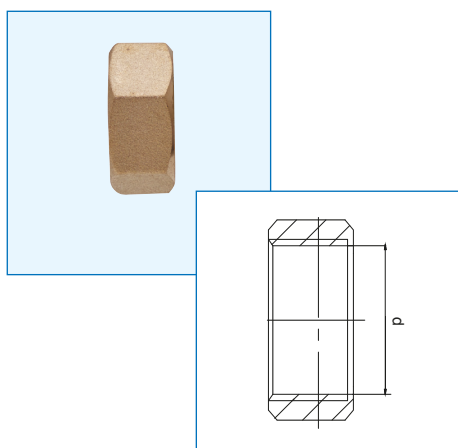
d	BAG	MASTER BOX	CODE
8	10	10	OT2151008000000
10	10	10	OT2151010000000
12	10	10	OT2151012000000
14	10	10	OT2151014000000
16	10	10	OT2151016000000
18	10	10	OT2151018000000
22	10	10	OT2151022000000
28	10	10	OT2151028000000








Art. OR2000

-  Grey O-ring.
-  Graue Dichtung.
-  Joint gris.
-  Junta gris.
-  Кольцевая прокладка серая.

E	BAG	MASTER BOX	CODE
8	10	1000	OR2000008000000
10	10	1000	OR2000010000000
12	10	1000	OR2000012000000
14	10	1000	OR2000014000000
16	10	1000	OR2000016000000
18	10	1000	OR2000018000000
22	10	1000	OR2000022000000
28	10	1000	OR2000028000000



Art. OT2012

-  Nut.
-  Überwurfmutter.
-  Ecrou serre-tube.
-  Tuerca abrazadera de tubos.
-  Зажимная гайка.

d	BAG	MASTER BOX	CODE
10	10	10	OT2012010000000
12	10	10	OT2012012000000
14	10	10	OT2012014000000
16	10	30	OT2012016000000
18	10	10	OT2012018000000
22	10	10	OT2012022000000
28	10	10	OT2012028000000

BRASS COMPRESSION FITTINGS WITH BRASS OGIVE KOMPRESSIION FITTINGS MIT DICHTUNG RACCORDS A COMPRESSION AVEC OGIVE EN LAITON RACORES A COMPRESIÓN CON OJIVA DE LATÓN КОМПРЕССИОННЫЕ ФИТИНГИ С ЛАТУННЫМ ОБЖИМНЫМ КОЛЬЦОМ



1. Introduction

The brass fittings belonging to 6000OT series feature a fully metallic body and are designed according the EN 1254-2 in the dimensional range between 8 and 28 mm.

Threaded ends are made in compliance with EN 10226-1 standard.

serie 6000OT fittings can be used both in civil and in industrial installations.

1. Einführung

Die Serie 6000OT besteht aus vollständig metallische Klemmringverschraubungen, die den Anforderungen der Norm EN 1254-2 im Abmessungsbereich von 8 bis 28 mm entsprechen.

Die Gewindeverbindungen entsprechen der Norm EN 10226-1.

Die Fittings der Serie 6000OT können in einer Vielzahl von Anwendungen sowohl in zivilen als auch in industriellen Installationen eingesetzt werden.

1. Présentation

Les raccords de la série 6000OT sont raccords à compression avec étanchéité complètement métallique conforme aux exigences de la norme EN 1254-2 dans la gamme dimensionnelle entre 8 et 28 mm.

Les filetages sont conformes à la norme EN 10226-1.

La série 6000OT est utilisable dans un large éventail d'applications civiles et industrielles.

1. Presentación

Los racores de la serie 6000OT son racores a compresión con estanqueidad completamente metálica y cumplen las exigencias de la norma EN 1254-2 en la gama dimensional desde 8 hasta 28 mm.

Las roscas cumplen la norma EN 10226-1.

Los racores de la serie 6000OT se utilizan en una amplia gama de aplicaciones civiles e industriales.

1. Описание

Фитинги серии 6000OT - компрессионные фитинги с уплотнением металл по металлу, в соответствии с требованиями стандарта EN 1254-2, размерный ряд от 8 до 28 мм.

Резьбовые соединения выполнены в соответствии со стандартом EN 10226-1.

Фитинги серии serie 6000OT имеют широкое применение в инженерных системах на гражданских и промышленных объектах.

2. Advantages

- Extremely simple installation.
- Parts can be completely disassembled.
- Durability.

2. Vorteile

- Extrem einfache Montage.
- Vollständige Demontage der Teile.
- Große Festigkeit.

2. Avantages

- Très grande facilité de montage.
- Toutes les pièces sont complètement démontables.
- Durabilité.

2. Ventajas

- Extrema simplicidad de montaje.
- Piezas completamente desmontables.
- Gran solidez.

2. Преимущества

- Чрезвычайно простой монтаж.
- Возможность полной разборки.
- Высокая прочность.

3. Applications

6000OT fittings, thanks to the completely metallic seal, are suitable for gas installations, drinking water systems, heating and cooling, compressed-air and solar systems.

3. Anwendungsbereiche

Die Fittings der 6000OT Serie eignen sich dank ihrer vollständig metallischen Abdichtung für den Einsatz in Gassystemen, trinkwasserführenden Anlagen, Heiz- und Kühlsystemen mit Druckluft und Solar.

3. Champs d'emploi

Les raccords de la série 6000OT, grâce à leur étanchéité complètement métallique sont adaptés aux applications de gaz, aux installations d'eau potable, installations de chauffage et de refroidissement, d'air comprimé et solaires.

3. Aplicaciones

Los racores de la serie 6000OT, gracias a su estanqueidad completamente metálica, se utilizan en instalaciones de gas, de agua potable, sistemas de calefacción y refrigeración, de aire comprimido y solares.

3. Области применения

Благодаря уплотнению металл по металлу, фитинги серии 6000OT подходят для использования в системах распределения газа и питьевой воды, в системах отопления и охлаждения, сжатого газа и системах на солнечных коллекторах.



DRINKING
WATER



HEATING



HVAC



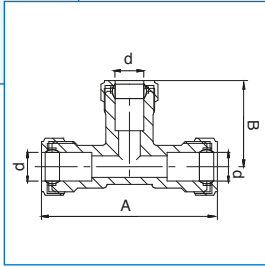
GAS



COMPRESSED
AIR



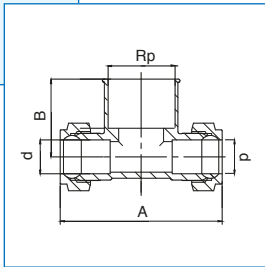
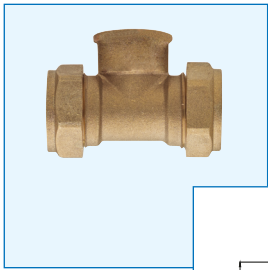
SOLAR



Art. OT6005

-  F/F/F tee.
-  T-Stück I/I/I.
-  Té F/F/F.
-  T H/H/H.
-  Тройник В-В-В.

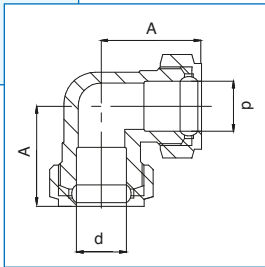
d	BAG	MASTER BOX	CODE	A	B
8	10	100	OT6005008008008	47	23,5
10	10	100	OT6005010010010	52	26
12	10	100	OT6005012012012	53	26,5
14	10	100	OT6005014014014	57	28,5
15	10	100	OT6005015015015	58	29
16	10	100	OT6005016016016	59	29,5
18	10	100	OT6005018018018	61	30,5
22	10	50	OT6005022022022	67	33,5
28	10	30	OT6005028028028	84	42



Art. OT6130

-  F/female thread/F tee.
-  T-Stück I mit I Gewinde.
-  Té F/filetage femelle/F.
-  T H/rosca hembra/H.
-  Тройник В-В(Rp)-В.

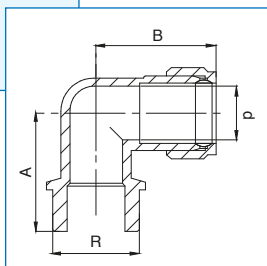
Rp x d	BAG	MASTER BOX	CODE	A	B
3/8"x10	10	100	OT6130010A38010	53	23
1/2"x12	10	100	OT6130012A12012	57	24
1/2"x14	10	100	OT6130014A12014	58	26
1/2"x15	10	100	OT6130015A12015	59	26
1/2"x16	10	100	OT6130016A12016	59	26
1/2"x22	10	100	OT6130022A12022	62	27



Art. OT6002

-  F/F elbow.
-  Winkel I/I.
-  Coude F/F.
-  Codo H/H.
-  Угол 90° В-В.

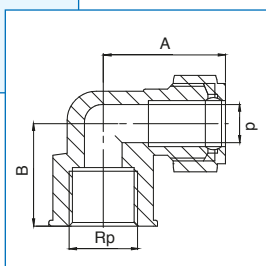
d	BAG	MASTER BOX	CODE	A
8	10	100	OT6002008008000	23,5
10	10	100	OT6002010010000	26
12	10	100	OT6002012012000	27
14	10	100	OT6002014014000	28,5
15	10	100	OT6002015015000	29
16	10	100	OT6002016016000	29,5
18	10	100	OT6002018018000	31
22	10	50	OT6002022022000	33,5
28	10	50	OT6002028028000	42



Art. OT6092

-  F/male thread elbow.
-  Bogen 90° mit A Gewinde.
-  Coude F/filetage mâle.
-  Codo mixto H/rosca macho.
-  Угол B-H(R).

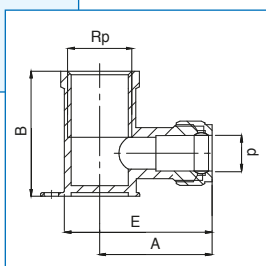
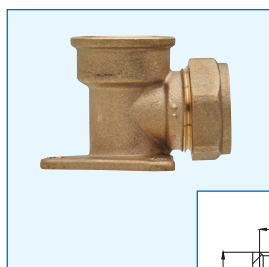
Rxd	BAG	MASTER BOX	CODE	A	B
3/8"x10	10	200	OT6092A38010000	25	26
3/8"x12	10	200	OT6092A38012000	25	26,5
1/2"x12	10	100	OT6092A12012000	25	26,5
1/2"x14	10	100	OT6092A12014000	28	28
1/2"x15	10	100	OT6092A12015000	28	29
1/2"x16	10	100	OT6092A12016000	28	29,5
1/2"x18	10	100	OT6092A12018000	30	30,5
3/4"x18	10	100	OT6092A34018000	31	33,5
3/4"x22	10	100	OT6092A34022000	32,5	33,5
1"x22	10	50	OT6092B01022000	36	37,5
1"x28	10	50	OT6092B01028000	40	42








Art. OT6090

-  F/female thread elbow.
-  Bogen I mit I Gewinde.
-  Coude F/filetage femelle.
-  Codo mixto H/rosca hembra.
-  Угол B-B(Rp).

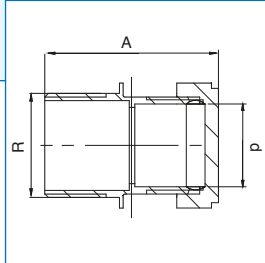
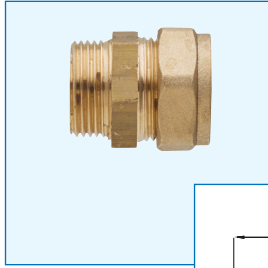
Rpxd	BAG	MASTER BOX	CODE	A	B
3/8"x10	10	100	OT6090A38010000	26,5	23
3/8"x12	10	250	OT6090A38012000	26,5	23
1/2"x12	10	100	OT6090A12012000	28,5	24
1/2"x14	10	100	OT6090A12014000	29	26
1/2"x15	10	100	OT6090A12015000	29,5	26
1/2"x16	10	100	OT6090A12016000	29,5	26
1/2"x18	10	100	OT6090A12018000	31	28
3/4"x18	10	100	OT6090A34018000	34	30
3/4"x22	10	100	OT6090A34022000	34	30,5
1"x22	10	50	OT6090B01022000	38	36
1"x28	10	50	OT6090B01028000	42	35








Art. OT6471

-  F/female thread elbow with wallplate.
-  Wandscheibe I mit I Gewinde.
-  Applique coude F/filetage femelle.
-  Codo mixto H/rosca hembra con brida.
-  Угол с фланцем B-B(Rp).

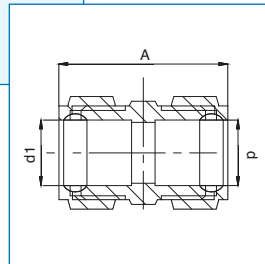
Rpxd	BAG	MASTER BOX	CODE	A	B	E
3/8"x10	10	100	OT6471A38010000	31,5	33	48
1/2"x12	10	100	OT6471A12012000	34	34	50
1/2"x15	10	100	OT6471A12015000	37,5	37,5	52
1/2"x16	10	100	OT6471A12016000	37,5	37,5	52
3/4"x22	10	80	OT6471A34022000	39,5	54	60



Art. OT6007

-  Male thread reducer.
-  Nippel mit A Gewinde.
-  Réduction filetage mâle/mâle.
-  Reducción rosca macho.
-  Муфта редукционная H(R).

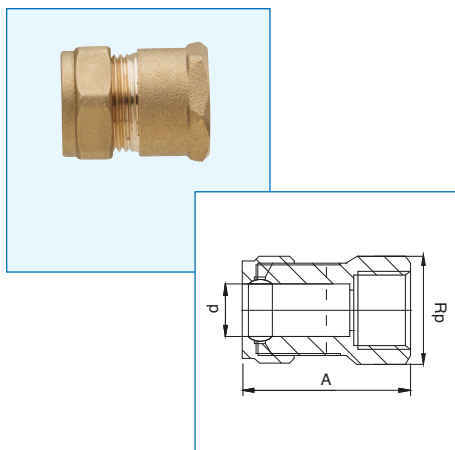
Rxd	BAG	MASTER BOX	CODE	A
1/4"x8	10	100	OT6007A14008000	30
1/4"x10	10	100	OT6007A14010000	30
3/8"x8	10	900	OT6007A38008000	30
3/8"x10	10	250	OT6007A38010000	30
3/8"x12	10	250	OT6007A38012000	30
3/8"x14	10	700	OT6007A38014000	32,5
3/8"x15	10	100	OT6007A38015000	33
1/2"x10	10	200	OT6007A12010000	32
1/2"x12	10	250	OT6007A12012000	32,5
1/2"x14	10	250	OT6007A12014000	34,5
1/2"x15	10	250	OT6007A12015000	36
1/2"x16	10	250	OT6007A12016000	36
1/2"x18	10	100	OT6007A12018000	37,5
3/4"x15	10	100	OT6007A34015000	36
3/4"x18	10	100	OT6007A34018000	37,5
3/4"x22	10	250	OT6007A34022000	37,5
1"x22	10	100	OT6007B01022000	41
1"x28	10	50	OT6007B01028000	45








Art. OT6009

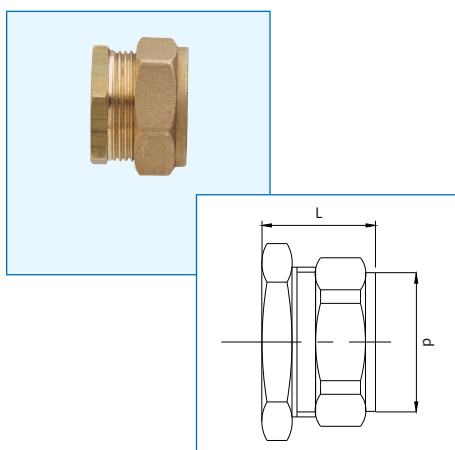
-  F/F nipple.
-  Muffe I/I.
-  Manchon F/F.
-  Manguito H/H.
-  Муфта B-B.

dxd1	BAG	MASTER BOX	CODE	A
8	10	200	OT6009008008000	36
10x8	10	200	OT6009010008000	36
10	10	200	OT6009010010000	36
12x10	10	200	OT6009012010000	36,5
12	10	200	OT6009012012000	37
14	10	400	OT6009014014000	41
15x10	10	100	OT6009015010000	39
15x12	10	100	OT6009015012000	39,5
15	10	100	OT6009015015000	42
16	10	100	OT6009016016000	42
18	10	100	OT6009018018000	45
22x15	10	100	OT6009022015000	43,5
22	10	100	OT6009022022000	45
28x22	10	100	OT6009028022000	51
28	10	120	OT6009028028000	55

Art. **OT6010**

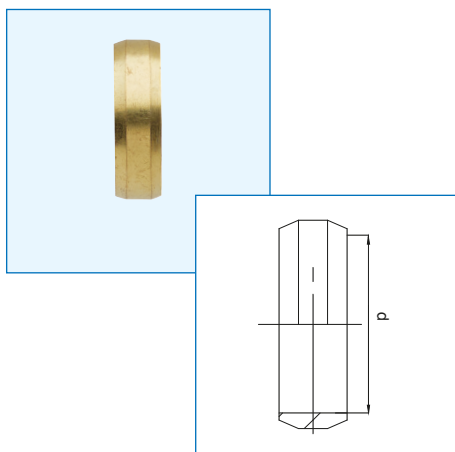
-  F/female thread reducer.
-  Nippel mit I Gewinde.
-  Réduction F/filetage femelle.
-  Reducción F/rosca hembra.
-  Муфта редукционная В-В(Rp).

Rpxd	BAG	MASTER BOX	CODE	A
1/4"x8	10	100	OT6010A14008000	28
1/4"x10	10	100	OT6010A14010000	28
3/8"x8	10	100	OT6010A38008000	28
3/8"x10	10	200	OT6010A38010000	28
3/8"x12	10	700	OT6010A38012000	28,5
3/8"x14	10	700	OT6010A38014000	30,5
3/8"x15	10	100	OT6010A38015000	31
1/2"x10	10	250	OT6010A12010000	30
1/2"x12	10	200	OT6010A12012000	30
1/2"x14	10	250	OT6010A12014000	31
1/2"x15	10	250	OT6010A12015000	34
1/2"x16	10	250	OT6010A12016000	32
1/2"x18	10	100	OT6010A12018000	32,5
3/4"x15	10	100	OT6010A34015000	38
3/4"x16	10	100	OT6010A34016000	38
3/4"x18	10	100	OT6010A34018000	38,5
3/4"x22	10	100	OT6010A34022000	37,5
1"x22	10	50	OT6010B01022000	39,5
1"x28	10	80	OT6010B01028000	44

Art. **OT6281**

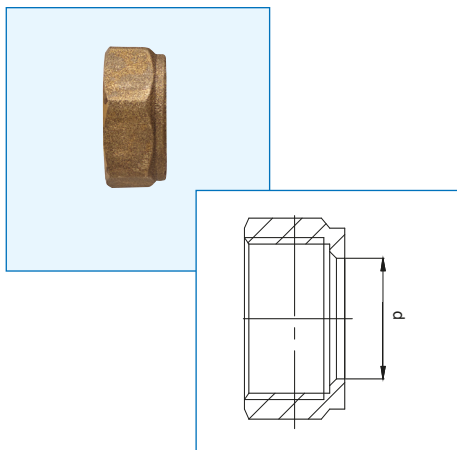
-  F plug.
-  Kappe I.
-  Bouchon F.
-  Tapón Hembra.
-  Заглушка В.

d	BAG	MASTER BOX	CODE	L
15	10	650	OT6281015000000	34
22	10	100	OT6281022000000	37,5
28	10	120	OT6281028000000	44

Art. **OT6011**

-  Brass ogive.
-  Dichtkegel aus Messing.
-  Bague de junction en laiton.
-  Ojiva de latón.
-  Латунное кольцо.

d	BAG	MASTER BOX	CODE
8	10	10	OT6011008000000
10	10	10	OT6011010000000
12	10	10	OT6011012000000
14	10	10	OT6011014000000
15	10	10	OT6011015000000
16	10	10	OT6011016000000
18	10	25	OT6011018000000
22	10	10	OT6011022000000
28	10	10	OT6011028000000



Art. OT6012

-  Nut.
-  Mutter.
-  Ecrou.
-  Tuerca.
-  Гайка.

d	BAG	MASTER BOX	CODE
8	10	10	OT6012008000000
18	10	10	OT6012018000000



Art. OT6283

-  F/F connector.
-  Verbinder I/I.
-  Connecteur F/F.
-  Conector F/F.
-  Соединитель В-В.

d	BAG	MASTER BOX	CODE
1/2"x15	10	200	OT6283A12015000
3/4"x15	10	150	OT6283A34015000
3/4"x22	10	100	OT6283A34022000

BRASS THREADED FITTINGS GEWINDEFITTINGS AUS MESSING RACCORDS FILETES EN LAITON RACORES ROSCADOS DE LATÓN РЕЗЬБОВЫЕ СОЕДИНЕНИЯ ИЗ ЛАТУНИ



1. Introduction

5000OT fittings are made of high-quality brass in the dimensional range between 1/4" and 3". Threads comply with EN 10226-1 standards (except for specific cases). The used brass is CW617N and this alloy has a low lead content according to EN 12164-12165.

