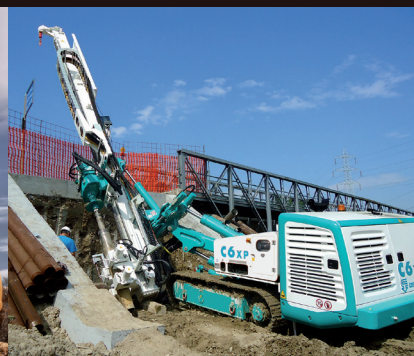


DIVISION HYDRAULIQUE HYDRAULIC DIVISION

TUYAUX, RACCORDS & ADAPTATEURS
HOSE, FITTINGS & ADAPTERS



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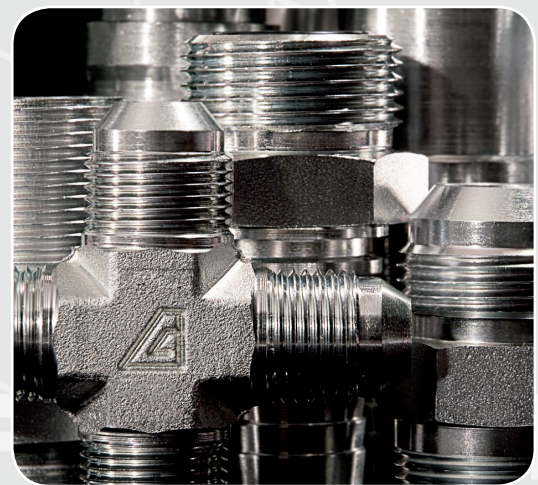
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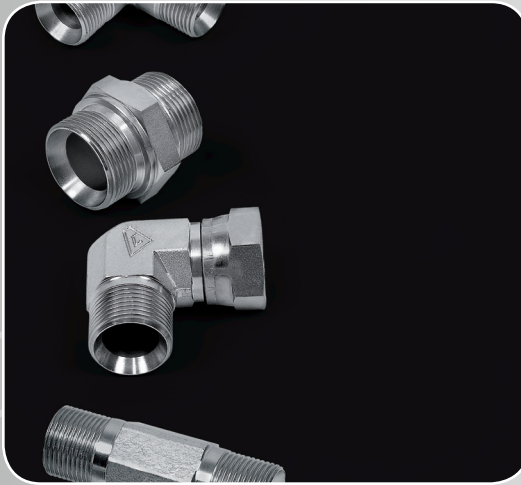
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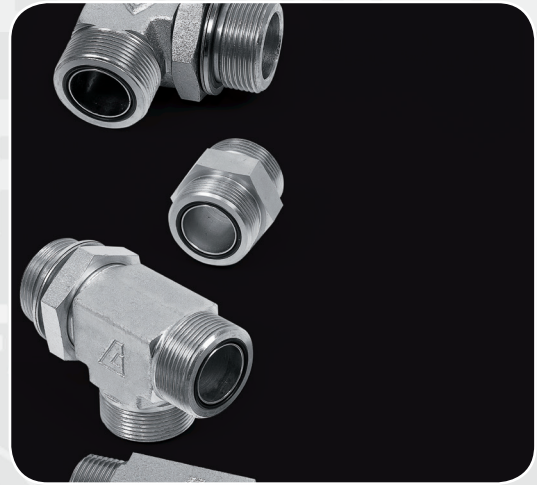
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CHART SYMBOLS

	Internal diameter
	Outside diameter
	Maximum working pressure
	Minimum burst pressure
	Minimum bend radius
	Wall thickness
	Weight

SETTING NEW STANDARD

ALFAGOMMA cares for the environment and for your equipment. Among ALFAGOMMA's newest products are ALFATECH 4000, 5000, 6000 spiral hose, low temperature, Temp Tech, MineTuff, SuperTuff hose and a complete coupling line (two pieces and precrimped ALFACRIMP systems).

They join the extensive range of ALFAGOMMA hoses, the high pressure hydraulic components that have set the standard for reliability and durability.

DESIGN

Throughout the world ALFAGOMMA has built up a name synonymous with quality, a reputation based on first class product, a commitment to research and development and ongoing capital investment.

A development and product engineering staff in ALFAGOMMA, continue to provide fluid conveying product innovations that assure better performance and cost saving to our customers.

ALFAGOMMA's hoses and couplings are designed to work together as a system for problem-free performance, no matter what machine you operate. The performance of all our products and some hoses meet the MSHA and LOBA flame resistance requirements, as well.

LEADERSHIP IN HYDRAULIC HOSE AND COUPLING COMPONENTS

ALFAGOMMA has developed into a world leading manufacturer, of fluid power and fluid system components. A positive attitude towards the demands from new equipment which is using the latest technology has seen ALFAGOMMA introduce many outstanding new hydraulic hose types. These hoses have found acceptance in a wide range of industry, some examples are:

Mining	Earthmoving	Moulding
Logging	Agriculture	Drilling
Petroleum	Waste/Refuse	Crane
Railroad	Manufacturing	
Construction	Pulp and Plywood Mills	

GLOBAL COMPANY

Due to our world-wide organisation of subsidiaries and distributors you will always be near a source for ALFAGOMMA products. Your ALFAGOMMA dealer has trained personnel to consult with you on your hose and coupling requirements guaranteeing consistent quality and performance.

OUR COMMITMENT

By remaining alert to customer's needs, ALFAGOMMA is constantly engineering new products for tomorrow's markets as well as modifying them for even higher performances. ALFAGOMMA's commitment to innovation and service makes our products known throughout the world for quality, reliability and leadership, when you need quality hoses and couplings, use the best available. Now you can count on ALFAGOMMA for all your needs.

TESTING

ALFAGOMMA laboratories are fully equipped to carry out tests according to standards like SAE, ISO, DIN and JIS. New products are also subjected to laboratory simulation of actual service prior to being released on the market.

WORLD CLASS QUALITY

ALFAGOMMA is working to internationally recognised quality programs requiring stringent standards. Many of our customers are demanding ISO qualification or equivalent as a prerequisite for purchasing. This standard is an assurance of consistent quality.

For ALFAGOMMA this is just the start "do it right from the beginning".

IMPORTANT NOTE FOR USERS

Hose assemblies require caution in use not only to provide long service life but also to guard against potentially dangerous failure.

Serious injury, death and destruction of property can result from the rupture or blowing-apart of a hydraulic hose assembly that is damaged, worn out, badly assembled or installed incorrectly.

Users should follow good maintenance practices. Avoid expensive downtime by establishing a program of inspection, testing and replacement of hose assemblies before failure occurs; taking into account factors including: severity of application, frequency of equipment use, past performance of hose assemblies. Document your maintenance, inspections and testing.

Only properly trained persons should inspect, test or service hose assemblies and this training should be updated regularly.

Users should carefully observe the precautions listed below under "**be aware that**" as well as following closely our recommendations for the selection of hose and couplings. In addition, care should be taken not to exceed the minimum bend radius listed for each hose size and type. Maximum operating pressure should not exceed the pressures listed. Instruction for assembling fittings to different hoses should be followed carefully to ensure the safe performance of the complete assembly.

By following the recommendations on hose assembly routing and installation, improved safety and longer service life of any hose installation will result. Hydraulic fluid under pressure can be potentially dangerous!!

An explosive burst or stream of escaping fluid can cause damage to equipment as well as serious injury to persons nearby.

BE AWARE THAT...

1. Highly pressurised fluid escaping from a small pinhole can be almost invisible and, yet, exert extreme force capable of penetrating the skin and other body tissues, causing possible severe injury.
2. Hot fluids or chemicals can cause severe burns. Pressurised fluids, if released uncontrolled, can exert a tremendous explosive force.
3. All hydraulic hoses listed in this catalogue are electrically conductive.

4. Some hydraulic fluids are highly flammable.

AND...

1. Always position a shield between you and any pressurised hydraulic lines when working next to them... or shut the pressure off.
2. Wear safety glasses.
3. Do not use your hands to check for leaks. Instead, use a piece of cardboard. Do not touch a pressurised hydraulic hose assembly with any part of your body, if fluid punctures the skin, even if no pain is felt, a serious emergency exists.
Obtain medical assistance immediately. Failure to do so can result in loss of the injured body part or death.
4. Stay out of hazardous areas while testing hose assemblies under pressure. Use proper safety protection.
5. If an injury or reaction occurs, get medical attention right away.
6. Use only non conductive thermoplastic hoses where electrical conductivity is not desired: for instance, equipment working on electric power lines.

ALFAGOMMA hoses and fittings are designed, engineered and tested to be used together in an assembly.

The use of ALFAGOMMA fittings on other manufactures' hoses or the use of ALFAGOMMA hoses with other manufactures' fittings may result in the production of unreliable or unsafe assemblies. It is neither recommended nor authorised by ALFAGOMMA.

ALFAGOMMA recommends only those hose and coupling combinations specified in the ALFAGOMMA Hydraulic Product Catalog.

ALFAGOMMA disclaims any liability for any hose assemblies which have not been produced in conformance with ALFAGOMMA assembly recommendations and current crimp data charts.

Extensive impulse testing has been performed by ALFAGOMMA to verify the recommendations contained in this catalogue. A simple burst or pressure test cannot determine a hose and coupling combination.

Any claim for defects must be made in writing on the appropriate ISO9000 complaint form within 8 days from receipt of the product. ALFAGOMMA will have a reasonable opportunity thereafter to examine and investigate the alleged defect.

The customer's exclusive remedy with respect to any claim of any kind whatsoever shall be refunded of the purchase price or replacement of the product at the option of ALFAGOMMA and in no event shall ALFAGOMMA be liable for any incidental or consequential damages whatsoever.

REFERENCE SPECIFICATIONS

SAE -	Society of Automotive Engineers	MSHA -	U.S. Mine Safety and Health Administration
DNV -	Det Norske Veritas	LOBA -	Landesobergamnt Nordrhein - Westfallen
EN -	European Norm	AS -	Australian Standard
DIN -	Deutsche Institute Normen	BV -	Bureau Veritas
CERCHAR -	Centre d'Etudes et Recherches Des Charbonnages de France	GL -	Germanischer Lloyd
		ISO -	International organization for Standardization

The listing below are intended only as guides in identifying which ALFAGOMMA hoses comply with requirements of various agencies.

Hose	SAE J517	EN	ISO	Alfagomma Proprietary Hose	DNV GL	ABS	BV	NKK	RINA	Lloyd's Register	MSHA ²	USDOT ³	TEST
Flexor 1TE/R6 HF	100 R6	854 R6											
Flexor 2TE HF		854 2TE											
Flexor 3TE/R3 HF	100 R3	854 3TE											
Flexor R4	100 R4						X						
Flexor 5	100 R5											X	
Flexor 7	100 R7	855 R7	3949										
Flexor 8	100 R8	855 R8											
Flexor 1SN-R1AT HF	100 R1AT	853 1SN	1436		X	X							
Flexor 1SN-R1AT MT	100 R1AT	853 1SN			X	X					X		
Flexor 1ST-R1AT	100 R1A	853 1ST	1436		X	X	X	X	X	X	X		
Flexor 2SN-R2AT HF	100 R2AT	853 2SN	1436		X	X							
Flexor 2SN-R2AT MT	100 R2AT	853 2SN			X	X					X		
Flexor 2ST-R2AT	100 R2A	853 2ST	1436		X	X	X	X	X	X	X		X
Flexopak PLT				X									
Flexopak 1SC		857 1SC	11237		X		X						
Flexopak 2	100 R16	857 2SC	11237		X				X		X		
Flexopak 2SC HF	100 R16	857 2SC	11237		X	X	X						
Flexor 4SP		856 4SP			X	X	X	X	X		X		X
Flexor 4SH		856 4SH			X	X	X	X	X	X	X		X
Flexor R12	100 R12	856 R12			X	X		X	X		X		
Flexor R13	100 R13	856 R13			X	X	X	X	X	X	X		X
Flexor R15	100 R15				X	X	X		X				
Alfabiotech 3000	EX SAE R12		18752	X							X		
Alfabiotech 4000			18752	X	X						X		
Alfabiotech 5000			18752	X	X						X		
Alfabiotech 5000P			18752	X	X						X		
Alfabiotech 6000	EX SAE R15		18752	X	X		X				X		
Alfatech 3000	100 R17	857 Ø 3/8"	11237	X		X					X		
Alfatech 7000				X							X		
Alfatech 8000				X							X		
Flexopak 2 HT	100 R16	857 2SC	11237										
Temp Tech 1SN	100 R1AT	853 1SN	1436	X	X								
Temp Tech 2SN	100 R2AT	853 2SN	1436	X									
Flexopak 2 LT	100 R16	857 2SC		X									
Alfaforest				X									
Flexor 4SP LT		856 4SP		X									
Flexor 4SH LT		856 4SH		X									
Alfajet 210				X									
Alfajet 400				X									

- 1- DNV approvals are with permanent (crimp) type fittings only
- 2- Hoses with MSHA approved cover are always branded "MSHA"
- 3- DOT Type All TYPE All FMVSS 106 approval up to size -12

Listing may vary by style and size, for current and complete information, contact ALFAGOMMA for details.

SAFETY GUIDE AND BASIC FACTORS FOR THE SELECTION, INSTALLATION AND MAINTENANCE OF HOSE AND HOSE ASSEMBLIES

A Hydraulic hose (and hose assemblies) has a limited life dependent on service conditions to which it is applied. Subjecting a hose (and hose assemblies) to conditions more severe than the recommended limits significantly reduce service life. Exposure to combinations of recommended limits (i.e., continuous use at maximum rated working pressure, maximum recommended operating temperature and minimum bend radius) will also reduce service life.

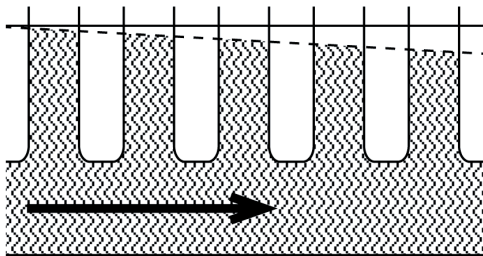
WARNING: FAILURE TO FOLLOW PROPER SELECTION, INSTALLATION AND MAINTENANCE PROCEDURES MAY RESULT IN PREMATURE FAILURES, BODILY INJURY, AND DAMAGE TO PROPERTY.

1. SELECTION - The following is a list of factors which must be considered before the selection of a hose can be made:

1.1 Line size

In order to achieve maximum efficiency in a hydraulic system, it is necessary to keep pressure losses (resistance to the volumetric flow) to a minimum when a fluid is conveyed by the different types of flow lines.

When a fluid flows through a flow line, heat is generated by friction. Thus part of the energy is lost as heat energy, which results in a pressure loss.



These pressure losses depend upon:

- flow velocity (for a given volumetric flow, the fluid flow velocity increases with a decrease in the cross sectional area of a flow line and vice versa)
- length of the flow line
- the viscosity of the fluid flowing
- the density of the fluid flowing
- the type of flow (laminar or turbulent)

Types of flow - The type of flow changes from laminar to turbulent at a certain flow velocity. This velocity is given by the Reynoldís Number Re.

For cylindrical flow lines the following formula applies:

$$Re = \frac{v \times d}{u} \quad \text{where: } v = \text{velocity (m/s)}$$

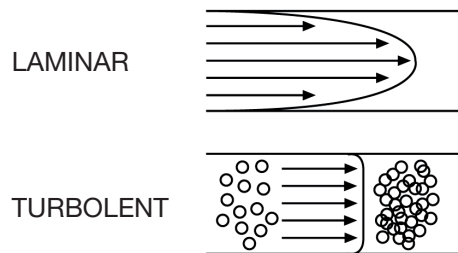
$$d = \text{flow line internal dia (m)}$$

$$u = \text{kinematic viscosity (m}^2\text{/s)}$$

As soon as the value for Re exceeds 2300, the laminar flow changes to turbulent flow.

Laminar flow - In laminar flow, the individual fluid particles move up to certain speeds in uniform layers alongside each other. They scarcely disturb or influence each other.

Turbulent flow - If the value for Re exceeds 2300, flow becomes whirling and turbulent. The individual particles no longer move in one direction in an orderly fashion, but influence and hinder each other.



Certain fluid flow velocities have proved to be most suitable for hydraulic flow lines.

Recommended flow velocities:

Suction lines:	0.5 ... 1.2 m/s	1.6 ... 4 feet/s
Return lines:	2 ... 3 m/s	6.5 ... 10 feet/s
Pressure lines:	4 ... 7.5 m/s	13...25 feet/s

It is therefore important to calculate correctly the required flow line sizes. Undersized pressure lines results in high fluid velocity causing an excessive pressure drop, and heat built up, which impair overall system performance. Undersized suction lines can cause cavitation at the hydraulic pump inlet, affecting performance, shortening pump life, and creating excessive noise levels.

The flow capacity nomogram on page () is an aid to determine the correct hose internal diameter size, desired flow rate and recommended velocity. By the use of any two known factors, the third can be determined.

1.2 Pressure:

After determining the system pressure for an hydraulic system, hose selection must be made so that the recommended maximum operating pressure specified by a given hose, is equal or greater than the system pressure. Dynamic pressure is common for all hydraulic systems. Pressure surges which exceed the maximum working pressure (pressure relief valve setting) affect the service life of system components, including a hose assembly and therefore need to be taken into consideration. Hoses used for suction lines must be selected to ensure the hose will withstand the negative pressure of the system.

1.3 Temperature:

Care must be taken to ensure that the operating temperature of the fluid being conveyed and ambient temperatures, do not exceed the limitations of the hose. Special care must be taken when routing near hot manifolds or molten metal.

1.4 Fluid Compatibility:

Hose selection must assure compatibility of the hose tube, cover, reinforcement, and fittings with the fluid used.

Additional caution must be observed in hose selection for gaseous applications. Some fire resistant fluids require the same hose as petroleum oil. Some use a special hose, while a few fluids will not work with any hose at all.

1.5 Permeation:

Permeation (that is, seepage through the hose) will occur from inside the hose to outside when hose is used with gases, liquid and gas fuels, and refrigerants (including but not limited to such materials such as helium, fuel oil, natural gas or freon). This permeation may result in high concentrations of vapours which are potentially flammable, explosive, or toxic, and in loss of fluid.

Even though the fluid compatibility is acceptable, you must take into account the fact that that permeation will occur and could be hazardous. Permeation of moisture from outside the hose to inside the hose will also occur. If this moisture permeation would have detrimental effects (particularly but not limited to refrigeration and air conditioning systems), incorporation of sufficient drying capacity in the system or other appropriate system safeguards should be selected and used.

1.6 Routing:

Attention must be given to optimum routing to minimise inherent problems. Restrain, protect or guide hose with the use of clamps if necessary to minimise risk or damage due to excessive flexing, whipping or contact with other moving parts or corrosives. Determine hose lengths and configurations that will result in proper routing and protection from abrasion, snagging or kinking and provide leak resistant connections.

1.7 Environment:

Care must be taken to ensure that the hose and fittings are either compatible with or protected from the environment to which they are exposed. Environmental conditions including but not limited to ultraviolet light, heat, ozone, moisture, water, salt water, chemicals, and air pollutants can cause degradation and premature failure and, therefore, must be considered.

1.8 Mechanical Loads:

External forces can significantly reduce hose life. Mechanical loads which must be considered include excessive flexing, twist, kinking, tensile or side loads, bend radius, and vibration. Use of swivel type fittings or adaptors may be required to ensure no twist is put into the hose. Unusual applications may require special testing prior to hose selection.

1.9 Abrasion:

While a hose is designed with a reasonable level of abrasion resistance, care must be taken to protect the hose from excessive abrasion which can result in erosion, snagging, and cutting of the hose cover. Exposure of the reinforcement will significantly accelerate hose failure.

1.10 Proper End Fitting:

Care must be taken to ensure proper compatibility exists between the hose and coupling selected based on the manufacturer's recommendations substantiated by testing to industry standards such as SAE J517
DIN 20024, JIS B 8360.

1.11 Length:

When establishing proper hose length, motion absorption, hose length changes due to pressure, as well as hose and machine tolerances must be considered.

1.12 Specifications and Standards:

When selecting hose and fittings, government, industry, and manufacturer's specifications and recommendations must be reviewed as applicable.

1.13 Hose Cleanliness:

Hose components may vary in cleanliness levels. Care must be taken to ensure that the assemblies selected have an adequate level of cleanliness for the application.

1.14 Welding and Brazing:

Heating of plated parts, including hose fittings and adaptors, above 232° C (450° F) such as during welding, brazing, or soldering may emit deadly gases.

1.15 Electrical Conductivity:

Certain applications require that a hose be nonconductive to prevent electrical current flow. Other applications require the hose to be sufficiently conductive to drain off static electricity.

Extreme care must be exercised when selecting hose and fittings for these or any other applications in which electrical conductivity or non-conductivity is a factor.

For application that require hose to be electrically nonconductive, including but not limited to applications near high voltage electric lines, only special non-conductive hose can be used.

The manufacturer of the equipment in which the nonconductive hose is to be used must be consulted to be certain that the hose and fittings that are selected are proper for the application.

Do not use any **ALFAGOMMA** hose or fitting for any application requiring non-conductive hose, including but not limited to applications near high voltage electric lines, unless the application is expressly approved in the **ALFAGOMMA** technical publication for the product, the SAFETY GUIDE hose is both orange in colour and marked "nonconductive", and the manufacturer of the equipment on which the hose is to be used specifically approves the particular **ALFAGOMMA** hose and fitting for such use.

ALFAGOMMA does not supply any hose or fittings for conveying paint in airless paint spraying or similar applications and therefore should not be used. A special hose and fitting assembly is required for this application, to avoid static electricity buildup which could cause a spark that may result in an explosion and/or fire.

The electrical conductivity or non-conductivity of hose and fittings is dependant upon many factors and may be susceptible to change. These factors include but are not limited to the various materials used to make the hose and the fittings, manufacturing methods (including moisture control), how the fittings contact the hose, age and amount of deterioration or damage or others changes, moisture content of the hose at and particular time, and others factors.

2. INSTALLATION - After the selection of the correct hose, the following factors must be considered prior to hose and fitting assembly and installation.

PTFE
HOSEStandard
FITTINGSInterlock
FITTINGSAlfacrimp
FITTINGS

Accessories

Stainless Steel
FITTINGSStandard
ADAPTERSORFS
ADAPTERSMETRIC - BSP
ADAPTERS

CRIMPERS

2.1 Pre-Installation Inspection:

Prior to installation, a careful examination of the hose must be performed. All components must be checked for correct style, size, and length. The hose must be examined for cleanliness, obstructions, blisters, cover looseness, or any other visible defects.

2.2 Hose and Fitting Assembly:

Do not assemble an **ALFAGOMMA** fitting on an **ALFAGOMMA** hose that is not specified by **ALFAGOMMA** for that hose. Do not assemble **ALFAGOMMA** fittings on another manufacturer's hose or an **ALFAGOMMA** hose on another manufacturer's fitting unless **ALFAGOMMA** approves the assembly in writing, and the user verifies the assembly and the application through analysis and testing. The **ALFAGOMMA** published hose assembly instructions must be followed for assembling the fittings on the hose.

2.3 Related Accessories:

Crimp or swage **ALFAGOMMA** hose or fittings only with **ALFAGOMMA** approved swage or crimp machines and in accordance with the **ALFAGOMMA** published hose assembly instructions.

2.4 Parts:

Do not use any **ALFAGOMMA** hose fitting part (including but not limited to sockets, or inserts) except with the correct **ALFAGOMMA** mating parts, in accordance with **ALFAGOMMA** published hose assembly

2.5 Reusable/Permanent:

Do not reuse any reusable hose coupling that has blown or pulled off a hose. Do not reuse an **ALFAGOMMA** permanent (that is, crimped or swaged) hose fitting or any part thereof.

2.6 Minimum Bend Radius:

Installation of a hose at less than the minimum listed bend radius may significantly reduce the hose life. Particular attention must be given to avoid sharp bending at the hose/fitting juncture.

2.7 Twist Angle and Orientation:

Hose installations must be such that relative motion of machine components does not produce twisting.

2.8 Securement:

In many applications, it may be necessary to restrain, protect, or guide the hose to protect it from damage by unnecessary flexing, pressure surges, and contact with other mechanical components. Care must be taken to ensure such restraints do not introduce additional stress or wear points.

2.9 Proper Connection of Ports:

Proper physical installation of the hose requires a correctly installed port connection while ensuring that no twist or torque is transferred to the hose.

2.10 External Damage:

Proper installation is not complete without ensuring that tensile loads, side loads, kinking, flattening, potential abrasion, thread damage, or damage to sealing surfaces are corrected or eliminated.

2.11 System Checkout:

After completing the installation all air entrapment must be eliminated and the system pressurised to the maximum system pressure and checked for proper function without any leaks. Personnel must stay out of potential hazardous areas while testing.

3. HOSE AND FITTING MAINTENANCE INSTRUCTIONS

Even with proper selection and installation, hose life may be significantly reduced without a continuing maintenance program. Frequency should be determined by the severity of the application and risk potential. A maintenance program must be established and followed to include the following as a minimum:

3.1 Visual Inspection Hose/Fitting:

Any of the following conditions require immediate shut down and replacement of the hose assembly:

- Fitting slippage on hose.
- Damaged, cut or abraded cover (any reinforcement exposed).
- Hard, stiff, heat cracked, or charred hose.
- Cracked, damaged, or badly corroded fittings.
- Leaks at fitting or in hose.
- Kinked, crushed, flattened or twisted hose.
- Blistered, soft, degraded, or loose cover.

3.3 Functional Test:

Stringere, riparare o sostituire le seguenti parti, a seconda della necessità:

- Attacco macchina, in caso di perdite
 - Morsetti, protezioni, schermi
- Pulire inoltre lo sporco in eccesso, e controllare il livello dei fluidi, il tipo di fluidi, ed ogni possibile occlusione all'interno del sistema.

3.3. Test di funzionalità:

Operate the system at maximum operating pressure and check for possible malfunctions and freedom from leaks. Personnel must stay out of potential hazardous areas while testing.

3.4 Replacement Intervals:

Specific replacement intervals must be considered based on previous service life, government or industry recommendations, or when failures could result in unacceptable downtime, damage, or injury risk.

Flow capacity nomogram

Flow Capacities of Hose at Recommended Flow Velocities

The chart below is provided as an aid in the determination of the correct hose size. **Example:** at 10 gallons per minute (gal/min), what is the proper hose size within the recommended velocity range for pressure lines?

Locate 10 gallons per minute in the left-hand column and 25 feet per second in the right-hand column (the maximum recommended velocity range for pressure lines).

Lay a straight line across these two points. The inside diameters shown in the centre column is above -8 so we have to use -10 (5/8"). For suction hose, follow the same procedure except use recommended velocity range for intake lines in the righthand column.

where Q = flow in gallons per minute (gal/min & l/min)
V = velocity in feet per seconds (fps & m/s)
d = hose inside diameter (mm & dash size)

TUYAUX
PTFE

Raccords
Standard

Raccords
Interlock

Raccords
Afacrimp

Accessoires

RACCORDS en
Acier Inoxydable

ADAPTATEURS
Standard

ADAPTATEURS
ORFS

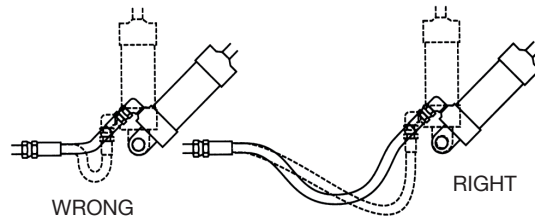
ADAPTATEURS
MÉTRIQUE-BSP

SERTISSEUSES

CORRECT ASSEMBLY INSTALLATION

Satisfactory performance and appearance depend upon proper hose installation. Excessive length destroys the trim appearance of an installation and adds unnecessarily to the cost of the equipment. Hose assemblies of insufficient length to permit adequate flexing, expansion or contraction will cause poor power transmission and shorten the life of the hose.

The diagrams below offer suggestions for proper hose installations to obtain the maximum in performance and economy.



Adequate hose length is most important to distribute movement on flexing applications and to avoid abrasion.

PTFE HOSE

Standard FITTINGS

Interlock FITTINGS

Alfacrimp FITTINGS

Accessories

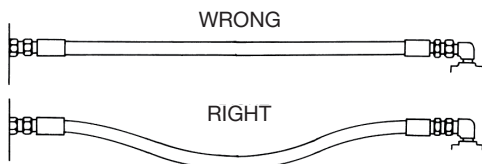
Stainless Steel FITTINGS

Standard ADAPTERS

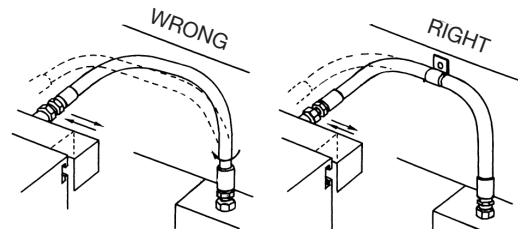
ORFS ADAPTERS

METRIC - BSP ADAPTERS

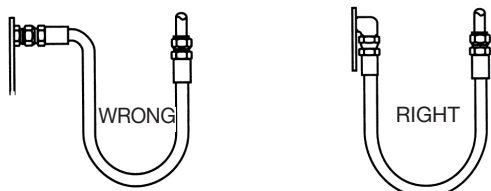
CRIMPERS



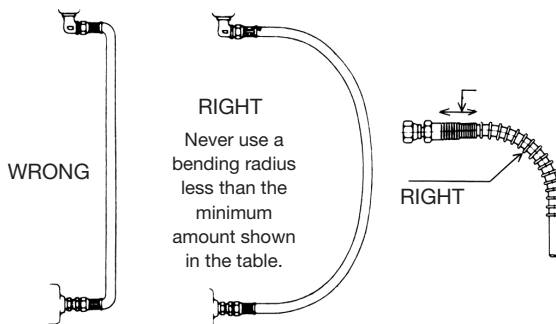
Since hose may change in length from +2% to -4% under the surge of high pressure, provide sufficient slack for expansion and contraction.



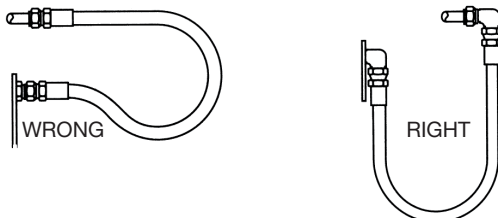
To avoid twisting in hose lines bent in two planes, clamp hose at change of plane, as shown.



Avoid sharp twist or bend in hose by using proper angle adapters.

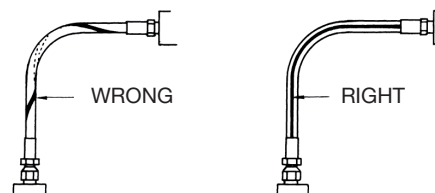
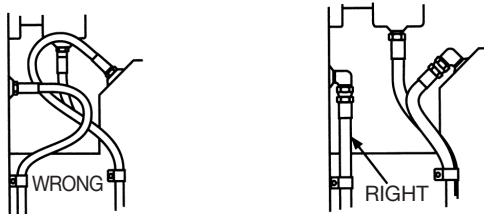


RIGHT
Never use a bending radius less than the minimum amount shown in the table.



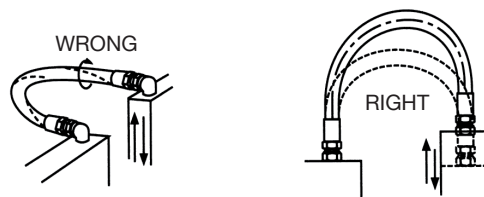
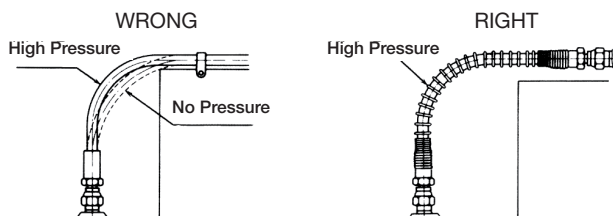
Where the radius falls below the required minimum, an angle adapter should be used as shown above to avoid sharp bends in hose.

To prevent twisting and distortion, hose should be bent in the same plane as the motion of the boss to which the hose is connected.



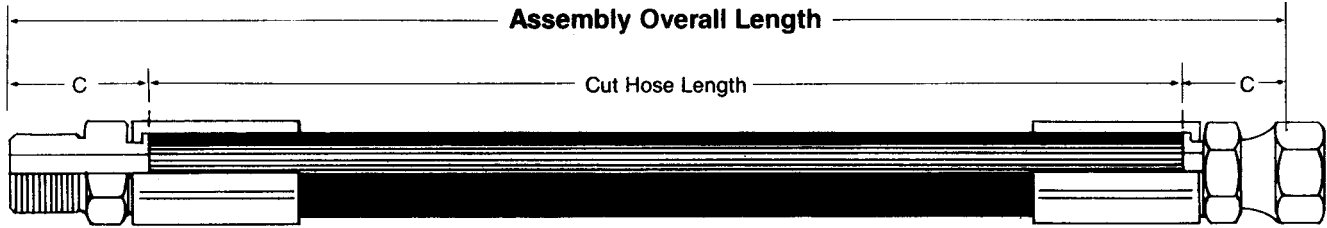
Hose should not be twisted. Hose is weakened when installed in twisted position. Also pressure in twisted hose tends to loosen fitting connections. Design so that machine motion produces bending rather than twisting.

Obtain direct routing of hose through use of 45° and 90° adapters and fittings. Improve appearance by avoiding excessive hose length.



Never use a bending radius less than the minimum shown in the hose specification tables. Avoid sharp bend in hose to reduce collapsing of line and restriction of flow by using proper spring guard. Exceeding minimum bend radius will greatly reduce hose assembly life.

HOW TO DETERMINE CORRECT ASSEMBLY LENGTH

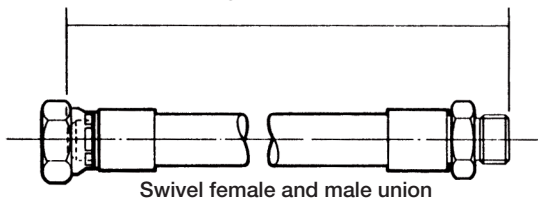


For most assemblies, the correct assembly length may be determined by direct measurement of the equipment or a drawing. Minimum bend radii as shown in the hose specification tables should be observed. Assemblies are measured to the end of the seal.

To determine the length of hose needed in making assemblies with permanent or reusable couplings, subtract Dimension "C" (Cut off factor) for each coupling from the required overall assembly length. Dimension "C" may be found in the coupling specification tables.

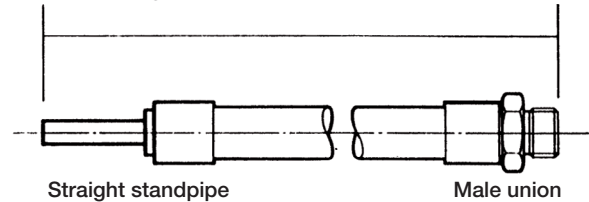
HOW TO MEASURE ASSEMBLIES

Length over nipples



Swivel female and male union

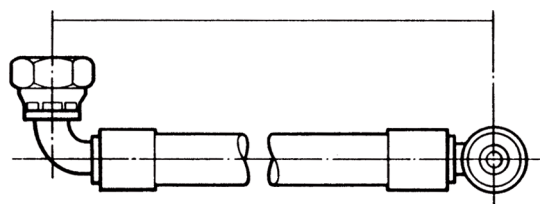
Length between S.P. and nipple ends



Straight standpipe

Male union

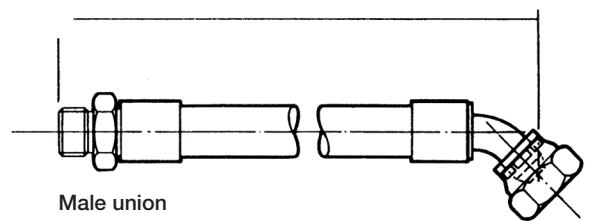
Length between centre lines of angle and banjo



Swivel female 90° swept union

Banjo coupling

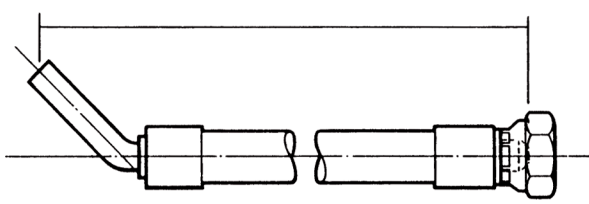
Length between male nipple and centre of female nipple



Male union

Swivel female 45° swept union

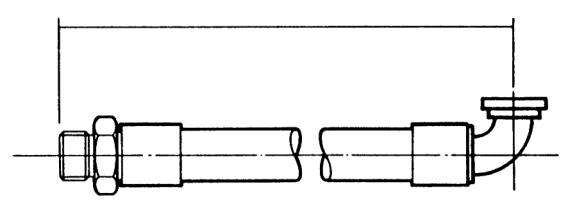
Length between centre lines of S.P. and end of nipple



45° standpipe

Swivel female union

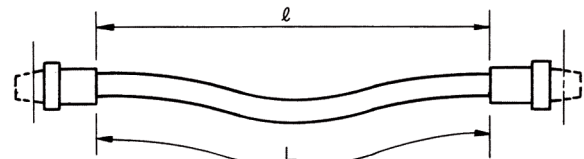
Length between centre of angle and nipple end



Male union

90° SAE flange

Remember that hydraulic hose under pressure will elongate up to 2% of its length or contract up to 4% depending on pressure, type and size. Sufficient allowance should be made to permit such changes in length.



$$L \geq l (1 + 0,04)$$

HOSE GUIDELINE

Occasionally an assembly will be required similar to the sketches to the right. The following equations are helpful in determining the correct length:

FOR 180° TURN APPLICATIONS

#1 $L = 2A + \pi R$

#2 $L = 2A + \pi R + T$

where:

L= overall length of the hydraulic hose assembly, in mm or inches.

A= allowance for a minimum straight section of hydraulic hose at each end of the assembly, measured from the outer end of each coupling, in mm or inches. These two straight sections are necessary to prevent excessive stress concentrations directly back of the couplings. See table below.

R= bending radius of the hose, in mm or inches. See hose specifications tables.

T= amount of travel, in mm or inches.

Often right angle adapters provide a convenient means of avoiding too small a bend radius.