1. Einführung

Die Gewindefittings der Serie 5000OT bestehen aus hochwertigem Messing im Abmessungsbereich von 1/4" bis 3". Das Gewinde Thread entspricht der EN 10226-1 Norm (außer in bestimmten Fällen). Die Gewindefittings der Serie 5000OT zeichnen sich durch die Verwendung von CW617N-Messing aus. Die verwendete Legierung ist Bleiarm gemäß UNI EN 12164-12165.

1. Présentation

Les raccords filetés de la série 5000OT sont réalisés en laiton de haute qualité dans la gamme dimensionnelle entre 1/4" et 3". Le filetage est conforme à la norme EN 10226-1 (sauf dans des cas spécifiques). Les raccords de la série 5000OT sont caractérisés par l'utilisation de laiton CW617N. L'alliage utilisé est à faible teneur en plomb selon la norme EN 12164-12165.

1. Presentación

Los racores roscados de la serie 5000OT son de latón de alta calidad en la gama dimensional desde 1/4" hasta 3". Las roscas cumplen la norma EN 10226-1 (excepto en casos específicos). Los racores roscados de la gama serie 5000OT se caracterizan por la utilización de latón CW617N. La aleación utilizada es con bajo contenido de plomo según la norma EN 12164-12165.

1. Описание

Резьбовые соединения серии 5000OT выполнены из латуни высокого качества и представлены в размерах от 1/4" до 3". Резьба соответствует стандарту EN 10226-1 (за исключением особых случаев). Для производства резьбовых соединений серии serie 5000OT используется латунный сплав CW617N с низким уровнем содержания свинца, в соответствии с EN 12164-12165.

2. Advantages

- CW617N brass in compliance with EN 12165 standard.
- High temperature resistant.
- R/Rp cone-shaped threaded fittings, compliant with EN 10226 standard (except for specific cases).
- Suitable for water and fuel oil systems.

2. Vorteile

- Messinglegierung CW617N gemäß EN 12165.
- Sehr gute Beständigkeit gegen hohe Temperaturen.
- konische Gewindekupplung R/Rp gemäß EN 10226/ISO 7 Norm (außer in bestimmten Fällen).
- Geeignet für Wasser- oder brennbare Gasanlagen.

2. Avantages

- Alliage en laiton CW617N conforme à la norme EN 12165.
- Resistance optimale aux hautes températures.
- Accouplement fileté conique R/Rp conformément à la norme EN 10226/ISO 7 (sauf dans des cas spécifiques).
- Adapté à toutes les installations de transport d'eau ou de gaz combustible.

2. Ventajas

- Aleación de latón CW617N según la norma EN 12165.
- Óptima resistencia a las altas temperaturas.
- Apareamiento roscado cónico R/Rp según la norma EN 10226/ISO 7 (excepto en casos específicos).
- Apto por instalaciones de agua o gas combustible.

2. Преимущества

- Латунный сплав CW617N в соответствии с EN 12165.
- Отличная устойчивость к высоким температурам.
- Коническая резьба R/Rp в соответствии с EN 10226/ISO 7 (за исключением особых случаев).
- Подходят для систем транспортировки воды и горючего газа.

3. Applications

5000OT can satisfy different kinds of needs; it is suitable for gas and drinking water installations, firefighting systems, compressed-air, solar systems and heating and cooling installations.

3. Anwendungsbereiche

Mittels der 5000OT Serie können unterschiedlichsten Anforderungen erfüllt werden: Gas- und Trinkwasseranwendungen, Feuerlöschsysteme, Druckluftsysteme, Solarsysteme sowie Heiz- und Kühlanlagen.

3. Champs d'emploi

La série 5000OT est la réponse parfaite pour les exigences les plus différentes. En effet, elle est adaptée aux applications de gaz et d'eau potable, systèmes de protection contre les incendies, installations d'air comprimé, solaires et installations de chauffage et refroidissement.

3. Aplicaciones

La serie 5000OT es la respuesta perfecta a diferentes exigencias; se puede utilizar en aplicaciones gas y agua potable, instalaciones de protección contra incendios, de aire comprimido, solares y sistemas de calefacción y de refrigeración.

3. Области применения

Серия 5000OT способна удовлетворить самые различные потребности: она подходит для применения в системах распределения газа и питьевой воды, противопожарных системах и системах сжатого газа, системах на солнечных коллекторах, системах отопления и охлаждения.



DRINKING
WATER



HEATING



HVAC



GAS



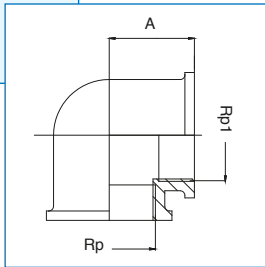
COMPRESSED
AIR








SOLAR



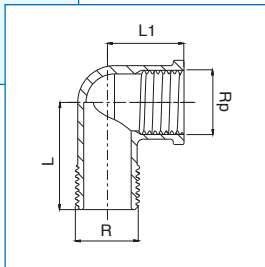
FIREFIGHTING



Art. OT5090

-  Female thread elbow.
-  Bogen mit I Gewinde.
-  Coude filetage femelle/femelle.
-  Codo rosca hembra/hembra.
-  Угол B(Rp)-B(Rp).

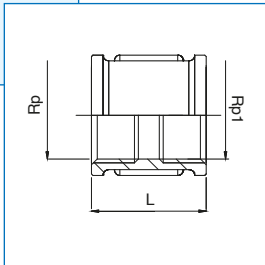
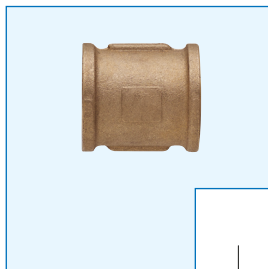
RpxRp1	BAG	MASTER BOX	CODE	A
1/4"	10	200	OT5090A14A14000	19
3/8"	10	150	OT5090A38A38000	21
1/2"	10	100	OT5090A12A12000	25
1/2"x3/4"	10	100	OT5090A12A34000	26
3/4"	5	70	OT5090A34A34000	27
1"x3/4"	10	50	OT5090B01A34000	29
1"	5	40	OT5090B01B01000	31
1"x1/4"	5	25	OT5090B14B14000	40
1"x1/2"	5	15	OT5090B12B12000	45
2"	1	10	OT5090C02C02000	50
2"x1/2"	1	4	OT5090C12C12000	60
3"	1	5	OT5090D03D03000	70








Art. OT5092

-  Female/male thread elbow.
-  Bogen mit RpxR Gewinde.
-  Coude filetage femelle/mâle.
-  Codo rosca hembra/macho.
-  Угол B(Rp)-H(R).

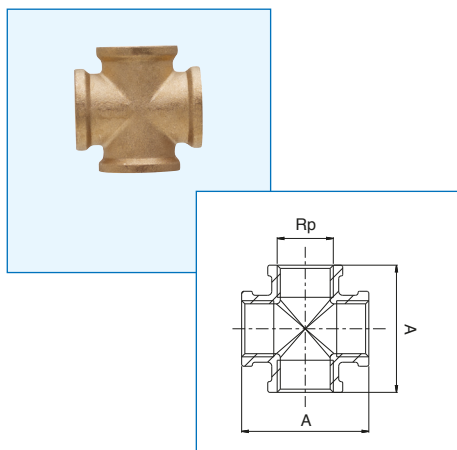
RpxR	BAG	MASTER BOX	CODE	L	L1
1/4"	10	200	OT5092A14A14000	28	19
3/8"	10	150	OT5092A38A38000	29	21
1/2"	10	100	OT5092A12A12000	35	25
1/2"x3/4"	10	200	OT5092A12A34000	37,5	26
3/4"	5	70	OT5092A34A34000	40	27
1"	5	40	OT5092B01B01000	48	32
1"x1/4"	5	25	OT5092B14B14000	55	40
1"x1/2"	5	15	OT5092B12B12000	60	60
2"	1	10	OT5092C02C02000	71	71
2"x1/2"	1	4	OT5092C12C12000	82	82
3"	1	3	OT5092D03D03000	94	94



Art. OT5270

-  Female thread coupling.
-  Muffe mit I Gewinde.
-  Manchon filetage femelle/femelle.
-  Manguito rosca hembra/hembra.
-  Муфта B(Rp)-B(Rp).

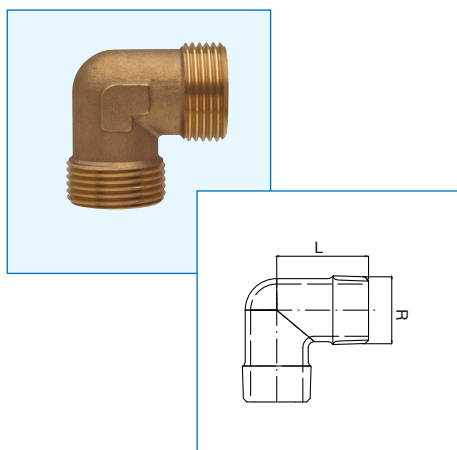
RpxRp1	BAG	MASTER BOX	CODE	L
1/4"	10	300	OT5270A14A14000	25
3/8"x1/4"	10	300	OT5270A38A14000	25
3/8"	10	300	OT5270A38A38000	25
1/2"x3/8"	10	150	OT5270A12A38000	27,5
1/2"	10	150	OT5270A12A12000	35
3/4"x1/2"	10	150	OT5270A34A12000	36
3/4"	10	100	OT5270A34A34000	37
1"x1/2"	10	100	OT5270B01A12000	40
1"x3/4"	10	100	OT5270B01A34000	45
1"	5	50	OT5270B01B01000	49
1"x1/4x1"	5	40	OT5270B14B01000	53,5
1"x1/4"	5	40	OT5270B14B14000	58
1"x1/4x1"x1/2"	5	30	OT5270B14B12000	58
1"x1/4x2"	5	50	OT5270B14C02000	58
1"x1/2x1"	5	50	OT5270B12B01000	59
1"x1/2x2"	1	30	OT5270B12C02000	59
1"x1/2"	5	40	OT5270B12B12000	59
2"	1	20	OT5270C02C02000	65
2"x1/2"	1	10	OT5270C12C12000	75




Art. OT5516

-  Female thread cross.
-  Kreuzstück mit I Gewinde.
-  Croix filetage femelle.
-  Cruz rosca hembra.
-  Крестовина В(Rp).

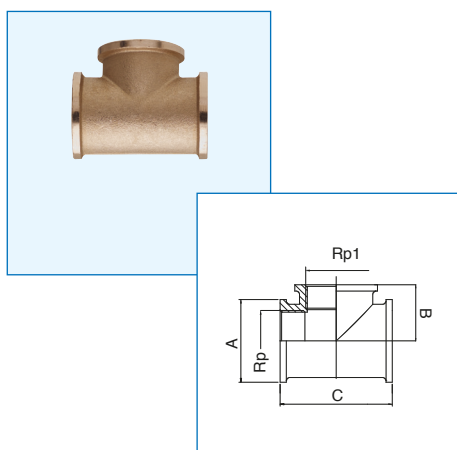
Rp	BAG	MASTER BOX	CODE	A
1/2"	10	50	OT5516A12A12A12	48
3/4"	5	40	OT5516A34A34A34	57
1"	5	20	OT5516B01B01B01	67
1"1/4	5	15	OT5516B14B14B14	81
1"1/2	1	10	OT5516B12B12B12	94
2"	1	6	OT5516C02C02C02	115



Art. OT5134

-  Male thread elbow.
-  Bogen mit RxR Gewinde.
-  Coude filetage mâle/mâle.
-  Codo rosca macho/macho.
-  Угол H(R)-H(R).

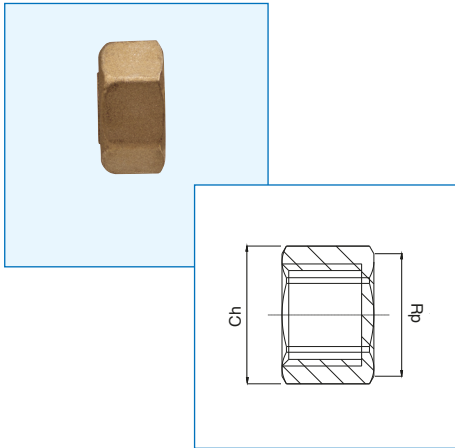
R	BAG	MASTER BOX	CODE	L
3/4"	10	100	OT5134A34A34000	28



Art. OT5005

-  Female thread tee.
-  T-Stück mit I Gewinde.
-  Té filetage femelle.
-  T rosca hembra.
-  Тройник В(Rp).

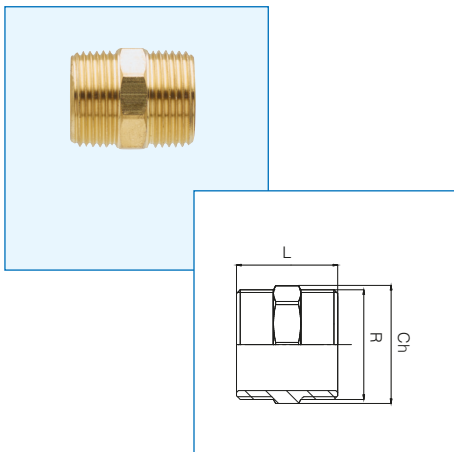
RpxRp1	BAG	MASTER BOX	CODE	A	B	C
1/4"	10	200	OT5005A14A14A14	20	19	38
3/8"	10	150	OT5005A38A38A38	23	21	42
1/2"	10	100	OT5005A12A12A12	28	25	50
3/4"x1/2"x3/4"	10	100	OT5005A34A12A34	31	26	52
3/4"	5	50	OT5005A34A34A34	35	27	54
1"x3/4"x1"	10	50	OT5005B01A34B01	38	29	58
1"	5	30	OT5005B01B01B01	42	31	62
1"1/4	5	20	OT5005B14B14B14	51	40	80
1"1/2	1	15	OT5005B12B12B12	57	45	90
2"	1	10	OT5005C02C02C02	70	50	100
3"	1	2	OT5005D03D03D03	80	60	120








Art. OT5301

-  Female thread plug.
-  Kappe mit I Gewinde.
-  Bouchon filetage femelle.
-  Tapón rosca hembra.
-  Заглушка, В(Рр).

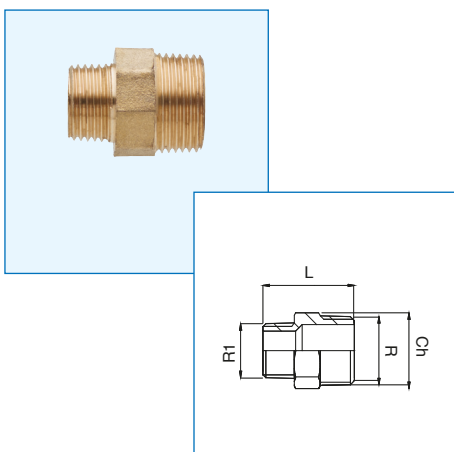
Rp	BAG	MASTER BOX	CODE	Ch
1/4"	10	100	OT5301A14000000	17
3/8"	10	300	OT5301A38000000	20
1/2"	10	300	OT5301A12000000	24
3/4"	10	200	OT5301A34000000	30
1"	10	150	OT5301B01000000	37
1 1/4"	5	100	OT5301B14000000	46
1 1/2"	5	70	OT5301B12000000	52
2"	5	50	OT5301C02000000	64








Art. OT5520

-  Male thread coupling.
-  Messing Nippel mit A Gewinde.
-  Manchon filetage mâle/mâle.
-  Manguito rosca macho/macho.
-  Муфта Н(Р)-Н(Р).

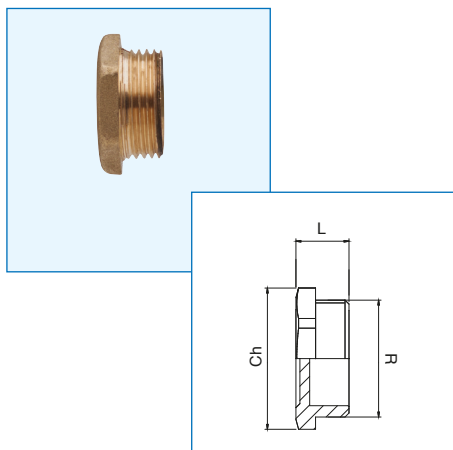
R	BAG	MASTER BOX	CODE	Ch	L
1/4"	10	100	OT5520A14A14000	14	22
3/8"	10	300	OT5520A38A38000	17	26
1/2"	10	250	OT5520A12A12000	21	28
3/4"	10	150	OT5520A34A34000	27	31
1"	10	100	OT5520B01B01000	34	40
1 1/4"	5	50	OT5520B14B14000	42	45
1 1/2"	5	40	OT5520B12B12000	48	47
2"	5	25	OT5520C02C02000	60	55
2 1/2"	5	10	OT5520C12C12000	90	65
3"	5	25	OT5520D03D03000	95	75








Art. OT5521

-  Male thread reducer.
-  Nippel reduziert mit A Gewinde.
-  Réduction filetage mâle/mâle.
-  Reducción rosca macho/macho.
-  Муфта редуцирующая Н(Р)-Н(Р).

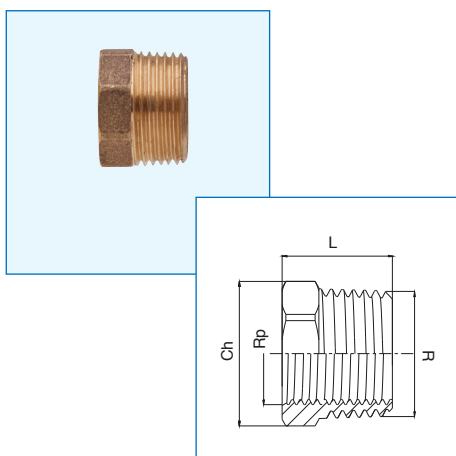
RxR1	BAG	MASTER BOX	CODE	Ch	L
1/4"x1/8"	10	100	OT5521A14A18000	14	22
3/8"x1/4"	10	300	OT5521A38A14000	18	25
1/2"x1/4"	10	200	OT5521A12A14000	19	25
1/2"x3/8"	10	300	OT5521A12A38000	21	25,5
3/4"x1/2"	10	150	OT5521A34A12000	27	31
1"x1/2"	10	100	OT5521B01A12000	34	32,5
1"x3/4"	10	100	OT5521B01A34000	34	34
1 1/4x3/4"	5	50	OT5521B14A34000	42	41
1 1/4x1"	5	50	OT5521B14B01000	42	43
1 1/2x3/4"	5	50	OT5521B12A34000	48	43
1 1/2x1"	5	50	OT5521B12B01000	48	45
1 1/2x1 1/4"	5	40	OT5521B12B14000	48	47
2"x1"	5	30	OT5521C02B01000	60	50
2"x1 1/4"	5	30	OT5521C02B14000	60	52
2"x1 1/2"	5	25	OT5521C02B12000	60	53
2 1/2x2"	1	10	OT5521C12C02000	78	60
3"x2"	1	5	OT5521D03C02000	90	62
3"x2 1/2"	1	10	OT5521D03C12000	90	64








Art. OT5505

-  Male thread plug.
-  Messing Stopfen mit A Gewinde.
-  Bouchon filetage mâle.
-  Tapón rosca macho.
-  Заглушка H(R).