Hose ID	in	1/4	5/16	3/8	1/2	5/8	3/4	1	1.1/4	1.1/2	2
	mm	6,4	7,9	9,5	12,7	15,9	19	25	31,8	38,1	50,8
Min "A"	in	5	5	5	6	6	7	8	9	10	11
	mm	127	127	127	152	152	178	203	229	254	279

Length Tolerance for Hydraulic Hose Assemblies and Specified Hose Lengths

Length

- For lengths from 0 up to and including 12" (305 mm)
- For lengths >12" (305 mm) £ 18" (457 mm)
- For lengths >18" (457 mm) £ 36" (914 mm)
- For lengths >36" (914 mm) £ 48" (1219 mm)
- For lengths >48" (1219 mm) £ 72" (1830 mm)
- For lengths >72" (1830 mm)

Tolerance

- ± 1/8" ± 3 mm
- ± 3/16" ± 5 mm
- ± 1/4" ± 6 mm
- ± 3/8" ± 10 mm
- ± 1/2" ± 13 mm
- ± 1%

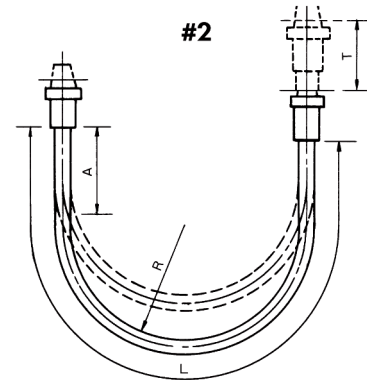
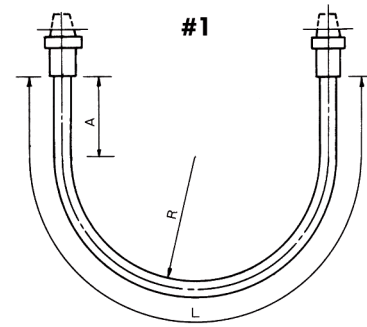
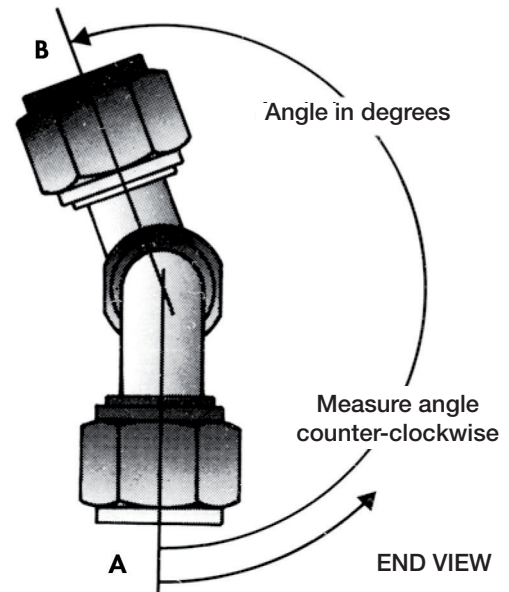
Elbow angle and angle of Orientation

Tolerance ±3

Angle Couplings

A - To measure angle of offset of a hose assembly, point one end of coupling "A" (the nearest) to a vertical position downward. The angle can then be measured from the centreline of this vertical coupling in an anticlockwise direction to the centreline of coupling "B" (the far coupling) (see illustration).

Relationships can then be expressed from 0° to 360°. If angle not given elbows are positioned at 0°.



ALFAGOMMA

**ALFAGOMMA TOP COAT
OVER 10 TIMES HIGHER
THAN STANDARD**



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Raccords
Interlock

Raccords
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Accessoires

RACCORDS en
acier inoxydable

ADAPTATEURS
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ADAPTATEURS
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SERTISSEUSES

■ TESTED IN ACCORDANCE WITH ASTM B117-03 AND UNI ISO 9927 STANDARDS

■ OVER 500 HOURS CORROSION PREVENTION IN SALT SPRAY FOG TO WHITE RUST

■ MORE THAN 1000 HOURS CORROSION RESISTANCE TO RED RUST

HOSES/TUYAUX

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THERMOPLASTIC / THERMOPLASTIQUE

-3	5	3/16	9,6	3000	12000	75	0,13	9	
-4	6	1/4	12,2	3000	12000	100	0,19	13	
-5	8	5/16	14,4	2500	10000	115	0,25	17	
-6	10	3/8	15,9	2250	9000	125	0,29	19	
-8	13	1/2	20,3	2000	8000	175	0,43	29	

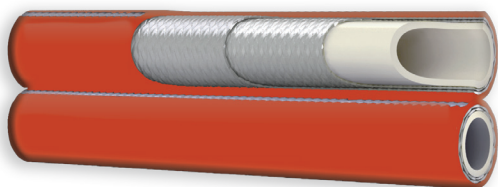
FERRULE	02	03	04	05	06	08	
H1200800	X	X	X	X	X	X	NS
H1200TPO		X	X	X	X	X	NS

7010T/FLEXOR 7

SAE 100 R7 - EN 855 R7

Non-Conductive Hydraulic Hose also available on request. Red Cover

Tuyau hydraulique-Non-conducteur aussi disponible sur demande. Couvert Rouge



701T-FLEXOR 7 - TWIN

SAE 100 R7 - EN 855 R7

Tube: polyester.

Reinforcement: one high tensile textile braid.

Cover: abrasion, ozone and hydrocarbon resistant polyurethane-pin pricked.

Application: MED pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

Constant operation: -40°C +93°C

Length: random

Tube: Thermoplastique polyester

Armature: 1 tresse polyester haute ténacité

Revêtement: Thermoplastique polyurethane micro-perforé résistant à l'abrasion, à l'ozone et aux hydrocarbures

Application: Circuits hydrauliques à pression moyenne, huile, anti-gel, air et eau

Température utilisation normale: -40°C +93°C

Longueur: aléatoire

-2	4	1/8	8,1	3000	12000	38	0,05	3	
-3	5	3/16	9,6	3000	12000	75	0,07	5	
-4	6	1/4	12,2	3000	12000	100	0,1	7	
-5	8	5/16	14,4	2500	10000	115	0,13	9	
-6	10	3/8	15,9	2250	9000	125	0,15	10	
-8	13	1/2	20,3	2000	8000	175	0,22	15	

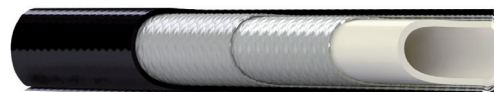
FERRULE	02	03	04	05	06	08	
H1200800	X	X	X	X	X	X	NS
H1200TPO		X	X	X	X	X	NS

7010/FLEXOR 7

SAE 100 R7 - EN 855 R7

Non-Conductive Hydraulic Hose also available on request. Red Cover

Tuyau hydraulique-Non-conducteur aussi disponible sur demande. Couvert Rouge



701-FLEXOR 7

SAE 100 R7 - EN 855 R7

Tube: polyester.

Reinforcement: one high tensile textile braid.

Cover: abrasion, ozone and hydrocarbon resistant polyurethane-pin pricked.

Application: medium pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

Constant operation: -40°C +93°C

Length: random

Tube: Thermoplastique polyester

Armature: 1 tresse polyester haute ténacité

Revêtement: Thermoplastique polyurethane micro-perforé résistant à l'abrasion, à l'ozone et aux hydrocarbures

Application: Circuits hydrauliques pression moyenne, huile, anti-gel, air et eau

Température utilisation normale: -40°C +93°C

Longueur: aléatoire

LEGEND: NS = NO SKIVE • SK = SKIVE • 2S = DOUBLE SKIVE

FLEXOR TWB1 ONE WIRE BRAID



Tube: polyester.

Reinforcement: one high tensile steel braid.

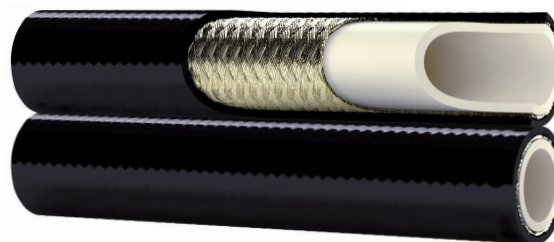
Cover: abrasion, ozone and hydrocarbon resistant polyurethane, non pin-pricked.

Application: high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

Constant operation: -40 °C +100 °C (-40 °F +212 °F)
air max T = +70 °C (+160 °F)

Item Code													
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000283	-4	6	1/4	11,7	0,46	31	4400	124	17600	40	1,57	0,17	11
1000284	-5	8	5/16	13,2	0,52	25	3600	100	14400	55	2,17	0,19	12
1000285	-6	10	3/8	15,5	0,61	22,5	3200	90	12800	65	2,56	0,23	17
1000286	-8	13	1/2	18,8	0,74	19	2700	76	10800	85	3,35	0,30	19

FLEXOR TWB1 - TWIN ONE WIRE BRAID



Tube: polyester.

Reinforcement: one high tensile steel braid.

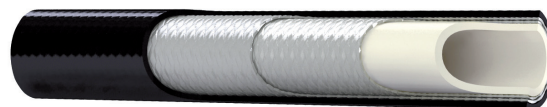
Cover: abrasion, ozone and hydrocarbon resistant polyurethane, non pin-pricked.

Application: high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

Constant operation: -40 °C +100 °C (-40 °F +212 °F)
air max T = +70 °C (+160 °F)

Item Code													
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000289	-4	6	1/4	11,7	0,46	31	4400	124	17600	40	1,57	0,33	22
1000288	-5	8	5/16	13,2	0,52	25	3600	100	14400	55	2,17	0,38	26
1000287	-6	10	3/8	15,5	0,61	22,5	3200	90	12800	65	2,56	0,46	31

MINIMESS (Pressure Test Point)



Tube: polyester.

Reinforcement: one high tensile textile braid.

Cover: abrasion, ozone and hydrocarbon resistant polyurethane, pin-pricked.

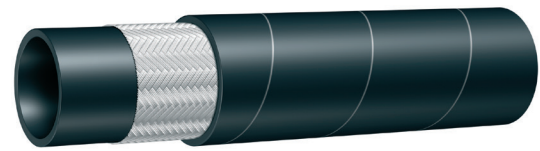
Application: high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Specially designed for pressure gauges and transducers connections.

Constant operation: -40 °C +100 °C (-40 °F +212 °F)
air max T = +70 °C (+160 °F)

Item Code													
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
1000310	-	2	5/64	5	0,2	63	9100	190	27300	20	0,79	0,02	1

Dash	mm	in	mm	psi	psi	mm	kg/m	lb/C ft
-4	6	1/4	12,7	400	1600	64	0,13	9
-5	8	5/16	14,3	400	1600	76	0,13	9
-6	10	3/8	15,9	400	1600	76	0,17	11
-8	13	1/2	19,8	400	1600	102	0,23	15
-10	16	5/8	23	350	1400	107	0,27	18
-12	19	3/4	26,9	300	1200	152	0,37	25
-16	25	1	33,4	250	1000	203	0,49	33

FERRULE	04	05	06	08	10	12	16	
H1100404	X	X	X	X	X	X	X	NS
H1100SK1	X	X	X	X	X	X	X	NS



T806AA/FLEXOR 6

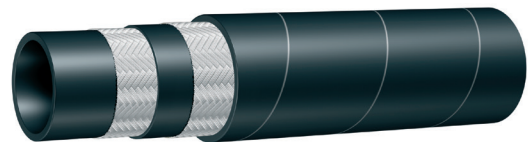
SAE 100 R6 - EN 854 R6 (fino 3/4")

Tube: oil resistant synthetic rubber.
Reinforcement: one high tensile textile braid.
Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber.
Application: low pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Specially designed for use in "PUSH ON" applications.
Constant operation: -40°C +100°C (air max T = +70°C)
Length: random

Tube: Caoutchouc synthétique résistant à l'huile
Armature: 1 tresse polyester haute ténacité
Revêtement: Caoutchouc synthétique résistant à l'abrasion, à l'ozone et aux hydrocarbures
Application: Circuits hydrauliques basse pression, huile, anti-gel, air et eau. Spécialement conçu pour applications "push-on"
Température utilisation normale: -40°C +100°C (T max air = +70°C)
Longueur: aléatoire

Dash	mm	in	mm	psi	psi	mm	kg/m	lb/C ft
-4	6	1/4	14,3	1250	5000	76	0,18	12
-5	8	5/16	17,5	1200	4800	102	0,24	16
-6	10	3/8	19,1	1125	4500	102	0,25	17
-8	13	1/2	23,8	1000	4000	127	0,38	25
-10	16	5/8	27	875	3500	140	0,46	31
-12	19	3/4	31,8	750	3000	152	0,63	42
-16	25	1	38,1	565	2260	203	0,76	51
-20	32	1.1/4	45	377	1508	254	0,94	63

FERRULE	04	05	06	08	10	12	16	20	
H1200203	X	X	X	X	X	X	X	X	NS



T870AA/FLEXOR 3

SAE 100 R3 - EN 854 R3

Tube: oil resistant synthetic rubber.
Reinforcement: two high tensile textile braids.
Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber.
Application: medium pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.
Constant operation: -40°C +100°C (air max T = +70°C)
Length: random

Tube: Caoutchouc synthétique résistant à l'huile
Armature: 2 tresses polyester haute ténacité
Revêtement: Caoutchouc synthétique résistant à l'abrasion, à l'ozone et aux hydrocarbures
Application: Circuits hydrauliques moyenne pression, huile, anti-gel, air et eau.
Température utilisation normale: -40°C +100°C (T max air = +70°C)
Longueur: aléatoire

LEGEND: NS = NO SKIVE • SK = SKIVE • 2S = DOUBLE SKIVE

WIRE BRAID / TRESSE D'ACIER

	↔		↔		↻	↻	↻	↻	↻
Dash	mm	in	mm	psi	psi	mm	kg/m	lb/C ft	
-3	5	3/16	11,8	3630	14520	90	0,18	12	
-4	6	1/4	13,4	3270	13080	100	0,22	15	
-5	8	5/16	15	3120	12480	115	0,26	17	
-6	10	3/8	17,4	2610	10460	130	0,33	22	
-8	13	1/2	20,6	2320	9280	180	0,42	28	
-10	16	5/8	23,7	1890	7560	200	0,51	34	
-12	19	3/4	27,7	1530	6120	240	0,62	42	
-16	25	1	35,6	1280	5120	300	0,92	62	
-20	32	1.1/4	43,5	920	3680	420	1,2	80	
-24	38	1.1/2	50,6	730	2920	500	1,48	99	
-32	51	2	64	580	2320	630	2	134	
-40	64	2.1/2	79	720	2880	760	2,89	194	
-48	76	3	92	500	2000	900	3,43	230	

FERRULE	03	04	05	06	08	10	12	16	20	24	32	
H1200AD1	X	X	X	X	X	X	X	X	X	X	X	NS
H1100SK1		X	X	X	X	X	X	X				SK
H1100404									X	X	X	SK
C12AXXXX		X	X	X	X	X	X	X				NS
C124AXXXX									X	X	X	NS



T835AA/FLEXOR 1SN - R1AT

ISO 1436-1 - SAE 100 R1AT/R1S EN 853
1SN (up to 2") . MSHA Available

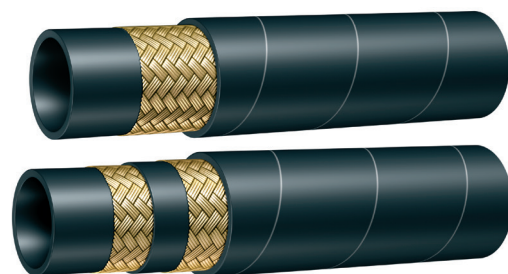
Tube: oil resistant synthetic rubber.
Reinforcement: one high tensile steel braid (1B).
Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber. **MSHA** approved cover also available.
Application: medium pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.
Constant operation: -40°C +100°C (air max T = +70°C)
Length: random up to 1" - 40m max over 1"1/4

Tube: Caouthouc synthétique résistant à l'huile
Armature: 1 tresse acier haute ténacité
Revêtement: Caouthouc synthétique résistant à l'abrasion, à l'ozone et aux hydrocarbures
Application: Circuits hydrauliques pression moyenne, huile, anti-gel, air et eau.
Température utilisation normale: -40°C +100°C (T max air = +70°C)
Longueur: aléatoire jusqu'à 1" - 40m max au-dessus de 1"1/4

	↔		↔		↻	↻	↻	↻	↻
Dash	mm	in	mm	psi	psi	mm	kg/m	lb/C ft	
-3	5	3/16	10,5	3000	12000	40	0,15	10	
-4	6	1/4	12,1	3250	13000	50	0,17	11	
-5	8	5/16	14,1	3100	12400	55	0,19	13	
-6	10	3/8	15,6	3000	12000	65	0,26	17	
-8	13	1/2	19,5	3000	12000	90	0,36	24	
-10	16	5/8	23,7	3000	12000	105	0,61	41	
-12	19	3/4	27,7	3500	14000	125	0,79	53	
-16	25	1	35,6	3000	12000	150	1,23	82	

* Spiral construction

FERRULE	04	05	06	08	10	12	16	20	24	32	
H1200101	X	X	X	X	X	X	X				NS
H1200AD1	X	X	X	X	X	X	X				NS
H1100404					X	X	X				SK
H1100SK1	X	X	X	X	X	X	X				SK
H1200204											NS
C12AXXXX	X		X	X	X	X	X				NS



T833AA/AT3K

MINETUFF MSHA Cover
MINETUFF Revêtement MSHA

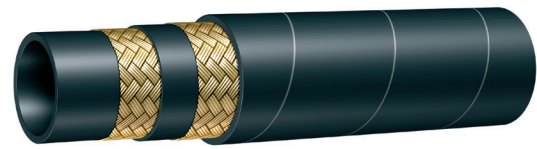
Tube: oil resistant synthetic rubber.
Reinforcement: one/two high tensile steel braids or four high tensile steel spirals (1B/2B, 4S).
Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber. Wire spiral hose **MSHA** approved.
Application: high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.
Constant operation: -40°C +100°C (air max T = 70°C)
Length: random up to 1" - 40m max over 1"
Note: specification reference.
 SAE 100 R17; ISO 11237; EN 857 1SC (1/4, 5/16, 3/8, 1/2); EN 857 2SC (3/4, 1); SAE 100 R12 (1.1/4)

Tube: Caouthouc synthétique résistant à l'huile
Armature: 1 ou 2 tresses acier haute ténacité, 4 nappes métalliques haute ténacité (1B/2B, 4S)
Revêtement: Caouthouc synthétique résistant à l'abrasion, à l'ozone et aux hydrocarbures.
 Construction en spirale; approuvé **MSHA**.
Application: Circuits hydrauliques haute pression, huile, anti-gel, air et eau.
Température utilisation normale: -40°C +100°C (T max air = +70°C)
Longueur: aléatoire
Note: specification reference.

LEGEND: NS = NO SKIVE • SK = SKIVE • 2S = DOUBLE SKIVE

Dash	↔		↔		⌚		⌚		⌒		kg/m	lb/C ft
	mm	in	mm	in	psi	psi	mm	in				
-4	6	1/4	13,4	0,53	6000	24000	51	2,0	0,26	17		
-5	8	5/16	15,0	0,59	5440	21750	57	2,2	0,31	21		
-6	10	3/8	17,4	0,69	5000	20300	64	2,5	0,39	26		
-8	13	1/2	20,6	0,81	4500	17900	90	3,5	0,52	35		
-10	16	5/8	23,7	0,93	4100	16240	101	4,0	0,60	40		
-12	19	3/4	27,7	1,09	3500	14000	121	4,8	0,78	52		
-16	25	1	35,6	1,40	3000	12000	152	6,0	1,23	83		
-20	32	1 1/4	43,3	1,70	2100	8400	210	8,3	1,50	101		
-24	38	1 1/2	49,9	1,96	1800	7200	430	16,9	1,97	132		
-32	51	2	63,5	2,50	1450	5800	550	21,6	2,55	171		
-40	63	2 1/2	76,4	3,01	1100	4400	720	28,3	3,30	221		
-48	76	3	90,0	3,54	1000	4000	880	34,6	3,85	258		

Also available in Low Temp (8U1AA)
-55°C +100°C (-67 °F +212 °F)
 Aussi Disponible en Température basse (8U1AA)
-55°C +100°C (-67 °F +212 °F)



T8N6AA/FLEXOPAK 2SK

MINETUFF MSHA Cover

MINETUFF Revêtement MSHA

ISO 11237 - SAE 100 R16S - EN 857 2SK

Tube: oil resistant synthetic rubber.

Reinforcement: two high tensile steel braids (2B).

Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber.

Application: high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

Constant operation: -40°C +100°C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

Length: random

Tube: Caoutchouc synthétique résistant à l'huile

Armature: 2 tresses acier haute ténacité

Revêtement: Caoutchouc synthétique résistant à l'abrasion, à l'ozone et aux hydrocarbures

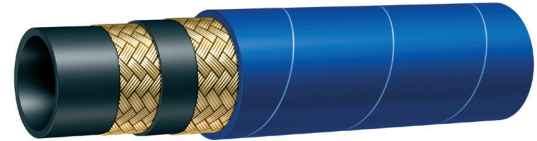
Application: Circuits hydrauliques haute pression, huile, anti-gel, air et eau.

Température utilisation normale: -40°C +100°C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

Longueur: aléatoire

Dash	↔		↔		⌚		⌚		⌒		kg/m	lb/C ft
	mm	in	mm	in	psi	psi	mm	in				
-4	6	1/4	13,4	0,53	6000	24000	51	2,0	0,26	17		
-5	8	5/16	15,0	0,59	5440	21750	57	2,2	0,31	21		
-6	10	3/8	17,4	0,69	5000	20300	64	2,5	0,39	26		
-8	13	1/2	20,6	0,81	4500	17900	90	3,5	0,52	35		
-10	16	5/8	23,7	0,93	4100	16240	101	4,0	0,60	40		
-12	19	3/4	27,7	1,09	3500	14000	121	4,8	0,78	52		
-16	25	1	35,6	1,40	3000	12000	152	6,0	1,23	83		
-20	32	1 1/4	43,3	1,70	2100	8400	210	8,3	1,50	101		
-24	38	1 1/2	49,9	1,96	1800	7200	430	16,9	1,97	132		
-32	51	2	63,5	2,50	1450	5800	550	21,6	2,55	171		
-40	63	2 1/2	76,4	3,01	1100	4400	720	28,3	3,30	221		
-48	76	3	90,0	3,54	1000	4000	880	34,6	3,85	258		



8X5AE/FLEXOPAK 2SK

HIGH TEMP

MINETUFF MSHA Cover

MINETUFF Revêtement MSHA

ISO 11237 - SAE 100 R16S - EN 857 2SK

Tube: oil resistant synthetic rubber.

Reinforcement: two high tensile steel braids (2B).

Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber.

Application: high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

Constant operation: -40°C +135°C (-40 °F +275 °F)

air max T = +70 °C (+160 °F)

Length: random

Tube: Caoutchouc synthétique résistant à l'huile

Armature: 2 tresses acier haute ténacité

Revêtement: Caoutchouc synthétique résistant à l'abrasion, à l'ozone et aux hydrocarbures

Application: Circuits hydrauliques haute pression, huile, anti-gel, air et eau.

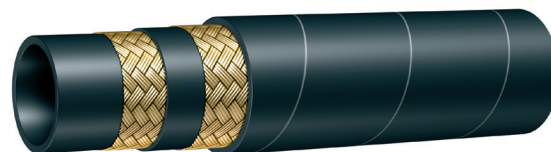
Température utilisation normale: -40°C +135°C (-40 °F +275 °F)

air max T = +70 °C (+160 °F)

Longueur: aléatoire

Dash		mm		in		Mpa		psi		mm		in		kg/m		lb/C ft	
-4	6	1/4	14,5	0,57	40	5800	160	23200	100	4	0,33	22					
-5	8	5/16	16,1	0,63	35	5000	140	20000	115	4,6	0,35	23					
-6	10	3/8	18,5	0,73	33	4800	132	19200	125	5	0,46	31					
-8	13	1/2	21,4	0,84	27,5	4000	110	16000	175	7	0,53	36					
-10	16	5/8	24,6	0,97	25	3630	100	14520	200	8	0,67	45					
-12	19	3/4	29,0	1,14	21,5	3120	86	12480	240	9,6	0,85	57					
-16	25	1	36,8	1,45	16,5	2400	66	9600	300	12	1,25	84					
-20	32	1 1/4	46,4	1,83	12,5	1820	50	7280	420	16,8	1,54	103					
-24	38	1 1/2	53,7	2,11	9	1310	36	5240	500	20	2,03	136					
-32	51	2	65,9	2,59	8	1160	32	4640	630	25,2	2,76	185					

FERRULE	03	04	05	06	08	10	12	16	20	24	32	
H1200AD2		X	X	X	X	X	X	X				NS
H1100404	X	X	X	X	X	X	X	X	X	X	X	SK
H1200204						X	X	X	X			NS
C12AXXXX		X	X	X	X	X	X	X				NS
C124XXXX						X	X	X	X	X	X	NS



T8Z7AA FLEXOR 2SN - R2AT

MINETUFF MSHA Cover

MINETUFF Revêtement MSHA

ISO 1436-1 - SAE 100 R2AT/R2S

EN 853 2SN

Tube: oil resistant synthetic rubber.

Reinforcement: two high tensile steel braids (2B).

Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber.

Application: high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.

MSHA APPROVED

Constant operation: -40 °C +100 °C (-40 °F +212 °F)

air max T = +70 °C (+160 °F)

Length: random up to 1" - 40m max over 1"1/4

Tube: Caoutchouc synthétique résistant à l'huile

Armature: 2 tresses acier haute ténacité

Revêtement: Caoutchouc synthétique résistant à l'abrasion, à l'ozone et aux hydrocarbures. Approuvé MSHA.

Application: Circuits hydrauliques haute pression, huile, anti-gel, air et eau.

Température utilisation normale: -40°C +100°C (T max air = +70°C)

Longueur: aléatoire jusqu'à 1" - 40m max au-dessus de 1" 1/4

TEXTILE BRAIDED COVER COVER TRESSER TEXTILE

Dash	mm	in	mm	in	mpa	psi	mpa	psi	mm	in	kg/m	lb/C ft
-4	5	3/16	13,2	0,52	20,7	3000	83	12000	76	3	0,23	15
-5	6	1/4	14,8	0,58	20,7	3000	83	12000	86	3,4	0,27	18
-6	8	5/16	17,3	0,68	15,5	2250	62	9000	102	4,1	0,34	23
-8	10	13/32	19,5	0,77	13,8	2000	55	8000	117	4,7	0,45	30
-10	13	1/2	23,4	0,92	12,1	1750	48	7000	140	5,6	0,56	37
-12	16	5/8	27,4	1,08	10,3	1500	41	6000	165	6,6	0,67	45
-16	22	7/8	31,4	1,24	5,5	800	22	3200	187	7,5	0,69	46
-20	29	1,1/8	38,1	1,50	4,3	625	17	2500	229	9,2	0,84	57
-24	35	1,3/8	44,5	1,75	3,4	500	14	2000	267	10,7	1,06	71
-32	46	1,13/16	56,4	2,22	2,4	350	10	1400	337	13,5	1,35	91

FERRULE	04	05	06	08	10	12	16*	20*	24*	32*	
H1200203	X	X	X	X	X	X	X	X	X		NS
H1100404										X	NS
H1100TX2	X	X	X	X	X	X	X	X	X		NS

*SPECIAL INSERT FOR R5 HOSE/EMBOU SPECIAL POUR R5



T8X8AE TEMP TECH R5 SAE 100 R5 -J1402 DOT AII FM VSS 106

Tube: oil resistant synthetic rubber.
Reinforcement: one high tensile steel braid.
Cover: braided high tensile textile cord.
Application: medium pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.
Constant operation: -40°C +150°C (-40°F +300°F)
 Air max T = +70°C (+160°F)
Length: random

Tube: Caoutchouc synthétique résistant à l'huile
Armature: 1 tresse acier haute ténacité
Revêtement: Tresses textiles haute ténacité
Application: Circuits hydrauliques moyenne pression, huile, anti-gel, air et eau.
Température utilisation normale: -40°C +150°C (-40°F +300°F)
 Operation constante: Max air T = +70°C (+160°F)
Longueur: aléatoire

Dash	mm	in	mm	in	mpa	psi	mpa	psi	mm	in	kg/m	lb/C ft
-4	5	3/16	13,2	0,52	20,7	3000	83	12000	76	3	0,23	15
-5	6	1/4	14,8	0,58	20,7	3000	83	12000	86	3,4	0,27	18
-6	8	5/16	17,3	0,68	15,5	2250	62	9000	102	4,1	0,34	23
-8	10	13/32	19,5	0,77	13,8	2000	55	8000	117	4,7	0,45	30
-10	13	1/2	23,4	0,92	12,1	1750	48	7000	140	5,6	0,56	37
-12	16	5/8	27,4	1,08	10,3	1500	41	6000	165	6,6	0,67	45
-16	22	7/8	31,4	1,24	5,5	800	22	3200	187	7,5	0,69	46
-20	29	1,1/8	38,1	1,50	4,3	625	17	2500	229	9,2	0,84	57
-24	35	1,3/8	44,5	1,75	3,4	500	14	2000	267	10,7	1,06	71
-32	46	1,13/16	56,4	2,22	2,4	350	10	1400	337	13,5	1,35	91

FERRULE	04	05	06	08	10	12	16*	20*	24*	32*	
H1200203	X	X	X	X	X	X	X	X	X		NS
H1100404										X	NS
H1100TX2	X	X	X	X	X	X	X	X	X		NS

*SPECIAL INSERT FOR R5 HOSE/EMBOU SPECIAL POUR R5



T805AA/FLEXOR 5 SAE 100 R5

Tube: oil resistant synthetic rubber.
Reinforcement: one high tensile steel braid.
Cover: braided high tensile textile cord.
Application: medium pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.
Constant operation: -40°C +100°C (air max T = +70°C)
Length: random

Tube: Caoutchouc synthétique résistant à l'huile
Armature: 1 tresse acier haute ténacité
Revêtement: Tresses textiles haute ténacité
Application: Circuits hydrauliques moyenne pression, huile, anti-gel, air et eau.
Température utilisation normale: -40°C +100°C (T max air = +70°C)
Longueur: aléatoire

WIRE SPIRAL / NAPPES D'ACIER

Dash	mm	in	mm	psi	psi	mm	kg/m	lb/C ft
-4	6	1/4	17,9	6550	26200	150	0,58	39
-6	10	3/8	21,4	6450	25800	180	0,74	50
-8	13	1/2	24,6	6000	24000	230	0,88	59
-10	16	5/8	28,2	5000	20000	250	1,05	71
-12	19	3/4	32,2	5510	22040	300	1,44	96
-16	25	1	39,7	4640	18560	340	1,96	131



T850AA/FLEXOR 4SP

SAE 100 R10 - EN 856 4SP

Tube: oil resistant synthetic rubber.
Reinforcement: four high tensile steel spirals (4S).
Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber **MSHA** approved.
Application: very high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.
Constant operation: -40°C +100°C
Length: random

Tube: Caoutchouc synthétique résistant à l'huile
Armature: 4 nappes acier haute ténacité
Revêtement: Caoutchouc synthétique résistant à l'abrasion, à l'ozone et aux hydrocarbures
Application: Circuits hydrauliques très haute pression, huile, anti-gel, air et eau.
Température utilisation normale: -40°C +100°C
Longueur: random

Dash	mm	in	mm	psi	psi	mm	kg/m	lb/C ft
-12	19	3/4	32,2	6000	24000	280	1,57	106
-16	25	1	38,7	5500	22000	340	1,95	131
-20	32	1.1/4	45,5	5000	20000	460	2,47	165
-24	38	1.1/2	53,5	4200	16800	560	3,27	219
-32	51	2	68,1	3650	14600	700	4,67	313



T855AA/FLEXOR 4SH

EN 856 4SH

Tube: oil resistant synthetic rubber.
Reinforcement: four high tensile steel spirals (4S).
Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber **MSHA** approved.
Application: very high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.
Constant operation: -40°C +100°C
Length: random up to 1" - 40m max over 1"

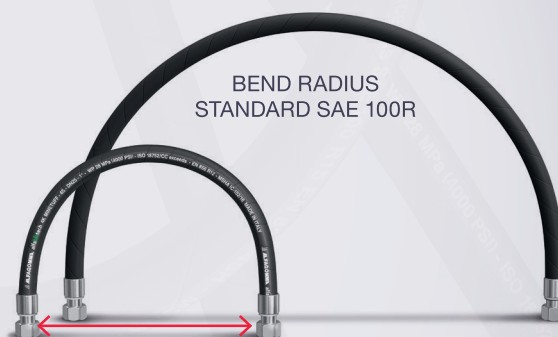
Tube: Caoutchouc synthétique résistant à l'huile
Armature: 4 nappes acier haute ténacité
Revêtement: Caoutchouc synthétique résistant à l'abrasion, à l'ozone et aux hydrocarbures
Application: Circuits hydrauliques très haute pression, huile, anti-gel, air et eau.
Température utilisation normale: -40°C +100°C
Longueur: random jusqu'au 1" - 40m max au-dessus de 1"

NEW EXTRA FLEXIBLE BIO OIL RESISTANT HOSE RANGE



alfabiotech

- ▲ SPECIALLY DESIGNED FOR BIO OIL FULL COMPATIBILITY
- ▲ EXTREME FLEXIBILITY: UP TO 50% BETTER BEND RADIUS COMPARED TO SAE 100R
- ▲ MINETUFF COVER FOR TOP ABRASION & OZONE RESISTANCE
- ▲ MSHA-APPROVED FIRE RESISTANT COVER



BEND RADIUS
STANDARD SAE 100R

BEND RADIUS: REDUCED UP TO 50%

TUYAUX
PTFE

Raccords
Standard

Raccords
Interlock

Raccords
Afacrimp

Accessoires

RACCORDS en
Acier Inoxydable

ADAPTATEURS
Standard

ADAPTATEURS
ORFS

ADAPTATEURS
MÉTRIQUE-BSP

SERTISSEUSES

ALFABIOTECH 3000/4000



ALFABIOTECH 3000 - MINETUFF

ISO 18752

EXCEEDS SAE 100 R12

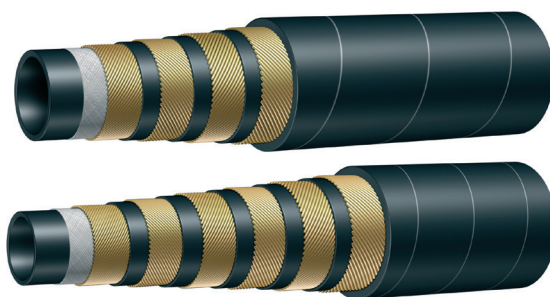
Tube: oil resistant synthetic rubber and biodegradable hydraulic fluids.

Reinforcement: four/six high tensile steel spirals.

Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber.

MSHA APPROVED

Application: developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.



Constr.	↔			↔		⌚		⌚		⌒		🏠	
	Dash	mm	inch	mm	inch	Mpa	psi	Mpa	psi	mm	inch	kg/m	lb/C ft
4S	-20	32	1 1/4	45,7	1,80	21	3045	84	12180	230	9,1	2,26	152
4S	-24	38	1 1/2	51,8	2,04	21	3045	84	12180	420	16,5	2,76	185
4S	-32	51	2	66,8	2,63	21	3045	84	12180	560	22,0	4,00	268
6S	-48	76	3	95,6	3,76	21	3045	84	12180	900	35,4	7,95	533

Dash	↔		↔		⌚		⌚		⌒		🏠	
	mm	in	mm	in	Mpa	psi	Mpa	psi	mm	in	kg/m	lb/C ft
-6	10	3/8	20,3	0,80	28	4000	112	16000	127	5,00	0,65	44
-8	13	1/2	23,8	0,94	28	4000	112	16000	178	7,01	0,81	54
-10	16	5/8	27,4	1,08	28	4000	112	16000	203	8,00	1,08	72
-12	20	3/4	29,5	1,16	28	4000	112	16000	120	4,72	1,23	83
-16	25	1	37,5	1,48	28	4000	112	16000	150	5,91	1,60	110
-20	32	1 1/4	45,5	1,79	28	4000	112	16000	260	10,24	2,25	151
-24	38	1 1/2	51,8	2,04	29	4140	112	16000	420	16,54	2,86	192
-32	51	2	66,8	2,63	28	4000	112	16000	530	20,87	4,47	300

FERRULE	04	05	06	08	10	12	16	20	24	32	
H1200204			X	X	X	X	X	X	X	X	NS
H1100404			X	X	X	X	X				SK
H1400200						X	X	X	X	X	2S
C124XXXX			X	X	X	X	X	X			NS



T8V7 ALFABIOTECH 4000

MINETUFF MSHA Cover

MINETUFF Revêtement MSHA

ISO18752 - EXCEEDS SAE 100 R12

Tube: oil resistant synthetic rubber and biodegradable hydraulic fluids

Reinforcement: four high tensile steel spirals (4S)

Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber **MSHA APPROVED**

Application: developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

Temperature: -40 °C +121 °C (-40 °F +250 °F)

Length: Random up to 1" - 61 m from 1 1/4" to 2"



Tube: Caoutchouc synthétique et biodégradable, résistant à l'huile

Armature: 4 nappes métalliques haute ténacité (4S)

Revêtement: Caoutchouc synthétique résistant à l'abrasion, à l'ozone et aux hydrocarbures. Construction en spirale; approuvé **MSHA**.

Application: développé pour résister à des conditions très exigeantes de très haute performance de la pression, impulsion et à la flexion.

Température utilisation normale: -40°C +121°C (-40°F +250°F)

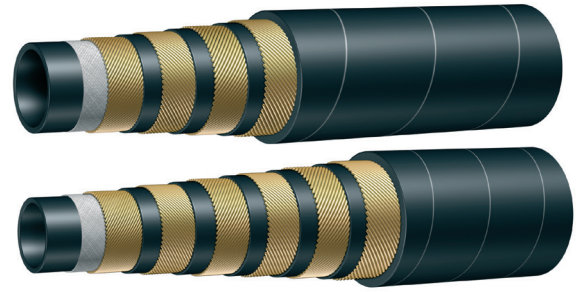
Longueur: aléatoire jusqu'à 1" - 61m de 1 1/4" à 2"

LEGEND: NS = NO SKIVE • SK = SKIVE • 2S = DOUBLE SKIVE

ALFABIOTECH 5000/6000

ALFAGOMMA

Constr.	Dash		mm		in		Mpa		psi		mm		in		kg/m	lb/C ft
4S	-10	16	5/8	25,9	1,02	35	5000	140	20000	140	5,51	0,87	58			
4S	-12	20	3/4	31,0	1,22	35	5000	140	20000	150	5,90	1,23	83			
4S	-16	25	1	37,8	1,49	35	5000	140	20000	180	7,09	1,68	113			
4S	-20	32	1 1/4	44,4	1,75	35	5000	140	20000	280	11,02	2,27	152			
6S	-24	38	1 1/2	56,5	2,22	35	5000	140	20000	500	19,69	4,48	301			
6S	-32	51	2	70,2	2,76	35	5000	140	20000	550	21,65	6,26	420			
6S	-48	76	3	95,6	3,76	35	5000	87,5*	12687	900	35,43	7,95	533			



T8V2 ALFABIOTECH 5000

T8V2 ALFABIOTECH 5000 - PLUS

MINETUFF MSHA Cover

MINETUFF Revêtement MSHA

Constr.	Dash		mm		in		Mpa		psi		mm		in		kg/m	lb/C ft
4S	-12	20	3/4	31,0	1,22	38	5500	152	22000	150	5,90	1,32	89			
4S	-16	25	1	38,3	1,51	38	5500	152	22000	180	7,09	1,93	130			

FERRULE	04	05	06	08	10	12	16	20	24	32	
H1100404	X	X	X	X	X	X	X	X	X	X	SK
H1400200						X	X	X			2S
H1400301									X	X	2S



MINETUFF MSHA Cover

MINETUFF Revêtement MSHA

ISO18752 - EXCEEDS SAE 100 R13

Tube: oil resistant synthetic rubber and biodegradable hydraulic fluids

Reinforcement: four/six high tensile steel spirals (4S/6S)

Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber **MSHA APPROVED**

Application: developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

Temperature: -40 °C +121 °C (-40 °F +250 °F)

Length: Random up to 1" - 61 m from 1 1/4" to 1 1/2" 30,5 m from 2" to 2 1/2"

Tube: Caoutchouc synthétique et biodégradable, résistant à l'huile

Armature: 4 ou 6 nappes métalliques haute ténacité (4S/6S)

Revêtement: Caoutchouc synthétique résistant à l'abrasion, à l'ozone et aux hydrocarbures. Construction en spirale; approuvé **MSHA**.