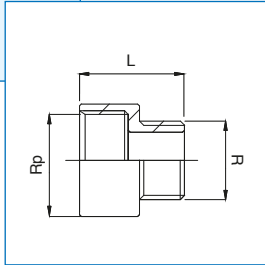
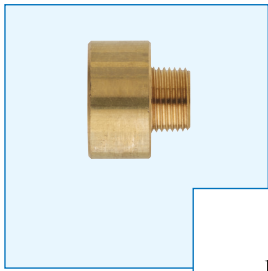
R	BAG	MASTER BOX	CODE	Ch	L
1/4"	10	300	OT5505A14000000	22	14
3/8"	10	500	OT5505A38000000	19	14
1/2"	10	300	OT5505A12000000	24	14
3/4"	10	250	OT5505A34000000	30	16
1"	10	150	OT5505B01000000	37	17
1 1/4"	10	100	OT5505B14000000	46	19,5
1 1/2"	5	70	OT5505B12000000	52	22
2"	5	30	OT5505C02000000	65	27
2 1/2"	5	20	OT5505C12000000	76	35
3"	1	15	OT5505D03000000	85	55








Art. OT5515

-  Female/male thread reducer.
-  Sechskante St. reduziert mit Axl Gewinde.
-  Réduction filetage femelle/mâle.
-  Reducción rosca hembra/macho.
-  Штуцер B(Rp)-H(R).

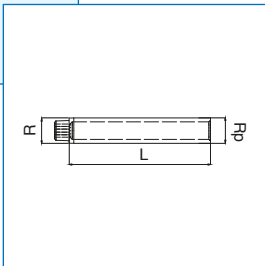
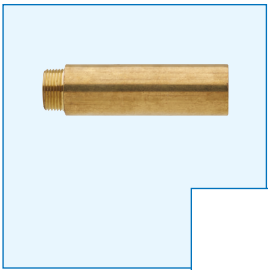
RpxR	BAG	MASTER BOX	CODE	Ch	L min
1/8"x1/4"	10	600	OT5515A14A18000	14	14
1/8"x3/8"	10	100	OT5515A38A18000	17	16
1/8"x1/2"	25	100	OT5515A12A18000	21	18
1/4"x3/8"	10	500	OT5515A38A14000	17	16
1/4"x1/2"	10	400	OT5515A12A14000	21	18
1/4"x3/4"	10	200	OT5515A34A14000	27	21
3/8"x1/2"	10	400	OT5515A12A38000	21	18
3/8"x3/4"	10	200	OT5515A34A38000	27	21
3/8"x1"	10	100	OT5515B01A38000	34	25
1/2"x3/4"	10	250	OT5515A34A12000	27	20
1/2"x1"1/4"	10	60	OT5515B14A12000	34	23
1/2"x1"1/2"	10	50	OT5515B12A12000	48	30
1/2"x2"	5	30	OT5515C02A12000	60	37
3/4"x1"	10	150	OT5515B01A34000	34	25
3/4"x1"1/4"	5	70	OT5515B14A34000	42	28
3/4"x1"1/2"	5	50	OT5515B12A34000	48	30
3/4"x2"	5	30	OT5515C02A34000	60	37
1"x1/2"	10	150	OT5515A12B01000	34	18
1"x1"1/4"	5	80	OT5515B14B01000	42	28
1"x1"1/2"	5	60	OT5515B12B01000	48	30
1"x2"	5	30	OT5515C02B01000	60	37
1 1/4"x1"1/2"	5	70	OT5515B12B14000	48	30
1 1/4"x2"	5	30	OT5515C02B14000	60	37
1 1/2"x2"	5	40	OT5515C02B12000	60	37
2"x3"	1	10	OT5515D03C02000	95	52
2 1/2"x2"	5	20	OT5515C02C12000	76	41
2 1/2"x3"	1	10	OT5515D03C12000	95	62








Art. OT5525

-  Female/male thread reducer.
-  Reduziertstück mit Axl Gewinde.
-  Réduction filetage femelle/mâle.
-  Reducción rosca hembra/macho.
-  Муфта редукционная В(Rp)-H(R).

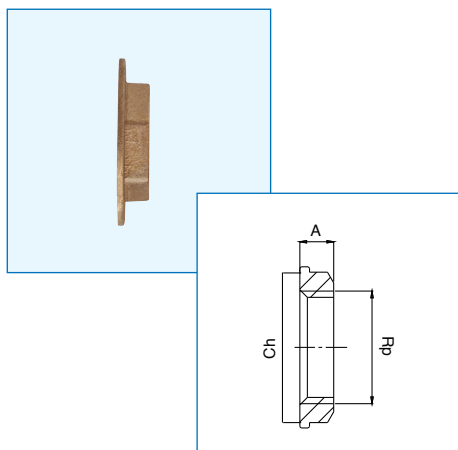
Rp x R	BAG	MASTER BOX	CODE	L
3/8"x1/4"	10	400	OT5525A38A14000	23
1/2"x3/8"	10	250	OT5525A12A38000	24
3/4"x3/8"	10	250	OT5525A34A38000	28
3/4"x1/2"	10	200	OT5525A34A12000	28
1"x1/2"	10	100	OT5525B01A12000	30
1"x3/4"	10	100	OT5525B01A34000	31
1"x1/4x1"	5	60	OT5525B14B01000	35
1"x1/2x1"x1/4"	10	70	OT5525B12B14000	44
2"x1"x1/2"	6	100	OT5525B12C02000	55








Art. OT5530

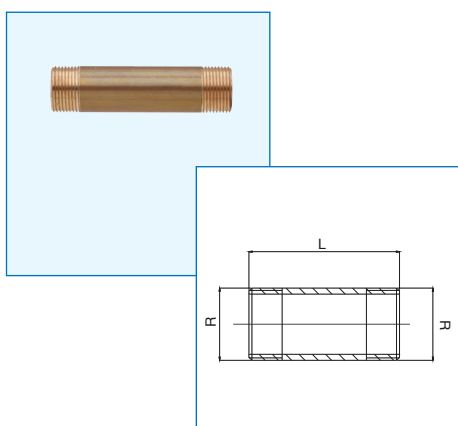
-  Female/male thread extension.
-  Hahnverlängerung mit Axl Gewinde.
-  Allonge filetage femelle/mâle.
-  Alargador rosca hembra/macho.
-  Удлинитель В(Rp)-H(R).






Rp/RxL	BAG	MASTER BOX	CODE
3/8"x10	10	300	OT5530A38010000
3/8"x15	10	300	OT5530A38015000
3/8"x20	10	300	OT5530A38020000
3/8"x25	10	200	OT5530A38025000
3/8"x30	10	200	OT5530A38030000
3/8"x40	5	100	OT5530A38040000
3/8"x50	5	100	OT5530A38050000
1/2"x10	10	250	OT5530A12010000
1/2"x15	10	250	OT5530A12015000
1/2"x20	10	150	OT5530A12020000
1/2"x25	10	150	OT5530A12025000
1/2"x30	10	100	OT5530A12030000
1/2"x40	5	100	OT5530A12040000
1/2"x50	5	80	OT5530A12050000
1/2"x60	5	80	OT5530A12060000
1/2"x70	5	70	OT5530A12070000
1/2"x80	5	60	OT5530A12080000
1/2"x100	5	50	OT5530A12100000
3/4"x10	10	200	OT5530A34010000
3/4"x15	10	100	OT5530A34015000
3/4"x20	10	150	OT5530A34020000
3/4"x25	5	100	OT5530A34025000
3/4"x30	10	100	OT5530A34030000
3/4"x40	5	80	OT5530A34040000
3/4"x50	5	60	OT5530A34050000
3/4"x60	5	60	OT5530A34060000
3/4"x70	5	50	OT5530A34070000
3/4"x80	5	50	OT5530A34080000
3/4"x100	5	30	OT5530A34100000
1"x10	10	100	OT5530B01010000
1"x15	10	100	OT5530B01015000
1"x20	5	80	OT5530B01020000
1"x25	5	50	OT5530B01025000
1"x30	5	50	OT5530B01030000
1"x40	5	40	OT5530B01040000
1"x50	5	40	OT5530B01050000

Art. **OT5518**

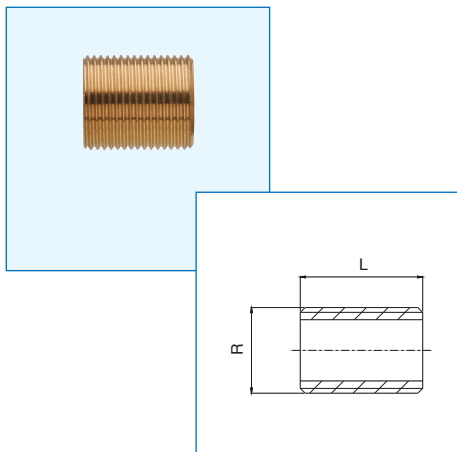
-  Flanged locknut.
-  Gegenmutter.
-  Contre-écrou filetage femelle/femelle.
-  Contratuerca rosca hembra/hembra.
-  Контргайка В(Rp)-В(Rp).

Rp	BAG	MASTER BOX	CODE	A	Ch
3/8"	10	300	OT5518A38000000	7	22
1/2"	10	300	OT5518A12000000	8	25
3/4"	10	300	OT5518A34000000	9	30
1"	10	200	OT5518B01000000	9	35,5
1"1/4	5	100	OT5518B14000000	9	45
1"1/2	10	200	OT5518B12000000	9,5	52

Art. **OT5531**

-  ISO 228/1 male thread extension.
-  Verlängerung mit A Gewinde.
-  Allonge filetage mâle/mâle ISO 228/1.
-  Alargador rosca macho ISO 228/1.
-  Бочонок Н(R)-Н(R).

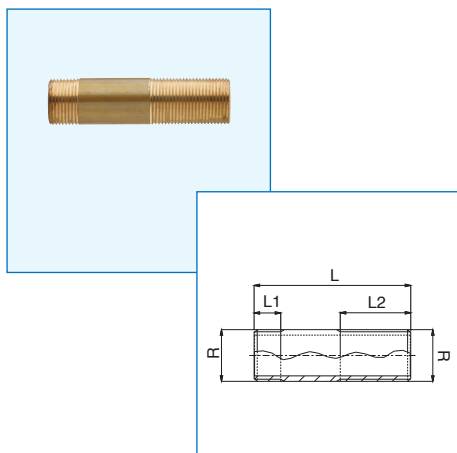
RxL	BAG	MASTER BOX	CODE
1/2"x40	5	150	OT5531A12040000
1/2"x60	5	150	OT5531A12060000
1/2"x80	5	100	OT5531A12080000
1/2"x100	5	80	OT5531A12100000
1/2"x120	5	80	OT5531A12120000
1/2"x150	5	70	OT5531A12150000
1/2"x160	10	50	OT5531A12160000
1/2"x180	10	50	OT5531A12180000
1/2"x200	5	40	OT5531A12200000
1/2"x250	5	25	OT5531A12250000
1/2"x300	5	20	OT5531A12300000
3/4"x40	10	100	OT5531A34040000
3/4"x60	5	80	OT5531A34060000
3/4"x80	5	80	OT5531A34080000
3/4"x100	5	50	OT5531A34100000
3/4"x120	5	60	OT5531A34120000
3/4"x150	5	50	OT5531A34150000
3/4"x180	5	20	OT5531A34180000
3/4"x200	5	30	OT5531A34200000
3/4"x250	5	25	OT5531A34250000
3/4"x300	5	30	OT5531A34300000
1"x40	10	100	OT5531B01040000
1"x60	5	50	OT5531B01060000
1"x80	5	50	OT5531B01080000
1"x100	5	40	OT5531B01100000
1"x120	5	40	OT5531B01120000
1"x150	5	30	OT5531B01150000
1"x200	5	20	OT5531B01200000
1"1/4x60	5	30	OT5531B14060000
1"1/4x80	5	30	OT5531B14080000
1"1/4x100	5	30	OT5531B14100000
1"1/4x120	5	25	OT5531B14120000
1"1/4x150	10	20	OT5531B14150000
1"1/4x200	5	10	OT5531B14200000
1"1/2x60	5	25	OT5531B12060000
1"1/2x80	5	30	OT5531B12080000
1"1/2x100	5	30	OT5531B12100000
1"1/2x120	1	25	OT5531B12120000
1"1/2x150	10	15	OT5531B12150000
1"1/2x200	5	10	OT5531B12200000








Art. OT5519

-  Male thread screw.
-  Nippel mit A Gewinde.
-  Vis filetage mâle.
-  Tornillo rosca macho.
-  Винт Н(Н).

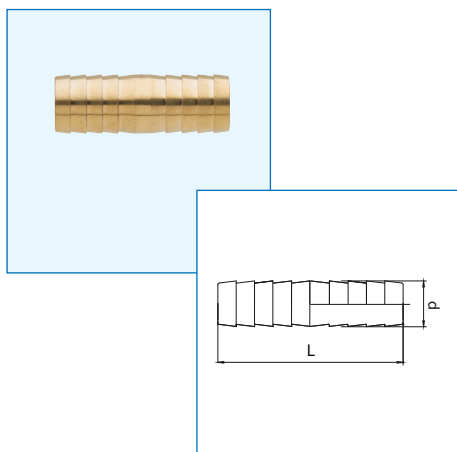
RxL	BAG	MASTER BOX	CODE
3/8"x30	10	300	OT5519A38000000
1/2"x30	10	200	OT5519A12000000
3/4"x30	10	200	OT5519A34000000
1"x35	10	100	OT5519B01000000
1"1/4x40	5	50	OT5519B14000000
1"1/2x45	5	50	OT5519B12000000
2"x50	1	25	OT5519C02000000




Art. OT5532

-  Male thread sliding fitting.
-  Schiebefitting mit A Gewinde.
-  Raccord coulissant filetage mâle/mâle.
-  Alargador asimétrico rosca macho/macho.
-  Бочонок ассиметричный Н(Н)-Н(Н).

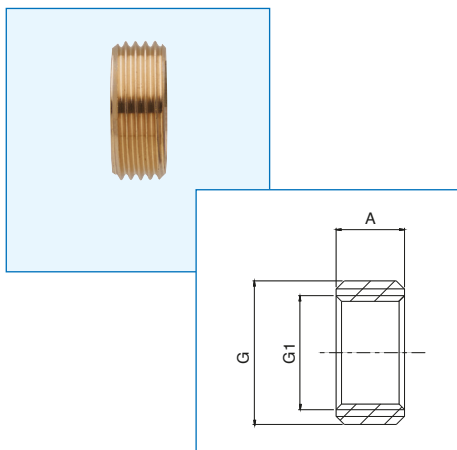
RxL	BAG	MASTER BOX	CODE	L1	L2
1/2"x100	5	80	OT5532A12100000	13	45
1/2"x150	5	60	OT5532A12150000	13	90
1/2"x200	5	50	OT5532A12200000	13	130
3/4"x100	5	70	OT5532A34100000	15	45
3/4"x150	5	50	OT5532A34150000	15	90
3/4"x200	5	30	OT5532A34200000	15	130
1"x100	5	30	OT5532B01100000	17	45
1"x150	5	25	OT5532B01150000	17	90
1"x200	5	20	OT5532B01200000	17	130








Art. OT5536

-  Hose connector.
-  Gummi-Halter doppel gelb.
-  Raccord porte-tuyau.
-  Porta-goma.
-  Штуцер.

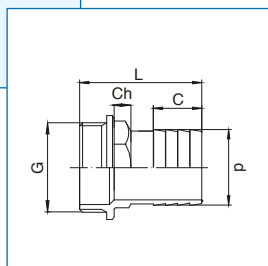
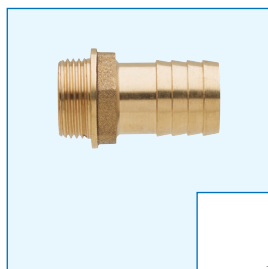
d	BAG	MASTER BOX	CODE	L
1/2"	10	300	OT5536A12000000	54
3/4"	5	50	OT5536A34000000	64
1"	10	50	OT5536B01000000	82








Art. OT5517

-  ISO 228/1 female thread nut.
-  Nutmuffer mit AxI Gewinde.
-  Bague filetage femelle ISO 228/1.
-  Tuerca de unión rosca hembra ISO 228/1.
-  Зажимное кольцо В ISO 228/1.

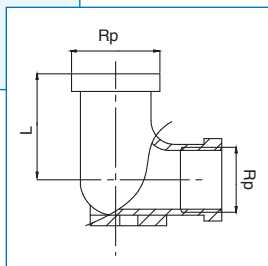
GxG1	BAG	MASTER BOX	CODE	A
3/8"x1/4"	10	200	OT5517A38A14000	10
1/2"x3/8"	10	500	OT5517A12A38000	10
3/4"x1/2"	10	500	OT5517A34A12000	10
1"x3/4"	10	150	OT5517B01A34000	13








Art. OT5537

-  Fitting for rubber hose Roma type.
-  Verschraubung für Gummischlauch Roma Typ.
-  Raccord porte-tuyau en caoutchouc, type Roma.
-  Racór portagoma tipo Roma.
-  Штуцер для шланга с наружной резьбой.

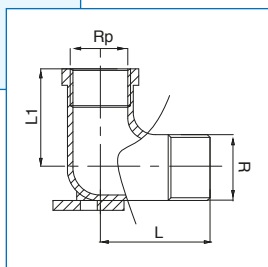
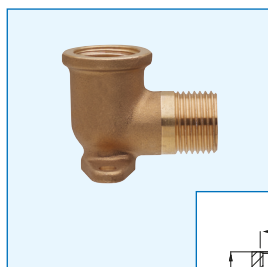
Gxd	BAG	MASTER BOX	CODE	C	Ch	L
1/2"x10	10	200	OT5537A12010000	27,5	21	41,5
1/2"x12	10	300	OT5537A12012000	25,7	16	41,5
1/2"x14	10	300	OT5537A12014000	27,5	21	41,5
1/2"x16	10	250	OT5537A12016000	27	21	41,5
1/2"x18	10	250	OT5537A12018000	27	21	41,5
1/2"x20	10	100	OT5537A12020000	27	21	41,5
3/4"x20	10	100	OT5537A34020000	39	22	49
3/4"x25	10	100	OT5537A34025000	32,5	28	50,5
1"x25	10	100	OT5537B01025000	32	30	51,5
1"x30	10	100	OT5537B01030000	32	32	52,5








Art. OT5472

-  Female thread 90° elbow with wallplate.
-  Winkel mit I Gewinde.
-  Applique coude filetage femelle/femelle.
-  Codo rosca hembra/hembra con brida.
-  Угол с фланцем В(Rp)-В(Rp).

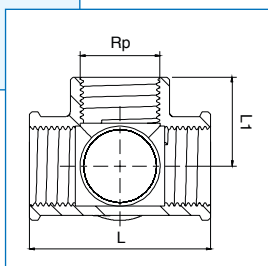
Rp	BAG	MASTER BOX	CODE	L
1/2"	10	100	OT5472A12A12000	38








Art. OT5473

-  Male/female thread elbow with wallplate.
-  Winkel mit AxI Gewinde.
-  Applique coude filetage mâle/femelle.
-  Codo rosca hembra/macho con brida.
-  Угол с фланцем H(R)-B(Rp).

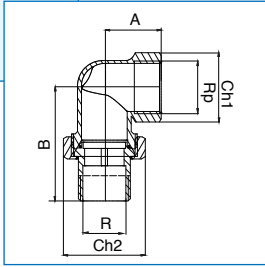
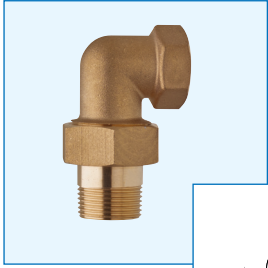
RpxR	BAG	MASTER BOX	CODE	L	L1
1/2"	10	50	OT5473A12A12000	35	25








Art. OT5544

-  4-way distribution fitting.
-  4-Wege Verteilungsfitting.
-  Raccord de distribution à 4 voies.
-  Conexión a 4 vías.
-  Фитинг распределительный 4х-ходовой.

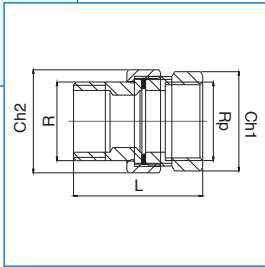
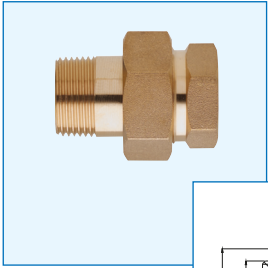
Rp	BAG	MASTER BOX	CODE	L	L1
1/2"	1	15	OT5544A12A12A12	54	27
3/4"	1	15	OT5544A34A34A34	65	34,1








Art. OT5098

-  Female/male thread 3-piece elbow + gasket.
-  Winkel dreiteilig mit AxI Gewinde.
-  Coude union 3 pièces filetage mâle/femelle + joint.
-  Codo 3 piezas rosca macho/hembra + junta.
-  Угол трехсоставной с кольцевой прокладкой H(R)-B(Rp).

RxRp	BAG	MASTER BOX	CODE	A	B	Ch1	Ch2
3/8"	10	100	OT5098A38A38000	23	46	21	27
1/2"	10	80	OT5098A12A12000	25	53	26	30
3/4"	5	50	OT5098A34A34000	26	60	31	37
1"	5	25	OT5098B01B01000	33	68	37	46
1"1/4	1	15	OT5098B14B14000	40	80	48	52
1"1/2	1	10	OT5098B12B12000	40	93	55	64
2"	1	5	OT5098C02C02000	55	105	70	82



Art. OT5341

-  Female/male thread flat seat joint + gasket.
-  Rohrverschraubung konischdichtend mit AxI Gewinde.
-  Union 3 pièces filetage mâle/femelle + joint.
-  Unión recta rosca macho/hembra + junta.
-  Муфта прямая с кольцевой прокладкой H(R)-B(Rp).

R/Rp	BAG	MASTER BOX	CODE	Ch1	Ch2	L
3/8"	10	100	OT5341A38A38000	24	27	44
1/2"	10	100	OT5341A12A12000	27	30	47,5
3/4"	5	50	OT5341A34A34000	34	37	53,5
1"	5	50	OT5341B01B01000	42	46	61,5
1"1/4	5	20	OT5341B14B14000	50	52	69,5
1"1/2	1	15	OT5341B12B12000	56	64	88
2"	1	8	OT5341C02C02000	70	82	96

CHROMED BRASS THREADED FITTINGS VERCHROMTE GEWINDEFITTINGS AUS MESSING RACCORDS FILETES EN LAITON CHROMES RACORES ROSCADOS DE LATÓN CROMADOS РЕЗЬБОВЫЕ СОЕДИНЕНИЯ ИЗ ХРОМИРОВАННОЙ ЛАТУНИ



1. Introduction

Threaded fittings of 5000OT CROMO series are made of high-quality brass with a chromed surface in a dimensional range between 1/4" and 2". The used brass is CW617N and this alloy has a low lead content according to EN 12164-12165. Threads comply with EN 10226-1 standards. Fittings are chromed on the surface with a specific galvanic treatment in compliance with European standards. 5000OT CROMO series is suitable in civil visible installations which require high aesthetic performances.

1. Einführung

Die Gewindefittings der Serie 5000OT CROMO bestehen aus hochwertigem Messing mit Oberflächenverchromung im Abmessungsbereich von 1/4" bis 2".

Die verwendete Legierung ist Bleiarm gemäß der UNI EN 12164-12165 Norm. Das Gewinde entspricht der Norm EN 10226-1.

Die Fittings werden mittels einer fortschrittlichen galvanischen Behandlung gemäß den aktuellen europäischen Normen verchromt. Die Fittings der Serie 5000OT CROMO können dort eingesetzt werden, wo bei freiliegenden zivilen Installationen eine hervorragende ästhetische Darstellung erforderlich ist.

1. Présentation

Les raccords filetés de la série 5000OT CROMO sont réalisés en laiton de haute qualité avec un chromage superficiel dans la gamme dimensionnelle entre 1/4" et 2".

L'alliage utilisé est à faible teneur en plomb selon la norme EN 12164-12165. Le filetage est conforme à la norme EN 10226-1.

Les raccords sont chromés à épaisseur grâce à un traitement galvanique effectué selon les normes Européennes. Ils sont utilisables dans le secteur des installations civiles à vue, où un rendu esthétique optimal est nécessaire.

1. Presentación

Los racores roscados de la serie 5000OT CROMO son de latón de alta calidad con cromado superficial en la gama dimensional desde 1/4" hasta 2".

La aleación utilizada es con bajo contenido de plomo según la norma UNI EN 12164-12165. Las roscas cumplen la norma EN 10226-1.

Los racores se croman con un tratamiento galvánico según las normas europeas. Los racores de la serie 5000OT CROMO se pueden utilizar donde se necesita un óptimo rendimiento estético en el ámbito de instalaciones civiles a la vista.

1. Описание

Резьбовые соединения серии 5000OT CROMO произведены полностью из латуни высокого качества с хромированием поверхности, размерный ряд от 1/4" до 2".

Для производства используется латунный сплав с низким содержанием свинца, в соответствии с UNI EN 12164-12165.

Резьба соответствует нормативу EN 10226-1. Хромирование фитингов происходит путем гальванической обработки, соответствующей современным европейским стандартам. Фитинги серии 5000OT CROMO могут использоваться для открытой прокладки инженерных систем на гражданских объектах в случае повышенных требований к внешнему виду.

2. Advantages

- High aesthetic performances.
- CW617N brass in compliance with EN 12165 standard.
- High temperature resistance.
- Corrosion resistance.
- R/Rp cone-shaped threaded fittings, compliant with EN 10226/ISO 7 standard.

2. Vorteile

- Hervorragendes ästhetische Darstellung.
- Messinglegierung CW617N gemäß Norm EN 12165.

- Ausgezeichnete Beständigkeit gegen hohe Temperaturen.
- Ausgezeichnete Korrosionsbeständigkeit.
- Konische Gewindekupplung R/Rp gemäß Norm EN 10226/ISO 7.

2. Avantages

- Rendu esthétique optimal.
- Alliage en laiton CW617N conforme à la norme EN 12165.
- Résistance optimale aux hautes températures.
- Grande résistance à la corrosion.
- Accouplement fileté conique R/Rp conformément à la norme EN 10226/ISO 7 (sauf dans des cas spécifiques).

2. Ventajas

- Óptimo rendimiento estético.
- Aleación de latón CW617N según la norma EN 12165.
- Máxima resistencia a las temperaturas elevadas.
- Óptima resistencia a la corrosión.
- Apareamiento roscado cónico R/Rp según la norma EN 10226/ISO 7.

2. Преимущества

- Превосходные эстетические характеристики.
- Латунный сплав CW617N в соответствии с нормативом EN 12165.
- Высокая устойчивость к повышенным температурам.
- Высокая антикоррозийная устойчивость.
- Коническая резьба R/Rp в соответствии со стандартом EN 10226/ISO 7.

3. Applications

5000OT CROMO is suitable for heating and cooling installations and for drinking water systems.

3. Anwendungsbereiche

Die 5000OT CROMO Serie eignet sich für den Bau von Heiz- und Kühlsystemen sowie Trinkwassersysteme.

3. Champs d'emploi

La série 5000OT CROMO est idéale pour la réalisation d'installations de chauffage et de refroidissement et elle est adaptée au transport de l'eau potable.

3. Aplicaciones

La serie 5000OT CROMO es ideal para realizar instalaciones de calefacción y de refrigeración y es apto al contacto con agua potable.

3. Области применения

Серия 5000OT CROMO идеально подходит для систем отопления, а так же для систем транспортировки питьевой воды.



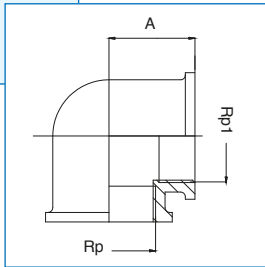
DRINKING
WATER








HEATING



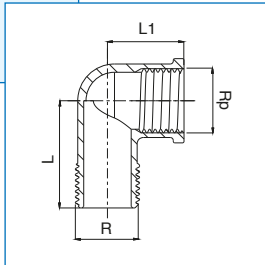
HVAC




Art. KR5090

-  Female thread elbow.
-  Bogen mit I Gewinde.
-  Coude filetage femelle/femelle.
-  Codo rosca hembra/hembra.
-  Угол B(Rp)-B(Rp).

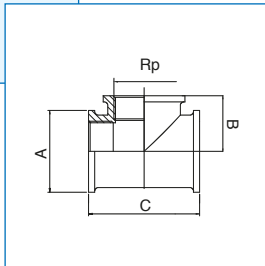
Rp/Rp1	BAG	MASTER BOX	CODE	A
3/8"	10	150	KR5090A38A38000	21
1/2"	10	100	KR5090A12A12000	25
3/4"	10	70	KR5090A34A34000	27
1"	5	40	KR5090B01B01000	21
1 1/2"	5	15	KR5090B12B12000	45



Art. KR5092

-  Female/male thread elbow.
-  Bogen mit RpxR Gewinde.
-  Coude filetage femelle/mâle.
-  Codo rosca hembra/macho.
-  Угол B(Rp)-H(R).

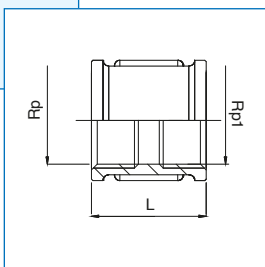
Rp/R	BAG	MASTER BOX	CODE	L	L1
3/8"	10	150	KR5092A38A38000	29	21
1/2"	10	100	KR5092A12A12000	35	25
3/4"	10	70	KR5092A34A34000	40	27
1"	5	40	KR5092B01B01000	48	32








Art. KR5005

-  Female thread tee.
-  T-Stück mit I Gewinde.
-  Té filetage femelle.
-  T rosca hembra.
-  Тройник B(Rp).

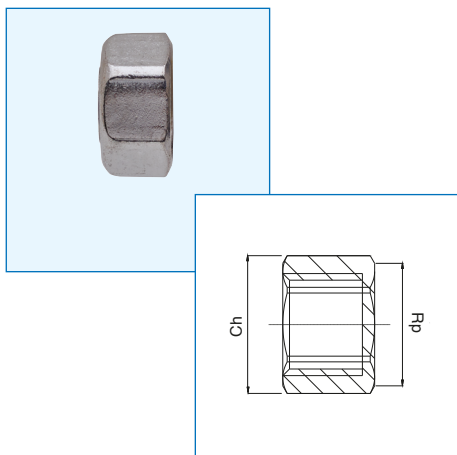
Rp	BAG	MASTER BOX	CODE	A	B	C
3/8"	10	100	KR5005A38A38A38	23	21	42
1/2"	5	100	KR5005A12A12A12	28	25	50
3/4"	10	50	KR5005A34A34A34	35	27	54
1"	5	30	KR5005B01B01B01	42	31	62



Art. KR5270

-  Female thread coupling.
-  Muffe mit I Gewinde.
-  Manchon filetage femelle/femelle.
-  Manguito rosca hembra/hembra.
-  Муфта B(Rp)-B(Rp).

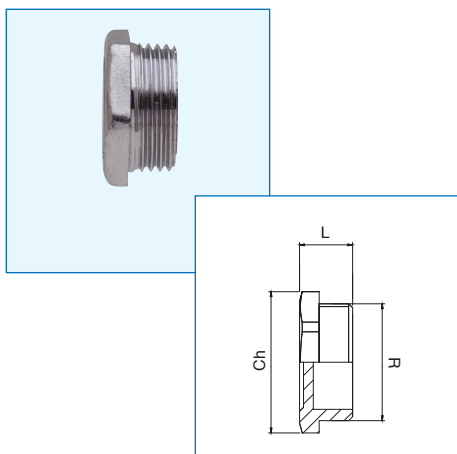
Rp/Rp1	BAG	MASTER BOX	CODE	L
3/8"	10	300	KR5270A38A38000	25
1/2"	10	150	KR5270A12A12000	35
3/4"	10	100	KR5270A34A34000	37
1"	10	50	KR5270B01B01000	49








Art. KR5301

-  Female thread plug.
-  Kappe mit I Gewinde.
-  Bouchon filetage femelle.
-  Tapón rosca hembra.
-  Заглушка В(Rp).

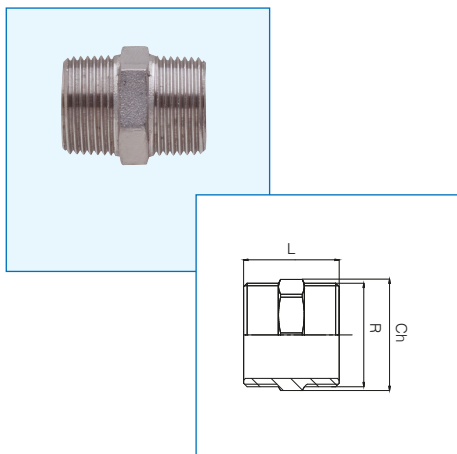
Rp	BAG	MASTER BOX	CODE	Ch
3/8"	10	300	KR5301A38000000	20
1/2"	10	300	KR5301A120000000	24
3/4"	10	200	KR5301A34000000	30
1"	10	150	KR5301B010000000	37
2"	5	50	KR5301C020000000	64








Art. KR5505

-  Male thread plug.
-  Messing Stopfen mit A Gewinde.
-  Bouchon filetage mâle.
-  Tapón rosca macho.
-  Заглушка H(R).

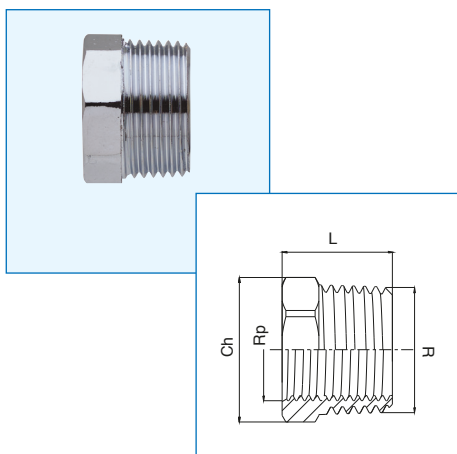
R	BAG	MASTER BOX	CODE	Ch	L
3/8"	10	500	KR5505A380000000	19	14
1/2"	10	400	KR5505A120000000	24	14
3/4"	10	250	KR5505A340000000	30	16
1"	10	150	KR5505B010000000	37	17








Art. KR5520

-  Male thread coupling.
-  Messing Nippel mit A Gewinde.
-  Manchon filetage mâle/mâle.
-  Manguito rosca macho/macho.
-  Муфта H(R)-H(R).

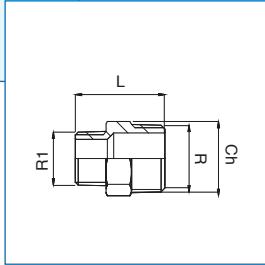
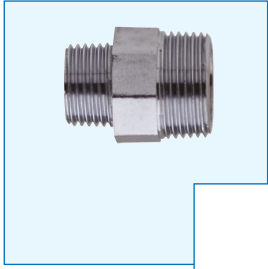
R	BAG	MASTER BOX	CODE	Ch	L
3/8"	10	400	KR5520A38A380000	17	26
1/2"	10	250	KR5520A12A120000	21	28
3/4"	10	150	KR5520A34A340000	27	31
1"	10	100	KR5520B01B010000	34	40








Art. KR5515

-  Female/male thread reducer.
-  Sechskante St. reduziert mit AxI Gewinde.
-  Réduction filetage femelle/mâle.
-  Reducción rosca hembra/macho.
-  Штуцер В(Rp)-H(R).

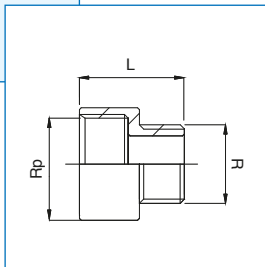
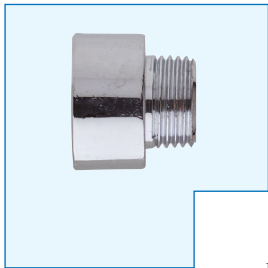
RpxR	BAG	MASTER BOX	CODE	Ch	L
1/4"x3/8"	10	500	KR5515A38A140000	17	16
3/8"x1/2"	10	400	KR5515A12A380000	21	18
3/8"x3/4"	10	200	KR5515A34A380000	27	21
1/2"x3/4"	10	200	KR5515A34A120000	27	20
1/2"x1"	10	150	KR5515B01A120000	-	25
3/4"x1"	10	150	KR5515B01A340000	34	25
1"x1"1/4"	5	80	KR5515B14B010000	42	28








Art. KR5521

-  Male thread reducing nipple.
-  Nippel reduziert mit A Gewinde.
-  Manchon réduit filetage mâle/mâle.
-  Reducción rosca macho/macho.
-  Ниппель Н(Р)-Н(Р).

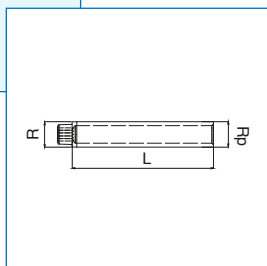
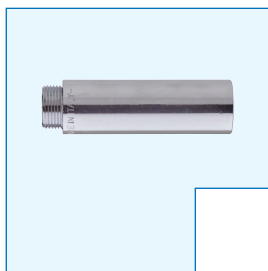
RxR1	BAG	MASTER BOX	CODE	Ch	L
1/2"x3/8"	10	300	KR5521A12A38000	21	25,5
3/4"x1/2"	10	150	KR5521A34A12000	27	31
1"x1/2"	10	150	KR5521B01A12000	34	32,5
1"x3/4"	10	100	KR5521B01A34000	34	34








Art. KR5525

-  Male/female thread reducer.
-  Reduziertstück mit AxI Gewinde.
-  Réduction filetage mâle/femelle.
-  Reducción rosca macho/hembra.
-  Муфта редукционная Н(Р)-В(Rp).

RpxR	BAG	MASTER BOX	CODE	L
1/2"x3/8"	10	300	KR5525A12A38000	24
1/2"x1"	10	100	KR5525A12B01000	30
3/4"x1/2"	10	200	KR5525A34A12000	28
1"x3/4"	10	100	KR5525B01A34000	31
1"1/4x1"	5	60	KR5525B14B01000	35



Art. KR5530

-  Female/male thread extension.
-  Hahnverlängerung mit Axl Gewinde.
-  Allonge filetage femelle/mâle.
-  Alargador rosca hembra/macho.
-  Удлинитель В(Rp)-Н(R).