Application: développé pour résister à des conditions très exigeantes de très haute performance de la pression, impulsion et à la flexion.

Température utilisation normale: -40°C +121°C (-40°F +250°F)

Longueur: aléatoire jusqu'à 1" - 61m de 1 1/4" à 1" 1/2" 30,5m de 2" à 2 1/2"

Constr.	Dash		mm		in		Mpa		psi		mm		in		kg/m	lb/C ft
4S	-4	6	1/4	16,9	0,67	45	6525	180	26100	60	2,36	0,47	32			
4S	-6	10	3/8	19,9	0,78	44,5	6450	178	25800	75	2,95	0,55	37			
4S	-8	12	1/2	23,0	0,91	42	6000	168	24000	90	3,54	0,75	50			
4S	-10	16	5/8	28,0	1,10	42	6000	168	24000	180	7,09	1,19	80			
4S	-12	20	3/4	31,2	1,23	42	6000	168	24000	210	8,27	1,47	99			
4S	-16	25	1	37,8	1,49	42	6000	168	24000	280	11,02	2,03	136			
4S	-20	32	1 1/4	46,1	1,81	42	6000	168	24000	445	17,52	2,92	196			
6S	-20	32	1 1/4	49,4	1,94	42	6000	168	24000	445	17,52	3,47	233			
6S	-24	38	1 1/2	56,5	2,22	42	6000	168	24000	560	22,05	4,48	301			

FERRULE	04	05	06	08	10	12	16	20	24	32	
H1100404	X	X	X	X	X	X	X	X	X	X	SK
H1400200						X	X	X			2S
H1400301								X	X	X	2S



T8V3 ALFABIOTECH 6000

MINETUFF MSHA Cover

MINETUFF Revêtement MSHA

ISO18752 - EXCEEDS SAE 100 R15

Tube: oil resistant synthetic rubber and biodegradable hydraulic fluids

Reinforcement: four/six high tensile steel spirals (4S/6S)

Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber **MSHA APPROVED**

Application: developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

Temperature: -40 °C +121 °C (-40 °F +250 °F)

Length: Random up to 1" - 61 m from 1 1/4" to 1 1/2" 30,5 m for 2"

Tube: Caoutchouc synthétique et biodégradable, résistant à l'huile

Armature: 4 ou 6 nappes métalliques haute ténacité (4S/6S)

Revêtement: Caoutchouc synthétique résistant à l'abrasion, à l'ozone et aux hydrocarbures. Construction en spirale; approuvé **MSHA**.

Application: développé pour résister à des conditions très exigeantes de très haute performance de la pression, impulsion et à la flexion.

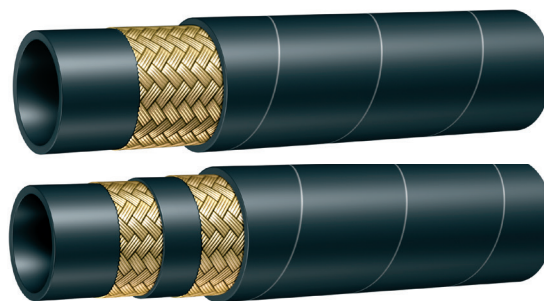
Température utilisation normale: -40°C +121°C (-40°F +250°F)

Longueur: aléatoire jusqu'à 1" - 61m de 1 1/4" à 1" 1/2" 30,5m de 2"

LEGEND: NS = NO SKIVE • SK = SKIVE • 2S = DOUBLE SKIVE

Constr.	mm	in	Dash	mm	in	Mpa	psi	Mpa	psi	mm	in	Kg/m	lb/ft	
1B	20	3/4	-12	25,8	1,02	5	725	40	6000	240	9,45	0,49	0,33	
1B	25	1	-16	32,1	1,26	5	725	40	6000	300	11,81	0,65	0,44	
1B	32	1 1/4	-20	39,5	1,56	5	725	40	6000	420	16,54	1,00	0,67	
2B	38	1 1/2	-24	48,8	1,92	5	725	40	6000	500	19,69	1,53	1,03	
2B	51	2	-32	62,8	2,47	5	725	40	6000	630	24,80	2,22	1,49	

FERRULE	04	05	06	08	10	12	16	20	24	32	
H1200AD1						X	X	X	X		NS
H1100104										X	SK



FLEXOR ELEVATOR EN 81.2

Tube: oil resistant synthetic rubber.
Reinforcement: one/two high tensile steel braids (1B/2B).
Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber.
Application: medium pressure hydraulic lines, fuel oil, antifreeze solutions, air and water.
Constant operation: -40°C +100°C (T air max = +70°C)
Temperature: -40°C +80°C (-40°F +176°F)
Length: Random

Tube: Caouthouc synthétique résistant à l'huile
Armature: 1 ou 2 tresses acier haute ténacité, (1B/2B)
Revêtement: Caoutchouc synthétique résistant à l'abrasion, à l'ozone et aux hydrocarbures.
 Construction en spirale; approuvé MSHA.
Application: Circuits hydrauliques haute pression, huile, anti-gel, air et eau.
Utilisation normale: -40°C +100°C (T max air = +70°C)
Température: -40°C +80°C (-40°F +176°F)
Longueur: aléatoire

Dash	mm	in	mm	in	Mpa	psi	Mpa	psi	mm	in	kg/m	lb/C ft
-12	19	3/4	29	1,14	2,1	300	8,4	1200	57	2,24	0,60	40
-16	25	1	35	1,38	1,7	250	6,8	1000	75	2,95	0,75	50
-20	32	1 1/4	42	1,65	1,4	200	5,6	800	96	3,78	0,90	60
-24	38	1 1/2	48	1,89	1,0	150	4	600	114	4,49	1,03	69
-32	51	2	61	2,40	0,7	100	2,8	400	153	6,02	1,33	89
-40	63	2 1/2	75	2,95	0,4	62	1,6	248	189	7,44	2,08	140
-48	76	3	88	3,46	0,4	56	1,6	224	228	8,98	2,48	166
-56	90	3 1/2	104	4,09	0,3	45	1,2	180	270	10,63	3,05	205
-64	102	4	116	4,57	0,2	30	0,8	120	306	12,05	3,41	229

FERRULE	12	16	20	24	32	40	48	56	64	
H1200203	X	X	X	X	X	X				NS



FLEXOR T604AA SAE 100 R4

Tube: oil resistant synthetic rubber.
Reinforcement: high tensile textile cords with embedded steel helix wire.
Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber.
Application: fuel, oil and hydraulic fluids suction and delivery with 50% max aromatic content. Specially designed for hydraulic oil return lines.
Constant operation: -40°C +100°C (-40°F +212°F)
Length: 61m max

Tube: Caouthouc synthétique résistant à l'huile
Armature: Nappes textiles haute ténacité avec spirales acier noyées
Revêtement: Caoutchouc synthétique résistant à l'abrasion, à l'ozone et aux hydrocarbures
Application: Tuyau d'aspiration et refoulement d'huiles hydrauliques et carburants à teneur en aromatique (50% maxi). Spécialement conçu pour applications hydrauliques de retour d'huile
Température utilisation normale: -40°C +100°C (-40°F +212°F)
Longueur: 61m max

LEGEND: NS = NO SKIVE • SK = SKIVE • 2S = DOUBLE SKIVE

Dash	mm	in	mm	psi	psi	mm	kg/m	lb/C ft	
-4	6	1/4	13,4	3270	13080	100	0,22	15	
-6	10	3/8	17,4	2610	10460	130	0,32	21	
-8	13	1/2	20,6	2320	9280	180	0,42	28	
-10	16	5/8	23,7	1890	7560	200	0,51	34	
-12	19	3/4	27,7	1530	6120	240	0,61	41	
-16	25	1	35,6	1280	5120	300	0,93	62	
-20	32	1.1/2	43,5	920	3680	420	1,29	86	
-24	38	1.1/2	50,6	730	2920	500	1,48	99	
-32	51	2	64	580	2320	630	2	134	



T814AE TEMP TECH 1SN

ISO 1436-1 - SAE 100 R1AT - EN 853 1SN

Tube: oil resistant synthetic rubber.
Reinforcement: one high tensile steel braid (1B).
Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber.
Application: medium pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Specially designed for high temperature applications.
Constant operation: -40°C +150°C (air max T = +110°C)
Length: random up to 1" - 40m max over 1"

Tube: Caoutchouc synthétique résistant à l'huile
Armature: 1 tresse acier haute ténacité
Revêtement: Caoutchouc synthétique résistant à l'abrasion, à l'ozone et aux hydrocarbures
Application: Circuits hydrauliques pression moyenne, huile, anti-gel, air et eau. Spécialement conçu pour applications hautes températures
Température utilisation normale: -40°C +150°C (T max air = +110°C)
Longueur: aléatoire jusqu'à 1" - 40m max au-dessus de 1"

TUYAUX
PTFE

Raccords
Standard

Raccords
Interlock

Raccords
Atacrimp

Accessoires

RACCORDS en
acier inoxydable

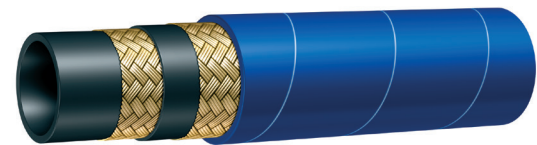
ADAPTATEURS
Standard

ADAPTATEURS
ORFS

ADAPTATEURS
MÉTRIQUE-BSP

SERTISSEUSES

Dash	mm	in	mm	psi	psi	mm	kg/m	lb/C ft	
-4	6	1/4	15	5800	23200	100	0,36	24	
-6	10	3/8	19,1	4800	19200	125	0,51	34	
-8	13	1/2	22,2	4000	16000	175	0,64	43	
-10	16	5/8	25,4	3630	14520	200	0,74	50	
-12	19	3/4	29,3	3120	12480	240	0,91	61	
-16	25	1	38,1	2400	9600	300	1,32	88	
-20	32	1.1/2	48,3	1820	7280	420	1,93	129	
-24	38	1.1/2	54,6	1310	5240	500	2,41	161	
-32	51	2	67,4	1160	4640	630	2,96	198	



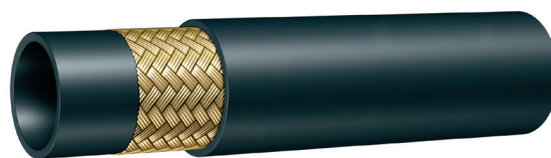
T828AE TEMP TECH 2SN

ISO 1436-1 - SAE 100 R2AT - EN 853 2SN

Tube: oil resistant synthetic rubber.
Reinforcement: two high tensile steel braid (2B).
Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber.
Application: high pressure hydraulic lines, fuel oil, antifreeze solutions, air and water. Specially designed for high temperature applications.
Constant operation: -40°C +150°C (air max T = +110°C)
Length: random up to 1" - 40m max over 1"

Tube: Caoutchouc synthétique résistant à l'huile
Armature: 2 tresses acier haute ténacité
Revêtement: Caoutchouc synthétique résistant à l'abrasion, à l'ozone et aux hydrocarbures
Application: Circuits hydrauliques haute pression, huile, anti-gel, air et eau. Spécialement conçu pour applications hautes températures
Température utilisation normale: -40°C +150°C (T max air = +110°C)
Longueur: aléatoire

Dash	mm	in	mm	psi	psi	mm	kg/m	lb/C ft	
-4	6	1/4	12,1	3000	12000	50	0,17	11	
-5	8	5/16	14,1	3000	12000	60	0,22	15	
-6	10	3/8	15,6	3000	12000	65	0,27	18	
-8	13	1/2	19,5	3000	12000	90	0,41	27	



T8B3AA (black) ALFAJET 210

Tube: oil, detergents and hot water resistant synthetic rubber.
Reinforcement: one high tensile steel braid (1B).
Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber. Pin-pricked. Blue cover also available
Application: high pressure power cleaners. specially designed for hot water applications. Not recommended for steam service.
Constant operation: -40°C +155°C
Length: random

Tube: Caouthouc synthétique résistant à l'huile, aux solvants et à l'eau chaude
Armature: 1 tresse acier haute ténacité
Revêtement: Caouthouc synthétique micro-perforé résistant à l'abrasion, à l'ozone et aux hydrocarbures
Application: Tuyau de nettoyage eau chaude à haute pression. Déconseillé pour utilisation vapeur
Température utilisation normale: -40°C +155°C
Longueur: aléatoire

FERRULE	04	05	06	08	10	12	16	20	24	32	
H1200AD1	X	X	X	X							NS
H1100SK1	X	X	X	X							SK
H1200101	X	X	X	X							NS
C12AXXXX	X	X	X	X							NS



T8B3AE (blue) ALFAJET 210

Dash	mm	in	mm	psi	psi	mm	kg/m	lb/C ft	
-4	6	1/4	13,4	5800	23200	70	0,27	18	
-5	8	5/16	15	5800	22000	76	0,32	21	
-6	10	3/8	17,4	5800	20000	90	0,4	27	
-8	13	1/2	20,6	5800	18000	115	0,53	36	

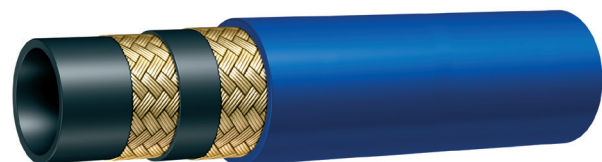


T8B4AA (black) ALFAJET 400

Tube: oil, detergents and hot water resistant synthetic rubber.
Reinforcement: two high tensile steel braids (2B).
Cover: abrasion, ozone and hydrocarbon resistant synthetic rubber. Pin-pricked. Blue cover also available
Application: high pressure power cleaners. specially designed for hot water applications. Not recommended for steam service.
Constant operation: -40°C +155°C
Length: random

Tube: Caouthouc synthétique résistant à l'huile, aux solvants et à l'eau chaude
Armature: 2 tresses acier haute ténacité
Revêtement: Caouthouc synthétique micro-perforé résistant à l'abrasion, à l'ozone et aux hydrocarbures
Application: Tuyau de nettoyage eau chaude à haute pression. Spécialement conçu pour applications avec eau chaude. Déconseillé pour utilisation vapeur
Température utilisation normale: -40°C +155°C
Longueur: aléatoire

FERRULE	04	05	06	08	10	12	16	20	24	32	
H1200AD1	X	X	X	X							NS
H1100SK1	X	X	X	X							SK
C12AXXXX	X	X	X	X							NS



T8B4AE (blue) ALFAJET 400

LEGEND: NS = NO SKIVE • SK = SKIVE • 2S = DOUBLE SKIVE

PTFE HOSE

Standard FITTINGS

Interlock FITTINGS

Alfacrimp FITTINGS

Accessories

Stainless Steel FITTINGS

Standard ADAPTERS

ORFS ADAPTERS

METRIC - BSP ADAPTER

CRIMPERS

WATERBLAST



WATERBLAST

The Dunlop Hiflex WATERBLAST range offers a simple, no-nonsense solution matching generic industry pressure rating, and is backed by 30 years' experience in the supply of fully tested and certified waterjetting hose assemblies to a worldwide market.

High-performance WATERBLAST hose features flexibility, light weight and durability and comes in four three pressure series carrying colour-coded branding for easy identification. Hose and fittings are concurrently engineered and manufactured from the highest quality materials, within recognised quality standards, to surpass industry specifications and deliver maximum reliability in service. All WATERBLAST hoses are designed with a safety factor of 2.5:1 in line with RMA (USA), BFPA (UK) and DIN (Germany) standards.

Waterblast Applications

✓ Surface Preparation	✓ Tank Cleaning
✓ Pavement Maintenance	✓ Hydrodemolition of Concrete
✓ Paint Removal	✓ WaterJets Texture Sandstone
✓ Corrosion and dust removal	✓ Water Jet Cutting of food and soft materials
✓ Welding residue, drawing compounds removal	✓ Abrasive Jet Cutting of Hard Materials

It is recommended that, in line with industry regulations, all WATERBLAST assemblies are pressure tested to 1.5 times the maximum working pressure.

1. The use of the hose above the maximum working pressure causes over-stressing of the reinforcement and will lead to premature failure.

Relief valves should be set to operate at 10% above the maximum working pressure. Pulsating pressures will also have the same effect on hoses by reducing life and should be controlled as far as possible.

2. Hoses change in length under pressure and this can be $\pm 2\%$. If allowance is not made for this the hose can rupture or pull out of its fittings, either of which could cause bodily injury to the operator. This contraction must be allowed for when using chains to clamp lengths together.

3. Fitting retention on hoses is particularly dependent on temperature. The basis for the WATERBLAST safety factor of 2.5:1 relies on temperatures not exceeding 70°C.

4. Fittings are designed to anchor on to hoses to resist the effects of pressure from inside the hose; they have not been designed for any other purpose. It is normal in waterblast operations to join several lengths of hose together. However it is not recommended that these lengths are permitted to hang. This puts a large stress on the highest fittings and restricts the natural ability of the hose to contract under pressure. Tensile loads of any kind should be avoided.

5. Physical damage to the hose caused by crushing or twisting will distort the reinforcement and lead to hose failure. Damage to the hose cover allowing water ingress will eventually lead to corrosion of the carbon steel wires. Damage to the cover is unavoidable, especially in contact with sharp edges. Once the cover has been damaged down to the wire the assembly should be replaced.

6. High-pressure water is dangerous. Always wear adequate protective clothing, boots and eye protection.

PTFE
HOSE

Standard
FITTINGS

Interlock
FITTINGS

Alfacrimp
FITTINGS

Accessories

Stainless Steel
FITTINGS

Standard
ADAPTERS

ORFS
ADAPTERS

METRIC - BSP
ADAPTER

CRIMPERS



WATERBLAST

Tube: oil and water resistant synthetic rubber
Reinforcement: four high tensile steel spirals
Cover: oil, water and ozone resistant synthetic rubber
Application: very high pressure water jetting
Constant operation: -10°C +70°C (14°F +158°F)
Safety Factor: 2.5:1

Tube: caoutchouc synthétique résistant à l'huile et à l'eau
Renfort: quatre spirales en acier à haute résistance
Revêtement: caoutchouc synthétique résistant à l'huile, à l'eau et à l'ozone
Application: projection d'eau à très haute pression
Opération constante: -10 ° C + 70 ° C (14°F +158°F)
Facteur de sécurité: 2.5: 1

WATERBLAST WB15

Part No.	Dash	↔		↔		WP MPa	WP psi	BP MPa	BP psi	BR mm	BR in	W kg/m	W lb/ft
		ID mm	ID in	OD mm	OD in								
8P7AA01000FKB8	06	10	3/8	21,4	0,84	125	16.000	275	40.000	150	6	0,85	0,57
8P7AA01200FKB8	08	13	1/2	25,4	1,00	110	16.000	275	40.000	200	8	1,26	0,85
8P7AA02000FKB8	12	19	3/4	31,8	1,25	100	14.500	250	36.250	280	11	1,78	1,20

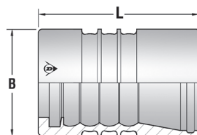
WATERBLAST WB20**

Part No.	Dash	↔		↔		WP MPa	WP psi	BP MPa	BP psi	BR mm	BR in	W kg/m	W lb/ft
		ID mm	ID in	OD mm	OD in								
8P8AA01200FEB8	08	13	1/2	29,5	1,16	140	20.000	350	50.000	200	8	1,75	1,18

** reinforcement: four high tensile steel spirals and one steel braid.

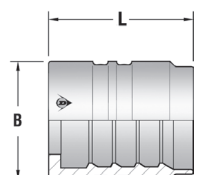
WATERBLAST FERRULES

990000 for WB 15



Item Code	Hose ID in	Hose ID mm	Dash	B mm	L mm
1215264	3/8	10,0	06	28,0	47,0
1223163	1/2	13,0	08	33,0	50,0
1215266	3/4	19,0	12	41,0	63,0
1215267	1	25,4	16	49,0	75,0

980000 for WB 20



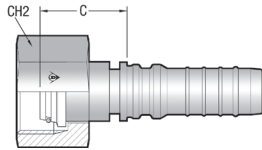
Item Code	Hose ID in	Hose ID mm	Dash	B mm	L mm
1215257	1/2	13,0	08	38	46,0

WATERBLAST FITTINGS

WATERBLAST INSERTS ARE MANUFACTURED USING A SPECIAL STEEL IN ORDER TO ENHANCE THE PERFORMANCE AND RELIABILITY OF THE PRODUCT

A99179

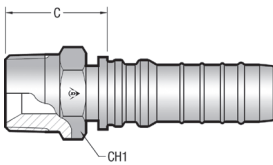
Metric Female 24° cone with O-Ring - Heavy - DIN 3865 DKOS Slip on nut with relief bore



Item Code	Hose ID in	Hose ID mm	Dash	Thread mm	C Cut-off mm	CH2 mm
1214929	3/8	9,5	06	22x1,5	42,5	27
1214930	3/8	9,5	06	24x1,5	42,5	30
1214931	1/2	12,7	08	24x1,5	47,0	30
1214932	3/4	19,0	12	36x2	64,2	46
1214933	1	25,4	16	42x2	73,4	50

990170

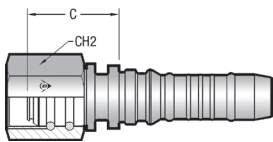
NPTF Male 60°



Item Code	Hose ID in	Hose ID mm	Dash	Thread in-TPI	Thread Dash	C Cut-off mm	CH1 mm
1215271	3/8	9,5	06	3/8-18	06	40,5	19
1215272	1/2	12,7	08	1/2-14	08	42,0	22
1215273	3/4	19,0	12	3/4-14	12	44,0	27
1215274	1	25,4	16	1-11	16	44,5	36

A99001

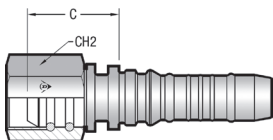
BSP Female 60°



Item Code	Hose ID in	Hose ID mm	Dash	Thread in-TPI	Thread Dash	C Cut-off mm	CH2 mm
1214925	3/8	9,5	06	3/8-19	06	32,0	22
1225828	1/2	12,7	08	1/2-14	08	36,0	30
1214927	3/4	19,0	12	3/4-14	12	37,5	36

A99061

Type "M" Swivel

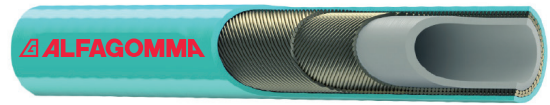


Item Code	Hose ID in	Hose ID mm	Dash	Thread in-TPI	Thread Dash	C Cut-off mm	CH2 mm
A99061-10-08	1/2	12,7	08	1-12	08	36,0	30

WATERBLAST

Le Dunlop Hiflex WATERBLAST (boyeau a haute pression) offre une gamme de solutions, simples et qui a un cote générique de pression de l'industrie. WATERBLAST est soutenu par 30 ans d'expérience dans la fourniture d'assemblages de tuyaux Waterjetting entièrement testés et certifiés pour un marché mondial. WATERBLAST est de haute-performance et de caractéristiques de flexibilité, légèreté et durabilité. Le tuyau viens en quatre series de trois pressions, portant un code de couleur pour une identification facile. Les tuyaux et les accessoires sont conçus et fabriqués en même temps à partir des matériaux de haute qualité, dans les normes de qualité reconnues, pour dépasser les spécifications de l'industrie en offrant une fiabilité maximale en service. Tous les tuyaux WATERBLAST sont conçus avec un facteur de sécurité de 2,5: 1 suivant les régulations de RMA (USA), BFFA (UK) et les normes DIN (Allemagne).

202 2SW - HELIX



Thermoplastic Hose for Ultra High Pressure Applications
Tuyau thermoplastique pour Applications sous haute pression extrême

Inner Tube: Thermoplastic polymer

Reinforcement: Two spiral layers of steel wire

Cover: Thermoplastic polymer turquoise, non pinpricked, black ink-jet branding

Application: Waterjet cutting. Tube cleaning, surface preparation and paint removal. Hydro demolition. Ships, tanks and vessel cleaning. Waterblast supply hose. General industrial cleaning. Removal of accumulated dirt from surfaces.

Temperature Range: -30°C to +70°C (-22°F to +158°F)

Tube: Polymère thermoplastique

Armature: Deux couches spirale de fil d'acier

Revêtement: Polymère thermoplastique turquoise, non micro-perforé, marque noire à jet d'encre

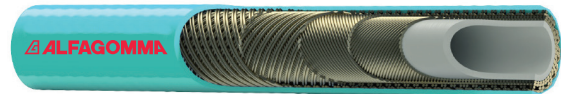
Application: Découpage a jet d'eau. Nettoyage de tube, préparation de surface et enlèvement de peinture. Hydro Démolition. Nettoyage de bateaux, réservoirs et navirs. Boyaux d'alimentation haute pression. Nettoyage industriel général. Élimination de la saleté accumulée sur les surfaces.

Plage de Température: -30°C to +70°C (-22°F to +158°F)

Part #	↔				↔				↻	↻	↻		↻	↻	Ferrule Part #		Safety Factor					
	Hose Size			ID		OD		bar			psi	bar			psi	mm		in	g/m	lb/ft	carbon	stainless
	Dash	in	DN	mm	in	mm	in															
202B	-	1/8	DN3	3,4	0,134	7,0	0,276	1040	15000	2600	37500	60	2,362	90	0,060	HAF1G1	-	2,5:1				
2020	-2	5/32	DN4	4,0	0,157	8,2	0,323	1200	17400	3000	43500	70	2,756	100	0,074	HAF101	HAA801	2,5:1				
2021	-3	3/16	DN5	5,0	0,197	9,8	0,386	1040	15000	2600	37500	90	3,543	150	0,101	HAF111	-	2,5:1				
2022	-4	1/4	DN6	6,2	0,244	11,5	0,453	1040	15000	2600	37500	110	4,331	210	0,141	HAF121	-	2,5:1				
2023	-5	5/16	DN8	7,9	0,311	13,7	0,539	900	13000	2250	32500	130	5,118	260	0,175	HAF131	-	2,5:1				
2024	-6	3/8	DN10	9,9	0,390	16,4	0,646	690	10000	1725	25000	150	5,906	320	0,215	HAF141	-	2,5:1				
2025	-8	1/2	DN12	12,8	0,504	20,4	0,803	690	10000	1725	25000	190	7,48	500	0,336	HAF151	-	2,5:1				

*The safety factor between the burst pressure and working pressure depend on the application requirements. Four to one safety factor should be used in dynamic impulsing hydraulic applications.

203 2+2SW - HELIX



Thermoplastic Hose for Ultra High Pressure Applications
Tuyau thermoplastique pour Applications sous haute pression extrême

Inner Tube: Thermoplastic polymer

Reinforcement: Two + two spiral layers of steel wire

Cover: Thermoplastic polymer turquoise, non pinpricked, black ink-jet branding

Application: Waterjet cutting. Tube cleaning, surface preparation and paint removal. Hydro demolition. Ships, tanks and vessel cleaning. Waterblast supply hose. General industrial cleaning. Removal of accumulated dirt from surfaces.

Temperature Range: -30°C to +70°C (-22°F to +158°F)

Tube: Polymère thermoplastique

Armature: Deux + deux couches spirale de fil d'acier

Revêtement: Polymère thermoplastique turquoise, non micro-perforé, marque noire à jet d'encre

Application: Découpage a jet d'eau. Nettoyage de tube, préparation de surface et enlèvement de peinture. Hydro Démolition. Nettoyage de bateaux, réservoirs et navirs. Boyaux d'alimentation haute pression. Nettoyage industriel général. Élimination de la saleté accumulée sur les surfaces.

Plage de Température: -30°C to +70°C (-22°F to +158°F)

Part #	↔				↔				↻	↻	↻		↻	↻	Ferrule Part #		Safety Factor					
	Hose Size			ID		OD		bar			psi	bar			psi	mm		in	g/m	lb/ft	carbon	stainless
	Dash	in	DN	mm	in	mm	in															
2030	-	5/32	DN4	4,0	0,157	10,3	0,406	1400	20300	3500	50750	60	2,362	180	0,121	HAB101	HAB801	2,5:1				
2032	-4	1/4	DN6	6,3	0,248	13,2	0,52	1280	18500	3200	46250	90	2,543	280	0,188	HAB121	HAB821	2,5:1				
2033	-5	5/16	DN8	7,9	0,311	15,4	0,606	1200	17400	3000	43500	100	3,937	370	0,249	HAB131	-	2,5:1				
2034	-6	3/8	DN10	9,9	0,39	18,2	0,717	1100	15900	2750	39750	120	4,724	520	0,349	HAB141	HAB841	2,5:1				
2035	-8	1/2	DN12	12,8	0,504	22,1	0,87	1040	15000	2600	37500	140	5,512	700	0,470	HAB151	HAB851	2,5:1				

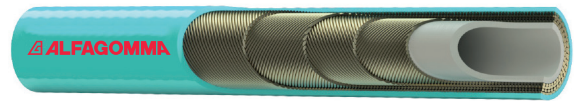
*The safety factor between the burst pressure and working pressure depend on the application requirements. Four to one safety factor should be used in dynamic impulsing hydraulic applications.

204 4SW - HELIX

Thermoplastic Hose for Ultra High Pressure Applications
Tuyau thermoplastique pour Applications sous haute pression extrême

Inner Tube: Thermoplastic polymer
Reinforcement: Four spiral layers of steel wire
Cover: Thermoplastic polymer turquoise, non pinpricked, black ink-jet branding
Application: Waterjet cutting. Tube cleaning, surface preparation and paint removal. Hydro demolition. Ships, tanks and vessel cleaning. Waterblast supply hose. General industrial cleaning. Removal of accumulated dirt from surfaces.
Temperature Range: -30°C to +70°C (-22°F to +158°F)

Tube: Polymère thermoplastique
Armature: Quatre couches spirale de fil d'acier
Revêtement: Polymère thermoplastique turquoise, non micro-perforé, marque noire à jet d'encre
Application: Découpage a jet d'eau. Nettoyage de tube, préparation de surface et enlèvement de peinture. Hydro Démolition. Nettoyage de bateaux, réservoirs et navirs. Boyaux d'alimentation haute pression. Nettoyage industriel général. Élimination de la saleté accumulée sur les surfaces.
Plage de Température: -30°C to +70°C (-22°F to +158°F)



Part #	↔				↔				bar	psi	bar	psi	↗		g/m	lb/ft	Ferrule Part #		Safety Factor
	Hose Size			ID		OD		mm					in	carbon			stainless		
	Dash	in	DN	mm	in	mm	in												
2040	-	5/32	DN4	4,0	0,157	10,1	0,398	2200	31900	5500	79750	120	4,724	210	0,141	HAC101	HAC801	2,5:1	
2041	-3	3/16	DN5	5,0	0,197	11,6	0,457	1800	26100	4500	65250	140	5,512	270	0,181	HAC111	HAC811	2,5:1	
2042	-4	1/4	DN6	6,2	0,244	13,3	0,524	1640	23700	4100	59250	170	6,693	400	0,269	HAC121	HAC821	2,5:1	
2043	-5	5/16	DN8	7,9	0,311	15,6	0,614	1500	21700	3750	54250	190	7,480	480	0,323	HAC131	HAC831	2,5:1	
2044	-6	3/8	DN10	9,9	0,390	18,8	0,740	1400	20300	3500	50750	190	7,480	710	0,477	HAC141	HAC841	2,5:1	
2045	-8	1/2	DN12	12,8	0,504	21,6	0,850	1300	18800	3250	47000	200	7,874	840	0,565	HAC151	HAC851	2,5:1	
2047	-12	3/4	DN20	18,8	0,740	30,0	1,181	1000	14500	2500	36250	250	9,843	1450	0,974	HAC171	-	2,5:1	
2048	-16	1	DN25	24,8	0,976	39,0	1,535	900	13000	2250	32500	300	11,811	2200	1,492	-	HAC881	2,5:1	

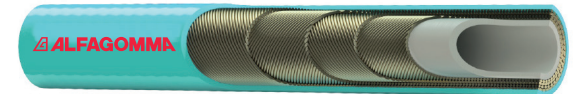
*The safety factor between the burst pressure and working pressure depend on the application requirements. Four to one safety factor should be used in dynamic impulsing hydraulic applications.

214 4SWH - HELIX

Thermoplastic Hose for Ultra High Pressure Applications
Tuyau thermoplastique pour Applications sous haute pression extrême

Inner Tube: Thermoplastic polymer
Reinforcement: Four spiral layers of steel wire
Cover: Thermoplastic polymer turquoise, non pinpricked, black ink-jet branding
Application: Waterjet cutting. Tube cleaning, surface preparation and paint removal. Hydro demolition. Ships, tanks and vessel cleaning. Waterblast supply hose. General industrial cleaning. Removal of accumulated dirt from surfaces.
Temperature Range: -30°C to +70°C (-22°F to +158°F)

Tube: Polymère thermoplastique
Armature: Quatre couches spirale de fil d'acier
Revêtement: Polymère thermoplastique turquoise, non micro-perforé, marque noire à jet d'encre
Application: Découpage a jet d'eau. Nettoyage de tube, préparation de surface et enlèvement de peinture. Hydro Démolition. Nettoyage de bateaux, réservoirs et navirs. Boyaux d'alimentation haute pression. Nettoyage industriel général. Élimination de la saleté accumulée sur les surfaces.
Plage de Température: -30°C to +70°C (-22°F to +158°F)



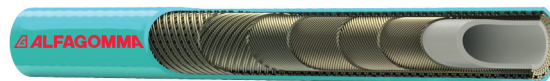
Part #	↔				↔				bar	psi	bar	psi	↗		g/m	lb/ft	Ferrule Part #		Safety Factor
	Hose Size			ID		OD		mm					in	carbon			stainless		
	Dash	in	DN	mm	in	mm	in												
2145	-8	1/2	DN12	12,8	0,504	22,5	0,886	1400	20300	3500	50750	180	7,087	970	0,652	HAD151	-	2,5:1	

*The safety factor between the burst pressure and working pressure depend on the application requirements. Four to one safety factor should be used in dynamic impulsing hydraulic applications.

205

4+SW - HELIX

Thermoplastic Hose for Ultra High Pressure Applications
Tuyau thermoplastique pour Applications sous haute pression extrême



Inner Tube: Thermoplastic polymer
Reinforcement: Four + two spiral layers of steel wire
Cover: Thermoplastic polymer turquoise, non pinpricked, black ink-jet branding
Application: Waterjet cutting. Tube cleaning, surface preparation and paint removal. Hydro demolition. Ships, tanks and vessel cleaning. Waterblast supply hose. General industrial cleaning. Removal of accumulated dirt from surfaces.
Temperature Range: -30°C to +70°C (-22°F to +158°F)

Tube: Polymère thermoplastique
Armature: Quatre + deux couches spirale de fil d'acier
Revêtement: Polymère thermoplastique turquoise, non micro-perforé, marque noire à jet d'encre
Application: Découpage à jet d'eau. Nettoyage de tube, préparation de surface et enlèvement de peinture. Hydro Démolition. Nettoyage de bateaux, réservoirs et navirs. Boyaux d'alimentation haute pression. Nettoyage industriel général. Élimination de la saleté accumulée sur les surfaces.
Plage de Température: -30°C to +70°C (-22°F to +158°F)

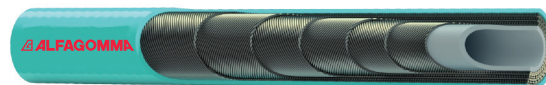
Part #	↔		↔		bar	psi	bar	psi	↗		g/m	lb/ft	Ferrule Part #		Safety Factor			
	Hose Size		ID						OD				↘			carbon	stainless	
	Dash	in	DN	mm					in	mm			in	mm		in		
2057	-12	3/4	DN20	18,80	0,740	32,6	1,283	1200	17400	3000	43500	170	6,693	1860	1,250	HAG171	-	2,5:1

*The safety factor between the burst pressure and working pressure depend on the application requirements. Four to one safety factor should be used in dynamic impulsing hydraulic applications.

206

6SW - HELIX

Thermoplastic Hose for Ultra High Pressure Applications
Tuyau thermoplastique pour Applications sous haute pression extrême



Inner Tube: Thermoplastic polymer
Reinforcement: Six spiral layers of steel wire
Cover: Thermoplastic polymer turquoise, non pinpricked, black ink-jet branding
Application: Waterjet cutting. Tube cleaning, surface preparation and paint removal. Hydro demolition. Ships, tanks and vessel cleaning. Waterblast supply hose. General industrial cleaning. Removal of accumulated dirt from surfaces.
Temperature Range: -30°C to +70°C (-22°F to +158°F)

Tube: Polymère thermoplastique
Armature: Six couches spirale de fil d'acier
Revêtement: Polymère thermoplastique turquoise, non micro-perforé, marque noire à jet d'encre
Application: Découpage à jet d'eau. Nettoyage de tube, préparation de surface et enlèvement de peinture. Hydro Démolition. Nettoyage de bateaux, réservoirs et navirs. Boyaux d'alimentation haute pression. Nettoyage industriel général. Élimination de la saleté accumulée sur les surfaces.
Plage de Température: -30°C to +70°C (-22°F to +158°F)

Part #	↔		↔		bar	psi	bar	psi	↗		g/m	lb/ft	Ferrule Part #		Safety Factor			
	Hose Size		ID						OD				↘			carbon	stainless	
	Dash	in	DN	mm					in	mm			in	mm		in		
2060	-	5/32	DN4	4,0	0,157	11,5	0,453	2800	40600	7000	101500	170	6,693	360	0,242	HAE101	-	2,5:1
2061	-3	3/16	DN5	5,0	0,197	14,4	0,567	2500	36200	6250	90500	190	7,480	550	0,370	HAE111	HAE811	2,5:1
2063	-5	5/16	DN8	7,9	0,311	17,3	0,681	2100	30400	5250	76000	240	9,449	770	0,517	HAE131	-	2,5:1
2064	-6	3/8	DN10	9,9	0,390	20,8	0,819	1920	27800	4800	69500	250	9,843	1070	0,719	HAE111	-	2,5:1
2065	-8	1/2	DN12	12,8	0,504	24,5	0,965	1800	26100	4500	65250	300	11,811	1570	1,055	HAE151	HAE151	2,5:1
2067	-12	3/4	DN20	18,8	0,740	33,0	1,331	1400	20300	3500	50750	350	13,780	2300	1,545	HAE171	-	2,5:1
2068	-16	1	DN25	24,8	0,976	42,0	1,654	1200	17400	3000	43500	600	23,622	2570	1,727	HAE181	-	2,5:1

*The safety factor between the burst pressure and working pressure depend on the application requirements. Four to one safety factor should be used in dynamic impulsing hydraulic applications.

216

6SWH - HELIX

Thermoplastic Hose for High Pressure Applications

Tuyau thermoplastique pour Applications sous haute pression



Inner Tube: Thermoplastic polymer

Reinforcement: Six spiral layers of steel wire

Cover: Thermoplastic polymer red, non pinpricked, black ink-jet branding

Application: Waterjet cutting. Tube cleaning, surface preparation and paint removal. Hydro demolition. Ships, tanks and vessel cleaning. Waterblast supply hose. General industrial cleaning. Removal of accumulated dirt from surfaces.

Temperature Range: -30°C to +70°C (-22°F to +158°F)

Tube: Polymère thermoplastique

Armature: Six couches spirale de fil d'acier

Revêtement: Polymère thermoplastique, rouge, non micro-perforé, marque noire à jet d'encre

Application: Découpage à jet d'eau. Nettoyage de tube, préparation de surface et enlèvement de peinture. Hydro Démolition. Nettoyage de bateaux, réservoirs et navirs. Boyaux d'alimentation haute pression. Nettoyage industriel général. Élimination de la saleté accumulée sur les surfaces.