Rp/RxL	BAG	MASTER BOX	CODE
3/8"x10	10	300	KR5530A38010000
3/8"x15	10	300	KR5530A38015000
3/8"x20	10	200	KR5530A38020000
3/8"x25	10	200	KR5530A38025000
3/8"x30	10	200	KR5530A38030000
3/8"x40	10	100	KR5530A38040000
3/8"x50	5	100	KR5530A38050000
1/2"x10	10	250	KR5530A12010000
1/2"x15	10	250	KR5530A12015000
1/2"x20	10	150	KR5530A12020000
1/2"x25	10	150	KR5530A12025000
1/2"x30	10	100	KR5530A12030000
1/2"x40	10	100	KR5530A12040000
1/2"x50	5	80	KR5530A12050000
1/2"x60	5	50	KR5530A12060000
1/2"x70	5	70	KR5530A12070000
1/2"x80	5	60	KR5530A12080000
1/2"x100	5	50	KR5530A12100000
3/4"x10	10	150	KR5530A34010000
3/4"x15	10	100	KR5530A34015000
3/4"x20	10	100	KR5530A34020000
3/4"x25	10	100	KR5530A34025000
3/4"x30	10	100	KR5530A34030000
3/4"x40	5	80	KR5530A34040000
3/4"x50	5	60	KR5530A34050000
3/4"x60	5	60	KR5530A34060000
3/4"x70	5	40	KR5530A34070000
3/4"x80	5	50	KR5530A34080000
3/4"x100	5	30	KR5530A34100000
1"x10	10	150	KR5530B01010000
1"x15	10	100	KR5530B01015000
1"x20	5	100	KR5530B01020000
1"x25	5	50	KR5530B01025000
1"x30	5	50	KR5530B01030000
1"x40	5	40	KR5530B01040000
1"x50	5	30	KR5530B01050000

BRONZE THREADED FITTINGS ROTGUSS GEWINDEFITTINGS RACCORDS FILETES EN BRONZE RACORES ROSCADOS DE BRONZE РЕЗЬБОВЫЕ СОЕДИНЕНИЯ ИЗ БРОНЗЫ



1. Introduction

3000 fittings are made of bronze with low lead content in the dimensional range between 1/4" and 3".

Bronze threads of 3000 range are made in compliance with EN 10226 standard.

The choice of bronze, a notoriously noble material with marked corrosion resistance qualities, is mainly due to its hygienic safety and reliability offered in extremely adverse installation conditions and the complete lack of dezincification, hence guaranteeing excellent durability.

1. Einführung

Die Gewindefittings der Serie 3000 bestehen vollständig aus Bronze mit geringem Bleigehalt im Abmessungsbereich von 1/4" bis 3". Die Bronzegewindefittings der serie 3000 zeichnen sich durch Gewinde gemäß Norm EN 10226 (Dichtheit durch Gewindekopplung). Bronze als Werkstoff ist bekannterweise ein edles Material mit starken Korrosionsbeständigkeitseigenschaften und gibt eine ausgeprägte hygienischen Sicherheit, eine besondere Zuverlässigkeit bei extrem widrigen Installationsbedingungen und Mangel an Entzinkungsphänomenen; Somit ist eine lange Lebensdauer der Installation gewährleistet.

1. Présentation

Les raccords filetés de la série 3000 sont réalisés totalement en bronze à faible teneur en plomb dans la gamme dimensionnelle entre 1/4" et 3".

Les raccords en bronze de la série 3000 se caractérisent par ses filetages conformes à la norme EN 10226 qui permettent des accouplements étanches.

Le choix du bronze, un matériau noble avec des très grandes qualités de résistance à la corrosion, est principalement dû à la protection que ce matériau offre en matière d'hygiène, à sa fiabilité unique dans des conditions d'installation particulièrement difficiles et à l'absence complète de phénomènes de dézincifiassions qui garantit une excellente durée de vie à l'installation.

1. Presentación

Los racores roscados de la serie 3000 se realizan con bronce con bajo contenido de plomo en la gama dimensional desde 1/4" hasta 3". Los racores de bronce de la serie 3000 se caracterizan por roscas según la norma EN 10226 que permite el apareamiento con estanqueidad sobre la rosca.

La elección del bronce, material noble y con óptimas calidades de resistencia a la corrosión se debe principalmente a su seguridad higiénica, su fiabilidad en condiciones de instalación extremadamente adversas y a su resistencia a fenómenos de dezincificación que garantizan una durabilidad excelente del sistema.

1. Описание

Резьбовые соединения серии 3000 произведены из бронзы с низким содержанием свинца, размерный ряд от 1/4" до 3". Бронзовые фитинги имеют резьбу в соответствии с нормативом EN 10226, которая позволяет добиться герметичности резьбового соединения.

Выбор бронзы, благородного металла с его выдающейся антикоррозионной устойчивостью, обусловлен, в основном, его гигиенической безопасностью, особой надежностью в неблагоприятных условиях монтажа и устойчивостью к вымыванию цинка, что гарантирует долгий срок службы оборудования.

2. Advantages

- Bronze alloy with low lead content.
- Durable material perfect for particularly heavy conditions.
- High temperature resistant.
- R/Rp cone-shaped threaded fittings, compliant with EN 10226 standard.

- Suitable for fuel oil and sanitary water installations.
- Suitable for underground installations.
- Absolutely free from stress corrosion cracking.
- No risk of corrosion from dezincification.

2. Vorteile

- Bleiarmer Bronzelegierung.
- Absolut widerstandsfähiges Material, geeignet für extremere chemische und mechanische Leistungen.
- Ausgezeichnete Beständigkeit gegen hohe Temperaturen.
- Konische Gewindekupplung R/Rp gemäß Norm EN 10226.
- Geeignet für alle sanitären Wasser- und Brenngasanlagen.
- Geeignet für Installationen unter der Erde.
- Absolute Abwesenheit von Spannungskorrosionsphänomenen.
- Keine Gefahr der Entzinkungskorrosion.

2. Avantages

- Alliage en bronze à faible teneur en plomb.
- Matériau hautement résistant, adapté aux performances chimiques et mécaniques les plus extrêmes.
- Excellente résistance aux hautes températures.
- Accouplement fileté conique R/Rp conformément à la norme EN 10226.
- Adapté à toutes les installations d'eau sanitaire ou de gaz combustible.
- Adapté aux installations enterrées.
- Absence totale de phénomènes de corrosion sous contrainte.
- Aucun risque de corrosion par dézincifications.

2. Ventajas

- Aleación de bronce con bajo contenido de plomo.
- Material absolutamente resistente, ideal por extremas prestaciones químicas y mecánicas.
- Óptima resistencia a las temperaturas elevadas.
- Apareamiento roscado cónico R/Rp según la norma EN 10226.
- Ideal para las instalaciones de agua sanitaria o de gas combustible.
- Ausencia de fenómenos de tensocorrosión.
- Ningún riesgo de corrosión por dezincificación.

2. Преимущества

- Бронзовый сплав с низким содержанием свинца.
- Прочный материал, пригодный для использования в системах с экстремальными химическими и механическими характеристиками.
- Высокая устойчивость к повышенным температурам.
- Коническая резьба R/Rp в соответствии со стандартом EN 10226.
- Подходят для всех видов систем водоснабжения и горючего газа.
- Подходят для прокладки под землей.
- Полное отсутствие явления растрескивания напряжения.
- Отсутствие риска коррозии из-за вымывания цинка.

3. Applications

Bronze threaded fittings of 3000 series are suitable for drinking water systems, gas, compressed-air, heating and cooling installations and firefighting systems.

3. Anwendungsbereiche

Mit den Bronze-gewinde-fittings der Serie 3000 können Installationen für Trinkwasser, Gas, Druckluft, Heiz- und Kühlsysteme sowie Brandschutzsysteme realisiert werden.

3. Champs d'emploi

Les raccords filetés en bronze de la série 3000 peuvent être utilisés pour la réalisation d'installations d'eau potable, de gaz, d'air comprimé, installations de chauffage et refroidissement et systèmes de protection contre les incendie.

3. Aplicaciones

Los racores roscados de bronce de la serie 3000 se utilizan en la realización de instalaciones de agua potable, de gas, de aire comprimido, sistemas de calefacción y de refrigeración e instalaciones de protección contra incendios.

3. Области применения

Резьбовые соединения серии 3000 применимы для использования в системах распределения питьевой воды, газа, сжатого газа, системах отопления и охлаждения, противопожарных системах.



DRINKING
WATER



HEATING



HVAC



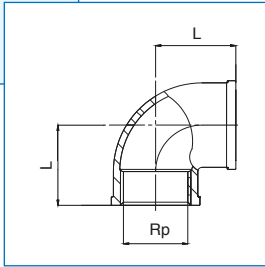
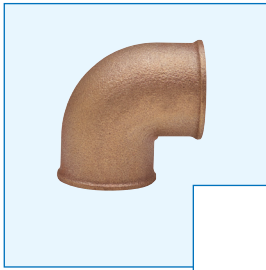
GAS



COMPRESSED
AIR



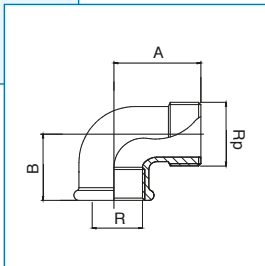
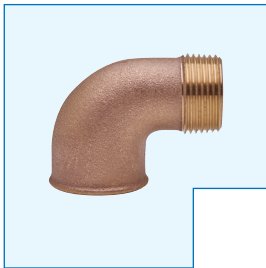
FIREFIGHTING



Art. RB3090

- Female thread 90° elbow.
- Winkel 90° mit I Gewinde.
- Coude 90° filetage femelle/femelle.
- Codo 90° rosca hembra/hembra.
- Угол 90° B(Rp)-B(Rp).

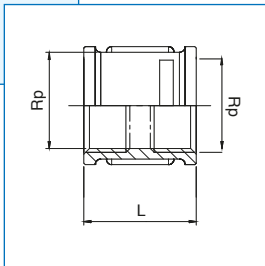
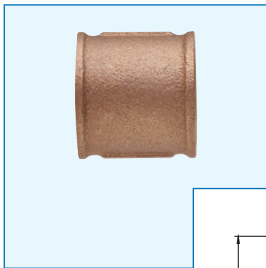
Rp	BAG	MASTER BOX	CODE	L
1/4"	10	150	RB3090A14A14000	20
3/8"	10	250	RB3090A38A38000	20
1/2"	10	100	RB3090A12A12000	23
3/4"	5	50	RB3090A34A34000	30
1"	5	40	RB3090B01B01000	36
1 1/4"	5	25	RB3090B14B14000	45
1 1/2"	5	20	RB3090B12B12000	49
2"	1	10	RB3090C02C02000	57



Art. RB3092

- Female/male thread 90° elbow.
- Winkel 90° mit Axl Gewinde.
- Coude 90° filetage femelle/mâle.
- Codo 90° rosca hembra/macho.
- Угол 90° B(Rp)-H(R).

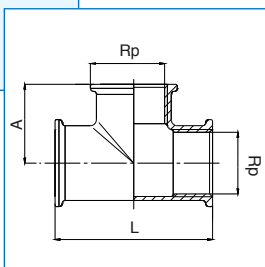
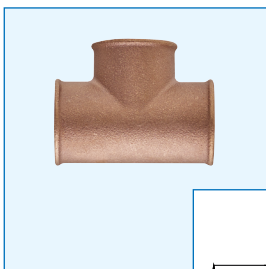
R/Rp	BAG	MASTER BOX	CODE	A	B
1/4"	10	200	RB3092A14A14000	28	20
3/8"	10	100	RB3092A38A38000	31	20
1/2"	10	100	RB3092A12A12000	31	23
3/4"	5	70	RB3092A34A34000	40	30
1"	5	40	RB3092B01B01000	47	36
1 1/4"	5	25	RB3092B14B14000	51	45
1 1/2"	5	20	RB3092B12B12000	46	49
2"	1	10	RB3092C02C02000	50	55



Art. RB3270

- Female thread coupling.
- Muffe mit I Gewinde.
- Manchon filetage femelle/femelle.
- Manguito rosca hembra/hembra.
- Муфта B(Rp)-B(Rp).

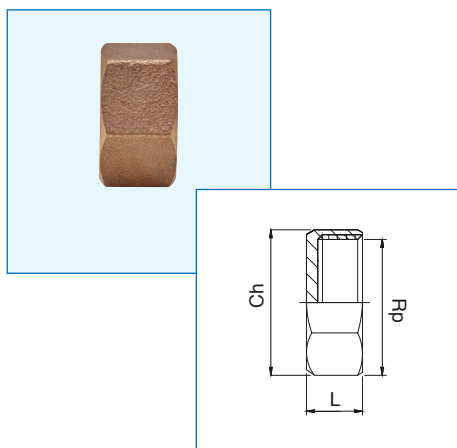
Rp	BAG	MASTER BOX	CODE	L
3/8"	10	250	RB3270A38A38000	26
1/2"	10	150	RB3270A12A12000	28
3/4"	10	100	RB3270A34A34000	31
1"	5	50	RB3270B01B01000	44
1 1/4"	5	40	RB3270B14B14000	42
1 1/2"	5	30	RB3270B12B12000	49
2"	5	20	RB3270C02C02000	58



Art. RB3130

- Female thread tee.
- T-Stück mit I Gewinde.
- Té filetage femelle.
- T rosca hembra.
- Тройник B(Rp).

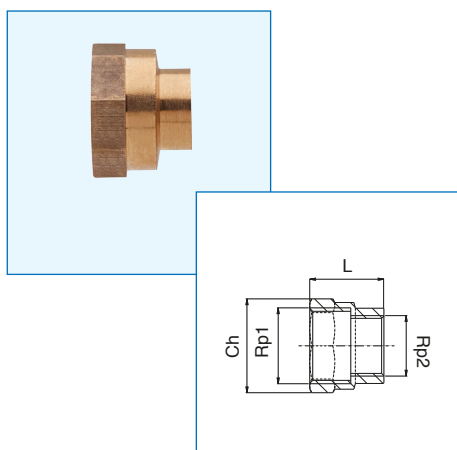
Rp	BAG	MASTER BOX	CODE	A	L
1/4"	10	200	RB3130A14A14A14	20	40
3/8"	10	100	RB3130A38A38A38	20	40
1/2"	10	80	RB3130A12A12A12	23	46
3/4"	5	40	RB3130A34A34A34	30	60
1"	5	25	RB3130B01B01B01	36	72
1 1/4"	5	20	RB3130B14B14B14	45	90
1 1/2"	1	10	RB3130B12B12B12	49	98
2"	1	8	RB3130C02C02C02	57	114








Art. RB3301

-  Female thread plug.
-  Kappe mit I Gewinde.
-  Bouchon filetage femelle.
-  Tapón rosca hembra.
-  Заглушка В(Rp).

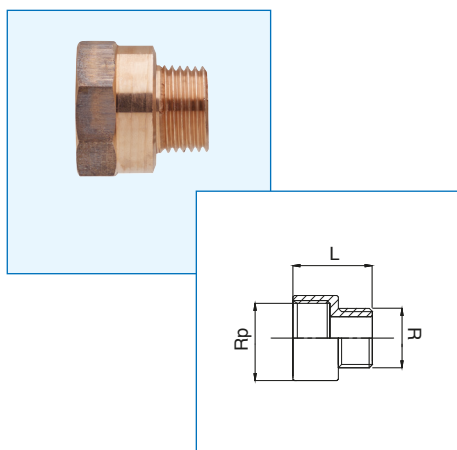
Rp	BAG	MASTER BOX	CODE	Ch	L
3/8"	10	300	RB3301A38000000	21	13
1/2"	10	80	RB3301A12000000	25	16
3/4"	10	80	RB3301A34000000	31	18
1"	10	150	RB3301B01000000	38	21
1"1/4	5	80	RB3301B14000000	48	23
1"1/2	5	80	RB3301B12000000	55	23
2"	5	40	RB3301C02000000	66	24








Art. RB3240

-  Female thread reducer.
-  Sechskante St. reduziert mit I Gewinde.
-  Réduction filetage femelle/femelle.
-  Reducción rosca hembra/hembra.
-  Муфта редукционная В(Rp)-В(Rp).

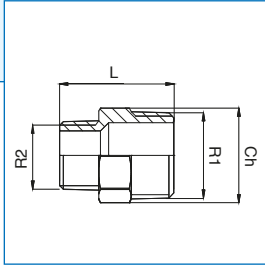
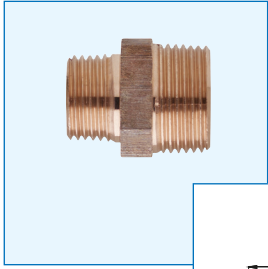
Rp1xRp2	BAG	MASTER BOX	CODE	Ch	L
3/8"x1/4"	10	300	RB3240A38A14000	21	21
1/2"x1/4"	10	200	RB3240A12A14000	25	23
1/2"x3/8"	10	250	RB3240A12A38000	25	23
3/4"x3/8"	10	150	RB3240A34A38000	31	24
3/4"x1/2"	10	150	RB3240A34A12000	31	26
1"x1/2"	10	100	RB3240B01A12000	38	28
1"x3/4"	10	100	RB3240B01A34000	38	29
1"1/4x3/4"	5	40	RB3240B14A34000	48	29
1"1/4x1"	5	50	RB3240B14B01000	48	32
1"1/2x3/4"	5	50	RB3240B12A34000	55	32
1"1/2x1"	5	50	RB3240B12B01000	55	35
1"1/2x1"1/4	5	40	RB3240B12B14000	55	37
2"x1"1/4	1	20	RB3240C02B14000	68	39
2"x1"1/2	1	20	RB3240C02B12000	68	40
2"1/2x2"	1	100	RB3240C12C02000	84	60








Art. RB3242

-  Female/male thread reducer.
-  Sechskante St. reduziert mit I Gewinde.
-  Réduction filetage femelle/mâle.
-  Reducción rosca hembra/macho.
-  Штуцер В(Rp)-Н(R).

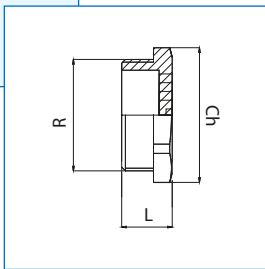
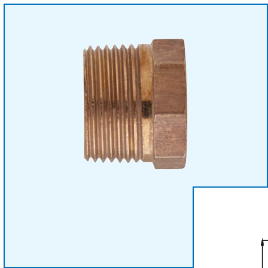
RpxR	BAG	MASTER BOX	CODE	L
3/8"x1/4"	10	200	RB3242A38A14000	23
1/2"x3/8"	10	250	RB3242A12A38000	24
3/4"x3/8"	10	200	RB3242A34A38000	26
3/4"x1/2"	10	150	RB3242A34A12000	28
1"x1/2"	10	100	RB3242B01A12000	30
1"x3/4"	10	100	RB3242B01A34000	31
1"1/4x1"	5	30	RB3242B14B01000	35








Art. **RB3245**

-  Male thread reducer.
-  Nippel reduziert mit A Gewinde.
-  Réduction filetage mâle/mâle.
-  Reducción rosca macho/macho.
-  Муфта редуцирующая Н(Р)-Н(Р).

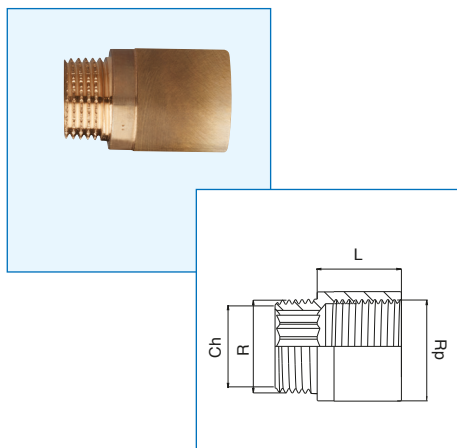
R1xR2	BAG	MASTER BOX	CODE	Ch	L
1/2"x3/8"	10	300	RB3245A12A38000	21	28
3/4"x1/2"	10	150	RB3245A34A12000	27	33
1"x1/2"	10	100	RB3245B01A12000	34	37
1"x3/4"	10	100	RB3245B01A34000	34	38
1"1/4x3/4"	1	40	RB3245B14A34000	42	41
1"1/4x1"	5	40	RB3245B14B01000	42	43
1"1/2x1"	5	40	RB3245B12B01000	48	45
1"1/2x1"1/4	5	40	RB3245B12B14000	48	47
2"x1"1/2	5	20	RB3245C02B12000	60	55








Art. **RB3290**

-  Male thread plug.
-  Messing Stopfen mit A Gewinde.
-  Bouchon filetage mâle.
-  Tapón rosca macho.
-  Заглушка Н(Р).