Plage de Température: -30°C to +70°C (-22°F to +158°F)

Part #	↔		↔		↔		↔		↔		↔		↔		↔		↔		Safety Factor
	Hose Size			ID		OD		↔		↔		↔		↔		Ferrule Part #			
	Dash	in	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	g/m	lb/ft	carbon	stainless		
2161	-3	3/16	DN5	5,0	0,197	14,4	0,567	2800	40600	7000	101500	210	8,268	600	0,403	HAF111	-	2,5:1	
2162	-4	1/4	DN6	6,2	0,244	16,6	0,654	2800	40600	7000	101500	250	9,843	770	0,517	HAF121	-	2,5:1	
2163	-5	5/16	DN8	7,9	0,311	19,0	0,748	2500	36200	6250	90500	250	9,843	980	0,659	HAF131	-	2,5:1	
2165	-8	1/2	DN12	12,8	0,504	23,4	0,921	2000	29000	5000	72500	300	11,811	1660	1,116	HAF151	-	2,5:1	

*The safety factor between the burst pressure and working pressure depend on the application requirements. Four to one safety factor should be used in dynamic impulsing hydraulic applications.

TUYAUX
Hydraulique

TUYAUX
PTFE

Raccords
Standard

Raccords
Interlock

Raccords
Afacrimp

Accessoires

RACCORDS en
acier inoxydable





ADAPTATEURS
Standard

ADAPTATEURS
ORFS

ADAPTATEURS
MÉTRIQUE-BSP

SERTISSEUSES

SEWER CLEANING/NETTOYAGE DES ÉGOUTS ALFAGOMMA

Item #							min. bend radius		Weight lb/ft
	mm	in	mm	in			mm	in	
SPOR-10	16.0	5/8	24.4	0.96	2,500/172.4	6,250/430.9	4	101.6	.19
SPOR-12	19.1	3/4	30.0	1.18	2,500/172.4	6,250/430.9	5	127.0	.28
SPOR-16	25.4	1	37.1	1.46	2,500/172.4	6,250/430.9	6	152.4	.40
SPOR-20	32.0	1-1/4	45.7	1.80	2,500/172.4	6,250/430.9	8	203.2	.59
SPOR-24	38.1	1-1/2	55.4	2.18	2,500/172.4	6,250/430.9	15	381.0	.94






SERIES SPOR-Orange Cover

Tube: Yellow Polyolefin
Reinforcement: high tensile single synthetic fiber braids
Cover: abrasion resistant, polyolefin-urethane
Application: high pressure sewer cleaning for commercial, industrial, residential
Temperature: -40°C to +66°C (-40°F to +150°C) and
Length: random

Tube: polyoléfine jaune
Armature: bride simple en fibres synthétique de haute ténacité
Revêtement: résistant à l'abrasion, polyoléfine-uréthane
Application: nettoyage des égouts à haute pression pour usage commercial, industriel, résidentiel
Température: -40°C a +66°C (-40°F to +150°C)
Longueur: aléatoire



Item #							min. bend radius		Weight lb/ft
	mm	in	mm	in			mm	in	
LLGR-04	6.4	1/4	12.6	0.50	4,000/275.8	10,000/689.5	63.5	2.50	0.06
LLGR-06	9.7	3/8	16.5	0.65	4,000/275.8	10,000/689.5	76.2	3.00	0.11
LLGR-08	12.8	1/2	21.2	0.83	4,000/275.8	10,000/689.5	101.6	4.00	.016







SERIES LLGR-Green Cover

Tube: Yellow Polyolefin
Reinforcement: high tensile double synthetic fiber braids
Cover: abrasion resistant, polyolefin-urethane
Application: high pressure sewer cleaning for commercial, industrial, residential
Temperature: -40°C to +66°C (-40°F to +150°C) and
Length: random

Tube: polyoléfine jaune
Armature: bride double en fibres synthétique de haute ténacité
Revêtement: résistant à l'abrasion, polyoléfine-uréthane
Application: nettoyage des égouts à haute pression pour usage commercial, industriel, résidentiel
Température: -40°C a +66°C (-40°F to +150°C)
Longueur: aléatoire



Item #							min. bend radius		Weight lb/ft
	mm	in	mm	in			mm	in	
LLBU-12	19.1	3/4	30.0	1.18	3,000/206.8	7,500/517.1	5	127.0	.29
HPBU-16	25.4	1	37.6	1.48	3,000/206.8	7,500/517.1	8	203.2	.41



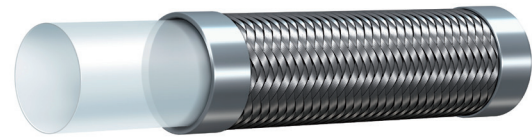
SERIES LLBU/HPBU-Blue Cover

Tube: Yellow Polyolefin
Reinforcement: high tensile double synthetic fiber braids
Cover: abrasion resistant, polyolefin-urethane
Application: high pressure sewer cleaning for commercial, industrial, residential
Temperature: -40°C to +66°C (-40°F to +150°C) and
Length: random

Tube: polyoléfine jaune
Armature: bride double en fibres synthétique de haute ténacité
Revêtement: résistant à l'abrasion, polyoléfine-uréthane
Application: nettoyage des égouts à haute pression pour usage commercial, industriel, résidentiel
Température: -40°C a +66°C (-40°F to +150°C)
Longueur: aléatoire



↔		↔		⏺	⏺	⏺	⏺
mm	in	mm	psi	psi	mm	g/m	
5	3/16	7,8	1,5	3000	63	90	
6	1/4	9,40	1,5	2550	76	110	
8	5/16	11,20	1,65	2250	102	150	
10	3/8	12,80	1,65	1950	127	170	
13	1/2	16,00	1,65	1800	152	250	
16	5/8	19,20	1,65	1200	178	300	
19	3/4	22,50	1,75	1200	203	370	
25	1	29,40	2	900	305	510	



795SOM SMOOTH PTFE STAINLESS STEEL BRAID HEAVY DUTY FDA US PHARMACOPEIA - CLASS VI

Tube: smooth ptfé - high mechanical and vibration resistance, low permeability, dielectrical, fire resistant, food grade (fda, dvwg, bfr approved). Chemically inert, non sticking, ozone and weather resistant.

Reinforcement: high tensile stainless steel braid AISI 304.

Application: compressed air, gas, steam, fuel, oil, chemical and pharmaceutical products, particularly suitable for steam piping on injection moulding machines, diathermic oil installations, charging lines for criogenic gases, compressor discharge lines, automotive, pharmaceutical and food sectors. solvents, pigments and paint transfer lines. hydraulic lines in power steering marine applications. not suitable for molten alkali metals and halogens at high temperature.

Température: -60°C +260°C (-76°F +500°F)

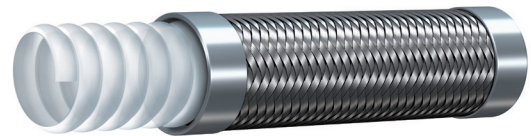
Tube: ptfé lisse - bonnes propriétés mécaniques, résistance aux vibrations; basse perméabilité, bonnes propriétés diélectriques (non conducteur), ininflammable, usage alimentaire. Chimiquement inerte, non adhérent, résistant à l'ozone et au vieillissement atmosphérique.

Armature: une tresse inox haute ténacité suivant AISI 304

Application: air comprimé, gaz, vapeur, hydrocarbures, produits chimiques, alimentaires et pharmaceutiques. Alimentation vapeur pour presse à injecter installations d'huile diatérmique, lignes de chargement pour gaz cryogénique, installations de compresseurs, industrie automobile, lignes de transfert de solvants, pigments et peintures, lignes hydrauliques pour applications marines. Résistance chimique quasi totale à l'exception de métaux alcalins ou de certains halogènes et cela sous conditions de température et de pression

Température: -60°C +260°C (-76°F +500°F)

↔		↔		⏺	⏺	⏺	⏺
mm	in	mm	psi	psi	mm	g/m	
10	3/8	15,50	3	1500	25	200	
13	1/2	18,70	3	1125	32	280	
16	5/8	22,20	3,15	900	51	330	
19	3/4	26,50	3,75	750	63	400	
25	1	32,90	3,75	525	102	550	
32	1.1/4	39,30	3,75	375	127	750	
38	1.1/2	45,60	3,75	300	152	860	
51	2	60	4,60	300	203	1180	



795COM CONVOLUTED PTFE STAINLESS STEEL BRAID FDA US PHARMACOPEIA - CLASS VI

Tube: convoluted ptfé - high mechanical and vibration resistance, low permeability, dielectrical, fire resistant, food grade (fda, dvwg, bfr approved). chemically inert, non sticking, ozone and weather resistant.

Reinforcement: high tensile stainless steel braid AISI 304.

Application: compressed air, gas, steam, fuel, oil, chemical and pharmaceutical products, particularly suitable for steam piping on injection moulding machines, diathermic oil installations, charging lines for criogenic gases, compressor discharge lines, automotive, pharmaceutical and food sectors. solvents, pigments and paint transfer lines. hydraulic lines in power steering marine applications. not suitable for molten alkali metals and halogens at high temperature.

Température: -60°C +260°C (-76°F +500°F)

Tube: ptfé extrudé et convoluté - bonnes propriétés mécaniques, résistance aux vibrations; basse perméabilité, bonnes propriétés diélectriques (non conducteur), ininflammable, usage alimentaire. Chimiquement inerte, non adhérent, résistant à l'ozone et au vieillissement atmosphérique.

Armature: une tresse inox haute ténacité suivant AISI 304

Application: air comprimé, gaz, vapeur, hydrocarbures, produits chimiques, alimentaires et pharmaceutiques. Alimentation vapeur pour presse à injecter installations d'huile diatérmique, lignes de chargement pour gaz cryogénique, installations de compresseurs, industrie automobile, lignes de transfert de solvants, pigments et peintures, lignes hydrauliques pour applications marines. Résistance chimique quasi totale à l'exception de métaux alcalins ou de certains halogènes et cela sous conditions de température et de pression

Température: -60°C +260°C (-76°F +500°F)

Hydraulic
HOSE

PTFE
HOSE

Standard
FITTINGS

Interlock
FITTINGS

Alfacrimp
FITTINGS

Accessories

Stainless Steel
FITTINGS

Standard
ADAPTERS

ORFS
ADAPTERS

METRIC - BSP
ADAPTERS

CRIMPERS

STANDARD FITTINGS/ RACCORDS STANDARD

FERRULES SKIVE	41
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// SKIVE FERRULE FOR STANDARD FITTINGS

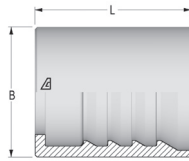
Hose	Table n°	-03 DN 5 3/16	-04 DN 6 1/4	-05 DN 8 5/16	-06 DN 10 3/8	-08 DN 12 1/2	-10 DN 16 5/8	-12 DN 19 3/4	-16 DN 25 1	-20 DN 32 1 1/4	-24 DN 38 1 1/2	-32 DN 51 2	-40 DN 63 2 1/2	-48 DN 76 3
FLEXOR 1SN (HF)	223		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
FLEXOR 1SN MINETUFF	223		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
TEMP TECH 1SN	240		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
FLEXOPAK 1SC	208		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
FLEXOR 2SN (HF)	235		H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404		
FLEXOR 2SN MINETUFF	235		H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404		
TEMP TECH 2SN	237		H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404		
FLEXOPAK 2SC (HF)	222		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
FLEXOPAK 2SC MINETUFF	222		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
FLEXOPAK 2 MINETUFF	207		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100404				
FLEXOPAK 2 SUPERTUFF	207		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100404				
FLEXOPAK 2 HT	207		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100404				
ELEVATOR	184											H1100404		
FLEXOR R12	62				H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404	H1100404		
FLEXOR R15 MINETUFF	145		H1100404		H1100404	H1100404								
FLEXOR 4SP	41		H1100404		H1100404	H1100404	H1100404	H1100404	H1100404					
ALFAFOREST LT	33				H1100404	H1100404	H1100404	H1100404	H1100404	H1100404				
ALFABIOTECH 2000	212												H1100204	H1100204
ALFABIOTECH 3000	229									H1100404	H1100404			
ALFABIOTECH 4000	187							H1100404	H1100404					
ALFABIOTECH 5000	188						H1100404	H1100404	H1100404					
ALFABIOTECH 5000 SUPERTUFF	188						H1100404	H1100404	H1100404					
ALFABIOTECH 5000 PLUS	211							H1100404						
ALFABIOTECH 6000	192		H1100404		H1100404	H1100404								
ALFABIOTECH 6000 SUPERTUFF	192		H1100404		H1100404	H1100404								
AT3K MINETUFF	239		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
AT3K SUPERTUFF	239		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
ALFAJET 210	239		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
ALFAJET 400	222		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					

// NO SKIVE FERRULE FOR STANDARD FITTINGS

Hose	Table n°	-03 DN 5 3/16	-04 DN 6 1/4	-05 DN 8 5/16	-06 DN 10 3/8	-08 DN 12 1/2	-10 DN 16 5/8	-12 DN 19 3/4	-16 DN 25 1	-20 DN 32 1 1/4	-24 DN 38 1 1/2	-32 DN 51 2	-40 DN 63 2 1/2	-48 DN 76 3
ARGUS 1TE/R6 (HF)	209		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100SK1					
ARGUS 2TE (HF)	210		H1100SK1	H1100SK1	H1100SK1	H1100SK1	H1100404	H1100SK1	H1100SK1					
ARGUS 3TE/R3 (HF)	252		H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2		
FLEXOR TWB1	200	H1200TP0	H1200TP0	H1200TP0	H1200TP0	H1200TP0								
FLEXOR 7	198	H1200TP0	H1200TP0	H1200TP0	H1200TP0	H1200TP0								
FLEXOR 8	199	H1200TP0	H1200TP0	H1200TP0	H1200TP0	H1200TP0								
FLEXOPAK PLT	197	H1200TP0	H1100SK1	H1200TP0	H1200TP0	H1200TP0								
ALFAJET 210	248	H1200TP0	H1200TP0	H1200TP0	H1200TP0	H1200TP0								
	185		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
ALFAJET 400	176		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
FLEXOR 1SN (HF)	173	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1		
FLEXOR 1SN MINETUFF	173	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1		
TEMP TECH 1SN	179	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1		
FLEXOPAK 1SC	178		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
	206	H1200TP0		H1200TP0	H1200TP0	H1200TP0								
AT3K MINETUFF	185		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
	248	H1200TP0		H1200TP0	H1200TP0	H1200TP0								
AT3K SUPERTUFF	185		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
	248	H1200TP0		H1200TP0	H1200TP0	H1200TP0								
FLEXOR 2SN (HF)	174	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2		
FLEXOR 2SN MINETUFF	174	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2	H1200AD2		
FLEXOPAK 2SC (HF)	176		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
FLEXOPAK 2SC MINETUFF	176		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1					
FLEXOPAK 2 MINETUFF	177		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200TX2	
FLEXOPAK 2 SUPERTUFF	177		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200TX2	
FLEXOPAK 2 HT	177		H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200AD1	H1200TX2	
ELEVATOR	183							H1200AD1	H1200AD1	H1200AD1	H1200AD1			
ALFABIOTECH 3000	186									H1200204	H1200204			
ALFABIOTECH 4000	194							H1200204	H1200204	H1200204				
ALFABIOTECH 5000	258						H1200204							
ALFABIOTECH 6000	259				H1200204	H1200204								
FLEXOR R12	139				H1200204	H1200204	H1200204	H1200204	H1200204	H1200204	H1200204			
FLEXOR R4	018							H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	H1200TX2	
PTFE - 9TS	201	H2200TF0	H2200TF0	H2200TF0	H2200TF0	H2200TF0	H2200TF0	H2200TF0	H2200TF0					
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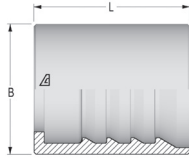
Hose	Crimping Table n°	-04 DN 5 3/16	-05 DN 6 1/4	-06 DN 8 5/16	-08 DN 10 13/32	-10 DN 12 1/2	-12 DN 16 5/8	-16 DN 22 7/8	-20 DN 29 1 1/8	-24 DN 35 1 3/8	-32 DN 46 1 13/16
FLEXOR R5	261	H1200TX2-03	H1200TX2-04	H1200TX2-05	H1200TX2-06	H1200TX2-08	H1200TX2-10	H1200TX2-12	H1200TX2-16	H1200TX2-20	H1100404-32

H1100104



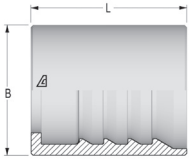
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H1100104-200000	20	1.1/4	31,8	50	43,7
H1100104-240000	24	1.1/2	38,1	57	49,1
H1100104-320000	32	2	50,8	71	63,6

H1100SK1



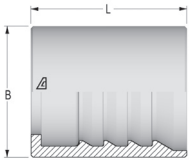
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H11001SK-040000	04	6,4	1/4	21	26,3
H11001SK-050000	05	7,9	5/16	22	26,5
H11001SK-060000	06	9,5	3/8	25	28,5
H11001SK-080000	08	12,7	1/2	29	34,7
H11001SK-100000	10	15,9	5/8	32	37,5
H11001SK-120000	12	19	3/4	36	41,5
H11001SK-160000	32	50,8	2	82	75,1
	32	50,8	2	82	

H1100204

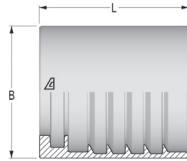


Code	Dash	mm	in	B	L
H1100204-030000	03	4,8	3/16	19	23,8
H1100204-040000	04	6,4	1/4	21	26,3
H1100204-050000	05	7,9	5/16	22	26,5
H1100204-060000	06	9,5	3/8	25	28,5
H1100204-080000	08	12,7	1/2	29	34,7
H1100204-100000	10	15,9	5/8	32	37,5
H1100204-120000	12	19	3/4	36	41,5
H1100204-160000	16	25,4	1	45	47,7
H1100204-200000	20	31,8	1.1/4	58	54,6
H1100204-240000	24	38,1	1.1/2	67	61,1
H1100204-320000	32	50,8	2	82	75,1

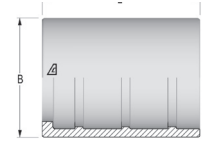
H1100404



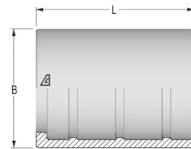
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H1100404-040000	04	6,5	1/4	22	26,3
H1100404-060000	06	9,5	3/8	25	28,5
H1100404-080000	08	12,7	1/2	29	34,7
H1100404-100000	10	15,9	5/8	33	37,5
H1100404-120000	12	19	3/4	37	41,5
H1100404-160000	16	25	1	45	47,7
H1100404-200000	20	32	1 1/4	58	54,6
H1100404-240000	24	38	1 1/2	67	61,1
H1100404-320000	32	51	2	82	75,1

H1200202

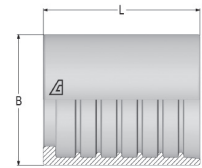
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H1200202-100000	10	15,9	5/8	34	35,6
H1200202-120000	12	19	3/4	38	38,6
H1200202-160000	16	25,4	1	50	45,3
H1200202-200000	20	31,8	1.1/4	61	50,2
H1200202-240000	24	38,1	1.1/2	70	63,7
H1200202-320000	32	50,8	2	82	73

H1200800

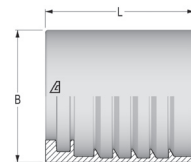
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H1120800-020000	02	3,2	1/8	11	17,5
H1120800-030000	03	4,8	3/16	14	27
H1120800-040000	04	6,4	1/4	17	29
H1120800-050000	05	7,9	5/16	19	30
H1120800-060000	06	9,5	3/8	21	31
H1120800-080000	08	12,7	1/2	25,5	34

H1200203

Code	Dash	mm	in	B	L
H1200203-030000	03	4,8	3/16	20	24,3
H1200203-040000	04	6,4	1/4	22	26,3
H1200203-050000	05	7,9	5/16	25	26,3
H1200203-060000	06	9,5	3/8	25	27,2
H1200203-080000	08	12,7	1/2	29	32,8
H1200203-100000	10	15,9	5/8	34	35,6
H1200203-120000	12	19	3/4	38	38,6
H1200203-160000	16	25,4	1	50	45,3
H1200203-200000	20	31,8	1.1/4	51	49
H1200203-240000	24	38,1	1.1/2	60,3	56
H1200203-320000	32	50,8	2	76,1	69
H1200203-400000	40	63,5	2.1/2	88,9	85

H1200TPO

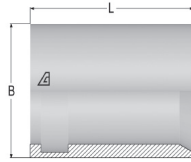
Code	Dash	mm	in	B	L
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H1200TPO-040000	04	6,4	1/4	17	26,5
H1200TPO-050000	05	7,9	5/16	19	26,5
H1200TPO-060000	06	9,5	3/8	22	26,5
H1200TPO-080000	08	12,7	1/2	26	30,5

H1200204

Code	Dash	mm	in	B	L
H1200204-060000	06	9,5	3/8	30	28
H1200204-080000	08	12,7	1/2	34	33,9
H1200204-100000	10	15,9	5/8	38	36,6
H1200204-120000	12	19	3/4	42	39,5
H1200204-160000	16	25,4	1	50	45,4
H1200204-200000	20	31,8	1.1/2	62	50,1

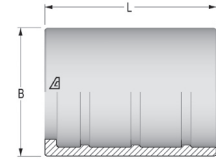
STANDARD - FERRULE NO SKIVE

H1200TFO



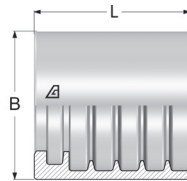
Item Code	Part Number	Dash	mm	in	B	L
1232132	H2200TFO-030000	03	4,8	3/16	14	20
1232133	H2200TFO-040000	04	6,4	1/4	15	25
1232134	H2200TFO-050000	05	7,9	5/16	17,2	25
1232135	H2200TFO-060000	06	9,5	3/8	22	25
1232136	H2200TFO-080000	08	12,7	1/2	25	30
1232137	H2200TFO-100000	10	15,9	5/8	30	33
1232138	H2200TFO-120000	12	19,0	3/4	35	37
1232139	H2200TFO-160000	16	25,4	1	42	45
1232140	H2200TFO-200000	20	31,8	1 1/4	50	48
1232141	H2200TFO-240000	24	38,1	1 1/2	57	58
1232142	H2200TFO-320000	32	50,8	2	73	67

H2200TX2



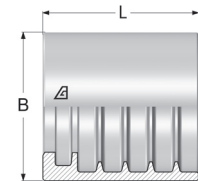
Item Code	Part Number	Dash	mm	in	B	L
1236581	H1200TX2-030000	03	4,8	3/16	21	21,5
1236582	H1200TX2-040000	04	6,4	1/4	23	24,7
1236583	H1200TX2-050000	05	7,9	5/16	25	24,7
1236584	H1200TX2-060000	06	9,5	3/8	27	29,7
1236585	H1200TX2-080000	08	12,7	1/2	30	30,5
1236586	H1200TX2-100000	10	15,9	5/8	34	35,5
1236587	H1200TX2-120000	12	19	3/4	38	36,0
1236588	H1200TX2-160000	16	25,4	1	48	42,5
1236589	H1200TX2-200000	20	31,8	1 1/4	53	56,5
1236590	H1200TX2-240000	24	38,1	1 1/2	60	61,5
1236591	H1200TX2-320000	32	50,8	2	76	73,5
1236592	H1200TX2-400000	40	63,0	2 1/2	86	85,0

H1200AD1



Item Code	Part Number	Dash	mm	in	B	L
1227977	H1200AD1-030000	3	4,8	3/16	19	24,0
1227978	H1200AD1-040000	4	6,4	1/4	22	24,7
1227979	H1200AD1-050000	5	7,9	5/16	23	24,7
1227980	H1200AD1-060000	6	9,5	3/8	26	29,7
1227981	H1200AD1-080000	8	12,7	1/2	29	30,5
1227983	H1200AD1-100000	10	15,9	5/8	32	30,5
1227985	H1200AD1-120000	12	19	3/4	36	36,0
1227986	H1200AD1-160000	16	25,4	1	44	36,7
1227987	H1200AD1-200000	20	31,8	1 1/4	53	48,6
1227988	H1200AD1-240000	24	38,1	1 1/2	61	48,6
1227989	H1200AD1-320000	32	50,8	2	75	48,6

H1200AD2

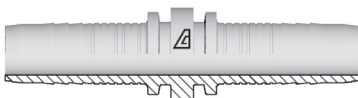


Item Code	Part Number	Dash	mm	in	B	L
1227990	H1200AD2-030000	3	4,8	3/16	21	24,0
1227991	H1200AD2-040000	4	6,4	1/4	23	24,7
1227992	H1200AD2-050000	5	7,9	5/16	25	24,7
1227993	H1200AD2-060000	6	9,5	3/8	27	29,7
1227994	H1200AD2-080000	8	12,7	1/2	30	30,5
1227995	H1200AD2-100000	10	15,9	5/8	33	30,5
1227996	H1200AD2-120000	12	19	3/4	37	36,0
1227997	H1200AD2-160000	16	25,4	1	45	36,7
1227998	H1200AD2-200000	20	31,8	1 1/4	56	48,6
1227999	H1200AD2-240000	24	38,1	1 1/2	64	48,5
1228000	H1200AD2-320000	32	50,8	2	78	48,6

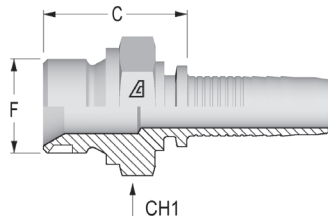
STANDARD - HOSE MENDER

H12C5610

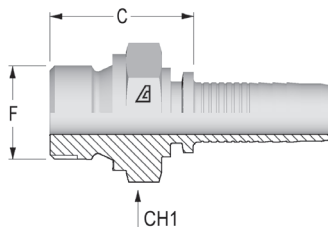
Hose mender
Tuyau union



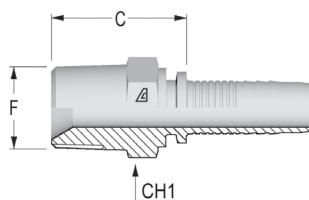
Code	DASH	Hose ID	DASH	Hose ID
H12C5610-040400	04	1/4	04	1/4
H12C5610-050500	05	5/16	05	5/16
H12C5610-060600	06	3/8	06	3/8
H12C5610-080800	08	1/2	08	1/2
H12C5610-101000	10	5/8	10	5/8
H12C5610-121200	12	3/4	12	3/4
H12C5610-121600	12	5/8	16	1
H12C5610-161600	16	1	16	1
H12C5610-202000	20	1 1/4	20	1 1/4
H12C5610-242400	24	1 1/2	24	1 1/2
H12C5610-323200	32	2	32	2

H1210510**BSPP Male parallel 60° Flare - AGR****BSPP Mâle parallèle 60° Flare - AGR**

Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H1210510-030200	3/16	4,8	03	1/8-28	02	21,3	14
H1210510-040200	1/4	6,4	04	1/8-28	02	21,7	14
H1210510-040400	1/4	6,4	04	1/4-19	04	26,3	19
H1210510-040600	1/4	6,4	04	3/8-19	06	27,8	22
H1210510-040800	1/4	6,4	04	1/2-14	08	31,3	27
H1210510-050400	5/16	7,9	05	1/4-19	04	26,3	19
H1210510-050600	5/16	7,9	05	3/8-19	06	27,8	22
H1210510-050800	5/16	7,9	05	1/2-14	08	31,3	27
H1210510-060400	3/8	9,5	06	1/4-19	04	26,3	19
H1210510-060600	3/8	9,5	06	3/8-19	06	27,8	22
H1210510-060800	3/8	9,5	06	1/2-14	08	31,3	27
H1210510-080600	1/2	12,7	08	3/8-19	06	28,6	22
H1210510-080800	1/2	12,7	08	1/2-14	08	32,1	27
H1210510-081000	1/2	12,7	08	5/8-14	10	36,1	30
H1210510-081200	1/2	12,7	08	3/4-14	12	34,1	32
H1210510-100800	5/8	15,9	10	1/2-14	08	32,1	27
H1210510-101000	5/8	15,9	10	5/8-14	10	36,1	30
H1210510-101200	5/8	15,9	10	3/4-14	12	34,1	32
H1210510-121200	3/4	19	12	3/4-14	12	34,6	32
H1210510-121600	3/4	19	12	1-11	16	39,6	41
H1210510-161600	1	25,4	16	1-11	16	40,4	41
H1210510-162000	1	25,4	16	1 1/4-11	20	42,4	50
H1210510-202000	1 1/4	31,8	20	1 1/4-11	20	47	50
H1210510-242400	1 1/2	38,1	24	1 1/2-11	24	49	55
H1210510-243200	1 1/2	38,1	24	2-11	32	56,5	70
H1210510-323200	2	50,8	32	2-11	32	53,5	70

H1210610**BSPP Male flat seat AGR FD**
BSPP Mâle plat AGR FD

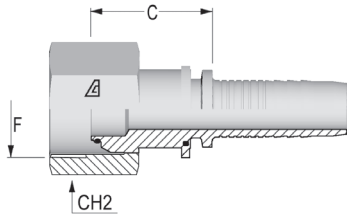
Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H1210610-040400	1/4	6,4	04	1/4-11	04	26,3	19
H1210610-060600	3/8	9,5	06	3/8-19	06	27,8	22
H1210610-060800	3/8	9,5	06	1/2-14	08	31,3	27
H1210610-080800	1/2	12,7	08	1/2-14	08	32,1	27
H1210610-101000	5/8	15,9	10	5/8-14	10	36,1	30
H1210610-121200	3/4	19	12	3/4-14	12	34,6	32
H1210610-121600	3/4	19	12	1-11	16	39,6	41
H1210610-161600	1	25,4	16	1-11	16	40,4	41

H1210710**BSPT Male tapered AGR K**
BSPT Mâle conique AGR K

Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H1210710-030200	3/16	4,8	03	1/8-28	02	20,8	12
H1210710-040200	1/4	6,4	04	1/8-28	02	22,3	12
H1210710-040400	1/4	6,4	04	1/4-19	04	26,3	17
H1210710-040600	1/4	6,4	04	3/8-19	06	26,3	19
H1210710-050400	5/16	7,9	05	1/4-19	04	26,8	17
H1210710-050600	5/16	7,9	05	3/8-19	06	26,3	19
H1210710-060400	3/8	9,5	06	1/4-19	04	26,8	17
H1210710-060600	3/8	9,5	06	3/8-19	06	26,3	19
H1210710-060800	3/8	9,5	06	1/2-14	08	33,3	22
H1210710-080600	1/2	12,7	08	3/8-19	06	28,6	19
H1210710-080800	1/2	12,7	08	1/2-14	08	34,1	22
H1210710-100800	5/8	15,9	10	1/2-14	08	34,1	24
H1210710-101200	5/8	15,9	10	3/4-14	12	34,1	27
H1210710-121200	3/4	19	12	3/4-14	12	34,6	27
H1210710-121600	3/4	19	12	1-11	16	42,6	36
H1210710-161200	1	25,4	16	3/4-14	12	37,4	32
H1210710-161600	1	25,4	16	1-11	16	43,4	36
H1210710-202000	1 1/4	31,8	20	1 1/4-11	20	49	46
H1210710-242400	1 1/2	38,1	24	1 1/2-11	24	49	50
H1210710-323200	2	50,8	32	2-11	32	52	65

H1220813

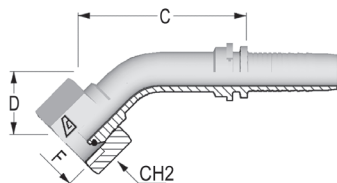
BSPP Female 60° cone with O-Ring DKOR
BSPP Femelle 60° cone avec O-Ring DKOR



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH2 mm
H1220511-030200	3/16	4,8	03	1/8-28	02	13,8	14
H1220511-040200	1/4	6,4	04	1/8-28	02	14,2	14
H1220811-050400	5/16	7,9	05	1/4-19	04	17,3	19
H1220811-060400	3/8	9,5	06	1/4-19	04	17,3	19
H1220811-080600	1/2	12,7	08	3/8-19	06	18,6	22
H1220811-101000	5/8	15,9	10	5/8-14	10	17,1	27
H1220811-121200	3/4	19	12	3/4-14	12	20,6	32
H1220811-161600	1	25,4	16	1-11	16	23,9	38
H1220812-202000	1 1/4	31,8	20	1 1/4-11	20	32	50
H1220812-242400	1 1/2	38,1	24	1 1/2-11	24	33,8	55
H1220812-323200	2	50,8	32	2-11	32	34	70
H1220813-030400	3/16	4,8	03	1/4-19	04	16	19
H1220813-040400	1/4	6,4	04	1/4-19	04	16	19
H1220813-040600	1/4	6,4	04	3/8-19	06	16	22
H1220813-050600	5/16	7,9	05	3/8-19	06	18	22
H1220813-060600	3/8	9,5	06	3/8-19	06	17	22
H1220813-060800	3/8	9,5	06	1/2-14	08	17	27
H1220813-080800	1/2	12,7	08	1/2-14	08	18	27
H1220813-081000	1/2	12,7	08	5/8-14	10	17	27
H1220813-081200	1/2	12,7	08	3/4-14	12	22	32
H1220813-101200	5/8	15,9	10	3/4-14	12	20	32
H1220813-121600	3/4	19	12	1-11	16	23	38
H1220813-162000	1	25,4	16	1 1/4-11	20	30,5	50
H1220813-202400	1 1/4	31,8	20	1 1/2-11	24	41,9	55
H1220813-243200	1 1/2	38,1	24	2-11	32	47	70

H1220843

45° BSPP Female 60° cone with O-Ring DKOR 45
Solid one piece
45° BSPP Femelle 60° cone avec O-Ring DKOR 45
Banjo



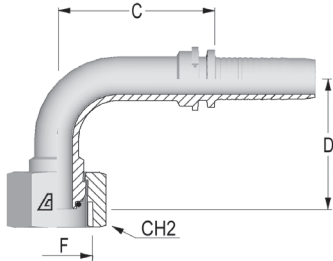
Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1220843-040400	1/4	6,4	04	1/4-19	04	44,5	15	19
H1220843-040600	1/4	6,4	04	3/8-19	06	43	16,9	22
H1220841-050400	5/16	7,9	05	1/4-19	04	45	17	19
H1220843-050600	5/16	7,9	05	3/8-19	06	48	18	22
H1220843-060600	3/8	9,5	06	3/8-19	06	50	20,5	22
H1220843-060800	3/8	9,5	06	1/2-14	08	53,5	21	27
H1220843-080800	1/2	12,7	08	1/2-14	08	56	21	27
H1220843-081000	1/2	12,7	08	5/8-14	10	61	23	27
H1220843-081200	1/2	12,7	08	3/4-14	12	61	23	32
H1220841-101000	5/8	15,9	10	5/8-14	10	64	21,5	27
H1220843-101200	5/8	15,9	10	3/4-14	12	69	22,5	32
H1220841-121200	3/4	19	12	3/4-14	12	67,6	28	32
H1220843-121600	3/4	19	12	1-11	16	77,5	31,5	38
H1220841-161600	1	25,4	16	1-11	16	72,5	34	38
H1220843-162000	1	25,4	16	1 1/4-11	20	102	47,5	50
H1220842-202000	1 1/4	31,8	20	1 1/4-11	20	101	40	50
H1220843-202400	1 1/4	31,8	20	1 1/2-14	24	118,5	38	55
H1220842-242400	1 1/2	38,1	24	1 1/2-14	24	111	46	55
H1220843-243200	1 1/2	38,1	24	2-11	32	126,5	45	70
H1220842-323200	2	50,8	32	2-11	32	154	60	70

H1220893

90° BSPP Female 60° cone with
O-Ring DKOR 90

Solid one piece

90° BSPP Femelle 60° cone
avec O-Ring DKOR 90 Solide un
morceau

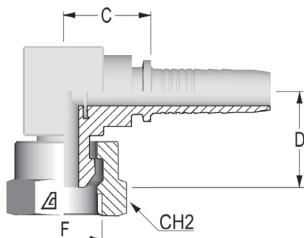


Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1220591-030200	3/16	4,8	03	1/8-28	02	23,8	30	14
H1220893-030400	3/16	4,8	03	1/4-19	04	28	30	19
H1220591-040200	1/4	6,4	04	1/8-28	02	29	30	14
H1220893-040400	1/4	6,4	04	1/4-19	04	29,3	29	19
H1220893-040600	1/4	6,4	04	3/8-19	06	28	30,5	22
H1220893-050600	5/16	7,9	05	3/8-19	06	34	35,5	22
H1220893-060600	3/8	9,5	06	3/8-19	06	39,5	42	22
H1220893-060800	3/8	9,5	06	1/2-14	08	33	36	27
H1220891-080600	1/2	12,7	08	3/8-19	06	35,3	43	22
H1220893-080800	1/2	12,7	08	1/2-14	08	40	41	27
H1220893-081000	1/2	12,7	08	5/8-14	10	42,5	43	27
H1220893-081200	1/2	12,7	08	3/4-14	12	42,5	43	32
H1220891-101000	5/8	15,9	10	5/8-14	10	50,2	47	27
H1220893-101200	5/8	15,9	10	3/4-14	12	48	46	32
H1220891-121200	3/4	19	12	3/4-14	12	53,5	53	32
H1220893-121600	3/4	19	12	1-11	16	54	50	38
H1220891-161600	1	25,4	16	1-11	16	73,4	69	38
H1220893-162000	1	25,4	16	1 1/4-11	20	78,5	88,5	50
H1220892-202000	1 1/4	31,8	20	1 1/4-11	20	83	83	50
H1220893-202400	1 1/4	31,8	20	1 1/2-11	24	101,5	83	55
H1220892-242400	1 1/2	38,1	24	1 1/2-11	24	96	96	55
H1220893-243200	1 1/2	38,1	24	2-11	32	114	110	70
H1220892-323200	2	50,8	32	2-11	32	138	136	70

H1220581

90° Compact BSPP Female
60° cone DKOR 90

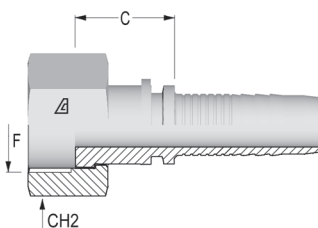
90° Compact BSPP
Femelle 60° cone DKOR 90



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1220581-040400	1/4	6,4	04	04	1/4-19	17,7	19	19
H1220581-050600	5/16	7,9	05	06	3/8-19	19,5	21,5	22
H1220581-060600	3/8	9,5	06	06	3/8-19	19,5	21,5	22
H1220581-060800	3/8	9,5	06	08	1/2-14	21,5	22,5	27
H1220581-080800	1/2	12,7	08	08	1/2-14	22,2	22,5	27
H1220581-121200	3/4	19	12	12	3/4-14	26,7	31	32
H1220581-161600	1	25,4	16	1-11	16	34,5	27,5	38