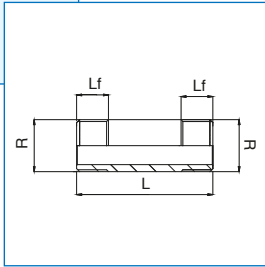
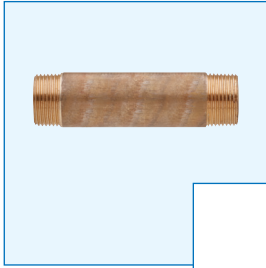
R	BAG	MASTER BOX	CODE	Ch	L
1/4"	10	400	RB3290A14A14000	15	13
3/8"	10	200	RB3290A38A38000	19	14,5
1/2"	10	250	RB3290A12A12000	24	16
3/4"	10	150	RB3290A34A34000	30	18,5
1"	10	30	RB3290B01B01000	37	21
1"1/4	5	60	RB3290B14B14000	46	23,5
1"1/2	5	50	RB3290B12B12000	52	25,5
2"	1	40	RB3290C02C02000	65	26



Art. **RB3525**

-  Male/female thread extension.
-  Verlängerung mit AxI Gewinde.
-  Allonge filetage mâle/femelle.
-  Alargador rosca macho/hembra.
-  Удлинитель Н(Р)-В(Рр).

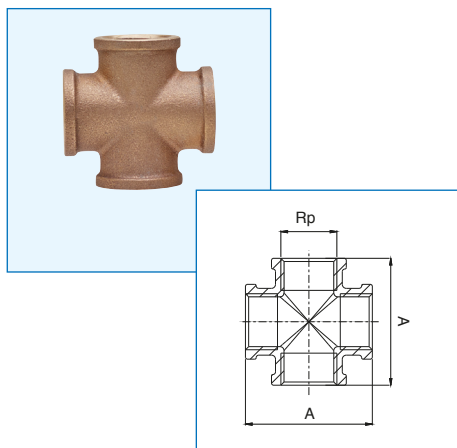
Rp/RxL	BAG	MASTER BOX	CODE	Ch
3/8"x10	5	250	RB3525A38010000	10
3/8"x15	5	250	RB3525A38015000	10
3/8"x20	5	200	RB3525A38020000	10
3/8"x25	5	200	RB3525A38025000	10
3/8"x30	5	150	RB3525A38030000	10
3/8"x40	5	150	RB3525A38040000	10
3/8"x50	5	150	RB3525A38050000	10
3/8"x65	5	100	RB3525A38065000	10
3/8"x80	5	100	RB3525A38080000	10
3/8"x100	5	50	RB3525A38100000	10
1/2"x10	10	150	RB3525A12010000	12
1/2"x12,5	10	150	RB3525A1212M000	12
1/2"x15	10	150	RB3525A12015000	12
1/2"x17,5	10	150	RB3525A1217M000	12
1/2"x20	10	150	RB3525A12020000	12
1/2"x25	10	150	RB3525A12025000	12
1/2"x30	10	100	RB3525A12030000	12
1/2"x35	5	100	RB3525A12035000	12
1/2"x40	10	100	RB3525A12040000	12
1/2"x45	10	100	RB3525A12045000	12
1/2"x50	5	50	RB3525A12050000	12
1/2"x65	5	50	RB3525A12065000	12
1/2"x80	5	50	RB3525A12080000	12
1/2"x100	5	30	RB3525A12100000	12
1/2"x120	5	30	RB3525A12120000	12
1/2"x150	5	30	RB3525A12150000	12
1/2"x180	5	30	RB3525A12180000	12
3/4"x10	10	100	RB3525A34010000	17
3/4"x12,5	10	100	RB3525A3412M000	17
3/4"x15	10	100	RB3525A34015000	17
3/4"x20	10	100	RB3525A34020000	17
3/4"x25	10	100	RB3525A34025000	17
3/4"x30	5	70	RB3525A34030000	17
3/4"x40	5	50	RB3525A34040000	17
3/4"x50	5	40	RB3525A34050000	17
3/4"x65	5	30	RB3525A34065000	17
3/4"x80	5	30	RB3525A34080000	17
3/4"x100	5	30	RB3525A34100000	17
1"x15	5	50	RB3525B01015000	22
1"x20	5	50	RB3525B01020000	22
1"x25	5	50	RB3525B01025000	22
1"x30	5	50	RB3525B01030000	22
1"x40	5	40	RB3525B01040000	22
1"x50	5	40	RB3525B01050000	22
1"x65	5	30	RB3525B01065000	22
1"x80	5	20	RB3525B01080000	22
1"x100	5	20	RB3525B01100000	22
1"1/4x20	10	30	RB3525B14020000	27
1"1/4x25	10	30	RB3525B14025000	27
1"1/4x30	10	30	RB3525B14030000	27
1"1/4x40	10	20	RB3525B14040000	27
1"1/4x50	10	20	RB3525B14050000	27



Art. **RB3530**

- Male thread extension.
- Longnippel mit A Gewinde.
- Allonge filetage mâle/mâle.
- Alargador rosca macho/macho.
- Бочонок Н(Р).

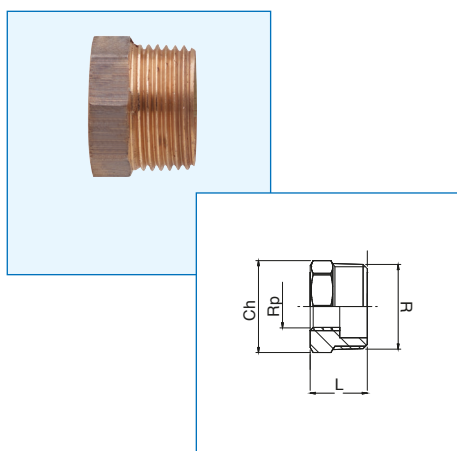
RxL	BAG	MASTER BOX	CODE	Lf
3/8"x120	10	80	RB3530A38120000	13
1/2"x40	10	200	RB3530A12040000	13
1/2"x50	10	150	RB3530A12050000	13
1/2"x60	10	150	RB3530A12060000	13
1/2"x70	10	100	RB3530A12070000	13
1/2"x80	5	100	RB3530A12080000	13
1/2"x90	5	100	RB3530A12090000	13
1/2"x100	5	80	RB3530A12100000	13
1/2"x120	5	80	RB3530A12120000	13
1/2"x140	5	60	RB3530A12140000	13
1/2"x150	5	60	RB3530A12150000	13
1/2"x160	5	50	RB3530A12160000	13
1/2"x180	5	40	RB3530A12180000	13
1/2"x200	5	40	RB3530A12200000	13
3/4"x40	10	100	RB3530A34040000	15
3/4"x50	10	100	RB3530A34050000	15
3/4"x60	10	100	RB3530A34060000	15
3/4"x70	10	100	RB3530A34070000	15
3/4"x80	5	70	RB3530A34080000	15
3/4"x90	5	70	RB3530A34090000	15
3/4"x100	5	50	RB3530A34100000	15
3/4"x120	5	50	RB3530A34120000	15
3/4"x140	5	50	RB3530A34140000	15
3/4"x150	5	40	RB3530A34150000	15
3/4"x160	5	40	RB3530A34160000	15
3/4"x180	5	40	RB3530A34180000	15
3/4"x200	5	30	RB3530A34200000	15
1"x40	5	50	RB3530B01040000	17
1"x50	5	50	RB3530B01050000	17
1"x60	5	50	RB3530B01060000	17
1"x70	5	50	RB3530B01070000	17
1"x80	5	50	RB3530B01080000	17
1"x90	5	50	RB3530B01090000	17
1"x100	5	40	RB3530B01100000	17
1"x120	5	30	RB3530B01120000	17
1"x150	5	20	RB3530B01150000	17
1"x180	5	30	RB3530B01180000	17
1"x200	5	20	RB3530B01200000	17
1"1/4x50	5	50	RB3530B14050000	19
1"1/4x60	5	50	RB3530B14060000	19
1"1/4x70	5	40	RB3530B14070000	19
1"1/4x80	5	40	RB3530B14080000	19
1"1/4x90	5	30	RB3530B14090000	19
1"1/4x100	5	30	RB3530B14100000	19
1"1/4x120	1	30	RB3530B14120000	19
1"1/4x140	1	20	RB3530B14140000	19
1"1/4x150	1	20	RB3530B14150000	19
1"1/4x160	1	20	RB3530B14160000	19
1"1/4x180	5	15	RB3530B14180000	19
1"1/4x200	1	10	RB3530B14200000	19
1"1/2x50	5	30	RB3530B12050000	19
1"1/2x60	5	30	RB3530B12060000	19
1"1/2x80	5	30	RB3530B12080000	19
1"1/2x100	5	20	RB3530B12100000	19
1"1/2x120	5	20	RB3530B12120000	19
1"1/2x150	1	15	RB3530B12150000	19
1"1/2x180	1	15	RB3530B12180000	19
1"1/2x200	1	10	RB3530B12200000	19








Art. RB3516

-  Female thread cross.
-  Kreuzstück mit I Gewinde.
-  Croix filetage femelle.
-  Cruz rosca hembra.
-  Крестовина В(Rp).

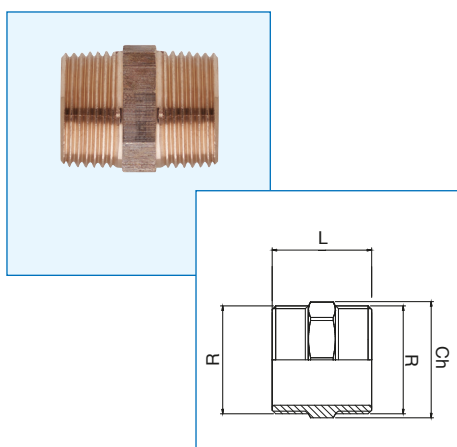
Rp	BAG	MASTER BOX	CODE	A
3/8"	10	100	RB3516A38A38A38	43
1/2"	10	100	RB3516A12A12A12	48








Art. RB3241

-  Male/female thread reducer.
-  Reduzierstück mit AxI Gewinde.
-  Réduction filetage mâle/femelle.
-  Reducción rosca macho/hembra.
-  Муфта редуционная Н(Н)-В(Rp).

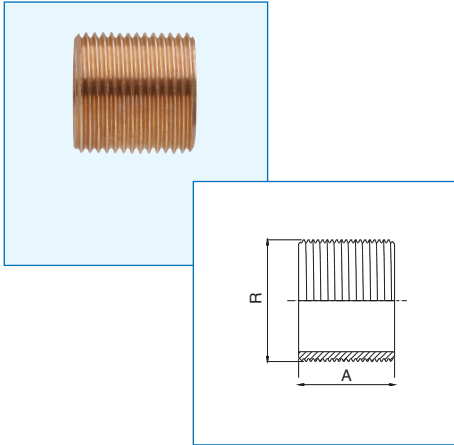
RxRp	BAG	MASTER BOX	CODE	Ch	L
3/8"x1/4"	10	200	RB3241A38A14000	17	16
1/2"x1/4"	10	400	RB3241A12A14000	21	18
1/2"x3/8"	10	400	RB3241A12A38000	21	18
3/4"x3/8"	10	200	RB3241A34A38000	27	21
3/4"x1/2"	10	200	RB3241A34A12000	27	21
1"x3/8"	10	100	RB3241B01A38000	34	25
1"x1/2"	10	150	RB3241B01A12000	34	25
1"x3/4"	10	150	RB3241B01A34000	34	25
1"1/4x3/4"	5	70	RB3241B14A34000	42	28
1"1/4x1"	5	60	RB3241B14B01000	42	28
1"1/2x3/4"	5	50	RB3241B12A34000	48	30
1"1/2x1"	5	50	RB3241B12B01000	48	30
1"1/2x1"1/4"	5	70	RB3241B12B14000	48	30
2"x1"1/4"	5	30	RB3241C02B14000	60	37
2"x1"1/2"	5	20	RB3241C02B12000	60	37
2"1/2x2"	1	100	RB3241C12C02000	76	41



Art. RB3280

-  Male thread coupling.
-  Messing Nippel mit A Gewinde.
-  Manchon filetage mâle/mâle.
-  Manguito rosca macho/macho.
-  Муфта Н(Н)-Н(R).

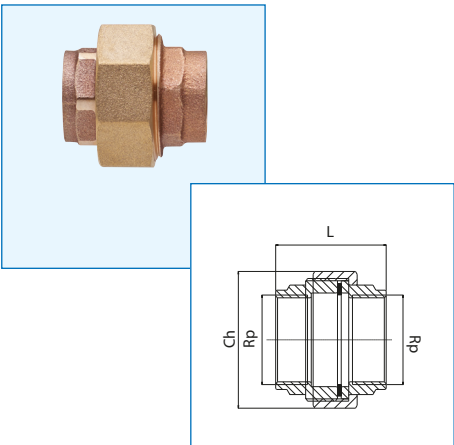
R	BAG	MASTER BOX	CODE	Ch	L
1/4"	10	250	RB3280A14A14000	17	25
3/8"	10	500	RB3280A38A38000	17	26
1/2"	10	250	RB3280A12A12000	21	30
3/4"	10	100	RB3280A34A34000	27	33
1"	10	100	RB3280B01B01000	34	40
1"1/4"	5	50	RB3280B14B14000	42	45
1"1/2"	5	40	RB3280B12B12000	48	47
2"	5	25	RB3280C02C02000	60	55
2"1/2"	1	8	RB3280C12C12000	90	65
3"	5	15	RB3280D03D03000	95	75








Art. RB3531

-  Male thread screw.
-  Nippel mit A Gewinde.
-  Vis filetage mâle.
-  Tornillo rosca macho.
-  Винт Н(Р).

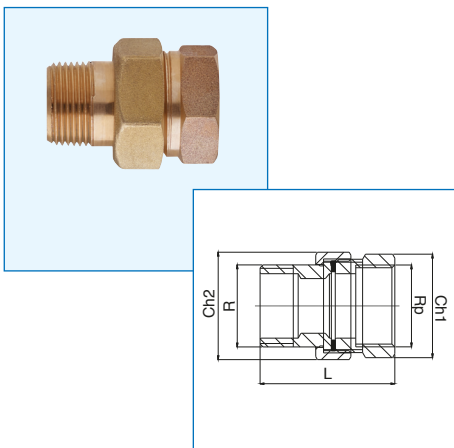
R	BAG	MASTER BOX	CODE	A
1/2"	10	150	RB3531A12000000	22
3/4"	10	200	RB3531A34000000	26
1"	10	100	RB3531B01000000	33
1"1/4	10	100	RB3531B14000000	37
1"1/2	5	50	RB3531B12000000	42
2"	5	30	RB3531C02000000	47








Art. RB3330

-  Female thread 3-piece flat seat joint + gasket.
-  Rohrverschraubung I Gewinde flachdichtend + OR.
-  Union à joint plat + joint, 3 pièces filetage femelle/femelle.
-  Unión recta 3 piezas sede plana rosca hembra/hembra + junta.
-  Муфта прямая трехсоставная с плоским уплотнением и кольцевой прокладкой В(Рр)-В(Рр).

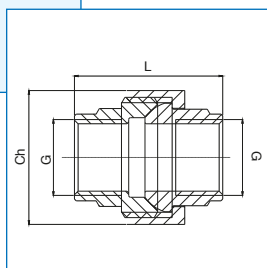
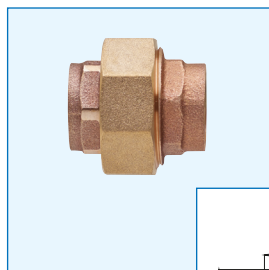
Rp	BAG	MASTER BOX	CODE	Ch	L
1/4"	5	200	RB3330A14A14000	27	38
3/8"	5	80	RB3330A38A38000	30	38
1/2"	5	80	RB3330A12A12000	37	42
3/4"	5	80	RB3330A34A34000	46	46
1"	5	40	RB3330B01B01000	52	50
1"1/4	1	45	RB3330B14B14000	64	59
1"1/2	1	12	RB3330B12B12000	73	60
2"	1	10	RB3330C02C02000	89	72



Art. RB3331

-  Male/female thread 3-piece flat seat joint.
-  Rohrverschraubung dreiteilig Axl Gewinde flachdichtend + OR.
-  Union à joint plat + joint, 3 pièces filetage mâle/femelle.
-  Unión recta 3 piezas sede plana rosca macho/hembra + junta.
-  Муфта прямая трехсоставная с плоским уплотнением и кольцевой прокладкой Н(Р)-В(Рр).

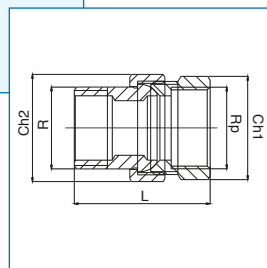
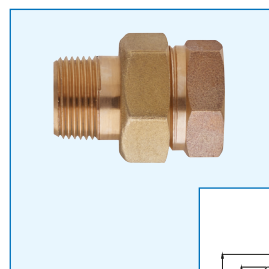
R/Rp	BAG	MASTER BOX	CODE	Ch1	Ch2	L
3/8"	5	150	RB3331A38A38000	24	27	44
1/2"	5	100	RB3331A12A12000	27	30	47,5
3/4"	5	50	RB3331A34A34000	34	37	53,5
1"	5	40	RB3331B01B01000	42	46	61,5
1"1/4	1	20	RB3331B14B14000	50	52	69,5
1"1/2	1	15	RB3331B12B12000	56	64	88
2"	1	8	RB3331C02C02000	70	82	96



Art. RB3340

- Female thread 3-piece conical seat joint.
- Rohrverschraubung dreiteilig | Gewinde konischdichtend.
- Union à joint conique, 3 pièces filetage femelle/femelle.
- Unión recta 3 piezas sede cónica rosca hembra/hembra.
- Муфта прямая трехсоставная с коническим уплотнением B(G)-B(G).

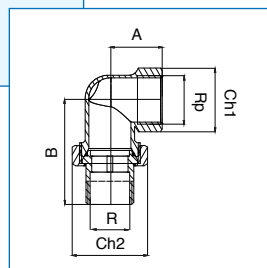
G	BAG	MASTER BOX	CODE	Ch	L
1/4"	5	150	RB3340A14A14000	27	37
3/8"	10	100	RB3340A38A38000	30	37
1/2"	5	80	RB3340A12A12000	37	41
3/4"	5	50	RB3340A34A34000	46	46
1"	5	60	RB3340B01B01000	52	51
1 1/4"	1	80	RB3340B14B14000	64	59
1 1/2"	1	12	RB3340B12B12000	73	63
2"	1	8	RB3340C02C02000	89	75



Art. RB3341

- Male/female thread 3-piece conical seat joint.
- Rohrverschraubung Axl Gewinde konischdichtend.
- Union à joint conique, 3 pièces filetage mâle/femelle.
- Unión recta 3 piezas sede cónica rosca macho/hembra.
- Муфта прямая трехсоставная с коническим уплотнением H(R)-B(Rp).

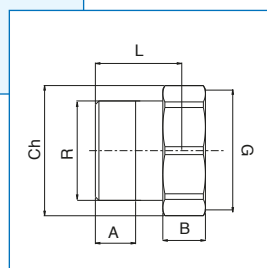
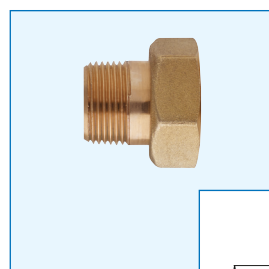
Rp/R	BAG	MASTER BOX	CODE	Ch1	Ch2	L
3/8"	10	100	RB3341A38A38000	24	27	43
1/2"	10	100	RB3341A12A12000	27	30	46
3/4"	5	50	RB3341A34A34000	34	37	53,5
1"	5	30	RB3341B01B01000	42	46	61
1 1/4"	5	25	RB3341B14B14000	50	52	70
1 1/2"	1	15	RB3341B12B12000	56	64	88
2"	1	10	RB3341C02C02000	70	82	97



Art. RB3098

- Male/female thread 3-piece conical seat elbow.
- Winkel Verschraubung Axl.
- Coude union à joint conique, 3 pièces filetage mâle/femelle.
- Unión curva 3 piezas sede cónica rosca macho/hembra.
- Муфта угловая трехсоставная с коническим уплотнением H(R)-B(Rp).

Rp/R	BAG	MASTER BOX	CODE	A	B	Ch1	Ch2
1/4"	10	200	RB3098A14A14000	23	46	21	27
3/8"	10	100	RB3098A38A38000	23	46	21	27
1/2"	10	80	RB3098A12A12000	25	53	26	30
3/4"	10	70	RB3098A34A34000	26	60	31	37
1"	5	30	RB3098B01B01000	33	68	37	46
1 1/4"	1	15	RB3098B14B14000	40	80	48	52
1 1/2"	1	20	RB3098B12B12000	40	93	55	64
2"	1	10	RB3098C02000000	55	105	70	82



Art. RB3359

- Valve connector with a swivel nut in brass.
- Rohrverschraubung flachdichtend + OR.
- Raccord droit avec écrou en laiton à joint plat.
- Conexión con tuerca giratoria de latón sede plana.
- Разъемное соединение с латунной накладной гайкой и плоским уплотнением для насосов.

RxG	BAG	MASTER BOX	CODE	A	B	Ch	L
1 1/4x1"	5	10	RB3359B14B01000	15	25	46	32,5
1 1/2x1 1/4"	1	10	RB3359B12B14000	17	33	52	36,5
2"x1 1/2"	5	10	RB3359C02B12000	19	38	64	48

STAINLESS STEEL THREADED FITTINGS EDELSTAHL GEWINDEFITTINGS RACCORDS FILETES EN ACIER INOX RACORES ROSCADOS DE ACERO INOX РЕЗЬБОВЫЕ СОЕДИНЕНИЯ ИЗ СТАЛИ



1. Introduction

INOX range fittings are made of high-quality AISI 316 austenitic stainless steel (material nr. 1.4401). They are produced in compliance with severe quality standards in the dimensional range between 1/2" and 2". The threads are made in compliance with EN 10226 standard.

1. Einführung

Die Serie INOX zeichnet sich durch die Verwendung von austenitischem Edelstahl AISI 316 (W. 1.4401) aus sowie die Herstellung nach strengsten Qualitätsstandards im Abmessungsbereich von 1/2" bis 2" aus.

Die Fittings der serie INOX zeichnen sich durch Gewinde gemäß Norm EN 10226 (Dichtheit durch Gewindekopplung).

1. Présentation

La série INOX est caractérisée par l'utilisation de l'acier inoxydable austénitique AISI 316 (n° de matériau 1.4401) de haute qualité et par une production avec des niveaux qualitatifs très élevés. Disponible dans la gamme dimensionnelle entre 1/2" et 2".

Les raccords de la série INOX ont des filetages conformes à la norme EN 10266 qui permettent des accouplements étanches.

1. Presentación

La serie INOX se realiza con acero inox austenítico AISI 316 (n° material 1.4401) de alta calidad y una producción que cumple las más severas exigencias cualitativas en la gama dimensional desde 1/2" hasta 2".

Los racores de la serie INOX se caracterizan por roscas según la norma EN 10226 que permite el apareamiento con estanqueidad sobre la rosca.

1. Описание

Серия INOX характеризуется использованием аустенитной нержавеющей стали AISI 316 (нержавеющая сталь 1.4401) высокого качества и производится в соответствии с самыми строгими требованиями стандартов качества. Серия представлена в размерах от 1/2" до 2".

Фитинги серии INOX имеют резьбу в соответствии с нормативом EN 10266, что обеспечивает герметичность резьбовых соединений.

2. Advantages

- AISI 316 (1.4401) austenitic stainless steel, compliant with EN 10088 standards.
- High temperature resistant.
- R/Rp cone-shaped threaded fittings, compliant with EN 10226 standard.
- Perfect for drinking water installations but even for aggressive process or treated water systems.

2. Vorteile

- Austenitischer Edelstahl AISI 316 (1.4401) gemäß EN 10088.
- Hervorragende Beständigkeit gegen hohe Temperaturen.
- Konische Gewindekupplung R/Rp gemäß EN 10266-Norm.
- Geeignet für alle Anlagen im Bereich Trinkwasser, aufbereitetes Wasser oder Prozesswasser sowie Anlagen mit ausgeprägten aggressiven Eigenschaften.

2. Avantages

- Acier inox austénitique AISI 316 (1.4401) conforme à la norme EN 10088.
- Excellente résistance aux hautes températures.
- Accouplement fileté conique R/Rp conformément à la norme EN 10226.
- Adapté à toutes les installations d'eau potable, d'eaux traitées o d'usinage avec des importants caractéristiques d'agressivité.

2. Ventajas

- Acero inox austenítico AISI 316 (1.4401) según la norma EN 10088.
- Óptima resistencia a la corrosión.
- Apareamiento roscado cónico R/Rp según la norma EN 10226.
- Ideal para todas las instalaciones de agua potable, aguas tratadas o residuales de la producción con altos niveles de agresividad.

2. Преимущества

- Аустенитная нержавеющая сталь (материал 1.4401) соответствует стандарту EN 10088.
- Высокая устойчивость к повышенным температурам.
- Коническая резьба R/Rp в соответствии со стандартом EN 10226.
- Подходят для всех систем транспортировки питьевой воды, воды обработанной и технологической, в том числе, с выраженными агрессивными характеристиками.

3. Applications

Serie INOX fittings are suitable for gas and drinking water applications. Besides, they are usable in firefighting systems and in heating and cooling systems.

3. Anwendungsbereiche

Die Gewindefittings der INOX Serie sind für Gas- und Trinkwasseranwendungen geeignet. Auch für Feuerlöschsystemen und in Anlagen zum Heizen und Kühlen können diese Fittings eingesetzt werden.

3. Champs d'emploi

La série INOX des raccords filetés est adaptée pour les applications de gaz et d'eau potable. Egalement, elle est utilisable dans systèmes de protection contre les incendies et installations de chauffage et de refroidissement.

3. Aplicaciones

La serie INOX de racores roscados es ideal para aplicaciones gas y agua potable. Además, se puede utilizar en instalaciones de protección contra incendios, de calefacción y de refrigeración.

3. Области применения

Серия INOX подходит для применения в системах распределения газа и питьевой воды. Помимо этого, пригодны для использования в противопожарных системах, и системах отопления и охлаждения.



DRINKING
WATER



HEATING



HVAC



GAS








COMPRESSED
AIR



FIREFIGHTING








Art. FXF515

-  Male/female thread reducer.
-  Reduziertstück mit AxI Gewinde.
-  Réduction filetage mâle/femelle.
-  Reducción rosca macho/hembra.
-  Муфта редукционная H(R)-B(Rp).

dxd1	BAG	MASTER BOX	CODE
1/2"x3/8"	10	100	FXF515A12A38000
1"1/2x1"1/4	5	50	FXF515B12B14000
2"x1"1/2	1	10	FXF515C02B12000








Art. FXF520

-  Male thread coupling.
-  Nippel reduziert konisch mit AxA Gewinde.
-  Manchon filetage mâle.
-  Manguito rosca macho.
-  Муфта H(R).

d	BAG	MASTER BOX	CODE
1/2"	10	50	FXF520A12A12000



Art. FXF340

-  F/F joint.
-  Rohrverschraubung konischdichtend.
-  Union F/F.
-  Unión H/H.
-  Муфта разъемная B-B.

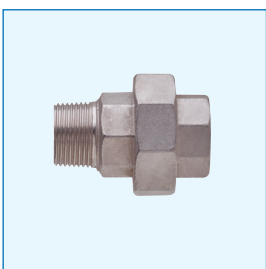
d	BAG	MASTER BOX	CODE
1/2"	10	60	FXF340A12A12000
1"	10	25	FXF340B01B01000
1"1/2	1	10	FXF340B12B12000
2"	1	5	FXF340C02C02000








Art. FXF270

-  Female thread coupling.
-  Muffe mit I Gewinde.
-  Manchon filetage femelle.
-  Manguito rosca hembra.
-  Муфта B(Rp)-B(Rp).

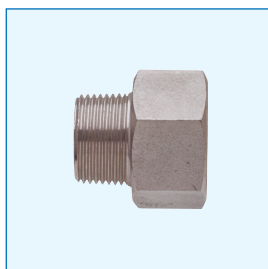
d	BAG	MASTER BOX	CODE
3/4"	10	70	FXF270A34A34000








Art. FXF341

-  Male/female thread joint.
-  Rohrverschraubung konischdichtend mit AxI Gewinde.
-  Union filetage mâle/femelle.
-  Unión rosca macho/hembra.
-  Муфта разъемная H(R)-B(Rp).

d	BAG	MASTER BOX	CODE
3/4"	10	40	FXF341A34A34000
1"	10	50	FXF341B01B01000
1"1/4	5	15	FXF341B14B14000
1"1/2	1	10	FXF341B12B12000








Art. FXF525

-  Male/female thread reducer.
-  Reduziertstück mit AxI Gewinde.
-  Réduction filetage mâle/femelle.
-  Reducción rosca macho/hembra.
-  Муфта редукционная Н(Р)-В(Рр).

d	BAG	MASTER BOX	CODE
1/2"x3/8"	10	100	FXF525A12A38000
1"x3/4"	5	50	FXF525B01A34000
1"1/2x1"1/4	1	20	FXF525B12B14000
2"x1"1/2	1	10	FXF525C02B12000



Art. FXF505

-  Male thread plug.
-  Messing Stopfen mit A Gewinde.
-  Bouchon filetage mâle.
-  Tapón rosca macho.
-  Заглушка Н(Р).

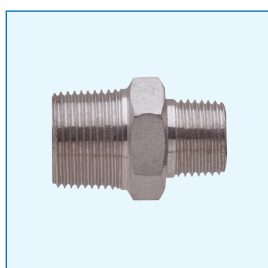
d	BAG	MASTER BOX	CODE
1/2"	10	100	FXF505A12000000
3/4"	10	70	FXF505A34000000
1"	10	50	FXF505B01000000
1"1/4	5	30	FXF505B14000000








Art. FXF506

-  Female thread plug.
-  Kappe mit I Gewinde.
-  Bouchon filetage femelle.
-  Tapón rosca hembra.
-  Заглушка В(Рр).

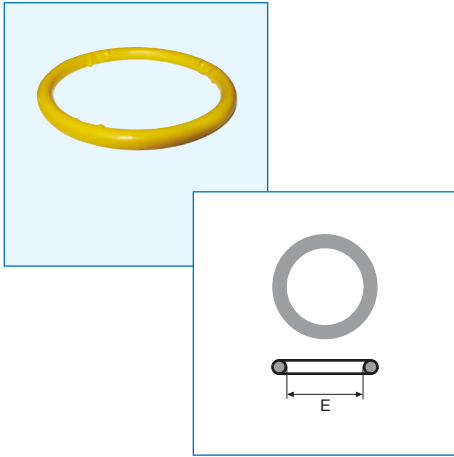
d	BAG	MASTER BOX	CODE
1/2"	10	100	FXF506A12000000
1"1/2	1	20	FXF506B12000000








Art. FXF521

-  Male thread reducer.
-  Nippel reduziert mit AxA Gewinde.
-  Réduction filetage mâle.
-  Reducción rosca macho.
-  Муфта редукционная Н(Р).

d	BAG	MASTER BOX	CODE
1/2"x3/8"	10	100	FXF521A12A38000
3/4"x1/2"	10	70	FXF521A34A12000
1"x3/4"	10	50	FXF521B01A34000
1"1/4x1"	5	30	FXF521B14B01000
2"x1"1/2	1	10	FXF521C02B12000



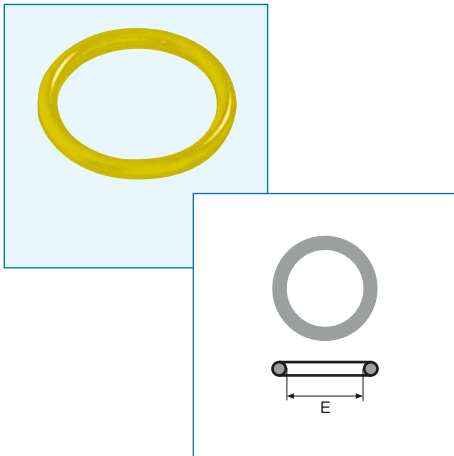
Art. HNBRSC

-  HNBR O-ring for water and gas.
-  O-Ringe aus HNBR für Gas und Wasser.
-  O-ring en HNBR pour eau et gaz.
-  O-ring de HNBR para agua y gas.
-  Кольцевая прокладка из HNBR, газ/вода.






PATENTED



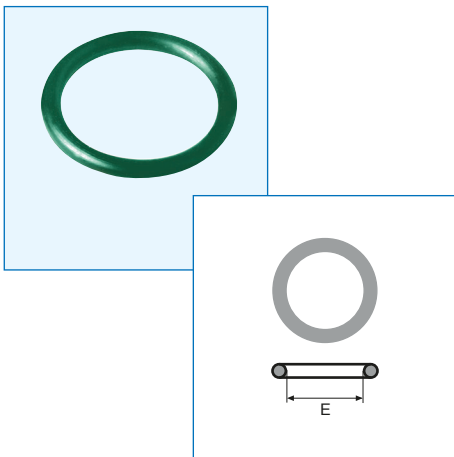
Ø pipe-E Ø Rohr-E	BAG	MASTER BOX	CODE
12	50	100	HNBRSC012000000
14	50	100	HNBRSC014000000
15	50	100	HNBRSC015000000
16	50	100	HNBRSC016000000
18	50	100	HNBRSC018000000
22	50	100	HNBRSC022000000
28	50	100	HNBRSC028000000
35	50	100	HNBRSC035000000
42	50	100	HNBRSC042000000
54	50	100	HNBRSC054000000








Art. HNBR02

-  HNBR O-ring for gas.
-  O-Ringe aus HNBR für Gas.
-  O-ring en HNBR pour gaz.
-  O-ring de HNBR para gas.
-  Кольцевая прокладка из HNBR, вода.

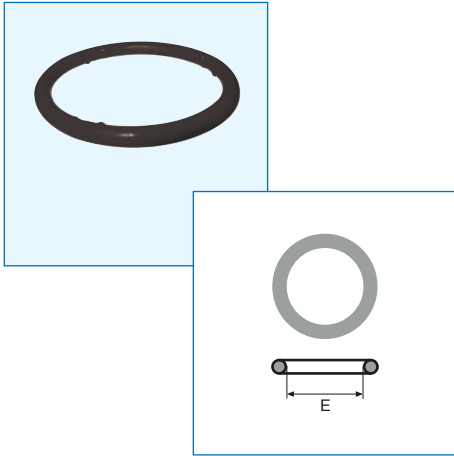
Ø pipe-E Ø Rohr-E	BAG	MASTER BOX	CODE
12	50	500	HNBR02012000000
15	50	500	HNBR02015000000
18	50	500	HNBR02018000000
22	50	300	HNBR02022000000
28	50	250	HNBR02028000000
35	50	250	HNBR02035000000
42	10	200	HNBR02042000000
54	10	150	HNBR02054000000








Art. FKM001

-  FKM O-ring.
-  O-Ringe aus FKM.
-  O-ring en FKM.
-  O-ring de FKM.
-  Кольцевая прокладка из FKM.

Ø pipe-E Ø Rohr-E	BAG	MASTER BOX	CODE
12	50	500	FKM001012000000
15	50	500	FKM001015000000
18	50	500	FKM001018000000
22	50	300	FKM001022000000
28	50	250	FKM001028000000
35	50	250	FKM001035000000
42	25	200	FKM001042000000
54	25	100	FKM001054000000



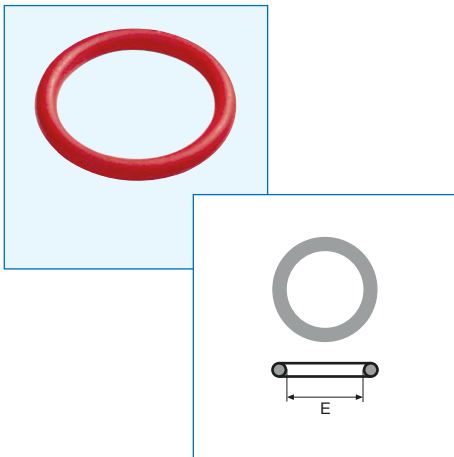
Art. SECURO

-  EPDM O-ring.
-  O-Ringe aus EPDM.
-  O-ring en EPDM.
-  O-ring de EPDM.
-  Кольцевая прокладка из EPDM.






PATENTED



Ø pipe-E Ø Rohr-E	BAG	MASTER BOX	CODE
12	50	500	SECUR0012000000
15	50	500	SECUR0015000000
18	50	500	SECUR0018000000
22	50	300	SECUR0022000000
28	50	250	SECUR0028000000
35	50	250	SECUR0035000000
42	50	200	SECUR0042000000
54	50	200	SECUR0054 000000








Art. FKM002

-  FKM O-ring.
-  O-Ringe aus FKM.
-  O-ring en FKM.
-  O-ring de FKM.
-  Кольцевая прокладка из FKM.

Ø pipe-E Ø Rohr-E	BAG	MASTER BOX	CODE
12	50	500	FKM002012000000
15	50	500	FKM002015000000
18	50	500	FKM002018000000
22	50	300	FKM002022000000
28	50	250	FKM002028000000
35	50	250	FKM002035000000
42	25	200	FKM002042000000
54	25	150	FKM002054000000








Art. ECO203

-  Electric crimping machine.
-  Presswerkzeug elektrisch.
-  Machine à sertir électrique.
-  Prensadora eléctrica.
-  Пресс-инструмент электрический.

MANUFACTURER HESTELLER	TOOL PRESSWERKZEUG	SUPPLY VERSORGUNG	SIZE ABMESSUNG	PISTON FORCE KOLBENKRAFT (kN)	PISTON STROKE KOLBENHUB (mm)	BAG	MASTER BOX	CODE
NOVOPRESS	ECO 203	WITH CABLE	12÷54	32	40	-	1	ECO20300000001








Art. ACO203 ACO203XL

-  Crimping machine with battery.
-  Presswerkzeug mit Akku.
-  Machine à sertir à batterie.
-  Prensadora a batería.
-  Пресс-инструмент на аккумуляторе.

MANUFACTURER HESTELLER	TOOL PRESSWERKZEUG	SUPPLY VERSORGUNG	SIZE ABMESSUNG	PISTON FORCE KOLBENKRAFT (kN)	PISTON STROKE KOLBENHUB (mm)	BAG	MASTER BOX	CODE
NOVOPRESS	ACO 203	WITH BATTERY	12÷54	32	40	-	1	ACO203000000001
NOVOPRESS	ACO 203XL	WITH BATTERY	12÷108	32	80	-	1	ACO203XL0SET001








Art. GANOVO

-  Jaw for metal fittings.
-  Pressbacke für Metallfittings.
-  Pincés pour raccords métalliques.
-  Agarrador por racores de metal.
-  КЛЕЩИ ДЛЯ МЕТАЛЛИЧЕСКИХ ПРЕСС-ФИТИНГОВ.

MANUFACTURER HESTELLER	TOOL PRESSWERKZEUG	PROFILE PROFIL	SIZE ABMESSUNG	BAG	MASTER BOX	CODE
NOVOPRESS	ECO/ACO 201/202/203/203XL	V	12	-	1	GANOVO00V012000
NOVOPRESS		V	15	-	1	GANOVO00V015000
NOVOPRESS		V	18	-	1	GANOVO00V018000
NOVOPRESS		V	22	-	1	GANOVO00V022000
NOVOPRESS		V	28	-	1	GANOVO00V028000
NOVOPRESS		V	35	-	1	GANOVO00V035000
NOVOPRESS		M	12	-	1	GANOVO00M012000
NOVOPRESS		M	15	-	1	GANOVO00M015000
NOVOPRESS		M	18	-	1	GANOVO00M018000
NOVOPRESS		M	22	-	1	GANOVO00M022000
NOVOPRESS		M	28	-	1	GANOVO00M028000
NOVOPRESS		M	35	-	1	GANOVO00M035000



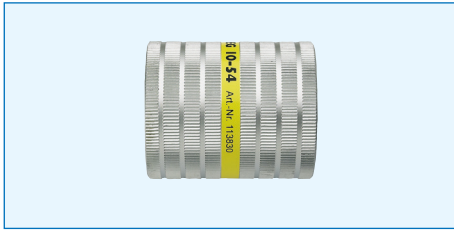
Art. **NOV203**
NOV221
NOV222
NVSNAP

-  Jaw for metal fittings.
-  Pressbacke für Metallfittings.
-  Pincés pour raccords métalliques.
-  Agarrador por racores de metal.
-  КЛЕЩИ ДЛЯ МЕТАЛЛИЧЕСКИХ ПРЕСС-ФИТИНГОВ.