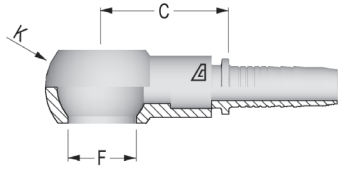
H1220613

BSPP Female flat seat DKR FD
BSPP Femelle plat DKR FD



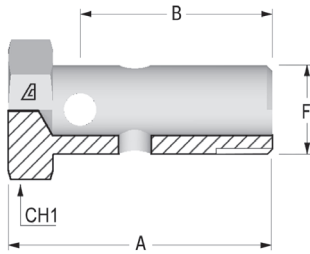
Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH2 mm
H1220613-040400	1/4	6,4	04	1/4-19	04	20,3	19
H1220613-060600	3/8	9,5	06	3/8-19	06	20,3	22
H1220613-060800	3/8	9,5	06	1/2-14	08	20,8	27
H1220613-080800	1/2	12,7	08	1/2-14	08	21,6	27
H1220613-081200	1/2	12,7	08	3/4-14	12	24,6	32
H1220611-101000	5/8	15,9	10	5/8-14	10	15,3	27
H1220611-101200	5/8	15,9	10	3/4-14	12	17,6	32
H1220611-121200	3/4	19	12	3/4-14	12	18,0	32
H1220611-121600	3/4	19	12	1-11	16	20,6	38
H1220611-161600	1	25,4	16	1-11	16	19,9	38

H1230310 BSPP Banjo RNR Banjo BSPP RNR



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F mm	C CUT-OFF Factor	K mm
H1230310-040200	1/4	6,4	04	1/8-28	10,1	20	17
H1230310-040400	1/4	6,4	04	1/4-19	13,3	26,5	22
H1230310-040600	1/4	6,4	04	3/8-19	16,7	30,5	28
H1230310-050600	5/16	7,9	05	3/8-19	16,7	30,5	28
H1230310-060600	3/8	9,5	06	3/8-19	16,7	30,5	28
H1230310-060800	3/8	9,5	06	1/2-14	21	34,5	38
H1230310-080600	1/2	12,7	08	3/8-19	16,7	30,5	28
H1230310-080800	1/2	12,7	08	1/2-14	21	35	38
H1230310-101000	5/8	15,9	10	5/8-14	23	38	40
H1230310-121200	3/4	19	12	3/4-14	26,5	41,5	46
H1230310-161600	1	25,4	16	1-11	33,3	50,5	58

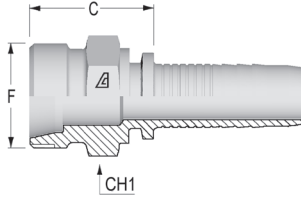
H10V0210 BSPP Bolt Boulon BSPP



Code	F Thread in-TPI	A mm	B mm	CH1 mm
H10V0210-040000	1/4-19	30	25	19
H10V0210-060000	3/8-19	38	31	22
H10V0210-080000	1/2-14	46	38	27
H10V0210-100000	5/8-14	51	42	28
H10V0210-120000	3/4-14	56	47	32
H10V0210-160000	1-11	69	58	38

H1211110

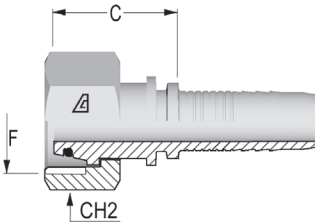
Metric Male 24° seat
Light - DIN 3853 - CEL
Métrique Mâle 24° Léger -
DIN 3853 - CEL



Code	Hose ID in	Hose ID mm	DASH	F Thread	Tube OD mm	C CUT-OFF Factor	CH1 mm
H1211110-031200	3/16	4,8	03	M12x1,5	6	20,8	14
H1211110-041200	1/4	6,4	04	M12x1,5	6	21,7	14
H1211110-041400	1/4	6,4	04	M14x1,5	8	22,3	14
H1211110-041600	1/4	6,4	04	M16x1,5	10	23,3	17
H1211110-051600	5/16	7,9	05	M16x1,5	10	23,3	17
H1211110-051800	5/16	7,9	05	M18x1,5	12	23,3	19
H1211110-061600	3/8	9,5	06	M16x1,5	10	23,3	17
H1211110-061800	3/8	9,5	06	M18x1,5	12	23,3	19
H1211110-062200	3/8	9,5	06	M22x1,5	15	25,3	22
H1211110-081800	1/2	12,7	08	M18x1,5	12	25,1	19
H1211110-082200	1/2	12,7	08	M22x1,5	15	26,1	22
H1211110-082600	1/2	12,7	08	M26x1,5	18	27,1	27
H1211110-102600	5/8	15,9	10	M26x1,5	18	27,1	27
H1211110-123000	3/4	19	12	M30x2	22	29,6	32
H1211110-163600	1	25,4	16	M36x2	28	33,4	36
H1211110-204500	1 1/4	31,8	20	M45x2	35	40	46
H1211110-245200	1 1/2	38,1	24	M52x2	42	40	55

H1221513

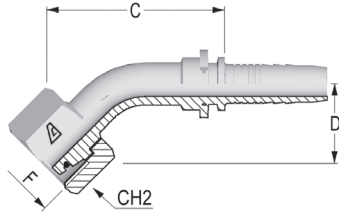
Metric Female 24° cone with
O-Ring - Light DIN 3865 -
DKOL
Métrique Femelle 24° cone
avec O-Ring - Léger DIN
3865 - DKOL



Code	Hose ID in	Hose ID mm	DASH	F Thread	Tube OD mm	C CUT-OFF Factor	CH2 mm
H1221513-031200	3/16	4,8	03	M12x1,5	6	23,9	14
H1221513-031400	3/16	4,8	03	M14x1,5	8	23,9	17
H1221513-041200	1/4	6,4	04	M12x1,5	6	20,3	14
H1221513-041400	1/4	6,4	04	M14x1,5	8	24,4	17
H1221513-041600	1/4	6,4	04	M16x1,5	10	25,4	19
H1221513-041800	1/4	6,4	04	M18x1,5	12	25,4	22
H1221513-051400	5/16	7,9	05	M14x1,5	8	25,4	17
H1221513-051600	5/16	7,9	05	M16x1,5	10	25,4	19
H1221513-051800	5/16	7,9	05	M18x1,5	12	25,4	22
H1221513-061600	3/8	9,5	06	M16x1,5	10	25,4	19
H1221513-061800	3/8	9,5	06	M18x1,5	12	25,4	22
H1221513-062200	3/8	9,5	06	M22x1,5	15	27,4	27
H1221513-081800	1/2	12,7	08	M18x1,5	12	28,1	22
H1221513-082200	1/2	12,7	08	M22x1,5	15	28,2	27
H1221513-082600	1/2	12,7	08	M26x1,5	18	29,2	32
H1221513-1022B0	5/8	15,9	10	M22x1,5	15	29,2	27
H1221513-102600	5/8	15,9	10	M26x1,5	18	29,2	32
H1221513-1222B0	3/4	19	12	M22x1,5	15	30,2	27
H1221513-1226B0	3/4	19	12	M26x1,5	18	30,2	32
H1221513-123000	3/4	19	12	M30x2	22	31,7	36
H1221513-123600	3/4	19	12	M36x2	28	32,8	41
H1221512-163000	1	25,4	16	M30x2	22	33,1	36
H1221513-163600	1	25,4	16	M36x2	28	33,6	41
H1221513-164500	1	25,4	16	M45x2	35	38,5	50
H1221513-204500	1 1/4	31,8	20	M45x2	35	40,1	50
H1221513-245200	1 1/2	38,1	24	M52x2	42	40,5	60

H1221543

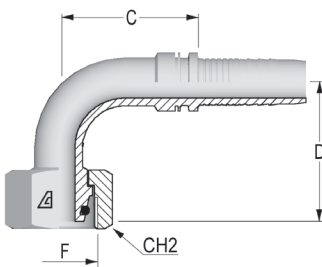
45° Metric Female 24° cone with O-Ring - Light DIN 3865 DKOL 45 Solid one piece
 45° Métrique Femelle 24° cone avec O-Ring - Léger DIN 3865 DKOL 45 Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1221543-031200	3/16	4,8	03	M12x1,5	6	44,9	19	14
H1221541-041200	1/4	6,4	04	M12x1,5	6	42,7	15	14
H1221543-041400	1/4	6,4	04	M14x1,5	8	42,7	17,5	17
H1221543-041600	1/4	6,4	04	M16x1,5	10	42,7	20	19
H1221543-0514B0	5/16	7,9	05	M14x1,5	8	47,5	20	17
H1221543-051600	5/16	7,9	05	M16x1,5	10	47,5	20	19
H1221543-051800	5/16	7,9	05	M18x1,5	12	47,5	22	22
H1221543-0616B0	3/8	9,5	06	M16x1,5	10	46,8	20	19
H1221543-061800	3/8	9,5	06	M18x1,5	12	46,8	19,5	22
H1221543-081800	1/2	12,7	08	M18x1,5	12	55,0	21	22
H1221543-082200	1/2	12,7	08	M22x1,5	15	55,0	21	27
H1221543-102600	5/8	15,9	10	M26x1,5	18	65,3	24	32
H1221543-1226B0	3/4	19	12	M26x1,5	18	67,0	28	32
H1221543-123000	3/4	19	12	M30x2	22	69,4	32	36
H1221543-1630B0	1	25,4	16	M30x2	22	90,0	32	36
H1221543-163600	1	25,4	16	M36x2	28	91,4	32	41
H1221543-204500	1 1/4	31,8	20	M45x2	35	135,5	45	50
H1221543-245200	1 1/2	38,1	24	M52x2	42	114,1	47	60

H1221593

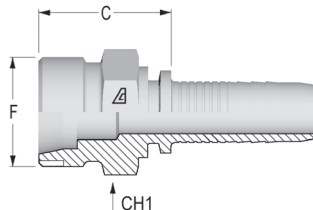
90° Metric Female 24° cone with O-Ring - Light DIN 3865 DKOL 90 Solid one piece
 90° Métrique Femelle 24° cone avec O-Ring - Léger DIN 3865 DKOL 90 Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1221593-0312B0	3/16	4,8	03	M12x1,5	6	28,0	25	19
H1221591-041200	1/4	6,4	04	M12x1,5	6	29,5	26	19
H1221593-041400	1/4	6,4	04	M14x1,5	8	28,3	32,5	17
H1221593-041600	1/4	6,4	04	M16x1,5	10	28,3	32,5	19
H1221593-041800	1/4	6,4	04	M18x1,5	12	28,3	35	22
H1221593-051600	5/16	7,9	05	M16x1,5	10	33,7	38	19
H1221593-051800	5/16	7,9	05	M18x1,5	12	32,2	40	22
H1221593-0616B0	3/8	9,5	06	M16x1,5	10	32,8	38	19
H1221593-061800	3/8	9,5	06	M18x1,5	12	32,8	39	22
H1221593-062200	3/8	9,5	06	M22x1,5	15	35,8	38,5	27
H1221593-081800	1/2	12,7	08	M18x1,5	12	39,8	40	22
H1221593-082200	1/2	12,7	08	M22x1,5	15	39,8	40,5	27
H1221593-082600	1/2	12,7	08	M26x1,5	18	39,8	41	32
H1221593-1022B0	5/8	15,9	10	M22x1,5	15	51,4	47	27
H1221593-102600	5/8	15,9	10	M26x1,5	18	51,4	48	32
H1221593-103000	5/8	15,9	10	M30x2	22	52,4	49	36
H1221593-1226B0	3/4	19	12	M26x1,5	18	52,1	54	32
H1221593-123000	3/4	19	12	M30x2	22	52,1	59	36
H1221593-123600	3/4	19	12	M36x2	28	52,1	64	41
H1221593-1630B0	1	25,4	16	M30x2	22	77,6	63	36
H1221593-163600	1	25,4	16	M36x2	28	77,6	68	41
H1221592-203600	1 1/4	31,8	20	M36x2	28	92,2	86	41
H1221593-204500	1 1/4	31,8	20	M45x2	35	90,5	89	50
H1221593-245200	1 1/2	38,1	24	M52x2	42	104,0	100	60

H1211210

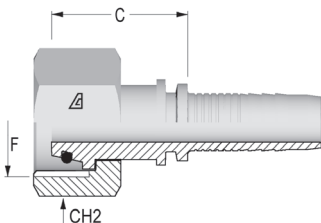
**Metric Male 24° seat
Heavy - DIN 3853 - CES
Métrique Mâle 24° Lourd -
DIN 3853 - CES**



Code	Hose ID in	Hose ID mm	DASH	F Thread	Hose OD mm	C CUT-OFF Factor	CH1 mm
H1211210-041400	1/4	6,4	04	M14x1,5	6	24,3	17
H1211210-041600	1/4	6,4	04	M16x1,5	8	24,3	17
H1211210-041800	1/4	6,4	04	M18x1,5	10	25,3	19
H1211210-051800	5/16	7,9	05	M18x1,5	10	25,3	19
H1211210-052000	5/16	7,9	05	M20x1,5	12	25,3	22
H1211210-061800	3/8	9,5	06	M18x1,5	10	25,3	19
H1211210-062000	3/8	9,5	06	M20x1,5	12	25,3	22
H1211210-062200	3/8	9,5	06	M22x1,5	14	27,3	22
H1211210-062400	1/2	12,7	08	M24x1,5	16	28,1	24
H1211210-082200	1/2	12,7	08	M22x1,5	14	28,6	24
H1211210-082400	1/2	12,7	08	M24x1,5	16	29,1	24
H1211210-083000	1/2	12,7	08	M30x2	16	33,1	32
H1211210-103000	5/8	15,9	10	M30x2	20	33,1	32
H1211210-123000	3/4	19	12	M30x2	20	33,6	32
H1211210-123600	3/4	19	12	M36x2	25	37,6	36
H1211210-163600	1	25,4	16	M36x2	25	38,4	36
H1211210-164200	1	25,4	16	M42x2	30	42,4	46
H1211210-205200	1 1/4	31,8	20	M52x2	38	48,0	55

H1221613

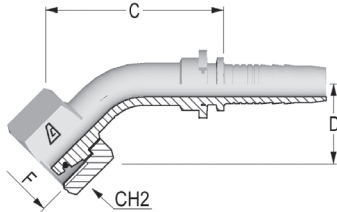
**Metric Female 24° cone with
O-Ring Heavy - DIN 3865 -
DKOS
Métrique Femelle 24° cone
avec O-Ring Lourd - DIN 3865
- DKOS**



Code	Hose ID in	Hose ID mm	DASH	F Thread	Hose OD mm	C CUT-OFF Factor	CH2 mm
H1221613-031600	3/16	4,8	03	M16x1,5	8	27,2	19
H1221613-041400	1/4	6,4	04	M14x1,5	6	26,4	17
H1221613-041600	1/4	6,4	04	M16x1,5	8	27,7	19
H1221613-041800	1/4	6,4	04	M18x1,5	10	27,6	22
H1221613-042000	1/4	6,4	04	M20x1,5	12	27,6	24
H1221613-051800	5/16	7,9	05	M18x1,5	10	27,6	22
H1221613-052000	5/16	7,9	05	M20x1,5	12	27,6	24
H1221613-061600	3/8	9,5	06	M16x1,5	8	27,6	19
H1221613-061800	3/8	9,5	06	M18x1,5	10	27,6	22
H1221613-062000	3/8	9,5	06	M20x1,5	12	27,6	24
H1221613-062200	3/8	9,5	06	M22x1,5	14	31,1	27
H1221613-062400	3/8	9,5	06	M24x1,5	16	31,1	30
H1221613-082000	1/2	12,7	08	M20x1,5	12	31,9	24
H1221613-082200	1/2	12,7	08	M22x1,5	14	31,9	27
H1221613-082400	1/2	12,7	08	M24x1,5	16	31,7	30
H1221613-083000	1/2	12,7	08	M30x2	20	31,7	36
H1221613-102400	5/8	15,9	10	M24x1,5	16	36,5	30
H1221613-103000	5/8	15,9	10	M30x2	20	36,5	36
H1221613-123000	3/4	19	12	M30x2	20	37,0	36
H1221613-123600	3/4	19	12	M36x2	25	40,2	46
H122161Z-123600	3/4	19	12	M36x2	25	40,2	41
H1221613-163000	1	25,4	16	M30x2	20	41,0	36
H1221613-163600	1	25,4	16	M36x2	25	41,0	46
H1221613-164200	1	25,4	16	M42x2	30	43,1	50
H1221613-204200	1 1/4	31,8	20	M42x2	30	44,7	50
H1221613-205200	1 1/4	31,8	20	M52x2	38	48,1	60
H1221613-245200	1 1/2	38,1	24	M52x2	38	48,1	60

H1221643

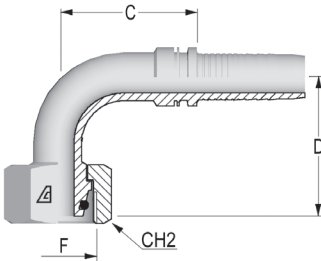
45° Metric Female 24° cone with O-Ring Heavy - DIN 3865 DKOS 45 Solid one piece
 45° Métrique Femelle 24° cone avec O-Ring Lourd - DIN 3865 DKOS 45 Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1221643-041400	1/4	6,4	04	M14x1,5	6	48,6	16	17
H1221643-041600	1/4	6,4	04	M16x1,5	8	48,6	16	19
H1221643-041800	1/4	6,4	04	M18x1,5	10	43,5	19	22
H1221643-0518B0	5/16	7,9	05	M18x1,5	10	48,0	20	22
H1221643-052000	5/16	7,9	05	M20x1,5	12	48,1	21	24
H1221643-0616B0	3/8	9,5	06	M16x1,5	8	50,6	21	19
H1221643-0618B0	3/8	9,5	06	M18x1,5	10	50,6	21	22
H1221643-062000	3/8	9,5	06	M20x1,5	12	50,6	20	24
H1221643-062200	3/8	9,5	06	M22x1,5	14	52,9	21	27
H1221643-0820B0	1/2	12,7	08	M20x1,5	12	55,8	21	24
H1221643-082400	1/2	12,7	08	M24x1,5	16	55,8	21,5	30
H1221643-103000	5/8	15,9	10	M30x2	20	66,3	30	36
H1221643-123000	3/4	19	12	M30x2	20	66,1	29	36
H1221643-123600	3/4	19	12	M36x2	25	69,5	33	46
H1221643-163600	1	25,4	16	M36x2	25	89,7	36	46
H1221643-164200	1	25,4	16	M42x2	30	110,3	40,5	50
H1221643-205200	1 1/4	31,8	20	M52x2	38	109,0	45	60

H1221693

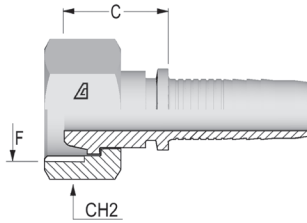
90° Metric Female 24° cone with O-Ring Heavy - DIN 3865 DKOS 90 Solid one piece
 90° Métrique Femelle 24° cone avec O-Ring Lourd - DIN 3865 DKOS 90 Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1221693-041400	1/4	6,4	04	M14x1,5	6	27,3	33	17
H1221693-041600	1/4	6,4	04	M16x1,5	8	27,3	33	19
H1221693-041800	1/4	6,4	04	M18x1,5	10	26,8	34	22
H1221693-042000	1/4	6,4	04	M20x1,5	12	34,5	39	24
H1221693-051800	5/16	7,9	05	M18x1,5	10	33,2	39	22
H1221693-052000	5/16	7,9	05	M20x1,5	12	33,2	39	24
H1221693-0616B0	3/8	9,5	06	M16x1,5	8	34,3	39	19
H1221693-0618B0	3/8	9,5	06	M18x1,5	10	34,3	39	22
H1221693-062000	3/8	9,5	06	M20x1,5	12	34,3	38,5	24
H1221693-062200	3/8	9,5	06	M22x1,5	14	34,3	40,5	27
H1221693-082400	1/2	12,7	08	M24x1,5	16	39,8	41,5	30
H1221693-083000	1/2	12,7	08	M30x2	20	45,8	50	36
H1221693-102400	5/8	15,9	10	M24x1,5	16	47,9	53	30
H1221693-103000	5/8	15,9	10	M30x2	20	47,9	55	36
H1221693-123000	3/4	19	12	M30x2	20	50,6	58	36
H1221693-123600	3/4	19	12	M36x2	25	50,6	59,5	46
H122169Z-123600	3/4	19	12	M36x2	25	50,6	59,5	41
H1221693-163600	1	25,4	16	M36x2	25	77,6	73,5	46
H1221693-164200	1	25,4	16	M42x2	30	75,6	79	50
H1221693-204200	1 1/4	31,8	20	M42x2	30	95,0	88	50
H1221693-205200	1 1/4	31,8	20	M52x2	38	94,0	92	60

H1221013Metric female 60° cone
DIN 3863Métrique femelle 60° cone
DIN 3863

Code	Hose ID in	Hose ID mm	DASH	F Thread DASH	C CUT-OFF Factor	CH2 mm
H1221013-123000	3/4	19	12	30x1,5	22,2	36
H1221013-163800	1	25,4	16	38x1,5	28	46

Standard
FITTINGSInterlock
FITTINGSAlfacrimp
FITTINGS

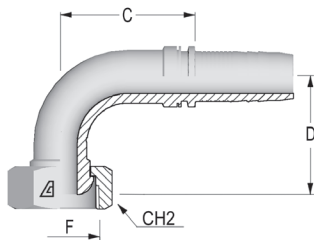
Accessories

Stainless Steel
FITTINGSStandard
ADAPTERSORFS
ADAPTERSMETRIC - BSP
ADAPTERS

CRIMPERS

H122109390° Metric female 60° cone
DIN 3863 Solid one piece90° Métrique femelle 60° cone
DIN 3863 Solide un morceau

Code	Hose ID in	Hose ID mm	DASH	F Thread	C CUT-OFF Factor	D DROP mm	CH2 mm
H1221093-123000	3/4	19	12	30x1,5	54	47	36
H1221093-163800	1	25,4	16	38x1,5	76,4	60	46

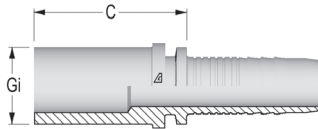


H1252010

Metric straight standpipe

RSL/RSS - DIN 2353

Standpipe droit métrique RSL/
RSS - DIN 2353



Code	Hose ID in	Hose ID mm	DASH	Tube OD mm	C CUT-OFF Factor
H1252010-030600	3/16	4,8	03	6	27,8
H1252010-030800	3/16	4,8	03	8	29,8
H1252010-040600	1/4	6,4	04	6	28,3
H1252010-040800	1/4	6,4	04	8	30,2
H1252010-041000	1/4	6,4	04	10	32,2
H1252010-041200	1/4	6,4	04	12	31,2
H1252010-050800	5/16	7,9	05	8	30,3
H1252010-051000	5/16	7,9	05	10	30,2
H1252010-051200	5/16	7,9	05	12	32,7
H1252010-061000	3/8	9,5	06	10	30,3
H1252010-061200	3/8	9,5	06	12	29,3
H1252010-061400	3/8	9,5	06	14	35,8
H1252010-061500	3/8	9,5	06	15	34,8
H1252010-081000	1/2	12,7	08	10	32,5
H1252010-081200	1/2	12,7	08	12	32,1
H1252010-081400	1/2	12,7	08	14	36,1
H1252010-081500	1/2	12,7	08	15	32,1
H1252010-081600	1/2	12,7	08	16	37,1
H1252010-081800	1/2	12,7	08	18	36,0
H1252010-101800	5/8	15,9	10	18	34,2
H1252010-102000	5/8	15,9	10	20	44,2
H1252010-102200	5/8	15,9	10	22	37,2
H1252010-122000	3/4	19	12	20	45,5
H1252010-122200	3/4	19	12	22	36,5
H1252010-122500	3/4	19	12	25	48,5
H1252010-162500	1	25,4	16	25	51,4
H1252010-162800	1	25,4	16	28	40,4
H1252010-163000	1	25,4	16	30	54,4
H1252010-163800	1	25,4	16	38	60,4
H1252010-203000	1 1/4	31,8	20	30	56,0
H1252010-203500	1 1/4	31,8	20	35	48,0
H1252010-203800	1 1/4	31,8	20	38	62,0
H1252010-243800	1 1/2	38,1	24	38	62,0
H1252010-244200	1 1/2	38,1	24	42	52,0

TUYAUX
Hydraulique

TUYAUX
PTFE

Raccords
Standard

Raccords
Interlock

Raccords
Afacrimp

Accessoires

RACCORDS en
Acier Inoxydable

ADAPTATEURS
Standard

ADAPTATEURS
ORFS

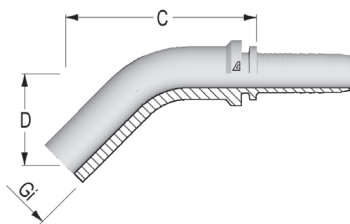
ADAPTATEURS
MÉTRIQUE-BSP

SERTISSEUSES

H1252040

45° Metric standpipe RSL 45/
RSS 45 - DIN 2353 Solid one
piece

Standpipe 45° métrique
RSL 45/RSS 45 - DIN 2353
Solide un morceau

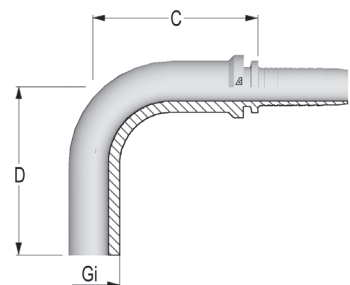


Code	Hose ID in	Hose ID mm	DASH	Tube OD mm	C CUT-OFF Factor	D DROP mm
H1252040-040600	1/4	6,4	04	6	50,1	28
H1252040-040800	1/4	6,4	04	8	43,2	23
H1252040-041000	1/4	6,4	04	10	48,0	24
H1252040-051000	5/16	7,9	05	10	48,4	24
H1252040-051200	5/16	7,9	05	12	55,4	28
H1252040-061000	3/8	9,5	06	10	48,5	24
H1252040-061200	3/8	9,5	06	12	55,5	28
H1252040-061400	3/8	9,5	06	14	53,1	28
H1252040-081200	1/2	12,7	08	12	54,6	26
H1252040-081500	1/2	12,7	08	15	62,6	28,5
H1252040-081600	1/2	12,7	08	16	63,3	32
H1252040-081800	1/2	12,7	08	18	72,0	30,5
H1252040-101800	5/8	15,9	10	18	72,4	37
H1252040-102000	5/8	15,9	10	20	84,2	37
H1252040-122200	3/4	19	12	22	74,3	37
H1252040-122500	3/4	19	12	25	83,0	44
H1252040-162500	1	25,4	16	25	102,3	55
H1252040-163000	1	25,4	16	30	125,5	46,1

H1252090

90° Metric standpipe
RSL 90/RSS 90 - DIN 2353
Solid one piece

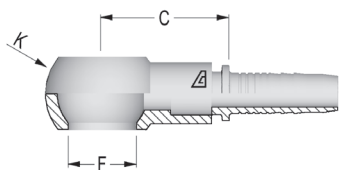
Standpipe 90° métrique
RSL 90/RSS 90 - DIN 2353
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	Tube OD mm	C CUT-OFF Factor	D DROP mm
H1252090-030600	3/16	4,8	03	6	24,5	36
H1252090-040600	1/4	6,4	04	6	25,4	36
H1252090-040800	1/4	6,4	04	8	25,9	44
H1252090-041000	1/4	6,4	04	10	30,6	42
H1252090-041200	1/4	6,4	04	12	34,9	50
H1252090-051000	5/16	7,9	05	10	28,6	48,5
H1252090-051200	5/16	7,9	05	12	39,4	55
H1252090-061000	3/8	9,5	06	10	30,7	42
H1252090-061200	3/8	9,5	06	12	35,0	50
H1252090-061400	3/8	9,5	06	14	37,0	50
H1252090-081200	1/2	12,7	08	12	41,1	52
H1252090-081500	1/2	12,7	08	15	44,7	57
H1252090-081600	1/2	12,7	08	16	43,7	64
H1252090-081800	1/2	12,7	08	18	58,1	59
H1252090-101800	5/8	15,9	10	18	52,2	58
H1252090-102000	5/8	15,9	10	20	62,6	70
H1252090-102200	5/8	15,9	10	22	49,4	64
H1252090-122000	3/4	19	12	20	63,4	70
H1252090-122200	3/4	19	12	22	53,1	67,5
H1252090-122500	3/4	19	12	25	63,2	85
H1252090-162500	1	25,4	16	25	73,1	98,5
H1252090-162800	1	25,4	16	28	73,1	89,5
H1252090-163000	1	25,4	16	30	73,1	102,5
H1252090-203500	1 1/4	31,8	20	35	89,0	106,5

H1230910

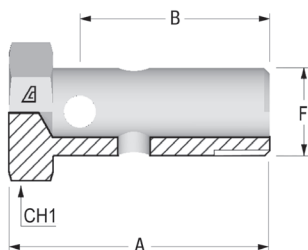
Metric banjo RNM
Banjo RNM métrique



Code	Hose ID in	Hose ID mm	DASH	F Thread	C CUT-OFF Factor	K mm
H1230910-031000	3/16	4,8	03	M10x1,5	24	17
H1230910-041000	1/4	6,4	04	M10x1,5	25	17
H1230910-041200	1/4	6,4	04	M12x1,5	28,5	20
H1230910-041400	1/4	6,4	04	M14x1,5	27,5	24
H1230910-051200	5/16	7,9	05	M12x1,5	28,5	24
H1230910-051400	5/16	7,9	05	M14x1,5	27,5	24
H1230910-051600	5/16	7,9	05	M16x1,5	30,5	28
H1230910-051800	5/16	7,9	05	M18x1,5	28,5	32
H1230910-061400	3/8	9,5	06	M14x1,5	27,5	24
H1230910-061600	3/8	9,5	06	M16x1,5	30,5	28
H1230910-061800	3/8	9,5	06	M18x1,5	31,5	32
H1230910-081800	1/2	12,7	08	M18x1,5	32	32
H1230910-082200	1/2	12,7	08	M22X1,5	35	39
H1230910-102200	5/8	15,9	10	M22X1,5	35	39
H1230910-122600	3/4	19	12	M26x1,5	38,5	46
H1230910-163000	1	25,4	16	M30x1,5	42,5	54

H10V0810

Metric bolt
Boulon métrique



Code	F Thread in-TPI	A mm	B mm	CH1 mm
H10V0810-100000	10x1,5	24	19	14
H10V0810-120000	12x1,5	29	24	17
H10V0810-140000	14x1,5	34	28	19
H10V0810-160000	16x1,5	41	34	22
H10V0810-180000	18x1,5	44	37	24
H10V0810-220000	22X1,5	48	41	27
H10V0810-260000	26x1,5	52	42	32
H10V0810-300000	30x1,5	62	51	38

TUYAUX
Hydraulique

TUYAUX
PTFE

Raccords
Standard

Raccords
Interlock

Raccords
Afacrimp

Accessoires

RACCORDS en
Acier Inoxydable

ADAPTATEURS
Standard

ADAPTATEURS
ORFS

ADAPTATEURS
MÉTRIQUE-BSP

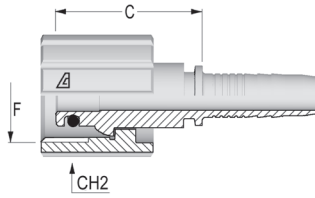
SERTISSEUSES

H1224913

Female for pressure washer
(type K) - WGA

Femelle pour laveuse a pression
(type K) - WGA

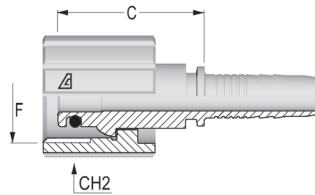
Code	Hose ID in	Hose ID mm	DASH	F Thread	C CUT-OFF Factor	CH2 mm
H1224913-042200	1/4	6,4	04	22x1,5	34	27
H1224913-052200	5/16	7,9	05	22x1,5	34	27
H1224913-062200	3/8	9,5	06	22x1,5	34	27

Standard
FITTINGSInterlock
FITTINGS**H1224914**

Universal female
for pressure washer

Femelle universelle
pour laveuse a pression

Code	Hose ID in	Hose ID mm	DASH	F Thread	C CUT-OFF Factor	CH2 mm
H1224914-042200	1/4	6,4	04	22x1,5	34	27
H1224914-052200	5/16	7,9	05	22x1,5	34	27
H1224914-062200	3/8	9,5	06	22x1,5	34	27



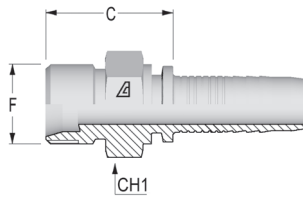
Accessories

Stainless Steel
FITTINGSStandard
ADAPTERSORFS
ADAPTERSMETRIC - BSP
ADAPTERS

CRIMPERS

H1213B10

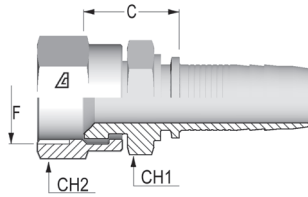
SAE Male Flareless
SAE Mâle sans flare



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H1213B10-040400	1/4	6,4	04	7/16-20	04	21,8	12
H1213B10-040500	1/4	6,4	04	1/2-20	05	22,8	14
H1213B10-050600	5/16	7,9	05	9/16-18	06	24,2	16
H1213B10-060600	3/8	9,5	06	9/16-18	06	24,2	16
H1213B10-080800	1/2	12,7	08	3/4-16	08	28,4	22
H1213B10-121200	3/4	19	12	1 1/16-12	12	33,1	30

H1226611

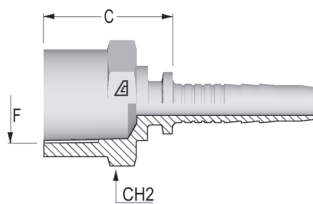
SAE Female swivel 45° seat
SAE Female tournant 45°



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
H1226611-060600	3/8	9,5	06	5/8-18	06	22,3	19	22
H1226611-060800	3/8	9,5	06	3/4-16	08	24,8	19	25
H1226611-081000	1/2	12,7	08	7/8-14	10	26,6	22	27
H1226611-121200	3/4	19	12	1 1/16-14	12	29,6	27	32

H1229710

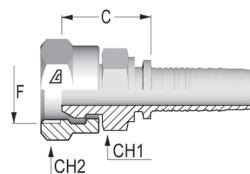
Female grease connection PTF thread
Femelle graisse raccord PTF thread



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H1229710-040400	1/4	6,4	04	1/2-27	04	23,3	19

H1227311

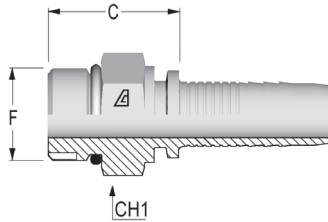
NPSM Female
NPSM Femelle



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
H1227311-040400	1/4	6,4	04	1/4-18	04	24,3	17	19
H1227311-060600	3/8	9,5	06	3/8-18	06	25,8	19	22
H1227311-080800	1/2	12,7	08	1/2-14	08	27,6	22	27
H1227311-121200	3/4	19	12	3/4-14	12	28,6	27	32
H1227311-161600	1	25,4	16	1-11 1/2	16	35,4	36	38

H1213010

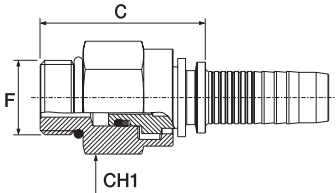
SAE Solid male O-Ring Boss
SAE Solide mâle O-Ring Boss



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H1213010-040400	1/4	6,4	04	7/16-20	04	20,3	14
H1213010-040500	1/4	6,4	04	1/2-20	05	21,3	16
H1213010-040600	1/4	6,4	04	9/16-18	06	22,3	17
H1213010-060600	3/8	9,5	06	9/16-18	06	23,3	19
H1213010-060800	3/8	9,5	06	3/4-16	08	24,3	22
H1213010-061000	3/8	9,5	06	7/8-14	10	26,8	27
H1213010-080800	1/2	12,7	08	3/4-16	08	25,1	22
H1213010-081000	1/2	12,7	08	7/8-14	10	27,6	27
H1213010-081200	1/2	12,7	08	1 1/16-12	12	32,1	32
H1213010-101000	5/8	15,8	10	7/8-14	10	27,6	24
H1213010-101200	5/8	15,8	10	1 1/16-12	12	32,1	32
H1213010-121000	3/4	19	12	7/8-14	10	28,1	27
H1213010-121200	3/4	19	12	1 1/16-12	12	32,6	32
H1213010-161600	1	25,4	16	1 5/16-12	16	35,4	38
H1213010-202000	1 1/4	31,8	20	1 5/8-12	20	39,0	46

H1213011

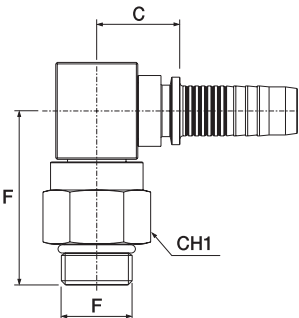
SAE Male Swivel O-Ring Boss
SAE Mâle tournant O-Ring Boss



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H1213011-040400	1/4	6,4	04	7/16-20	04	33,1	17
H1213011-060600	3/8	9,5	06	9/16-18	06	40,5	22
H1213011-060800	3/8	9,5	06	3/4-16	08	43,5	25
H1213011-080800	1/2	12,7	08	3/4-16	08	42,3	25
H1213011-081000	1/2	12,7	08	7/8-14	10	43,8	25
H1213011-121200	3/4	19	12	1 1/16-12	12	50,1	32

H1213081

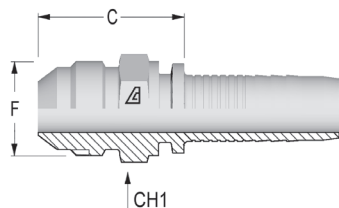
90° Compact SAE Male Swivel O-Ring Boss
90° Compact SAE Mâle tournant O-Ring Boss



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH1 mm
H1213081-040500	1/4	6,4	04	1/2-20	05	17	34	17
H1213081-060800	3/8	9,5	06	3/4-16	08	22	44	25
H1213081-080800	1/2	12,7	08	3/4-16	08	22	47	25
H1213081-081000	1/2	12,7	08	7/8-14	10	22	49	25
H1213081-101200	5/8	15,8	10	1 1/16-12	12	26	60	32
H1213081-121200	3/4	19	12	1 1/16-12	12	27	61	32

H1212510

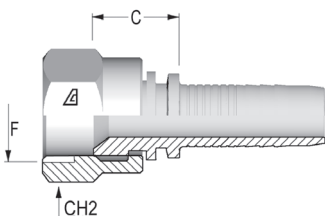
JIC Male 37° cone AGJ
JIC Mâle 37° cone AGJ



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H1212510-030400	3/16	4,8	03	7/16-20	04	22,2	12
H1212510-040400	1/4	6,4	04	7/16-20	04	24,8	12
H1212510-040500	1/4	6,4	04	1/2-20	05	25,3	14
H1212510-040600	1/4	6,4	04	9/16-18	06	24,8	17
H1212510-050500	5/16	7,9	05	1/2-20	05	24,8	14
H1212510-050600	5/16	7,9	05	9/16-18	06	24,8	17
H1212510-050800	5/16	7,9	05	3/4-16	08	24,8	19
H1212510-060600	3/8	9,5	06	9/16-18	06	26,7	17
H1212510-060800	3/8	9,5	06	3/4-16	08	26,7	19
H1212510-061000	3/8	9,5	06	7/8-14	10	26,7	24
H1212510-080800	1/2	12,7	08	3/4-16	08	31,5	19
H1212510-081000	1/2	12,7	08	7/8-14	10	31,5	24
H1212510-081200	1/2	12,7	08	1 1/16-12	12	31,5	27
H1212510-101000	5/8	15,9	10	7/8-14	10	34,3	24
H1212510-101200	5/8	15,9	10	1 1/16-12	12	37,1	27
H1212510-121200	3/4	19	12	1 1/16-12	12	39,5	27
H1212510-121400	3/4	19	12	1 3/16-12	14	39,5	32
H1212510-121600	3/4	19	12	1 5/16-12	16	39,5	36
H1212510-161200	1	25,4	16	1 1/16-12	12	44,6	32
H1212510-161600	1	25,4	16	1 5/16-12	16	44,6	36
H1212510-162000	1	25,4	16	1 5/8-12	20	44,6	46
H1212510-202000	1 1/4	31,8	20	1 5/8-12	20	52,0	46
H1212510-202400	1 1/4	31,8	20	1 7/8-12	24	52,0	50
H1212510-242400	1 1/2	38,1	24	1 7/8-12	24	59,0	50
H1212510-323200	2	50,8	32	2 1/2-12	32	72,0	65