MANUFACTURER HESELLER	TOOL PRESSWERKZEUG	PROFILE PROFIL	SIZE ABMESSUNG	BAG	MASTER BOX	CODE
NOVOPRESS	ECO/ACO 201/202/203/203XL	Adapter snap on	42-54	-	1	NOV203000000000
NOVOPRESS	ACO 203XL	Adapter snap on	76,1-88,9-108*	-	1	NOV221000000000
NOVOPRESS		Adapter snap on	108**	-	1	NOV222000000000
NOVOPRESS	ADAPTER REQUIRED	V	42	-	1	NVSNAP042000000
NOVOPRESS		V	54	-	1	NVSNAP054000000
NOVOPRESS		M	42	-	1	NVSNAP00M042000
NOVOPRESS		M	54	-	1	NVSNAP00M054000
NOVOPRESS		M	76,1	-	1	NVSNAP076000000
NOVOPRESS		M	88,9	-	1	NVSNAP089000000
NOVOPRESS		M	108	-	1	NVSNAP108000000

* This item is required for the "first" pressing Ø108 - Dieser Artikel ist für das "erste" Pressen des Ø108 erforderlich.

** This item is required for the "second" pressing Ø108 - Dieser Artikel ist für das "zweite" Pressen des Ø108 erforderlich.




Art. CUSBAV

-  Deburrer.
-  Abgratwerkzeug und präzisionfräs.
-  Outil à ébarber interieur et extérieur pour tube.
-  Desbador interior y exterior por tubos.
-  Зачистной инструмент.

SIZE ABMESSUNG	BAG	MASTER BOX	CODE
12+54	-	1	CUSBAV010054000








Art. FB0911

-  Roll of soldering rod.
-  Lötdrahtrolle.
-  Bobine fil soudure.
-  Rollo de alambre para soldar.
-  Мягкий припой, в мотках.

COMPOSITION ZUSAMMENSETZUNG	QUANTITY MENGE (Gr.)	BAG	MASTER BOX	CODE
Sn 45%-Pb 50%-Ag 5%	500	-	1	FB0911001000000
Sn 45%-Pb 51,5%-Ag 3,5%	500	-	1	FB0911002000000
Sn 45%-Pb 51,5%-Ag 3,5%	250	-	1	FB0911003000000



Art. FB0708

-  Hard solder in bars.
-  Lötmetall in Stangen.
-  Baguette soudure.
-  Liga en barras para soldar.
-  Твердый припой, в прутках.

COMPOSITION ZUSAMMENSETZUNG	QUANTITY MENGE (Gr.)	BAG	MASTER BOX	CODE
Cu 93%-P 7%	1000	-	1	FB0708001000000
Ag 2%-Cu 91%-P 7%	1000	-	1	FB0708002000000
Ag 5%-Cu 89%-P 6%	1000	-	1	FB0708003000000



Art. FB0012

-  Soldering paste.
-  Lötpaste.
-  Pâte décapante.
-  Pasta decapante.
-  Флюс для пайки.

QUANTITY MENGE (Gr.)	BAG	MASTER BOX	CODE
70 gr.	-	1	FB0012000000000








Art. **FB0013**

-  Soldering paste.
-  Lötpaste.
-  Pâte décapante.
-  Pasta decapante.
-  Флюс для пайки.

QUANTITY MENGE (Gr.)	BAG	MASTER BOX	CODE
250 gr.	-	1	FB001300000000



Art. **FB0016**

-  Self cleaning soldering gel.
-  Gel Abbeizmittel.
-  Gel décapant.
-  Gel autodecapante.
-  Травильный раствор в виде ГЕЛЯ.

QUANTITY MENGE (Gr.)	BAG	MASTER BOX	CODE
100 gr.	-	1	FB001600000000



Art. **FB0017**

-  Insulating gel.
-  Gel-Isolierungsstoff.
-  Gel isolant.
-  Gel aislante.
-  Гель изолирующий.

QUANTITY MENGE (Gr.)	BAG	MASTER BOX	CODE
1 lt.	-	1	FB001700000000

SALES CONDITIONS – KOMMERZIELLE INFORMATIONEN

 The general sales conditions are available on our website www.frabo.com

SALES CONDITIONS

1. SCOPE OF APPLICATION

These terms and conditions are the only source of the purchase contract, that the customer unconditionally accepts. Any addition or modification on these conditions will have no effect on Fra.Bo S.p.A. if not expressly approved in writing.

2. ORDER AND ACCEPTANCE

2.1 All orders must be put into writing and accepted in writing by Fra.Bo S.p.A. by order confirmation.

2.2 Ordered quantities will be automatically rounded to the package.

3. DELIVERY TERMS

As "delivery date" we consider the day on which goods are delivered to the courier or made available to the customer for collection. The delay in the delivery of products can never be considered a source of compensation for damages, nor for the dissolution of the contract.

4. PRICES AND PAYMENT TERMS

The prices of the products and the payment terms applied, will be those indicated in our order confirmation. In case of overdue payments, the buyer will have to pay default interests as provided by law.

5. SHIPMENTS

Goods are sold "ex-factory" and they travel at the own risk of the customer, unless otherwise indicated in writing. Therefore, the transport is never insured, if not expressly required by the customer and the relative burden is at the customer's expense.

6. COMPLAINTS

6.1 The purchaser is obliged to carefully examine and check the products upon receipt of the same, expressing reserve on the delivery note if needed: any complaint regarding the quality and any possible defect of the products received will be precluded to the purchaser without proper notification.

6.2 Complaints concerning the quality and the quantity of the goods must be made in writing within eight days. In case of confirmed complaints Fra.Bo will proceed with the replacement or with the integration of the defective or missing item, without the right to recast damages of any kind.

7. RETURNS

7.1 All possible returns must be agreed in advance. The return request must be made through the appropriate form "return authorization" (available on the website www.frabo.com) which must be duly filled-out and sent to Fra.Bo S.p.A. claims@frabo.com. The acceptance will eventually be authorized in writing. Returns not agreed in advance will not be accepted.

7.2 Returns for wrong ordering (excluding special productions) will be accepted as return, applying a 30% charge on the invoice amount. It is understood that the material must be intact in all its components.

7.3 The obsolete material of Fra.Bo S.p.A. can be collected by crediting the pure cost of the raw material.

8. RETENTION OF TITLE

Sales of Fra.Bo products are submitted to the agreement of retention of title. Therefore, the products will belong to Fra.Bo S.p.A. until the buyer's total payment of the price.

9. CONFIDENTIALITY

The purchaser commits not to divulge to third parties any information of a commercial or technical nature or concerning industrial property rights (including but not limited to drawings, models, technical data sheets, projects) of which the purchaser learnt about during the business relationship with Fra.Bo S.p.A.

10. REGULATORY LAW AND COMPETENT COURT

The contract will be governed by the Italian law. For any controversy deriving from the execution or interpretation of the contract the Court of Brescia, Italy, will have exclusive jurisdiction.

 Die allgemeinen Verkaufsbedingungen finden Sie auf der Website www.frabo.com

GEWERBLICHE BEDINGUNGEN

1. ANWENDUNGSUMFANG

Diese Geschäftsbedingungen sind die einzige regulatorische Quelle des Kaufvertrags, die der Kunde vorbehaltlos akzeptiert. Jede Hinzufügung oder Änderung dieser Bedingungen hat keine Auswirkungen auf Fra.Bo S.p.A. es sei denn, dieser genehmigt dies ausdrücklich schriftlich.

2. BESTELLUNG UND ANNAHME

2.1 Alle Bestellungen müssen schriftlich formuliert und von Fra.Bo S.p.A. schriftlich durch Auftragsbestätigung angenommen werden.

2.2 Die bestellten Mengen werden automatisch auf Verpackungseinheit aufgerundet.

3. LIEFERBEDINGUNGEN

Als Liefertermin gilt der Tag, an dem die Ware an den Kurier übergeben oder dem Kunden zur Abholung zur Verfügung gestellt wird. Die Verzögerung bei der Lieferung der Produkte kann niemals als Schadensersatzquelle oder als Kündigung des Vertrages angesehen werden.

4. PREISE UND ZAHLUNGSMETHODEN

Produktpreise und Zahlungsmethoden entsprechen den Angaben im Auftragsbestätigungsdokument. Bei verspäteten Zahlungen werden dem Käufer Verzugszinsen gemäß den gesetzlichen Bestimmungen in Rechnung gestellt.

5. LIEFERUNG

Die Waren werden auf Gefahr des Empfängers transportiert, da sie "ab Werk" verkauft werden, sofern nicht schriftlich anders angegeben. Daher sind sie von uns niemals für den Transport versichert, es sei denn, dies wird ausdrücklich vom Kunden verlangt, der die relative Belastung trägt.

6. REKLAMATION

6.1 Der Käufer ist verpflichtet, die Produkte nach Erhalt sorgfältig zu prüfen und zu verifizieren, wobei er, sofern er dies für möglich hält, auf dem Lieferschein einen Vorbehalt ausdrückt: Dem Käufer wird jegliche Reklamation über die Qualität und erkennbaren, oder nichtoffensichtlichen Mängeln der erhaltenen Produkte verweigert wenn nicht ordnungsgemäß eine Reklamation eingereicht wird.

6.2 Reklamationen bezüglich Qualität und Quantität der Ware sind innerhalb von acht Tagen schriftlich einzureichen. Die berechtigten Beschwerden führen Fra.Bo schlicht und einfach zum Ersatz oder zur Integration des defekten oder fehlenden Artikels, ohne das Recht, Schäden jeglicher Art in Anspruch zu stellen.

7. RÜCKGABE

7.1 Alle möglichen Rücksendungen müssen im Voraus vereinbart werden. Der Rücksendeantrag muss unter Verwendung des entsprechenden Formulars "Rücksendegenehmigung" (auf der Website www.frabo.com) gestellt werden, welches, ordnungsgemäß ausgefüllt, an Fra.Bo S.p.A. gesendet werden muss. claims@frabo.com. Das gleiche wird eventuell schriftlich genehmigt. Nicht zuvor vereinbarte Rücksendungen werden nicht akzeptiert.

7.2 Rücksendungen bei falscher Bestellung (ausgenommen Sonderproduktionen) werden gegen eine Gebühr von 30% des Kaufpreises akzeptiert. Es versteht sich, dass das Material in all seinen Bestandteilen intakt sein muss.

7.3 Veraltete Materialien von Fra.Bo S.p.A. können gegen Gutschrift des reinen Rohmaterialpreises zurückgenommen werden.

8. EIGENTUMSVORBEHALT

Der Verkauf von Fra.Bo-Produkten erfolgt über die sogenannte Vertraulichkeitsvereinbarung. Daher bleiben die Waren bis zur vollständigen Zahlung durch den Käufer, Eigentum von Fra.Bo S.p.A.

9. VERSCHWIEGENHEITSPFLICHT

Der Käufer verpflichtet sich, keine Informationen kommerzieller, technischer, oder gewerblicher Eigentumsrechte an Dritte weiterzugeben (z. B. Zeichnungen, Modelle, Datenblätter oder Projekte) von denen er während der Geschäftsbeziehung mit Fra.Bo S.p.A. in Kenntnis gekommen ist.

10. GELTENDES RECHT UND GERICHTSBARKEIT

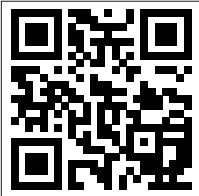
Der Vertrag unterliegt italienischem Recht. Für alle Streitigkeiten, die sich aus der Ausführung oder Auslegung des Vertrags ergeben, ist ausschließlich das Gericht von Brescia, Italien, zuständig.

SALES CONDITIONS – KOMMERZIELLE INFORMATIONEN

RETURNED ITEM AUTHORIZATION

Please complete all the parts of this form, downloadable from www.frabo.com.

SCAN AND DOWNLOAD



FRABO

RETURNED ITEM AUTHORIZATION FORM

This form must be filled in all its parts and must be sent by e-mail to the following address: claims@frabo.com

Date of request: [] Reference person: []
Customer code: [] Shipment code: []
Company name: [] Place: []

N.	Item code	Qty	Reason of complaint	Notes and details	Delivery date	Date
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						

- Products must be packaged in a safe manner to avoid any damage during shipment; potential damaged or defective goods will be returned and transport costs will be charged to the sender.
- In case of wrong order, returned items will be accepted with charge of 30% on the purchase cost.
- Frabo declines any responsibility for incorrect installation or improper use of the item.
- In case of returns for alleged deficiency it is necessary to fill, in all its parts, the "Claim Information" request form.
- Any returned item will be returned at the expenses of the sender or could be scrapped.
Commercial department will authorize the return by giving a reference number and following to the inspection of the goods, will authorize the possible credit note, restoration or replacement.

FRABO reserved section

Goods returned form number: [] Authorization signature: []
Forwarder: []
Shipment terms: []
Notes: []

FRABO S.p.A.
Via Caldera, 30 - 35027 Quarano d'Adda (PD) Italia
Tel. +39 039 99 25 711 - Fax +39 039 24 127 - www.frabo.com - E-mail info@frabo.com
Ispr. C.C.I.A.A. PD n°011800190 - REA n°033272 - Capitale Sociale € 1.500.000,00 i.v.
Codice Fiscale e Partita Iva IT 0011800190

Compliance Information request form

Date: []
Customer: []
Claim n.: []

Normal complaint []
Technical report []

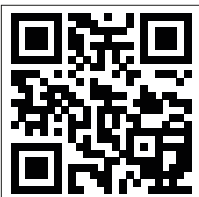
Further information such as photos, videos, installation or failure drawings are important for a quicker and more efficient management of the complaint.

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AUTORISIERUNG ZUR RÜCKGABE

Bitte füllen Sie das Formular aus, das vollständig von www.frabo.com heruntergeladen werden kann.

SCANNEN UND HERUNTERLADEN



FRABO

RÜCKGABE-GENEHMIGUNGSFORMULAR

Das folgende Formular muss vollständig ausgefüllt und per E-Mail an folgende Adresse gesendet werden: claims@frabo.com

Datum: [] Kontaktperson: []
Rechnungskundencode: [] Lieferkundencode: []
Abnehmernummer: [] Str.: []

N.	Artikelcode	Stück	Reklamationsgrund	Anmerkungen	Lieferzeitpunkt	Datum
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						

- Die Ware muss ordnungsgemäß verpackt sein, damit es beim Transport nicht beschädigt wird. Beschädigte Artikel werden auf Kosten des Absenders zurückgeschickt.
- Rücksendungen für falsch bestellte Ware werden im Gegenzug mit einer Gebühr von 30% auf den Kaufpreis akzeptiert.
- Frabo lehnt jede Verantwortung für fehlerhafte Installation oder unsachgemäße Verwendung des Produktes ab.
- Bei Rücksendungen wegen vermuteter Mängel muss das Formular "Anforderung von Informationen zur Beanstandung" in allen Teilen ausgefüllt werden.
- Alle zurückgegebenen Produkte, die keine Herstellungsfehler aufweisen, werden auf Kosten des Absenders zurückgeschickt oder verschrottet.
Die Verkaufsheftung genehmigt die Rücksendung durch Zuweisung eines Aktenschildes. Nach Überprüfung der Waren wird eine Gutschrift, Reparatur oder ein Ersatz genehmigt.

Abschnitt für FRABO reserviert

Kartennummer zurückgeben: [] Autorisierungssignatur: []
Charakter: []
Lieferung: []
Bestellfunktion: []

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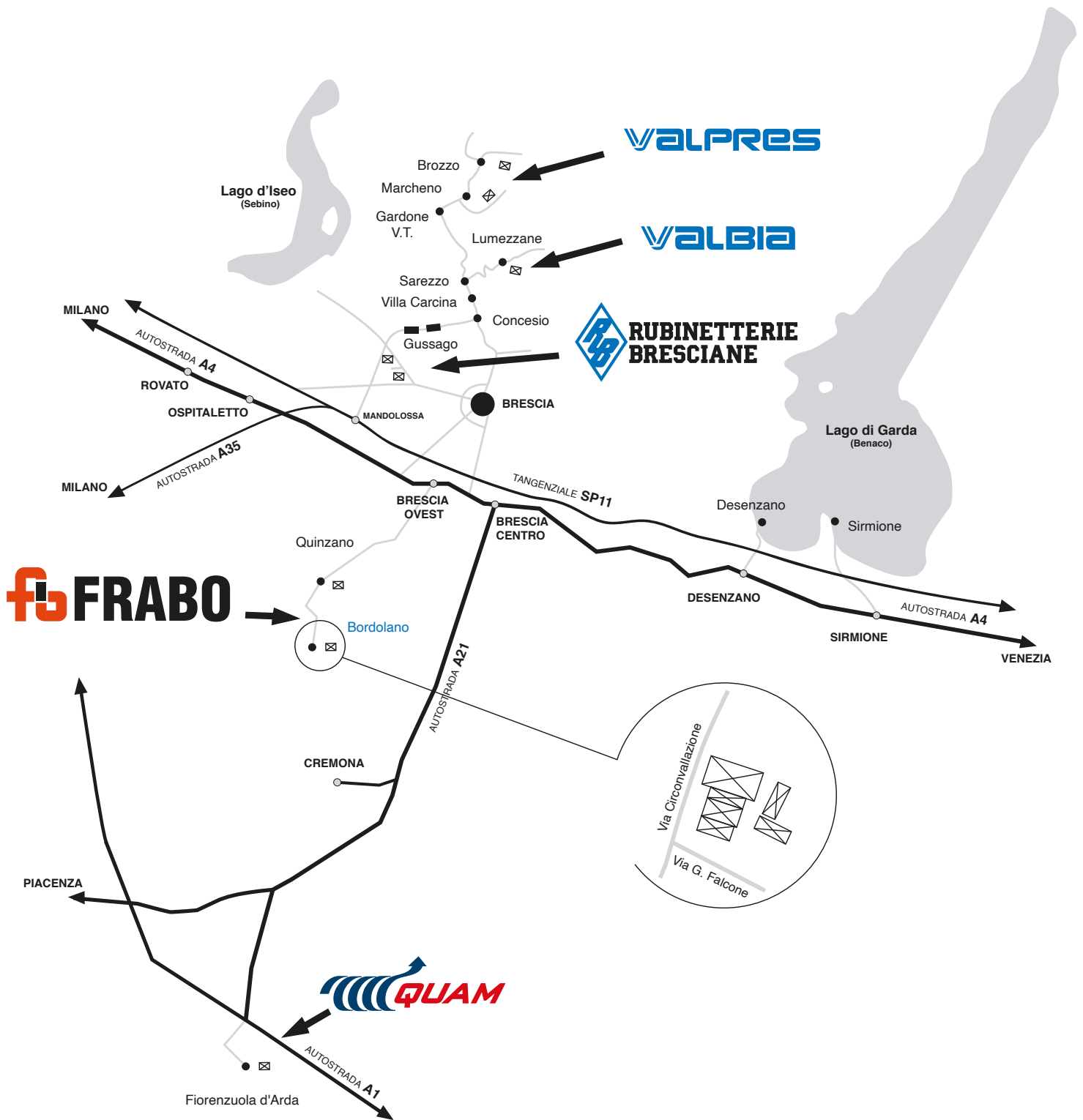
Anforderung von Informationen zur Beanstandung

Date: []
Customer: []
Return No.: []

Information request form []
Technical report []

Further information such as photos, videos, installation or failure drawings are important for a quicker and more efficient management of the complaint.

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N.214

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