H1222511

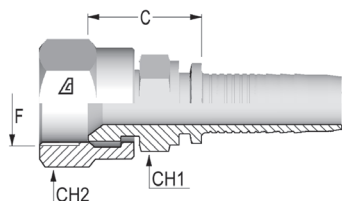
JIC Female 37° seat DKJ
JIC Femelle 37° DKJ



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH2 mm
H1222511-030400	3/16	4,8	03	7/16-20	04	14,3	16
H1222511-040400	1/4	6,4	04	7/16-20	04	14,6	16
H1222511-040500	1/4	6,4	04	1/2-20	05	15,3	17
H1222511-040600	1/4	6,4	04	9/16-18	06	15,3	19
H1222511-050500	5/16	7,9	05	1/2-20	05	15,3	17
H1222511-050600	5/16	7,9	05	9/16-18	06	15,3	19
H1222511-060600	3/8	9,5	06	9/16-18	06	15,3	19
H1222511-060800	3/8	9,5	06	3/4-16	08	17,8	25
H1222511-061000	3/8	9,5	06	7/8-14	10	20,3	27
H1222511-080800	1/2	12,7	08	3/4-16	08	18,6	25
H1222511-081000	1/2	12,7	08	7/8-14	10	19,6	27
H1222511-081200	1/2	12,7	08	1 1/16-12	12	22,1	32
H1222511-101000	5/8	15,9	10	7/8-14	10	19,6	27
H1222511-101200	5/8	15,9	10	1 1/16-12	12	20,1	32
H1222511-121000	3/4	19	12	7/8-14	10	20,1	27
H1222511-121200	3/4	19	12	1 1/16-12	12	20,6	32
H1222511-121400	3/4	19	12	1 3/16-12	14	19,9	36
H1222511-121600	3/4	19	12	1 5/16-12	16	22,1	38
H1222511-161200	1	25,4	16	1 1/16-12	12	22,4	32
H1222511-161600	1	25,4	16	1 5/16-12	16	23,9	38
H1222512-162000	1	25,4	16	1 5/8-12	20	26,5	50
H1222511-201600	1 1/4	31,8	20	1 5/16-12	16	27,5	38
H1222512-202000	1 1/4	31,8	20	1 5/8-12	20	28,1	50
H1222512-202400	1 1/4	31,8	20	1 7/8-12	24	30,4	55
H1222512-322400	2	50,8	32	1 7/8-12	24	29,4	55
H1222512-242400	1 1/2	38,1	24	1 7/8-12	24	31,4	55
H1222512-323200	2	50,8	32	2 1/2-12	32	32,0	70

H1226511

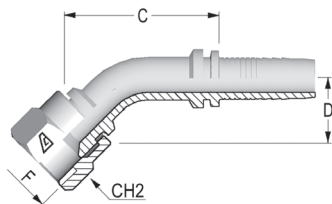
**JIC Female 37°
seat with stem hexagon DKJ**
**JIC Femelle 37°
avec hexagone DKJ**



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
H1226511-030400	3/16	4,8	03	7/16-20	04	18,1	16	12
H1226511-040300	1/4	6,4	04	3/8-24	03	19,8	14	12
H1226511-040400	1/4	6,4	04	7/16-20	04	19,6	16	14
H1226511-040500	1/4	6,4	04	1/2-20	05	20,3	17	14
H1226511-040600	1/4	6,4	04	9/16-18	06	20,3	19	14
H1226511-050500	5/16	7,9	05	1/2-20	05	20,3	17	14
H1226511-050600	5/16	7,9	05	9/16-18	06	20,3	19	14
H1226511-060400	3/8	9,5	06	7/16-20	04	20,6	16	17
H1226511-060500	3/8	9,5	06	1/2-20	05	21,3	17	16
H1226511-060600	3/8	9,5	06	9/16-18	06	21,3	19	17
H1226511-060800	3/8	9,5	06	3/4-16	08	24,8	25	19
H1226511-061000	3/8	9,5	06	7/8-14	10	25,8	27	22
H1226511-080600	1/2	12,7	08	9/16-18	06	23,1	19	19
H1226511-080800	1/2	12,7	08	3/4-16	08	25,6	25	19
H1226511-081000	1/2	12,7	08	7/8-14	10	26,6	27	22
H1226511-081200	1/2	12,7	08	1 1/16-12	12	28,1	32	25
H1226511-100600	5/8	15,9	10	9/16-18	06	24,1	19	24
H1226511-100800	5/8	15,9	10	3/4-16	08	26,6	25	24
H1226511-101000	5/8	15,9	10	7/8-14	10	27,6	27	24
H1226511-101200	5/8	15,9	10	1 1/16-12	12	28,1	32	25
H1226511-121000	3/4	19	12	7/8-14	10	28,1	32	27
H1226511-121200	3/4	19	12	1 1/16-12	12	28,6	32	27
H1226511-121400	3/4	19	12	1 3/16-12	14	29,9	36	32
H1226511-121600	3/4	19	12	1 5/16-12	16	32,1	38	32
H1226511-141600	7/8	22	14	1 5/16-12	16	32,1	38	32
H1226511-161200	1	25,4	16	1 1/16-12	12	31,4	32	32
H1226511-161600	1	25,4	16	1 5/16-12	16	32,9	38	32
H1226512-162000	1	25,4	16	1 5/8-12	20	37,5	50	41
H1226512-182000	1 1/8	29	18	1 5/8-12	20	37,5	50	41
H1226511-201600	1 1/4	31,8	20	1 5/16-12	16	37,5	38	41
H1226512-202000	1 1/4	31,8	20	1 5/8-12	20	39,1	50	41
H1226512-202400	1 1/4	31,8	20	1 7/8-14	24	43,4	55	50
H1226512-222400	1 3/8	35	22	1 7/8-14	24	43,4	55	50
H1226512-242400	1 1/2	38,1	24	1 7/8-14	24	43,4	55	50
H1226512-293200	1 13/16	46	29	2 1/2-12	32	49,0	70	65
H1226512-323200	2	50,8	32	2 1/2-12	32	49,0	70	65

H122541-M

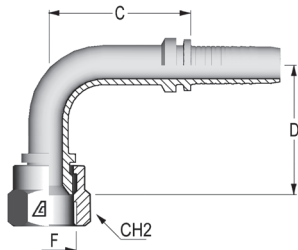
**45° JIC Female 37° seat
DKJ 45 Solid one piece**
**45° JIC Femelle 37° DKJ 45
Solide un morceau**



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H122541-03040M	3/16	4,8	03	7/16-20	04	37,1	10	16
H122541-04040M	1/4	6,4	04	7/16-20	04	36,6	10	16
H122541-04050M	1/4	6,4	04	1/2-20	05	37,2	12	17
H122541-04060M	1/4	6,4	04	9/16-18	06	39,4	11	19
H122541-05050M	5/16	7,9	05	9/16-18	05	39,8	12	17
H122541-05060M	5/16	7,9	05	9/16-18	06	42,8	12	19
H122541-06060M	3/8	9,5	06	9/16-18	06	46,3	11	19
H122541-06080M	3/8	9,5	06	3/4-16	08	47,2	15	25
H122541-08080M	1/2	12,7	08	3/4-16	08	51,6	15	25
H122541-08100M	1/2	12,7	08	7/8-14	10	50,7	16	27
H122541-08120M	1/2	12,7	08	1 1/16-12	12	57,0	21	32
H122541-10100M	5/8	15,9	10	7/8-14	10	62,2	19	27
H122541-10120M	5/8	15,9	10	1 1/16-12	12	68,6	21	32
H122541-12120M	3/4	19	12	1 1/16-12	12	67,5	21	32
H122541-121400	3/4	19	12	1 3/16-12	14	67,6	23	36
H122541-12160M	3/4	19	12	1 5/16-12	16	71,4	26	38
H122541-16160M	1	25,4	16	1 5/16-12	16	79,5	24	38
H122542-16200M	1	25,4	16	1 5/8-12	20	81,9	37	50
H122542-20200M	1 1/4	31,8	20	1 5/8-12	20	97,1	37	50
H122542-24240M	1 1/2	38,1	24	1 7/8-12	24	112,7	43	55
H122542-32320M	2	50,8	32	2 1/2	32	159,9	67	70

H1222591-S

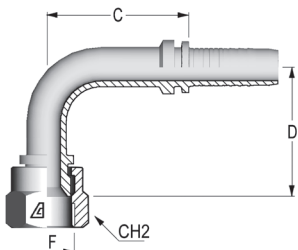
90° JIC Female 37° seat short drop - DKJ 90S Solid one piece
 90° JIC Femelle 37° court - DKJ 90S Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1222591-03040S	3/16	4,8	03	7/16-20	04	26,7	21	16
H1222591-04040S	1/4	6,4	04	7/16-20	04	27,0	21	16
H1222591-04050S	1/4	6,4	04	1/2-20	05	26,5	23,5	17
H1222591-04060S	1/4	6,4	04	9/16-18	06	31,0	23	19
H1222591-05060S	5/16	7,9	05	9/16-18	06	42,7	23	19
H1222591-06050S	3/8	9,5	06	1/2-20	05	33,3	25	17
H1222591-06060S	3/8	9,5	06	9/16-18	06	42,3	23	19
H1222591-06080S	3/8	9,5	06	3/4-16	08	48,8	29	25
H1222591-08060S	1/2	12,7	08	9/16-18	06	48,0	23	19
H1222591-08080S	1/2	12,7	08	3/4-16	08	46,4	29	25
H1222591-08100S	1/2	12,7	08	7/8-14	10	45,8	32	27
H1222591-08120S	1/2	12,7	08	1 1/16-12	12	37,3	46	32
H1222591-1010BS	5/8	15,9	10	7/8-14	10	36,5	32	27
H1222591-10120S	5/8	15,9	10	1 1/16-12	12	47,9	48	32
H1222591-12120S	3/4	19	12	1 1/16-12	12	58,2	46	32
H1222591-12140S	3/4	19	12	1 3/16-12	14	49,6	52,5	36
H1222591-12160S	3/4	19	12	1 5/16-12	16	53,6	53	38
H1222591-16160S	1	25,4	16	1 5/16-12	16	70,9	56	38

H1222591-M

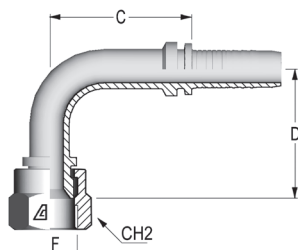
90° JIC Female 37° seat medium drop - DKJ 90M Solid one piece
 90° JIC Femelle 37° medium - DKJ 90M Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1222591-03040M	3/16	4,8	03	7/16-20	04	33,5	32	16
H1222591-04040M	1/4	6,4	04	7/16-20	04	34,2	32	16
H1222591-04050M	1/4	6,4	04	1/2-20	05	25,7	30	17
H1222591-04060M	1/4	6,4	04	9/16-18	06	28,5	38	19
H1222591-05050M	5/16	7,9	05	1/2-20	05	34,7	35	17
H1222591-05060M	5/16	7,9	05	9/16-18	06	33,2	35	19
H1222591-06060M	3/8	9,5	06	9/16-18	06	31,3	35	19
H1222591-06080M	3/8	9,5	06	3/4-16	08	39,5	41	25
H1222591-06100M	3/8	9,5	06	7/8-14	10	44,6	47	27
H1222591-08080M	1/2	12,7	08	3/4-16	08	37,2	40	25
H1222591-08100M	1/2	12,7	08	7/8-14	10	43,3	47	27
H1222591-08120M	1/2	12,7	08	1 1/16-12	12	42,8	58	32
H1222591-10100M	5/8	15,9	10	7/8-14	10	49,4	48	27
H1222591-10120M	5/8	15,9	10	1 1/16-12	12	47,9	58	32
H1222591-10160M	5/8	15,9	10	1 5/16-12	16	51,9	71	38
H1222591-12120M	3/4	19	12	1 1/16-12	12	52,4	54	32
H1222591-12160M	3/4	19	12	1 5/16-12	16	52,6	72	38
H1222591-16160M	1	25,4	16	1 5/16-12	16	72,6	71,5	38
H1222592-16200M	1	25,4	16	1 5/8-12	20	72,6	78	50
H1222592-20200M	1 1/4	31,8	20	1 5/8-12	20	82,4	78	50
H1222592-20240M	1 1/4	31,8	20	1 7/8-12	24	94	86	55
H1222592-24240M	1 1/2	38,1	24	1 7/8-12	24	95,3	92	55
H1222592-32320M	2	50,8	32	2 1/2-12	32	129,5	140	70

H1222591-L

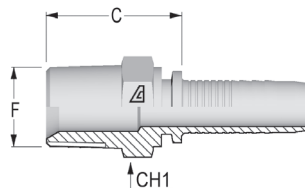
90° JIC Female 37° seat long drop - DKJ 90L Solid one piece
 90° JIC Femelle 37° long - DKJ 90L Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1222591-04040L	1/4	6,4	04	7/16-20	04	30,8	46	16
H1222591-04050L	1/4	6,4	04	1/2-20	05	31,3	45	17
H1222591-04060L	1/4	6,4	04	9/16-18	06	34,3	54	19
H1222591-05060L	5/16	7,9	05	9/16-18	06	36,2	54	19
H1222591-06060L	3/8	9,5	06	9/16-18	06	43,3	54	19
H1222591-06080L	3/8	9,5	06	3/4-16	08	46,8	64	25
H1222591-08080L	1/2	12,7	08	3/4-16	08	49,9	64	25
H1222591-08100L	1/2	12,7	08	7/8-14	10	37,3	65	27
H1222591-10100L	5/8	15,9	10	7/8-14	10	49,9	65	27
H1222591-10120L	5/8	15,9	10	1 1/16-12	12	49,9	96	32
H1222591-12120L	3/4	19	12	1 1/16-12	12	54,1	95	32
H1222591-16160L	1	25,4	16	1 5/16-12	16	78,6	114	38

H1212810

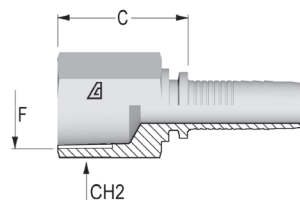
NPTF Male 60° seat AGN
NPTF Mâle 60° AGN



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H1212810-030200	3/16	4,8	03	1/8-27	02	19,8	12
H1212810-030400	3/16	4,8	03	1/4-18	04	25,3	15
H1212810-040200	1/4	6,4	04	1/8-27	02	21,3	14
H1212810-040400	1/4	6,4	04	1/4-18	04	26,8	17
H1212810-040600	1/4	6,4	04	3/8-18	06	27,8	19
H1212810-040800	1/4	6,4	04	1/2-14	08	31,3	22
H1212810-050400	5/16	7,9	05	1/4-18	04	26,8	17
H1212810-050600	5/16	7,9	05	3/8-18	06	27,8	19
H1212810-060400	3/8	9,5	06	1/4-18	04	26,8	17
H1212810-060600	3/8	9,5	06	3/8-18	06	27,8	19
H1212810-060800	3/8	9,5	06	1/2-14	08	31,3	22
H1212810-080600	1/2	12,7	08	3/8-18	06	28,6	19
H1212810-080800	1/2	12,7	08	1/2-14	08	32,1	22
H1212810-081200	1/2	12,7	08	3/4-14	12	34,1	27
H1212810-100800	5/8	15,9	10	1/2-14	08	33,1	24
H1212810-101200	5/8	15,9	10	3/4-14	12	34,1	27
H1212810-120800	3/4	19	12	1/2-14	08	33,6	27
H1212810-121200	3/4	19	12	3/4-14	12	34,6	27
H1212810-121600	3/4	19	12	1-11	16	43,6	36
H1212810-141600	7/8	22	14	1-11	16	43,6	36
H1212810-161200	1	25,4	16	3/4-14	12	39,4	36
H1212810-161600	1	25,4	16	1-11	16	44,4	36
H1212810-162000	1	25,4	16	1 1/4-11	20	47,4	46
H1212810-182000	1 1/8	29	18	1 1/4-11	20	47,4	46
H1212810-202000	1 1/4	31,8	20	1 1/4-11	20	49,0	46
H1212810-202400	1 1/4	31,8	20	1 1/2-11	24	50,5	50
H1212810-222400	1 3/8	35	22	1 1/2-11	24	50,5	50
H1212810-242400	1 1/2	38,1	24	1 1/2-11	24	50,5	50
H1212810-243200	1 1/2	38,1	24	2-11	32	54,2	65
H1212810-293200	1 13/16	46	29	2-11	32	54,2	65
H1212810-323200	2	50,8	32	2-11	32	54,2	65

H1222810

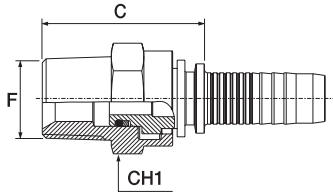
NPTF Solid female
NPTF Solide femelle



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH2 mm
H1222810-040200	1/4	6,4	04	1/8-27	02	22,3	14
H1222810-040400	1/4	6,4	04	1/4-18	04	27,8	19
H1222810-060600	3/8	9,5	06	3/8-18	06	28,8	22
H1222810-080800	1/2	12,7	08	1/2-14	08	35,6	25
H1222810-121200	3/4	19	12	3/4-14	12	38,1	32
H1222810-161600	1	25,4	16	1-11	16	44,9	38

H1212811

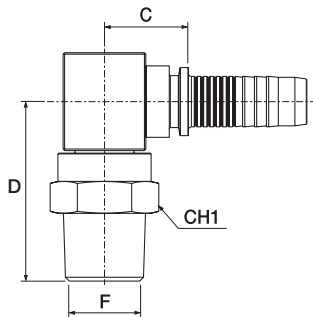
NPTF Male swivel 60° seat
NPTF Mâle tournant 60°



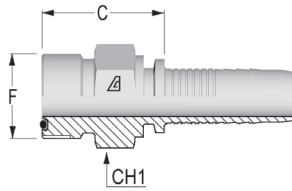
Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H1212811-040400	1/4	6,4	04	1/4-18	04	37,6	17
H1212811-040600	1/4	6,4	04	3/8-18	06	39,5	22
H1212811-060400	3/8	9,5	06	1/4-18	04	39,6	17
H1212811-060600	3/8	9,5	06	3/8-18	06	37,5	22
H1212811-060800	3/8	9,5	06	1/2-14	08	43,5	25
H1212811-080600	1/2	12,7	08	3/8-18	06	38,3	22
H1212811-080800	1/2	12,7	08	1/2-14	08	42,3	25
H1212811-121200	3/4	19	12	3/4-14	12	50,1	32
H1212811-161600	1	25,4	16	1-11	16	57,9	41

H1212881

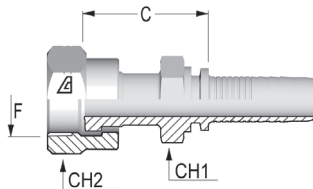
90° Compact NPTF Male swivel 60° seat
90° Compact NPTF Mâle tournant 60°



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH1 mm
H1212881-040400	1/4	6,4	04	1/4-18	04	17	39	17
H1212881-060600	3/8	9,5	06	3/8-18	06	20	41	22
H1212881-080800	1/2	12,7	08	1/2-14	08	22	48	25
H1212881-121200	3/4	19	12	3/4-14	12	27	61	32

H1212410**ORFS Male**
ORFS Mâle

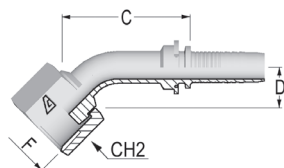
Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	C CUT-OFF Factor	CH1 mm
H1212410-040400	1/4	6,4	04	9/16-18	22,3	17
H1212410-040600	1/4	6,4	04	11/16-16	24,3	19
H1212410-050600	1/4	6,4	04	11/16-16	24,3	19
H1212410-060600	3/8	9,5	06	11/16-16	24,3	19
H1212410-060800	3/8	9,5	06	13/16-16	26,3	22
H1212410-061000	3/8	7,9	06	1-14	29,8	27
H1212410-080800	1/2	12,7	08	13/16-16	27,1	22
H1212410-081000	1/2	12,7	08	1-14	30,6	27
H1212410-081200	1/2	12,7	08	1 3/16-12	34,1	32
H1212410-101000	5/8	15,8	10	1-14	30,6	27
H1212410-101200	5/8	15,8	10	1 3/16-12	34,1	32
H1212410-121000	3/4	19	12	1-14	31,1	27
H1212410-121200	3/4	19	12	1 3/16-12	34,6	32
H1212410-121600	3/4	19	12	1 7/16-12	38,1	41
H1212410-161600	1	25,4	16	1 7/16-12	37,9	38
H1212410-162000	1	25,4	16	1 11/16-12	39,9	46
H1212410-202000	1 1/4	31,8	20	1 11/16-12	41,5	46

H1222411**ORFS Female**
with stem hexagon
ORFS Femelle
avec hexagone

Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
H1222411-030400	3/16	4,8	03	9/16-18	04	26,8	14	17
H1222411-040400	1/4	6,4	04	9/16-18	04	27,3	14	17
H1222411-040600	1/4	6,4	04	11/16-16	06	30,3	17	22
H1222411-040800	1/4	6,4	04	13/16-16	08	35,3	22	24
H1222411-050600	5/16	7,9	05	11/16-16	06	30,3	17	22
H1222411-060400	3/8	9,5	06	9/16-18	04	28,3	17	17
H1222411-060600	3/8	9,5	06	11/16-16	06	30,3	17	22
H1222411-060800	3/8	9,5	06	13/16-16	08	35,3	22	24
H1222411-080600	1/2	12,7	08	11/16-16	06	32,1	19	22
H1222411-080800	1/2	12,7	08	13/16-16	08	36,1	22	24
H1222411-081000	1/2	12,7	08	1-14	10	39,6	24	30
H1222411-081200	1/2	12,7	08	1 3/16-12	12	42,1	30	36
H1222411-100800	5/8	15,9	10	13/16-16	08	37,1	24	24
H1222411-101000	5/8	15,9	10	1-14	10	39,6	24	30
H1222411-101200	5/8	15,8	10	1 3/16-12	12	42,1	30	36
H1222411-121000	3/4	19	12	1-14	10	40,1	27	30
H1222411-121200	3/4	19	12	1 3/16-12	12	42,6	30	36
H1222411-121600	3/4	19	12	1 7/16-12	16	48,6	36	41
H1222411-141600	7/8	22,2	14	1 7/16-12	16	48,6	36	41
H1222411-161200	1	25,4	16	1 3/16-12	12	45,4	32	36
H1222411-161600	1	25,4	16	1 7/16-12	16	49,4	36	41
H1222411-162000	1	25,4	16	1 11/16-12	20	50,4	41	50
H1222411-202000	1 1/4	31,8	20	1 11/16-12	20	52,0	41	50
H1222411-202400	1 1/4	31,8	20	2-12	24	56,5	50	60
H1222411-242400	1 1/2	38,1	24	2-12	24	56,5	50	60

H1222443

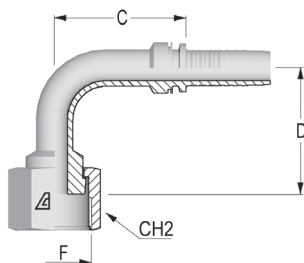
45° ORFS Female DK ORFS
45 Solid one piece
45° ORFS Femelle DK ORFS
45 Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1222443-04040M	1/4	6,4	04	9/16-18	04	41,1	11	22
H1222443-04060M	1/4	6,4	04	11/16-16	06	46,1	11	22
H1222443-05060M	5/16	7,9	05	11/16-16	06	46,3	12	22
H1222443-06060M	3/8	9,5	06	11/16-16	06	47,4	12	22
H1222443-06080M	3/8	9,5	06	13/16-16	08	51,2	15	24
H1222441-08080M	1/2	12,7	08	13/16-16	08	47,1	16	24
H1222443-08100M	1/2	12,7	08	1-14	10	50,4	16,5	30
H1222443-10100M	5/8	15,9	10	1-14	10	57,7	17	30
H1222443-10120M	5/8	15,9	10	1 3/16-12	12	63,1	21	36
H1222441-12100M	3/4	19	12	1-14	10	53,1	20	30
H1222443-12120M	3/4	19	12	1 3/16-12	12	63,5	21	36
H1222443-12160M	3/4	19	12	1 7/16-12	16	70,7	24	41
H1222443-16160M	1	25,4	16	1 7/16-12	16	82,4	26	41
H1222443-16200M	1	25,4	16	1 11/16-12	20	85,4	26	50
H1222443-20200M	1 1/4	31,8	20	1 11/16-12	20	97,4	26	50
H1222443-20240M	1 1/4	31,8	20	2-12	24	101,1	28	57
H1222443-24240M	1 1/2	38,1	24	2-12	24	105,5	28	57

H1222493-S

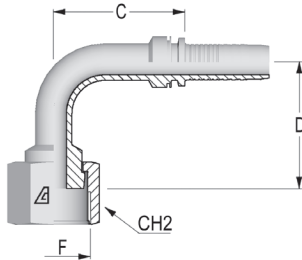
90° ORFS female short drop
DK ORFS 90S Solid one piece
90° ORFS femelle court
DK ORFS 90S Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1222493-04040S	1/4	6,4	04	9/16-18	04	28,5	21	17
H1222493-04060S	1/4	6,4	04	11/16-16	06	32,0	23	22
H1222493-05060S	5/16	7,9	05	11/16-16	06	48,7	26	22
H1222493-06060S	3/8	9,5	06	11/16-16	06	41,8	25	22
H1222493-06080S	3/8	9,5	06	13/16-16	08	41,8	29	24
H1222491-08060S	3/8	9,5	06	11/16-16	06	44,1	25	22
H1222491-08080S	1/2	12,7	08	13/16-16	08	39,8	29	24
H1222493-08100S	1/2	12,7	08	1-14	10	46,3	32,5	30
H1222493-08120S	1/2	12,7	08	1 3/16-12	12	56,3	51	36
H1222493-10100S	5/8	15,9	10	1-14	10	52,3	32,5	30
H1222493-10120S	5/8	15,9	10	1 3/16-12	12	55,4	49	36
H1222493-12120S	3/4	19	12	1 3/16-12	12	60,6	51	36
H1222493-12160S	3/4	19	12	1 7/16-12	16	61,6	56	41
H1222491-16120S	1	25,4	16	1 3/16-12	12	54,6	51	36
H1222493-16160S	1	25,4	16	1 7/16-12	16	82,6	58	41
H1222493-16200S	1	25,4	16	1 11/16-12	20	82,6	64	50
H1222493-20200S	1 1/4	31,8	20	1 11/16-12	20	95,0	68	50
H1222493-20240S	1 1/4	31,8	20	2-12	24	102,0	69	57
H1222493-24240S	1 1/2	38,1	24	2-12	24	101,6	78	60

H1222493-M

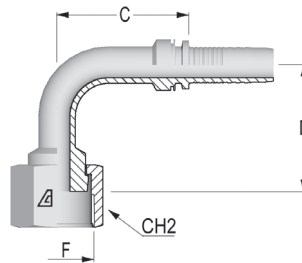
90° ORFS female medium drop
DK ORFS 90M Solid one piece
90° ORFS femelle medium DK
ORFS 90M Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1222493-04040M	1/4	6,4	04	9/16-18	04	29,8	32	17
H1222493-04060M	1/4	6,4	04	11/16-16	06	37,3	38	22
H1222493-05060M	5/16	7,9	05	11/16-16	06	40,7	34	22
H1222493-06060M	3/8	9,5	06	11/16-16	06	41,8	38	22
H1222493-06080M	3/8	9,5	06	13/16-16	08	43,8	41	24
H1222491-08080M	1/2	12,7	08	13/16-16	08	34,8	42	24
H1222493-08100M	1/2	12,7	08	1-14	10	48,3	47	30
H1222493-10100M	5/8	15,9	10	1-14	10	55,4	44	30
H1222493-10120M	5/8	15,9	10	1 3/16-12	12	55,4	58	36
H1222493-12120M	3/4	19	12	1 3/16-12	12	61,6	58	36
H1222493-12160M	3/4	19	12	1 7/16-12	16	65,6	71	41
H1222491-16120M	1	25,4	16	1 3/16-12	12	62,6	58	36
H1222493-16160M	1	25,4	16	1 7/16-12	16	82,6	66	41
H1222493-16200M	1	25,4	16	1 11/16-12	20	82,6	78	50
H1222493-20200M	1 1/4	31,8	20	1 11/16-12	20	97,0	78	50
H1222493-20240M	1 1/4	31,8	20	2-12	24	102,0	84	57
H1222493-24240M	1 1/2	38,1	24	2-12	24	107,8	87	57

H1222493-L

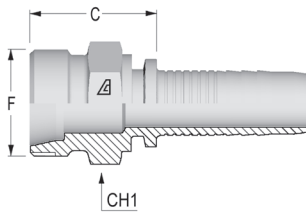
90° ORFS female long drop DK
ORFS 90L Solid one piece
90° ORFS femelle long DK ORFS
90L Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1222493-04040L	1/4	6,4	04	9/16-18	04	32,8	46	17
H1222493-04060L	1/4	6,4	04	11/16-16	06	34,8	54	22
H1222493-06060L	3/8	9,5	06	11/16-16	06	41,8	54	22
H1222493-06080L	3/8	9,5	06	13/16-16	08	46,8	64	24
H1222491-08080L	1/2	12,7	08	13/16-16	08	38,3	64	24
H1222493-08100L	1/2	12,7	08	1-14	10	46,3	70	30
H1222493-10100L	5/8	15,9	10	1-14	10	55,4	70	30
H1222493-10120L	5/8	15,9	10	1 3/16-12	12	55,4	96	36
H1222493-12120L	3/4	19	12	1 3/16-12	12	61,6	96	36
H1222493-12160L	3/4	19	12	1 7/16-12	16	61,6	118	41
H1222493-16160L	1	25,4	16	1 7/16-12	16	82,6	114	41
H1222493-20200L	1 1/4	31,8	20	1 11/16-12	20	97,0	129	50
H1222493-20240L	1 1/4	31,8	20	2-12	24	102,0	141	57
H1222493-24240L	1 1/2	38,1	24	2-12	24	110,8	141	57

H1211810

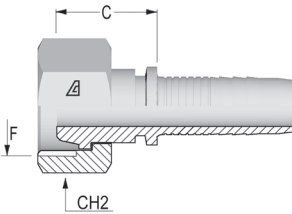
Metric male French type
Métrique mâle type français



Code	Hose ID in	Hose ID mm	DASH	F Thread	Hose OD mm	C CUT-OFF Factor	CH1 mm
H1211810-052000	5/16	7,9	05	20x1,5	13,25	25,3	22
H1211810-062000	3/8	9,5	06	20x1,5	13,25	25,3	22
H1211810-082400	1/2	12,7	08	24x1,5	16,75	27,1	24
H1211810-103000	5/8	15,9	10	30x1,5	21,25	31,1	30
H1211810-123600	3/4	19	12	36x1,5	26,75	33,6	36
H1211810-164500	1	25,4	16	45x1,5	33,50	38,4	46

H1221813

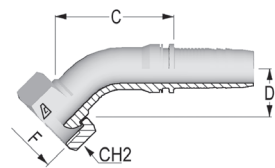
Metric female French type
Métrique femelle type français



Code	Hose ID in	Hose ID mm	DASH	F Thread	Hose OD mm	C CUT-OFF Factor	CH2 mm
H1221813-042000	1/4	6,4	04	20x1,5	13,25	23,8	24
H1221813-052000	5/16	7,9	05	20x1,5	13,25	23,8	24
H1221813-062000	3/8	9,5	06	20x1,5	13,25	23,8	24
H1221813-062400	3/8	9,5	06	24x1,5	16,75	26,8	30
H1221813-082400	1/2	12,7	08	24x1,5	16,75	26,8	30
H1221813-083000	1/2	12,7	08	30x1,5	21,25	25,6	36
H1221813-103000	5/8	15,9	10	30x1,5	21,25	26,6	36
H1221813-123600	3/4	19	12	36x1,5	26,75	27	42

H1221843

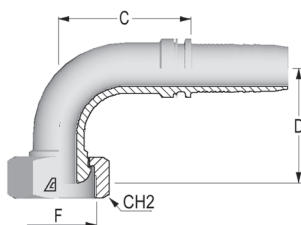
45° Metric female French type
45° Métrique femelle type français



Code	Hose ID in	Hose ID mm	DASH	F Thread	Hose OD mm	C CUT-OFF Factor	D DROP mm	CH2 mm
H1221843-052000	5/16	7,9	05	20x1,5	13,25	41,1	19	24
H1221843-062000	3/8	9,5	06	20x1,5	13,25	42,1	19	24
H1221843-082400	1/2	12,7	08	24x1,5	16,75	48,4	23,5	30
H1221843-103000	5/8	15,9	10	30x1,5	21,25	54	25	36
H1221843-123600	3/4	19	12	36x1,5	26,75	54	23,5	42

H1221893

90° Metric female French type
90° Métrique femelle type français

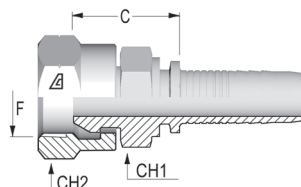


Code	Hose ID in	Hose ID mm	DASH	F Thread	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1221893-052000	5/16	7,9	05	20x1,5	13,25	32,5	36,5	24
H1221893-062000	3/8	9,5	06	20x1,5	13,25	36,7	44	24
H1221893-082400	1/2	12,7	08	24x1,5	16,75	39,5	46	30
H1221893-103000	5/8	15,9	10	30x1,5	21,25	43	49	36
H1221893-123600	3/4	19	12	36x1,5	26,75	46,6	48,5	42

H1223711

JIS Female 60° cone B 8363
(type C)

JIS Femelle 60° cone B 8363
(type C)

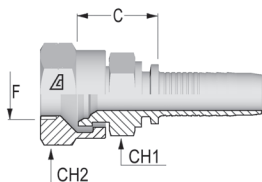


Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
H1223711-040400	1/4	6,4	04	1/4-19	04	24,3	17	19
H1223711-040600	1/4	6,4	04	3/8-19	06	25,5	19	22
H1223711-060600	3/8	9,5	06	3/8-19	06	25,5	19	22
H1223711-060800	3/8	9,5	06	1/2-14	08	25,3	22	27
H1223711-080800	1/2	12,7	08	1/2-14	08	26,1	22	27
H1223711-101200	5/8	15,9	10	3/4-14	12	27,1	24	27
H1223711-100800	5/8	15,9	10	1/2-14	08	30,1	30	36
H1223711-121200	3/4	19	12	3/4-14	12	33,1	30	36
H1223711-161600	1	25,4	16	1-11	16	35,4	36	41

H122381Z

JIS Female 60° seat flare B 8363 (type F)

JIS Femelle 60° flare B 8363
(type F)

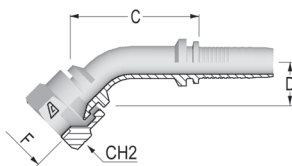


Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
H122381Z-040400	1/4	6,4	04	1/4-19	04	20,8	17	19
H122381Z-060600	3/8	9,5	06	3/8-19	06	21,8	19	22
H122381Z-080800	1/2	12,7	08	1/2-14	08	23,6	22	27
H122381Z-121200	3/4	19	12	3/4-14	12	27,1	30	36
H122381Z-161600	1	25,4	16	1-11	16	32,9	36	41
H122381Z-202000	1 1/4	31,8	20	1 1/4-11	20	39,5	46	50
H122381Z-242400	1 1/2	38,1	24	1 1/2-11	24	41,5	50	55

H122384Z

45° JIS Female 60°
B8363 seat flare (type F)

45° JIS Femelle 60°
B8363 flare (type F)

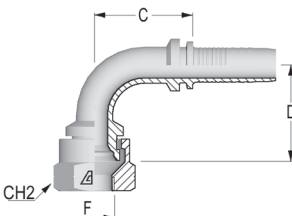


Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H122384Z-040400	1/4	6,4	04	1/4-19	04	42,4	14,2	19
H122384Z-060600	3/8	9,5	06	3/8-19	06	50,8	16,5	22
H122384Z-080800	1/2	12,7	08	1/2-14	08	54,5	18	27
H122384Z-121200	3/4	19	12	3/4-14	12	70,7	21,7	36
H122384Z-161600	1	25,4	16	1-11	16	81,6	28,7	41

H122389Z

90° JIS Female 60°
B8363 seat flare (type F)

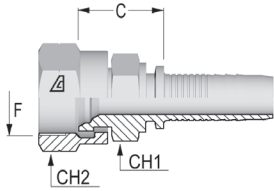
90° JIS Femelle 60°
B8363 flare (type F)



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H122389Z-040400	1/4	6,4	04	1/4-19	04	27,7	29,5	19
H122389Z-060600	3/8	9,5	06	3/8-19	06	31,8	33	22
H122389Z-080800	1/2	12,7	08	1/2-14	08	37,5	36,5	27
H122389Z-121200	3/4	19	12	3/4-14	12	50	47	36
H122389Z-161600	1	25,4	16	1-11	16	76,4	64,5	41

H1224011

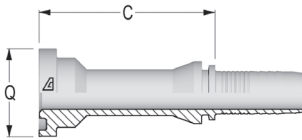
Komatsu female
Komatsu femelle



Code	Hose ID in	Hose ID mm	DASH	F Thread	C CUT-OFF Factor	CH1 mm	CH2 mm
H1224011-041400	1/4	6,4	04	14x1,5	20,7	17	19
H1224011-061400	3/8	9,5	06	14x1,5	20,8	17	19
H1224011-061800	3/8	9,5	06	18x1,5	22,8	19	22
H1224011-082200	1/2	12,7	08	22x1,5	24,6	22	27
H1224011-102400	5/8	15,9	10	24x1,5	29,2	30	32
H1224011-123000	3/4	19	12	30x1,5	27,5	30	36
H1224011-163300	1	25,4	16	33x1,5	35,7	36	41
H1224011-203600	1 1/4	31,8	20	36x1,5	43,5	46	46
H1224011-244200	1 1/2	38,1	24	42x1,5	44	55	55

H1244110

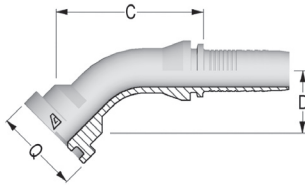
Komatsu flange
Bride Komatsu



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	Q mm	C CUT-OFF Factor
H1244110-101000	5/8	15,9	10	5/8	34	46,6

H1244140

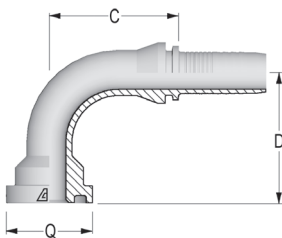
45° Komatsu flange
Solid one piece
Bride 45° Komatsu
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	Q mm	C CUT-OFF Factor	D DROP mm
H1244140-101000	5/8	15,9	10	5/8	34	59	23

H1244190

90° Komatsu flange
Solid one piece
Bride 90° Komatsu
Solide un morceau

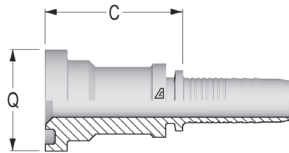


Code	Hose ID in	Hose ID mm	DASH	Q mm	C CUT-OFF Factor	D DROP mm
H1244190-101000	5/8	15,9	10	34	51	51

H1243310

Flange SAE 3000 PSI J518
code 61 SFL

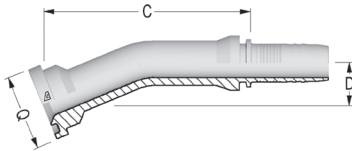
Bride SAE 3000 PSI J518 code
61 SFL



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	Max WP psi	Q mm	C CUT-OFF Factor
H1243310-080800	1/2	12,7	08	1/2	5000	30,2	41,0
H1243310-081200	1/2	12,7	08	3/4	5000	38,1	42,0
H1243310-101200	5/8	15,9	10	3/4	5000	38,1	42,2
H1243310-121200	3/4	19	12	3/4	5000	38,1	42,5
H1243310-121600	3/4	19	12	1	5000	44,5	50,5
H1243310-161600	1	25,4	16	1	5000	44,5	51,4
H1243310-162000	1	25,4	16	1 1/4	4000	50,8	53,9
H1243310-162400	1	25,4	16	1 1/2	3000	60,3	56,9
H1243310-201600	1 1/4	31,8	20	1	5000	44,5	53,0
H1243310-202000	1 1/4	31,8	20	1 1/4	4000	50,8	55,5
H1243310-202400	1 1/4	31,8	20	1 1/2	3000	60,3	58,5
H1243310-242400	1 1/2	38,1	24	1 1/2	3000	60,3	58,5
H1243310-243200	1 1/2	38,1	24	2	3000	71,4	70,0
H1243310-322400	2	50,8	32	1 1/2	3000	60,3	66,0
H1243310-323200	2	50,8	32	2	3000	71,4	70,0
H1243310-324000	2	50,8	32	2 1/2	2500	81,1	83,0
H1243310-403200	2 1/2	63,5	40	2	3000	71,4	90
H1243310-404000	2 1/2	63,5	40	2 1/2	2500	84,1	117
C12243310-48480	3	76,2	48	3	2000	101,6	135
C12243310-64640	4	101,6	64	4	500	127	150

H1243320

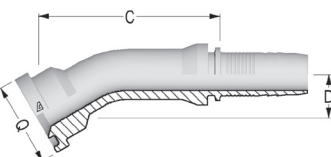
22° Flange SAE 3000 PSI J518
code 61 SFL 22 Solid one piece
Bride 22° SAE 3000 PSI J518
code 61 SFL 22 Solide un
morceau



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	Max WP psi	Q mm	C CUT-OFF Factor	D DROP mm
H1243320-161600	1	25,4	16	1	5000	44,5	86,4	12
H1243320-202000	1 1/4	31,8	20	1 1/4	4000	50,8	100,6	16
H1243320-202400	1 1/4	31,8	20	1 1/2	3000	60,3	117	20,5
H1243320-242400	1 1/2	38,1	24	1 1/2	3000	60,3	133,5	22
H1243320-323200	2	50,8	32	2	3000	71,4	150	30

H1243330

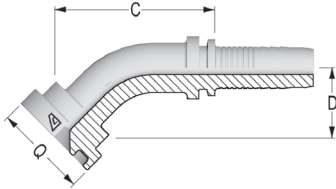
30° Flange SAE 3000 PSI J518
code 61 SFL 30 Solid one piece
Bride 30° SAE 3000 PSI J518
code 61 SFL 30 Solide un
morceau



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	Max WP psi	Q mm	C CUT-OFF Factor	D DROP mm
H1243330-121200	3/4	19	12	3/4	5000	38,1	67,7	12
H1243330-121600	3/4	19	12	1	5000	44,5	70,7	12
H1243330-161600	1	25,4	16	1	5000	44,5	69,3	12
H1243330-162000	1	25,4	16	1 1/4	4000	50,8	67,1	12
H1243330-162400	1	25,4	16	1 1/2	3000	60,3	75	12
H1243330-202000	1 1/4	31,8	20	1 1/4	4000	50,8	74,3	12
H1243330-202400	1 1/4	31,8	20	1 1/2	3000	60,3	81,5	13
H1243330-242400	1 1/2	38,1	24	1 1/2	3000	60,3	136	23
H1243330-243200	1 1/2	38,1	24	2	3000	71,4	136,9	29,5

H1243340

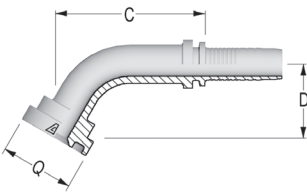
45° Flange SAE 3000 PSI J518
code 61 SFL 45
Solid one piece
Bride 45° SAE 3000 PSI J518
code 61 SFL 45
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	Max WP psi	Q mm	C CUT-OFF Factor	D DROP mm
H1243340-080800	1/2	12,7	08	1/2	5000	30,2	43,7	22
H1243340-081200	1/2	12,7	08	3/4	5000	38,1	50,4	26
H1243340-101200	5/8	15,9	10	3/4	5000	38,1	55,1	26
H1243340-121200	3/4	19	12	3/4	5000	38,1	63,8	32
H1243340-121600	3/4	19	12	1	5000	44,5	68,0	29
H1243340-122000	3/4	19	12	1	5000	50,8	70	32
H1243340-161600	1	25,4	16	1	5000	44,5	72,8	33,5
H1243340-162000	1	25,4	16	1 1/4	4000	50,8	72,3	36
H1243340-201600	1 1/4	31,8	20	1 1/4	4000	44,5	104,7	35,1
H1243340-202000	1 1/4	31,8	20	1 1/4	4000	50,8	85,2	37,5
H1243340-202400	1 1/4	31,8	20	1 1/4	4000	60,3	92,8	40
H1243340-242000	1 1/2	38,1	24	1 1/2	3000	50,8	98	45
H1243340-242400	1 1/2	38,1	24	1 1/2	3000	60,3	105,4	48
H1243340-243200	1 1/2	38,1	24	2	3000	71,4	124,3	55,5
H1243340-323200	2	50,8	32	2	3000	71,4	129,5	47,5
H1243340-4040SL	2 1/2	63,5	40	2 1/2	2500	84,1	162	115
C12243340-48480	3	76,2	48	3	2000	101,6	196	135
C12243340-64640	4	101,6	64	4	500	127	233,5	161

H1243360

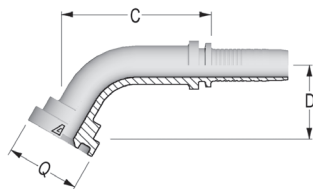
60° Flange SAE 3000 PSI J518
code 61 SFL 60
Solid one piece
Bride 60° SAE 3000 PSI J518
code 61 SFL 60
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	Max WP psi	Q mm	C CUT-OFF Factor	D DROP mm
H1243360-080800	1/2	12,7	08	1/2	5000	30,2	70	28
H1243360-121200	3/4	19	12	3/4	5000	38,1	86	37
H1243360-121600	3/4	19	12	1	5000	44,5	102	44
H1243360-161600	1	25,4	16	1	5000	44,5	101	47
H1243360-162000	1	25,4	16	1 1/4	4000	50,8	106,5	43,5
H1243360-202000	1 1/4	31,8	20	1 1/4	4000	50,8	129,5	56,5
H1243360-242400	1 1/2	38,1	24	1 1/2	3000	60,3	151	57
H1243360-243200	1 1/2	38,1	24	2	3000	71,4	160	80
H1243360-323200	2	50,8	32	2	3000	71,4	164,4	92

H1243370

67° Flange SAE 3000 PSI J518
code 61 SFL 67
Solid one piece
Bride 67° SAE 3000 PSI J518
code 61 SFL 67
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	Max WP psi	Q mm	C CUT-OFF Factor	D DROP mm
H1243370-121200	3/4	19	12	3/4	5000	38,1	78,5	45,5
H1243370-161600	1	25,4	16	1	5000	44,5	93,5	49,5
H1243370-162000	1	25,4	16	1 1/4	4000	50,8	98,5	53,5
H1243370-202000	1 1/4	31,8	20	1 1/4	4000	50,8	120	62,5
H1243370-242400	1 1/2	38,1	24	1 1/2	3000	60,3	135,5	65,5
H1243370-243200	1 1/2	38,1	24	2	3000	71,4	141	88
H1243370-323200	2	50,8	32	2	3000	71,4	179	95,5

Standard
FITTINGSInterlock
FITTINGSAlfacrimp
FITTINGS

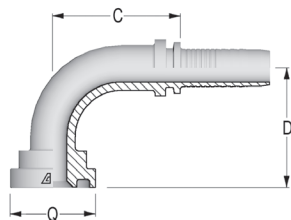
Accessories

Stainless Steel
FITTINGSStandard
ADAPTERSORFS
ADAPTERSMETRIC - BSP
ADAPTERS

CRIMPERS

H1243390

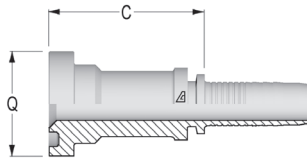
90° Flange SAE 3000 PSI J518
code 61 SFL 90
Solid one piece
Bride 90° SAE 3000 PSI J518
code 61 SFL 90
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	Max WP psi	Q mm	C CUT-OFF Factor	D DROP mm
H1243390-080800	1/2	12,7	08	1/2	5000	30,2	45,8	42
H1243390-081200	1/2	12,7	08	3/4	5000	38,1	45,3	51
H1243390-081600	1/2	12,7	08	1	5000	44,5	59,9	63
H1243390-101200	5/8	15,9	10	3/4	5000	38,1	49,4	51
H1243390-121200	3/4	19	12	3/4	5000	38,1	57,7	60
H1243390-121600	3/4	19	12	1	5000	44,5	66,2	64,5
H1243390-122000	3/4	19	12	1 1/4	4000	50,8	68	70
H1243390-161600	1	25,4	16	1	5000	44,5	70,6	67
H1243390-162000	1	25,4	16	1 1/4	4000	50,8	73,6	71
H1243390-162400	1	25,4	16	1 1/2	3000	60,3	93,1	75
H1243390-201600	1 1/4	31,8	20	1	5000	44,5	94,4	65
H1243390-202000	1 1/4	31,8	20	1 1/4	4000	50,8	88,0	84
H1243390-202400	1 1/4	31,8	20	1 1/2	3000	60,3	91,5	87,5
H1243390-242000	1 1/2	38,1	24	1 1/4	4000	50,8	93,6	93
H1243390-242400	1 1/2	38,1	24	1 1/2	3000	60,3	104,8	91
H1243390-243200	1 1/2	38,1	24	2	3000	71,4	104,8	115
H1243390-322400	2	50,8	32	1 1/2	3000	60,3	132,8	133
H1243390-323200	2	50,8	32	2	3000	71,4	127,2	130
H1243390-3240S0	2	50,8	32	2 1/2	2500	84,1	130	160
H1243390-4032S0	2 1/2	63,5	40	2	3000	71,4	137	160
H1243390-4040SL	2 1/2	63,5	40	2 1/2	2500	84,1	137	170
C12243390-48480	3	76,2	48	3	2000	101,6	169,5	200
C12243390-64640	4	101,6	64	4	500	127	207,5	252

H1243610

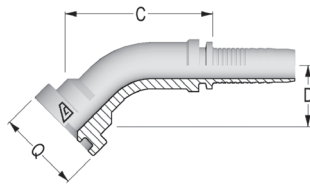
Flange SAE 6000 PSI J518
code 62 SFS
Bride SAE 6000 PSI J518
code 62 SFS



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	Max WP psi	Q mm	C CUT-OFF Factor
H1243610-080800	1/2	12,7	08	1/2	6000	31,8	47,0
H1243610-081200	1/2	12,7	08	3/4	6000	41,3	52,0
H1243610-101200	5/8	15,9	10	3/4	6000	41,3	52,2
H1243610-101600	5/8	15,9	10	1	6000	47,6	55,7
H1243610-121200	3/4	19	12	3/4	6000	41,3	52,5
H1243610-121600	3/4	19	12	1	6000	47,6	55,5
H1243610-161200	1	25,4	16	3/4	6000	41,3	56,4
H1243610-161600	1	25,4	16	1	6000	47,6	56,4
H1243610-162000	1	25,4	16	1 1/4	6000	54	63,4
H1243610-202000	1 1/4	31,8	20	1 1/4	6000	54	83,0
H1243610-202400	1 1/4	31,8	20	1 1/2	6000	63,5	71,0
H1243610-242000	1 1/2	38,1	24	1 1/4	6000	54	95,0
H1243610-242400	1 1/2	38,1	24	1 1/2	6000	63,5	101,0
H1243610-243200	1 1/2	38,1	24	2	6000	79,4	76,0
H1243610-323200	2	50,8	32	2	6000	79,4	76,0

H1243640

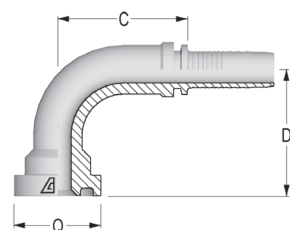
45° Flange SAE 6000 PSI J518
code 62 SFS 45
Solid one piece
Bride 45° SAE 6000 PSI J518
code 62 SFS 45
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	Max WP psi	Q mm	C CUT-OFF Factor	D DROP mm
H1243640-080800	1/2	12,7	08	1/2	6000	31,8	46,6	23
H1243640-081200	1/2	12,7	08	3/4	6000	41,3	67,2	30,5
H1243640-101200	5/8	15,9	10	3/4	6000	41,3	69,0	31
H1243640-121200	3/4	19	12	3/4	6000	41,3	71,4	31
H1243640-121600	3/4	19	12	1	6000	47,6	65,2	33,5
H1243640-161600	1	25,4	16	1	6000	47,6	81,9	36
H1243640-162000	1	25,4	16	1 1/4	6000	54	78,4	39
H1243640-201600	1 1/4	31,8	20	1	6000	47,6	99,2	35
H1243640-202000	1 1/4	31,8	20	1 1/4	6000	54	90,9	40
H1243640-202400	1 1/4	31,8	20	1 1/2	6000	63,5	93,6	45,5
H1243640-242400	1 1/2	38,1	24	1 1/2	6000	63,5	101,7	45
H1243640-243200	1 1/2	38,1	24	2	6000	79,4	106,4	57,5
H1243640-323200	2	50,8	32	2	6000	79,4	129,7	60

H1243690

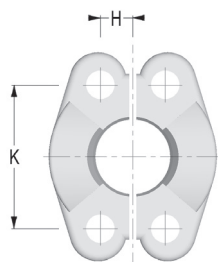
90° Flange SAE 6000 PSI J518
code 62 SFS 90
Solid one piece
Bride 90° SAE 6000 PSI J518
code 62 SFS 90
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	Max WP psi	Q mm	C CUT-OFF Factor	D DROP mm
H1243690-080800	1/2	12,7	08	1/2	6000	31,8	47,8	46
H1243690-081200	1/2	12,7	08	3/4	6000	41,3	47,8	54
H1243690-100800	5/8	15,9	10	1/2	6000	31,8	50,4	52
H1243690-101200	5/8	15,9	10	3/4	6000	41,3	49,9	55
H1243690-101600	5/8	15,9	10	1	6000	47,6	51,4	75
H1243690-121200	3/4	19	12	3/4	6000	41,3	63,2	61
H1243690-121600	3/4	19	12	1	6000	47,6	63,2	66
H1243690-161200	1	25,4	16	3/4	6000	41,3	72,6	61
H1243690-161600	1	25,4	16	1	6000	47,6	73,6	75
H1243690-162000	1	25,4	16	1 1/4	6000	54	77,6	78
H1243690-202000	1 1/4	31,8	20	1 1/4	6000	54	94,5	89
H1243690-202400	1 1/4	31,8	20	1 1/2	6000	63,5	98,0	94
H1243690-242400	1 1/2	38,1	24	1 1/2	6000	63,5	99,6	105
H1243690-243200	1 1/2	38,1	24	2	6000	79,4	114,7	123
H1243690-323200	2	50,8	32	2	6000	79,4	143,3	132

H10W3320

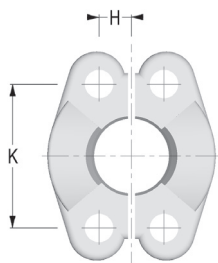
Split Flange Clamp Half 3000
PSI J518 code 61 FHL
Demi Bride 3000 PSI
Code 61



Code	Flange SIZE	K mm	H mm
H10W3320-080000	1/2	38,1	8,7
H10W3320-120000	3/4	47,6	11,1
H10W3320-160000	1	52,4	13,1
H10W3320-200000	1 1/4	58,7	15,1
H10W3320-240000	1 1/2	69,9	17,9
H10W3320-320000	2	77,8	21,4
H10W3320-400000	2 1/2	89	25,5
H10W3320-480000	3	106	31
H10W3320-560000	3 1/2	120	35
H10W3320-640000	4	130	39

H10W3620

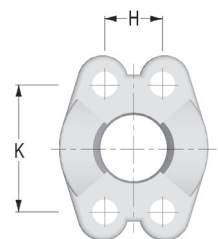
Split Flange Clamp Half 6000
PSI J518 code 62 FHS
Demi Bride 6000 PSI
Code 62



Code	Flange SIZE	K mm	H mm
H10W3620-080000	1/2	40,5	9,1
H10W3620-120000	3/4	50,8	11,9
H10W3620-160000	1	57,2	13,9
H10W3620-200000	1 1/4	66,7	15,9
H10W3620-240000	1 1/2	79,4	18,3
H10W3620-320000	2	96,8	22,2

H10W3310

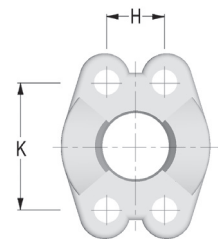
4 Hole flange clamp
3000 PSI J518 code 61 VHL
Demi Bride a 4 Trous
3000 PSI Code 61



Code	Flange SIZE	K mm	H mm
H10W3310-120000	3/4	47,6	22,2
H10W3310-160000	1	52,4	26,2
H10W3310-200000	1 1/4	58,7	30,2
H10W3310-240000	1 1/2	69,9	35,8
H10W3310-320000	2	77,8	42,8

H10W3610

4 Hole flange clamp
6000 PSI J518 code 62 VHS
Demi Bride a 4 Trous
6000 PSI Code 62



Code	Flange SIZE	K mm	H mm
H10W3610-080000	1/2	18,2	40,5
H10W3610-120000	3/4	23,8	50,8
H10W3610-160000	1	27,8	57,2
H10W3610-200000	1 1/4	31,8	66,7
H10W3610-240000	1 1/2	36,6	79,4
H10W3610-320000	2	44,4	96,8
H10W3610-400000	2 1/2	123,8	58,7



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JIS INSERTS/ENBOUTS.....	80
ORFS INSERTS/ENBOUTS	81
SAE FLANGES/BRIDES	82
SUPERCAT FLANGES/BRIDES.....	84

TUYAUX
Hydraulique

TUYAUX
PTFE

RACCORDS
Standard

RACCORDS
Interlock

RACCORDS
Alfacrimp

Accessoires

RACCORDS en
Acier Inoxydable

ADAPTATEURS
Standard

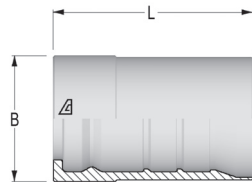
ADAPTATEURS
ORFS

ADAPTATEURS
MÉTRIQUE-BSP

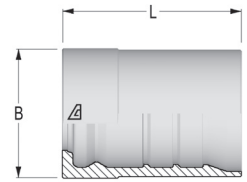
SERTISSEUSES

// DOUBLE SKIVE FERRULES FOR INTERLOCK FITTINGS

Hose	Table n°	-06 DN 10 3/8	-08 DN 12 1/2	-10 DN 16 5/8	-12 DN 19 3/4	-16 DN 25 1	-20 DN 32 1 1/4	-24 DN 38 1 1/2	-32 DN 51 2	-40 DN 63 2 1/2	-48 DN 76 3
FLEXOR R13	7				H1400200	H1400200	H1400301	H1400301	H1400301	H1T00600	
FLEXOR R15	146			H1400301	H1400200	H1400200	H1400301	H1400301	H1T00600		
FLEXOR 4SH	8				H1400200	H1400200	H1400200	H1400200	H1400200		
ALFABIOTECH 3000	217										H1T00600
ALFABIOTECH 4000	195							H1400200	H1400200		
ALFABIOTECH 5000	189				H1400200	H1400200	H1400200	H1400301	H1400301		
ALFABIOTECH 5000P	190				H1400200	H1400200					
ALFABIOTECH 6000	191			H1400301	H1400200	H1400200	H1400301	H1400301			
AT7K MINETUFF	101			H1400301			H1400301	H1400301			
AT8K MINETUFF	102				H1400301	H1400301					

INTERLOCK - FERRULES - DOUBLE SKIVE**H1400200**

Code	Hose ID	Hose ID	DASH	B	L
H1400200-060000	3/8	9,5	06	27	49
H1400200-080000	1/2	12,7	08	30	52,5
H1400200-100000	5/8	15,9	10	34	57,5
H1400200-120000	3/4	19	12	38	60,1
H1400200-160000	1	25,4	16	46	74,6
H1400200-200000	1 1/4	31,8	20	55	88,1
H1400200-240000	1 1/2	38,1	24	62	94,1
H1400200-320000	2	50,8	32	78	99,1

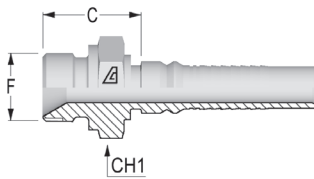
**H1400301**

Code	Hose ID	Hose ID	DASH	B	L
H1400301-100000	5/8	15,9	10	35,5	57,5
H1400301-120000	3/4	19	12	43,5	60
H1400301-160000	1	25,4	16	52	74,8
H1400301-200000	1 1/4	31,8	20	64	88,1
H1400301-240000	1 1/2	38,1	24	69,5	94,1
H1400301-320000	2	50,8	32	88	99,1

H1410510

BSPP Male parallel 60° Flare - AGR

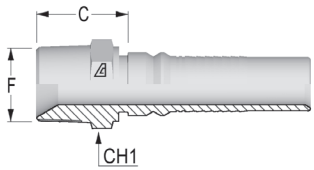
BSPP Mâle parallèle 60° Flare - AGR



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread Factor	C CUT-OFF Factor	CH1 mm
H1410510-060600	3/8	9,5	06	3/8-19	06	26,5	22
H1410510-080800	1/2	12,7	08	1/2-14	08	30	27
H1410510-101000	5/8	15,9	10	5/8-14	10	34	30
H1410510-121200	3/4	19	12	3/4-14	12	32	32
H1410510-161600	1	25,4	16	1-11	16	38	41
H1410510-202000	1 1/4	31,8	20	1 1/4-11	20	44,2	50
H1410510-242400	1 1/2	38,1	24	1 1/2-11	24	46,5	55
H1410510-323200	2	50,8	32	2-11	32	52,5	70

H1410710

BSPT Male tapered AGR K
BSPT Mâle conique AGR K

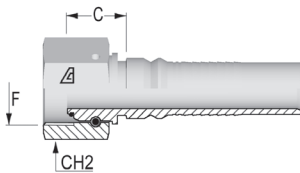


Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread Factor	C CUT-OFF Factor	CH1 mm
H1410710-121200	3/4	19	12	3/4-14	12	32	27
H1410710-161600	1	25,4	16	1-11	16	41	36
H1410710-202000	1 1/4	31,8	20	1 1/4-11	20	46,2	46
H1410710-242400	1 1/2	38,1	24	1 1/2-11	24	48,0	50
H1410710-323200	2	50,8	32	2-11	32	53,2	65

H1420812

BSPP Female 60° cone with O-Ring DKOR

BSPP Femelle 60° cone avec O-Ring DKOR



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread Factor	C CUT-OFF Factor	CH2 mm
H1420811-080800	1/2	12,7	08	1/2-14	08	22,5	32
H1420812-121200	3/4	19	12	3/4-14	12	25,5	38
H1420812-161600	1	25,4	16	1-11	16	30,2	50
H1420812-202000	1 1/4	31,8	20	1 1/4-11	20	33,5	55
H1420812-242400	1 1/2	38,1	24	1 1/2-11	24	35,0	70
H1420812-323200	2	50,8	32	2-11	32	33	70

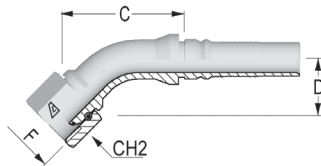
H1420842

45° BSPP Female 60° cone with O-Ring DKOR 45

Solid one piece

45° BSPP Femelle 60° cone avec O-Ring DKOR 45

Solide un morceau

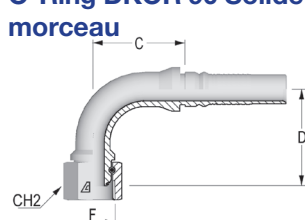


Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1420842-121200	3/4	19	12	3/4-14	12	69	30	32
H1420842-161600	1	25,4	16	1-11	16	103,5	34	38
H1420842-202000	1 1/4	31,8	20	1 1/4-11	20	97,2	40	50
H1420842-242400	1 1/2	38,1	24	1 1/2-11	24	108,5	46	55
H1420842-323200	2	50,8	32	2-11	32	143	60	70

H1420892

90° BSPP Female 60° cone with O-Ring DKOR 90 Solid one piece

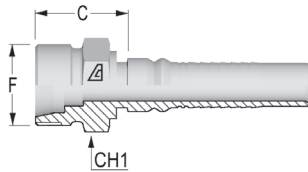
90° BSPP Femelle 60° cone avec O-Ring DKOR 90 Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1420892-121200	3/4	19	12	3/4-14	12	58	61	32
H1420892-161600	1	25,4	16	1-11	16	71	71	38
H1420892-202000	1 1/4	31,8	20	1 1/4-11	20	79,2	83	50
H1420892-242400	1 1/2	38,1	24	1 1/2-11	24	93,5	96	55
H1420892-323200	2	50,8	32	2-11	32	144	125	70

H1411210

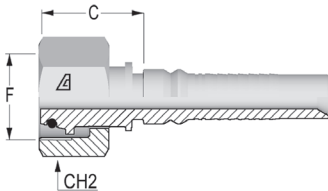
Metric Male 24° Seat
Heavy DIN 3865 - CES
Métrique Mâle 24° Lourd -
DIN 3865 - CES



Code	Hose ID in	Hose ID mm	DASH	F Thread	Hose OD mm	C CUT-OFF Factor	CH1 mm
H1411210-062200	3/8	9,5	06	22x1,5	14	27,0	22
H1411210-082400	1/2	12,7	08	24x1,5	16	27,0	24
H1411210-103000	5/8	15,9	10	30x2,0	20	31,0	32
H1411210-123000	3/4	19	12	30x2,0	20	31,0	32
H1411210-123600	3/4	19	12	36x2,0	25	35,0	36
H1411210-164200	1	25,4	16	42x2,0	30	40,0	46
H1411210-205200	1 1/4	31,8	20	52x2,0	38	45,2	55

H1421613

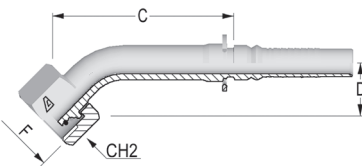
Metric Female 24° cone with
O-Ring Heavy -
DIN 3865 - DKOS
Métrique Femelle 24° cone avec
O-Ring Lourd -
DIN 3865 - DKOS



Code	Hose ID in	Hose ID mm	DASH	F Thread	Hose OD m Flange	C CUT-OFF Factor	CH2 mm
H1421613-062200	3/8	9,5	06	22x1,5	14	29,6	30
H1421613-082400	1/2	12,7	08	24x1,5	16	29,8	30
H1421613-103000	5/8	15,9	10	30x2,0	20	37,6	46
H1421613-123600	3/4	19	12	36x2,0	25	40,7	50
H1421613-164200	1	25,4	16	42x2,0	30	45,3	60
H1421613-205200	1 1/4	31,8	20	52x2,0	38	45,3	60

H1421643

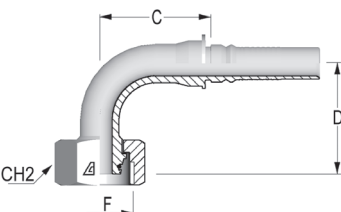
45° Metric Female 24° cone with
O-Ring Heavy - DIN 3865 DKOS
45 Solid one piece
45° Métrique Femelle 24° cone
avec O-Ring Lourd - DIN 3865
DKOS 45 Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread	DE Turbo mm	C CUT-OFF Factor	D DROP mm	CH2 mm
H1421643-082400	1/2	12,7	08	24x1,5	16	59	29	30
H1421643-103000	5/8	15,9	10	30x2,0	20	60,5	31,5	36
H1421643-123000	3/4	19	12	30x2,0	20	73,8	33	36
H1421643-123600	3/4	19	12	36x2,0	25	78,1	36	46
H1421643-163600	1	25,4	16	36x2,0	25	86,8	37,5	46
H1421643-164200	1	25,4	16	42x2,0	30	96,8	38	50
H1421643-205200	1 1/4	31,8	20	52x2,0	38	112,7	48	60

H1421693

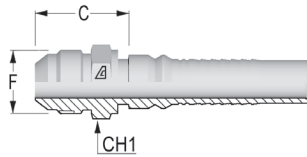
90° Metric Female 24° cone with
O-Ring
Heavy - DIN 3865 DKOS 90
Solid one piece
90° Métrique Femelle 24° cone
avec O-Ring Lourd - DIN 3865
DKOS 90 Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread	DE Turbo mm	C CUT-OFF Factor	D DROP mm	CH2 mm
H1421693-062200	3/8	9,5	06	22x1,5	14	40	43	27
H1421693-082400	1/2	12,7	08	24x1,5	16	55	50	30
H1421693-103000	5/8	15,9	10	30x2	20	51	55	36
H1421692-123000	3/4	19	12	30x2	20	62,6	67,5	36
H1421693-123600	3/4	19	12	36x2	25	61,7	65	46
H1421692-163600	1	25,4	16	36x2	25	71,2	82	46
H1421693-164200	1	25,4	16	42x2	30	86,4	79	50
H1421693-205200	1 1/4	31,8	20	52x2,0	38	90,9	101	60

H1412510

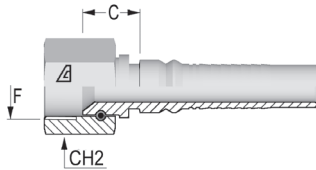
JIC Male 37° cone AGJ
JIC Mâle 37° cone AGJ



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H1412510-060600	3/8	9,5	06	9/16-18	06	25	17
H1412510-080800	1/2	12,7	08	3/4-16	08	27,7	19
H1412510-101000	5/8	15,9	10	7/8-14	10	32,3	24
H1412510-121200	3/4	19	12	1 1/16-12	12	34,9	27
H1412510-121600	3/4	19	12	1 5/16-12	16	39,1	36
H1412510-161600	1	25,4	16	1 5/16-12	16	40,1	36
H1412510-162000	1	25,4	16	1 5/8-12	20	44,3	46
H1412510-202000	1 1/4	31,8	20	1 5/8-12	20	45,5	46
H1412510-202400	1 1/4	31,8	20	1 7/8-12	24	50,7	50
H1412510-242400	1 1/2	38,1	24	1 7/8-12	24	51	50
H1412510-323200	2	50,8	32	2 1/2-12	32	58,9	65

H1422512

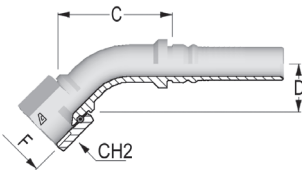
JIC Female 37° seat DKJ
JIC Femelle 37° DKJ



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH2 mm
H1422512-101200	5/8	15,9	10	1 1/16-12	12	18,7	32
H1422512-121200	3/4	19	12	1 1/16-12	12	18,7	32
H1422512-121600	3/4	19	12	1 5/16-12	16	21,5	38
H1422512-161600	1	25,4	16	1 5/16-12	16	22,5	38
H1422512-162000	1	25,4	16	1 5/8-12	20	24,5	50
H1422512-202000	1 1/4	31,8	20	1 5/8-12	20	25,7	50
H1422512-202400	1 1/4	31,8	20	1 7/8-12	24	28,2	55
H1422512-242400	1 1/2	38,1	24	1 7/8-12	24	29,0	55
H1422512-323200	2	50,8	32	2 1/2-12	32	34,0	70

H1422542

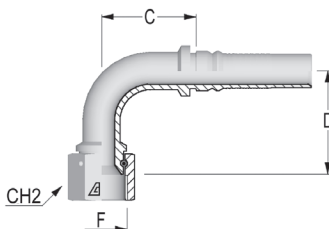
45° JIC Female 37° seat medium drop - DKJ 45M
Solid one piece
45° JIC Femelle 37° medium - DKJ 45M
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1422542-121200	3/4	19	12	1 1/16-12	12	66	27,5	32
H1422542-121600	3/4	19	12	1 5/16-12	16	68	30	38
H1422542-161600	1	25,4	16	1 5/16-12	16	79,5	31	38
H1422542-202000	1 1/4	31,8	20	1 5/8-12	20	93,7	37	50
H1422542-242400	1 1/2	38,1	24	1 7/8-12	24	107	38	55
H1422542-323200	2	50,8	32	2 1/2-12	32	148	51,5	70

H1422592

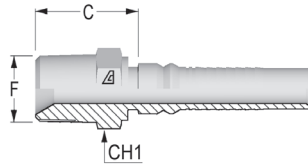
90° JIC Female 37° seat DKJ 90 Solid one piece
90° JIC Femelle 37° DKJ 90 Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1422592-121200	3/4	19	12	1 1/16-12	12	52	57	32
H1422592-121600	3/4	19	12	1 5/16-12	16	58	60,5	38
H1422592-161600	1	25,4	16	1 5/16-12	16	70	67	38
H1422592-202000	1 1/4	31,8	20	1 5/8-12	20	79,2	78	50
H1422592-242400	1 1/2	38,1	24	1 7/8-12	24	94,5	92	55
H1422592-323200	2	50,8	32	2 1/2-12	32	146	120,5	70

H1412810

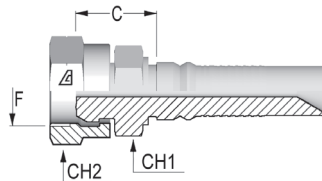
NPTF Male 60° seat AGN
NPTF Mâle 60° AGN



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H1412810-060600	3/8	9,5	06	3/8-18	06	26	19
H1412810-080800	1/2	12,7	08	1/2-14	08	32	22
H1412810-121200	3/4	19	12	3/4-14	12	32	27
H1412810-161600	1	25,4	16	1-11	16	41	36
H1412810-202000	1 1/4	31,8	20	1 1/4-11	20	46,2	46
H1412810-242400	1 1/2	38,1	24	1 1/2-11	24	47,5	50
H1412810-323200	2	50,8	32	2-11	32	51	65

INTERLOCK - JIS INSERTS**H1423711**

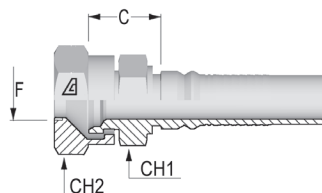
JIS Female 60°
cone B 8363 (type C)
JIS Femelle 60°
cone B 8363 (type C)



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
H1423711-121200	3/4	19	12	3/4-14	12	29	30	36
H1423711-161600	1	25,4	16	1-11	16	33	36	41
H1423712-202000	1 1/4	31,8	20	1 1/4-11	20	38,7	46	50
H1423712-242400	1 1/2	38,1	24	1 1/2-11	24	42	50	55
H1423712-323200	2	50,8	32	2-11	32	45	65	70

H142381Z

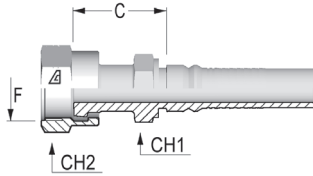
JIS Female 60°
seat flare B 8363 (type F)
JIS Femelle 60°
flare B 8363 (type F)



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
H1423812-202000	1 1/4	31,8	20	1 1/4-11	20	35,7	46	50
H1423812-242400	1 1/2	38,1	24	1 1/2-11	24	38	50	55
H1423812-323200	2	50,8	32	2-11	32	43	65	70
H142381Z-121200	3/4	19	12	3/4-14	12	27,5	30	36

H1422411

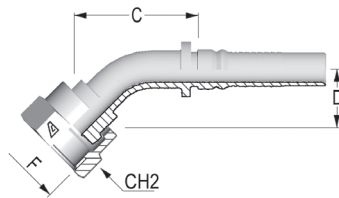
ORFS Female with stem hexagon
ORFS Femelle avec hexagone



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
H1422411-101000	5/8	15,9	10	1-14	10	37,5	24	30
H1422411-101200	5/8	15,9	10	1 3/16-12	12	40,0	30	36
H1422411-121200	3/4	19	12	1 3/16-12	12	40,0	30	36
H1422411-121600	3/4	19	12	1 7/16-12	16	43,0	36	41
H1422411-161200	1	25,4	16	1 3/16-12	12	42,0	32	36
H1422411-161600	1	25,4	16	1 7/16-12	16	47,0	36	41
H1422411-162000	1	25,4	16	1 11/16-12	20	49,0	46	50
H1422411-201600	1 1/4	31,8	20	1 7/16-12	16	47,2	41	41
H1422411-202000	1 1/4	31,8	20	1 11/16-12	20	47,2	46	50
H1422411-242400	1 1/2	38,1	24	1 7/8-12	24	52,0	50	60

H1422441

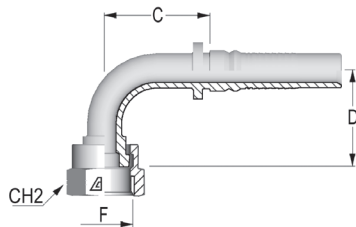
45° ORFS Female DK ORFS 45
Solid one piece
45° ORFS Femelle DK ORFS 45
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D Drop mm	CH2 mm
H1422441-101000	5/8	15,9	10	1-14	10	60,8	26	30
H1422441-101200	5/8	15,9	10	1 3/16-12	12	61,0	26	36
H1422441-121200	3/4	19	12	1 3/16-12	12	77,7	26	36
H1422441-121600	3/4	19	12	1 7/16-12	16	68,4	28	41
H1422441-161600	1	25,4	16	1 7/16-12	16	75,0	28	41
H1422441-162000	1	25,4	16	1 11/16-12	20	83,4	28	50
H1422441-202000	1 1/4	31,8	20	1 11/16-12	20	100,7	33	50

H1422491

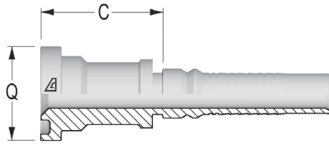
90° ORFS female DK ORFS 90
Solid one piece
90° ORFS femelle DK ORFS 90
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
H1422491-101000	5/8	15,9	10	1-14	10	46,9	44	30
H1422491-101200	5/8	15,9	10	1 3/16-12	12	48,1	58	36
H1422491-121200	3/4	19	12	1 3/16-12	12	64,2	58	36
H1422491-121600	3/4	19	12	1 7/16-12	16	66,2	58	41
H1422491-161600	1	25,4	16	1 7/16-12	16	75,2	66	41
H1422491-162000	1	25,4	16	1 11/16-12	20	73,2	66	50
H1422491-202000	1 1/4	31,8	20	1 11/16-12	20	91,7	81	50

H1443310

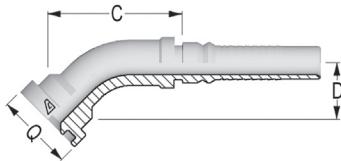
Flange SAE 3000 PSI J518
code 61 SFL
Bride SAE 3000 PSI J518
code 61 SFL



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor
H1443310-101200	5/8	15,9	10	3/4	5000	38,1	40
H1443310-120800	3/4	19	12	1/2	5000	30,2	40
H1443310-121200	3/4	19	12	3/4	5000	38,1	40
H1443310-121600	3/4	19	12	1	5000	44,5	48
H1443310-161600	1	25,4	16	1	5000	44,5	49
H1443310-162000	1	25,4	16	1 1/4	4000	50,8	51,5
H1443310-201600	1 1/4	31,8	20	1	5000	44,5	52
H1443310-202000	1 1/4	31,8	20	1 1/4	4000	50,8	52,7
H1443310-202400	1 1/4	31,8	20	1 1/2	3000	60,3	55,7
H1443310-242400	1 1/2	38,1	24	1 1/2	3000	60,3	56
H1443310-243200	1 1/2	38,1	24	2	3000	71,4	67,5
H1443310-323200	2	50,8	32	2	3000	71,4	69

H1443340

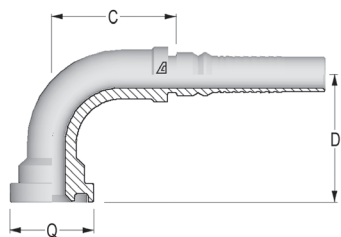
45° Flange SAE 3000 PSI J518
code 61 SFL 45
Solid one piece
Bride 45° SAE 3000 PSI J518
code 61 SFL 45
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	D DROP mm
H1443340-121200	3/4	19	12	3/4	5000	38,1	69,1	25
H1443340-121600	3/4	19	12	1	5000	44,5	92,9	28
H1443340-161600	1	25,4	16	1	5000	44,5	83,3	35
H1443340-162000	1	25,4	16	1 1/4	4000	50,8	95,6	30
H1443340-202000	1 1/4	31,8	20	1 1/4	4000	50,8	100,9	32,5
H1443340-202400	1 1/4	31,8	20	1 1/2	3000	60,3	92,8	40
H1443340-242400	1 1/2	38,1	24	1 1/2	3000	60,3	103,7	43
H1443340-243200	1 1/2	38,1	24	2	3000	71,4	132,7	56,5
H1443340-323200	2	50,8	32	2	3000	71,4	138,1	54

H1443390

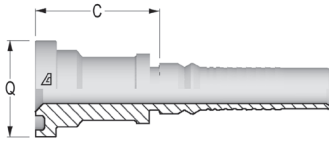
90° Flange SAE 3000 PSI J518
code 61 SFL 90
Solid one piece
Bride 90° SAE 3000 PSI J518
code 61 SFL 90
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	D DROP mm
H1443390-101200	5/8	15,9	10	3/4	5000	38,1	65,2	55
H1443390-101600	5/8	15,9	10	1	5000	44,5	60,2	55
H1443390-121200	3/4	19	12	3/4	5000	38,1	63,2	55
H1443390-121600	3/4	19	12	1	5000	44,5	64,2	59
H1443390-122000	3/4	19	12	1 1/4	4000	50,8	64,2	130
H1443390-161200	1	25,4	16	3/4	5000	38,1	70,2	55
H1443390-161600	1	25,4	16	1	5000	44,5	72,2	64
H1443390-162000	1	25,4	16	1 1/4	4000	50,8	70,2	69
H1443390-201600	1 1/4	31,8	20	1	5000	44,5	79,4	65
H1443390-202000	1 1/4	31,8	20	1 1/4	4000	50,8	86,2	81
H1443390-202400	1 1/4	31,8	20	1 1/2	3000	60,3	81,2	85
H1443390-242400	1 1/2	38,1	24	1 1/2	3000	60,3	95,5	93
H1443390-243200	1 1/2	38,1	24	2	3000	71,4	130,3	97
H1443390-323200	2	50,8	32	2	3000	71,4	134,4	130

H1443610

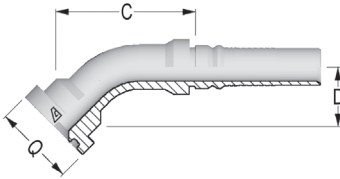
Flange SAE 6000 PSI
J518 code 62 SFS
Bride SAE 6000 PSI
J518 code 62 SFS



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor
H1443610-080800	1/2	12,7	08	1/2	6000	31,8	45,0
H1443610-101200	5/8	15,9	10	3/4	6000	41,3	50,0
H1443610-121200	3/4	19	12	3/4	6000	41,3	50,0
H1443610-121600	3/4	19	12	1	6000	47,6	53,0
H1443610-161200	1	25,4	16	3/4	6000	41,3	51,0
H1443610-161600	1	25,4	16	1	6000	47,6	54,0
H1443610-162000	1	25,4	16	1 1/4	6000	54	61,0
H1443610-201600	1 1/4	31,8	20	1	6000	47,6	55,2
H1443610-202000	1 1/4	31,8	20	1 1/4	6000	54	62,2
H1443610-202400	1 1/4	31,8	20	1 1/2	6000	63,5	68,2
H1443610-242000	1 1/2	38,1	24	1 1/4	6000	54	62,5
H1443610-242400	1 1/2	38,1	24	1 1/2	6000	63,5	68,5
H1443610-243200	1 1/2	38,1	24	2	6000	79,4	80,5
H1443610-323200	2	50,8	32	2	6000	79,4	87,0

H1443640

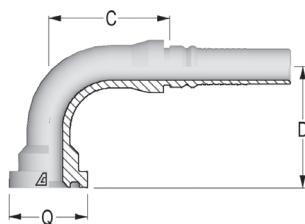
45° Flange SAE 6000 PSI J518
code 62 SFS 45
Solid one piece
Bride 45° SAE 6000 PSI J518
code 62 SFS 45
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	D DROP mm
H1443640-100800	5/8	15,9	10	1/2	6000	31,8	66,1	23
H1443640-101200	5/8	15,9	10	3/4	6000	41,3	66,1	29
H1443640-101600	5/8	15,9	10	1	6000	47,6	71,0	32
H1443640-121200	3/4	19	12	3/4	6000	41,3	72,1	30
H1443640-121600	3/4	19	12	1	6000	47,6	76,8	33
H1443640-161200	1	25,4	16	3/4	6000	41,3	80,3	29,5
H1443640-161600	1	25,4	16	1	6000	47,6	94,8	35
H1443640-162000	1	25,4	16	1 1/4	6000	54	91,3	44
H1443640-201600	1 1/4	31,8	20	1	6000	47,6	104,7	34,5
H1443640-202000	1 1/4	31,8	20	1 1/4	6000	54	102,0	39,5
H1443640-202400	1 1/4	31,8	20	1 1/2	6000	63,5	111,7	48
H1443640-242400	1 1/2	38,1	24	1 1/2	6000	63,5	136,3	48
H1443640-243200	1 1/2	38,1	24	2	6000	79,4	129,1	55
H1443640-323200	2	50,8	32	2	6000	79,4	160,6	63

H1443690

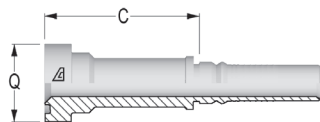
90° Flange SAE 6000 PSI J518
code 62 SFS 90
Solid one piece
Bride 90° SAE 6000 PSI J518
code 62 SFS 90
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	D DROP mm
H1443690-100800	1/2	12,7	08	1/2	6000	31,8	48,3	52
H1443690-101200	5/8	15,9	10	3/4	6000	41,3	47,8	55
H1443690-120800	3/4	19	12	1/2	6000	31,8	48,8	52
H1443690-121200	3/4	19	12	3/4	6000	41,3	61,2	64
H1443690-121600	3/4	19	12	1	6000	47,6	61,2	66
H1443690-161200	1	25,4	16	3/4	6000	41,3	70,2	61
H1443690-161600	1	25,4	16	1	6000	47,6	70,4	74
H1443690-162000	1	25,4	16	1 1/4	6000	54	77,2	80
H1443690-202000	1 1/4	31,8	20	1 1/4	6000	54	88,2	91
H1443690-202400	1 1/4	31,8	20	1 1/2	6000	63,5	92,9	103,5
H1443690-242400	1 1/2	38,1	24	1 1/2	6000	63,5	106,3	109
H1443690-243200	1 1/2	38,1	24	2	6000	79,4	106,5	121,5
H1443690-323200	2	50,8	32	2	6000	79,4	149,0	138,5

H1443910

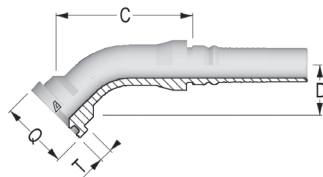
Flange SUPERCAT
Bride SUPERCAT



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor
H1443910-121200	3/4	19	12	3/4	6000	41,3	82
H1443910-121600	3/4	19	12	1	6000	47,6	82
H1443910-161600	1	25,4	16	1	6000	47,6	90
H1443910-162000	1	25,4	16	1 1/4	6000	54	90
H1443910-202000	1 1/4	31,8	20	1 1/4	6000	54	86,2
H1443910-202400	1 1/4	31,8	20	1 1/2	6000	63,5	83,2

H1443940

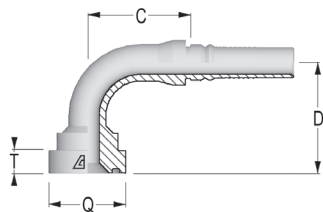
45° Flange SUPERCAT
Solid one piece
45° Bride SUPERCAT
Solide un morceau



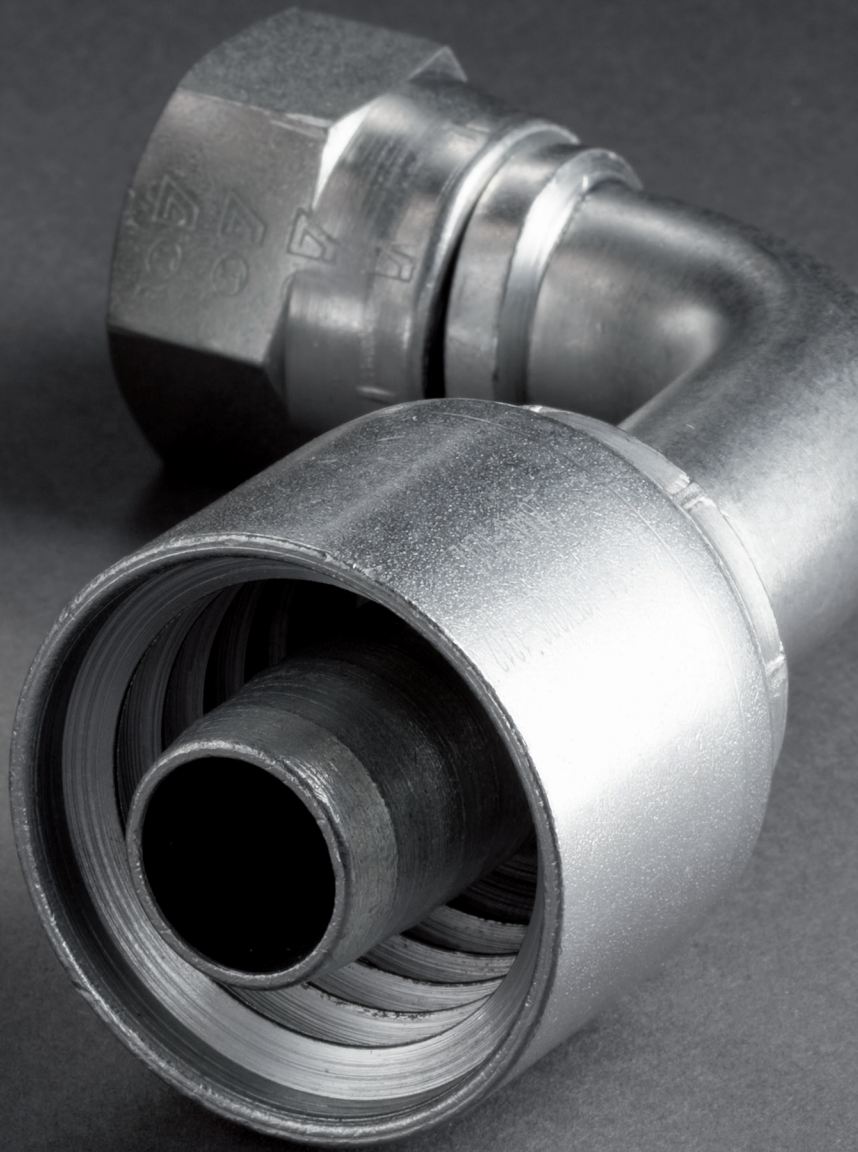
Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	D DROP mm
H1443940-121200	3/4	19	12	3/4	6000	41,3	82,9	34
H1443940-121600	3/4	19	12	1	6000	47,6	87,4	34
H1443940-161600	1	25,4	16	1	6000	47,6	93,9	40
H1443940-162000	1	25,4	16	1 1/4	6000	54	95,4	40
H1443940-202000	1 1/4	31,8	20	1 1/4	6000	54	103,6	43
H1443940-202400	1 1/4	31,8	20	1 1/2	6000	63,5	110,1	49,5

H1443990

90° Flange SUPERCAT
Solid one piece
90° Bride SUPERCAT
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	D DROP mm
H1443990-121200	3/4	19	12	3/4	6000	64	63,7	67
H1443990-121600	3/4	19	12	1	6000	67	65,2	70
H1443990-161600	1	25,4	16	1	6000	77	80,4	79
H1443990-162000	1	25,4	16	1 1/4	6000	77	75,4	82,5
H1443990-202000	1 1/4	31,8	20	1 1/4	6000	87,5	89,2	93
H1443990-202400	1 1/4	31,8	20	1 1/2	6000	87,5	91,4	101



ALFACRIMP FITTINGS/RACCORDS C12A

**WIRE BRAID (HF) AND
MINETUFF HOSES UP TO 1”/
TUYAUX AVEC FIL TRESSER
JUSTE-QU’A 1”**

BSP INSERTS/ENBOUTS	87
DIN METRIC INSERTS/ ENBOUTS MÉTRIQUE DIN	89
JIC 37° INSERTS/ENBOUTS	92
JIS INSERT/ENBOUTS.....	95
SAE INSERTS/ENBOUTS	95
NPTF INSERTS/ENBOUTS	96
NPSM INSERTS/ENBOUTS	97
ORFS INSERTS/ENBOUTS	98
KOMATSU INSERTS/ENBOUTS....	100
SAE FLANGES/BRIDES SAE	100

Hose	Table n°	-04 DN 6 1/4	-05 DN 8 5/16	-06 DN 10 3/8	-08 DN 12 1/2	-10 DN 16 5/8	-12 DN 19 3/4	-16 DN 25 1	-20 DN 31 1 1/4	-24 DN 38 1 1/2	-32 DN 51 2	-48 DN 76 3
FLEXOPAK 1SC	218	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
FLEXOR 1SN (HE)	215	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124	C124	C124	
FLEXOR 1SN MINETUFF	215	C12A	C12A	C12A	C12A	C12A	C12A	C12A	C124	C124	C124	
FLEXOPAK 2SC (HE)	220	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
FLEXOPAK 2SC MINETUFF	220	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
FLEXOPAK 2 MINETUFF	219	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
	228							C124	C124	C124	C124	C122
FLEXOPAK 2 HT	219	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
	228							C124	C124	C124	C124	C122
FLEXOR 2SN (HE)	216	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
	227				C124	C124	C124	C124	C124	C124	C124	
FLEXOR 2SN MINETUFF	216	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
	227				C124	C124	C124	C124	C124	C124	C124	
AT3K MINETUFF	249	C12A	C12A	C12A	C12A							
ALFAJET 210	249	C12A	C12A	C12A	C12A							
ALFAJET 400	220	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
TEMP TECH 1SN	550	C12A	C12A	C12A	C12A	C12A	C12A	C12A				
	92					C124	C124	C124	C124	C124	C124	
TEMP TECH 2SN	236	C12A	C12A	C12A		C12A	C12A	C12A				
	93			C124	C124	C124	C124	C124	C124	C124	C124	
FLEXOR R12	94			C124	C124	C124	C124	C124	C124	C124	C124	
	196						C126	C126	C126	C126		
FLEXOR 4SH	128						C126	C126	C126	C126	C12H	
FLEXOR R13	127						C126	C126	C126	C126	C12R	
ALFABIOTECH 3000 MINETUFF	213								C124	C124	C124	
ALFABIOTECH 4000 MINETUFF	241						C124	C124				
ALFABIOTECH 5000 MINETUFF	244					C124*	C124*					
	246					C126*	C126	C126	C126	C126	C12R	
ALFABIOTECH 5500 MINETUFF							C126*	C126*				
ALFABIOTECH 6000 MINETUFF	245		C124*	C124*			C124*					
	214						C126	C126	C126			

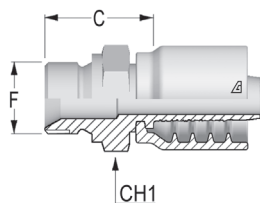
Alfacrimp Fittings

* Validated for use at only 280 bar (4000 PSI) WP * Under validation



C12A10510

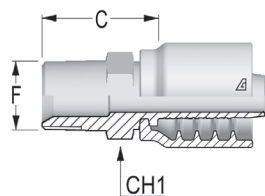
BSPP Male Parallel 60° Flare - AGR
BSPP Mâle parallèle 60° Flare - AGR



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
1232544	C12A10510-04020	1/4	6,4	04	1/8-28	02	21,7	14,0
1232545	C12A10510-04040	1/4	6,4	04	1/4-19	04	26,3	19,0
1232546	C12A10510-04060	1/4	6,4	04	3/8-19	06	27,8	22,0
1232547	C12A10510-05060	5/16	7,9	05	3/8-19	06	27,8	22,0
1232548	C12A10510-06060	3/8	9,5	06	3/8-19	06	27,8	22,0
1232549	C12A10510-06080	3/8	9,5	06	1/2-14	08	31,3	27,0
1232550	C12A10510-08060	1/2	12,7	08	3/8-19	06	28,6	22,0
1232551	C12A10510-08080	1/2	12,7	08	1/2-14	08	32,1	27,0
1232552	C12A10510-08100	1/2	12,7	08	5/8-14	10	36,1	30,0
1232553	C12A10510-08120	1/2	12,7	08	3/4-14	12	34,1	32,0
1232554	C12A10510-10100	5/8	15,9	10	5/8-14	10	36,1	30,0
1232555	C12A10510-10120	5/8	15,9	10	3/4-14	12	34,1	32,0
1232556	C12A10510-12120	3/4	19	12	3/4-14	12	34,6	32,0
1232557	C12A10510-12160	3/4	19	12	1-11	16	39,6	41,0
1232558	C12A10510-16160	1	25,4	16	1-11	16	40,4	41,0
1232559	C12A10510-16200	1	25,4	16	1 1/4-11	20	42,4	50,0

C12A10710

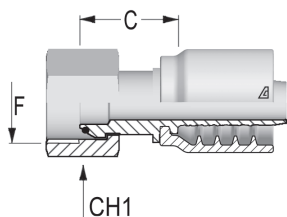
BSPT Male Tapered AGR K
BSPT Mâle conique AGR K



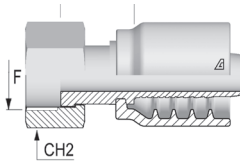
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
1232560	C12A10710-04020	1/4	6,4	04	1/8-28	02	21,3	12,0
1232561	C12A10710-04040	1/4	6,4	04	1/4-19	04	26,8	17,0
1232562	C12A10710-04060	1/4	6,4	04	3/8-19	06	27,8	19,0
1232563	C12A10710-05060	5/16	7,9	05	3/8-19	06	27,8	19,0
1232564	C12A10710-06060	3/8	9,5	06	3/8-19	06	27,8	19,0
1232565	C12A10710-06080	3/8	9,5	06	1/2-14	08	32,3	22,0
1232566	C12A10710-08080	1/2	12,7	08	1/2-14	08	33,1	22,0
1232567	C12A10710-10120	5/8	15,9	10	3/4-14	12	34,1	27,0
1232568	C12A10710-12120	3/4	19	12	3/4-14	12	34,6	27,0
1232569	C12A10710-12160	3/4	19	12	1-11	16	43,6	36,0
1232570	C12A10710-16160	1	25,4	16	1-11	16	44,4	36,0

C12A20813

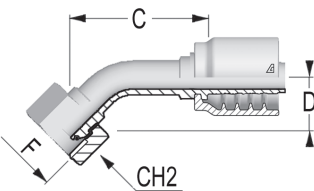
BSPP Female 60° Cone with O-Ring DKOR
BSPP Femelle 60° cone avec O-Ring DKOR



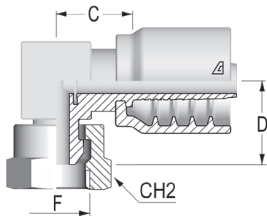
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
1232679	C12A20813-04040	1/4	6,4	04	1/4-19	04	16,0	19,0
1232680	C12A20813-04060	1/4	6,4	04	3/8-19	06	16,0	22,0
1232681	C12A20813-05060	5/16	7,9	05	3/8-19	06	23,3	22,0
1232675	C12A20811-06040	3/8	9,5	06	1/4-19	04	17,3	19,0
1232682	C12A20813-06060	3/8	9,5	06	3/8-19	06	17,0	22,0
1232683	C12A20813-06080	3/8	9,5	06	1/2-14	08	24,3	27,0
1232684	C12A20813-08080	1/2	12,7	08	1/2-14	08	18,0	27,0
1232685	C12A20813-08100	1/2	12,7	08	5/8-14	10	28,4	27,0
1232686	C12A20813-08120	1/2	12,7	08	3/4-14	12	22,0	32,0
1232676	C12A20811-10100	5/8	15,9	10	5/8-14	10	17,1	27,0
1232687	C12A20813-10120	5/8	15,9	10	3/4-14	12	20,0	32,0
1232677	C12A20811-12120	3/4	19	12	3/4-14	12	20,6	32,0
1232688	C12A20813-12160	3/4	19	12	1-11	16	34,0	38,0
1232678	C12A20811-16160	1	25,4	16	1-11	16	23,9	38,0
1232689	C12A20813-16200	1	25,4	16	1 1/4-11	20	39,4	50,0

C12A20613**BSPP Female Flat Seat DKOR FD****BSPP Femelle 60° cone avec O-Ring DKOR**

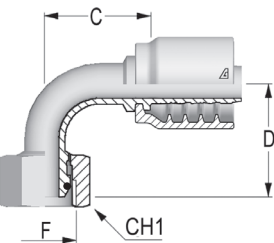
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH2 mm
1232672	C12A20613-06060	3/8	9,5	06	3/8-19	06	20,3	22,0
1232673	C12A20613-06080	3/8	9,5	06	1/2-14	08	20,8	27,0
1232674	C12A20613-08080	1/2	12,7	08	1/2-14	08	21,6	27,0
1232671	C12A20611-12120	3/4	19	12	3/4-14	12	18,1	32,0

C12A20843**45° BSPT Female 60° cone with O-Ring DKOR 45 Solid one piece****45° BSPT Femelle 60° cone avec O-Ring DKOR 45**

Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D Drop mm	CH2 mm
1232693	C12A20843-04040	1/4	6,4	04	1/4-19	04	45,5	15,0	19,0
1232694	C12A20843-04060	1/4	6,4	04	3/8-19	06	41,5	18,0	22,0
1232695	C12A20843-05060	5/8	7,9	05	3/8-19	06	45,1	19,0	22,0
1232696	C12A20843-06060	3/8	9,5	06	3/8-19	06	49,9	20,5	22,0
1232697	C12A20843-06080	3/8	9,5	06	1/2-14	08	45,7	21,0	27,0
1232698	C12A20843-08080	1/2	12,7	08	1/2-14	08	55,0	21,0	27,0
1232699	C12A20843-08100	1/2	12,7	08	5/8-14	10	57,2	23,0	27,0
1232700	C12A20843-08120	1/2	12,7	08	3/4-14	12	56,7	23,0	32,0
1232690	C12A20841-10100	5/8	15,9	10	5/8-14	10	64,0	21,5	27,0
1232701	C12A20843-10120	5/8	15,9	10	3/4-14	12	66,5	22,5	32,0
1232691	C12A20841-12120	3/4	19	12	3/4-14	12	67,6	28,0	32,0
1232702	C12A20843-12160	3/4	19	12	1-11	16	74,6	31,5	38,0
1232692	C12A20841-16160	1	25,4	16	1-11	16	72,5	34,0	38,0

C12A20581**90° Compact BSPP Female 60° Cone DKOR 90****90° Compact BSPP Femelle 60° Cone DKOR 90**

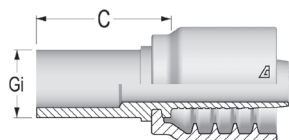
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D Drop mm	CH2 mm
1232668	C12A20581-06060	3/8	9,5	06	3/8-19	06	18,8	22,0	22,0
1232669	C12A20581-08080	1/2	12,7	08	1/2-14	08	22,6	25,0	27,0
1232670	C12A20581-12120	3/4	19	12	3/4-14	12	26,7	31,0	32,0

C12A20893**90° BSPP Female 60° Cone with O-Ring DKOR 90 Solid one piece****90° BSPT Femelle 60° cone avec O-Ring DKOR 90**

Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D Drop mm	CH1 mm
1232706	C12A20893-04040	1/4	6,4	04	1/4-19	04	29,3	29,0	19,0
1232707	C12A20893-04060	1/4	6,4	04	3/8-19	06	29,8	31,0	22,0
1232708	C12A20893-05060	5/16	7,9	05	3/8-19	06	33,2	36,0	22,0
1232709	C12A20893-06060	3/8	9,5	06	3/8-19	06	34,8	42,0	22,0
1232710	C12A20893-06080	3/8	9,5	06	1/2-14	08	34,3	35,5	27,0
1232711	C12A20893-08080	1/2	12,7	08	1/2-14	08	35,8	41,0	27,0
1232712	C12A20893-08100	1/2	12,7	08	5/8-14	10	42,5	44,0	27,0
1232713	C12A20893-08120	1/2	12,7	08	3/4-14	12	42,5	43,0	32,0
1232703	C12A20891-10100	5/8	15,9	10	5/8-14	10	47,9	47,0	27,0
1232714	C12A20893-10120	5/8	15,9	10	3/4-14	12	51,9	49,0	32,0
1232704	C12A20891-12120	3/4	19	12	3/4-14	12	53,5	53,0	32,0
1232715	C12A20893-12160	3/4	19	12	1-11	16	54,0	61,0	38,0
1232705	C12A20891-16160	1	25,4	16	1-11	16	75,1	69,0	38,0
1232716	C12A20893-16200	1	25,4	16	1 1/4-11	20	75,1	88,5	50,0

C12A52010

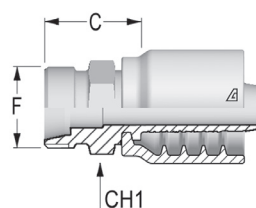
Metric Straight Standpipe DIN 2353 RSL/RSS
Embout lisse métrique droit



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Tube OD mm	F Thread DASH	C CUT-OFF Factor
1233002	C12A52010-04080	1/4	6,4	04	8	08	30,2
1233003	C12A52010-06100	3/8	9,5	06	10	10	30,3
1233004	C12A52010-08150	1/2	12,7	08	15	15	32,1
1233005	C12A52010-08160	1/2	12,7	08	16	16	37,1

C12A11110

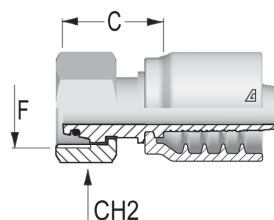
Metric Male 24° Seat - Light DIN 3853 - CEL
Mâle métrique léger droit siège 24°



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread dia x pitch	Tube OD mm	C CUT-OFF Factor	CH1 mm
1232571	C12A11110-04120	1/4	6,4	04	12x1,5	6	21,3	14,0
1232572	C12A11110-04140	1/4	6,4	04	14x1,5	8	21,3	14,0
1232573	C12A11110-04160	1/4	6,4	04	16x1,5	10	23,3	17,0
1232574	C12A11110-05160	5/16	7,9	05	16x1,5	10	23,3	17,0
1232575	C12A11110-05180	5/16	7,9	05	18x1,5	12	24,3	19,0
1232576	C12A11110-06160	3/8	9,5	06	16x1,5	10	23,3	17,0
1232577	C12A11110-06180	3/8	9,5	06	18x1,5	12	24,3	19,0
1232578	C12A11110-06220	3/8	9,5	06	22x1,5	15	25,3	22,0
1232579	C12A11110-08220	1/2	12,7	08	22x1,5	15	26,1	22,0
1232580	C12A11110-08260	1/2	12,7	08	26x1,5	18	27,1	27,0
1232581	C12A11110-10260	5/8	15,9	10	26x1,5	18	27,1	27,0
1232582	C12A11110-12300	3/4	19	12	30x2,0	22	31,6	32,0
1232583	C12A11110-16360	1	25,4	16	36x2,0	28	34,4	36,0

C12A21513

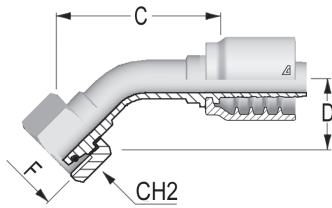
Metric Female 24° Cone with O-Ring - Light DIN 3865 - DKOL
Femelle métrique léger droit siège 24° conique et O-Ring



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread dia x pitch	Tube OD mm	C CUT-OFF Factor	CH2 mm
1232717	C12A21511-04120	1/4	6,4	04	12x1,5	6	24,8	14,0
1232718	C12A21513-04140	1/4	6,4	04	14x1,5	8	24,4	17,0
1232719	C12A21513-04160	1/4	6,4	04	16x1,5	10	25,4	19,0
1232720	C12A21513-05160	5/16	7,9	05	16x1,5	10	25,4	19,0
1232721	C12A21513-06160	3/8	9,5	06	16x1,5	10	25,4	19,0
1232722	C12A21513-06180	3/8	9,5	06	18x1,5	12	25,4	22,0
1232723	C12A21513-06220	3/8	9,5	06	22x1,5	15	27,4	27,0
1232724	C12A21513-08220	1/2	12,7	08	22x1,5	15	28,2	27,0
1232725	C12A21513-08260	1/2	12,7	08	26x1,5	18	29,2	32,0
1232726	C12A21513-10260	5/8	15,9	10	26x1,5	18	29,2	32,0
1232727	C12A21513-12300	3/4	19	12	30x2,0	22	31,7	36,0
1232728	C12A21513-16360	1	25,4	16	36x2,0	28	33,6	41,0

C12A21543

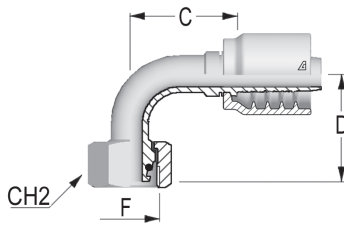
45° Metric Female 24° Cone with O-Ring - Light DIN 3865 - DKOL 45 Solid one piece
45° Femelle métrique léger droit siège conique et O-Ring



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread dia x pitch	Tube OD mm	C CUT-OFF Factor	D Drop mm	CH2 mm
1232729	C12A21543-04140	1/4	6,4	04	14x1,5	8	43,0	17,5	17,0
1232730	C12A21543-04160	1/4	6,4	04	16x1,5	10	42,0	20,0	19,0
1232731	C12A21543-05160	5/16	7,9	05	16x1,5	10	47,5	20,0	19,0
1232732	C12A21543-06160	3/8	9,5	06	16x1,5	10	46,8	20,0	19,0
1232733	C12A21543-06180	3/8	9,5	06	18x1,5	12	46,8	19,5	22,0
1232734	C12A21543-08220	1/2	12,7	08	22x1,5	15	55,0	21,0	27,0
1232735	C12A21543-10260	5/8	15,9	10	26x1,5	18	65,3	24,0	32,0
1232736	C12A21543-12300	3/4	19	12	30x2,0	22	69,4	32,0	36,0
1232737	C12A21543-16360	1	25,4	16	36x2,0	28	91,4	32,0	41,0

C12A21593

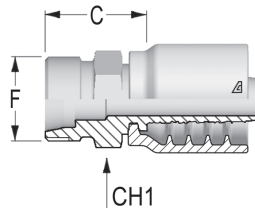
90° Metric Female 24° Cone with O-Ring - Light DIN 3865 - DKOL 90 Solid one piece
90° Femelle métrique léger droit siège conique et O-Ring



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread dia x pitch	Tube OD mm	C CUT-OFF Factor	D Drop mm	CH2 mm
1232738	C12A21591-04120	1/4	6,4	04	12x1,5	6	29,5	26,0	14,0
1232739	C12A21593-04140	1/4	6,4	04	14x1,5	8	28,3	32,5	17,0
1232740	C12A21593-04160	1/4	6,4	04	16x1,5	10	28,3	32,5	19,0
1232741	C12A21593-04180	1/4	6,4	04	18x1,5	12	28,3	35,0	22,0
1232742	C12A21593-05160	5/16	7,9	05	16x1,5	10	33,7	38,0	19,0
1232743	C12A21593-06160	3/8	9,5	06	16x1,5	10	32,8	38,0	19,0
1232744	C12A21593-06180	3/8	9,5	06	18x1,5	12	32,8	39,0	22,0
1232745	C12A21593-08220	1/2	12,7	08	22x1,5	15	39,8	40,5	27,0
1232746	C12A21593-10260	5/8	15,9	10	26x1,5	18	51,4	48,0	32,0
1232747	C12A21593-10300	5/8	15,9	10	30x2,0	30	52,4	49,0	36,0
1232748	C12A21593-12300	3/4	19	12	30x2,0	22	52,1	59,0	36,0
1232749	C12A21593-16360	1	25,4	16	36x2,0	28	77,6	68,0	41,0

C12A11210

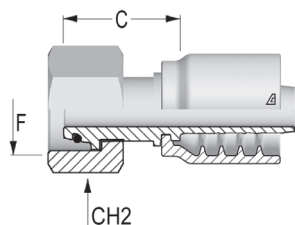
Metric Male 24° Seat - Heavy DIN 3853 - CES
Mâle métrique lourd droit siège 24°



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread dia x pitch	Tube OD mm	C CUT-OFF Factor	CH1 mm
1232584	C12A11210-04180	1/4	6,4	04	18x1,5	10	25,3	19,0
1232585	C12A11210-05200	5/16	7,9	05	20x1,5	12	25,3	22,0
1232586	C12A11210-06200	3/8	9,5	06	20x1,5	12	25,3	22,0
1232587	C12A11210-06220	3/8	9,5	06	22x1,5	14	27,3	22,0
1232588	C12A11210-08240	1/2	12,7	08	24x1,5	16	29,1	24,0
1232589	C12A11210-10300	5/8	15,9	10	30x2,0	20	33,1	32,0
1232591	C12A11210-12360	3/4	19	12	36x2,0	28	37,6	36,0
1232590	C12A11210-12300	3/4	19	12	30x2,0	30	33,6	32,0
1232592	C12A11210-16420	1	25,4	16	42x2,0	30	42,4	46,0

C12A21613

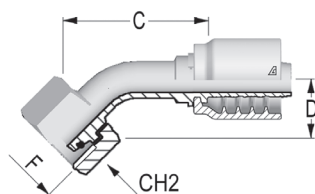
Metric Female 24° Cone with O-Ring - Heavy DIN 3865 - DKOS
Femelle métrique lourd droit siège 24° conique et O-Ring



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread dia x pitch	Tube OD mm	C CUT-OFF Factor	CH2 mm
1232750	C12A21613-04160	1/4	6,4	04	16x1,5	8	27,7	19,0
1232751	C12A21613-04180	1/4	6,4	04	18x1,5	10	27,6	22,0
1232752	C12A21613-05200	5/16	7,9	05	20x1,5	12	27,6	24,0
1232753	C12A21613-06180	3/8	9,5	06	18x1,5	10	27,6	22,0
1232754	C12A21613-06200	3/8	9,5	06	20x1,5	12	27,6	24,0
1232755	C12A21613-06220	3/8	9,5	06	22x1,5	14	31,1	27,0
1232756	C12A21613-08200	1/2	12,7	08	20x1,5	12	31,9	24,0
1232757	C12A21613-08240	1/2	12,7	08	24x1,5	16	31,7	30,0
1232758	C12A21613-10300	5/8	15,9	10	30x2,0	20	36,5	36,0
1232759	C12A21613-12300	3/4	19	12	30x2,0	20	37,0	36,0
1232760	C12A21613-12360	3/4	19	12	36x2,0	25	39,6	46,0
1232761	C12A21613-16360	1	25,4	16	36x2,0	25	41,0	46,0
1232762	C12A21613-16420	1	25,4	16	42x2,0	30	43,1	50,0

C12A21643

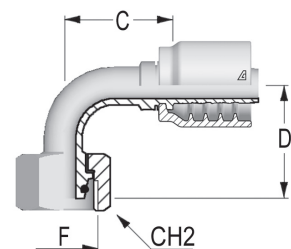
45° Metric Female 24° Cone with O-Ring - Heavy DIN 3865 - DKOS 45 Solid one piece
45° Femelle métrique lourd droit siège 24° conique et O-Ring



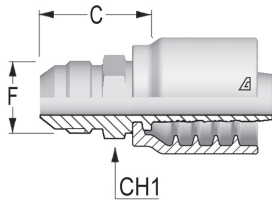
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread dia x pitch	Tube OD mm	C CUT-OFF Factor	D Drop mm	CH2 mm
1232763	C12A21643-04160	1/4	6,4	04	16x1,5	8	48,6	16,0	19,0
1232764	C12A21643-04180	1/4	6,4	04	18x1,5	10	43,5	19,0	22,0
1232765	C12A21643-05200	5/16	7,9	05	20x1,5	12	48,1	21,0	24,0
1232766	C12A21643-06200	3/8	9,5	06	20x1,5	12	50,6	20,0	24,0
1232767	C12A21643-06220	3/8	9,5	06	22x1,5	14	52,9	21,0	27,0
1232768	C12A21643-08240	1/2	12,7	08	24x1,5	16	55,8	21,5	30,0
1232769	C12A21643-10300	5/8	15,9	10	30x2,0	20	66,3	30,0	36,0
1232770	C12A21643-12360	3/4	19	12	36x2,0	25	69,5	33,0	46,0
1232771	C12A21643-16420	1	25,4	16	42x2,0	30	110,3	40,5	50,0

C12A21693

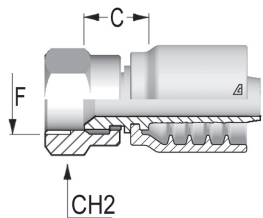
90° Metric Female 24° Cone with O-Ring - Heavy DIN 3865 - DKOS 90 Solid one piece
90° Femelle métrique lourd droit siège 24° conique et O-Ring



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread dia x pitch	Tube OD mm	C CUT-OFF Factor	D Drop mm	CH2 mm
1232772	C12A21693-04160	1/4	6,4	04	16x1,5	8	27,3	33,0	19,0
1232773	C12A21693-04180	1/4	6,4	04	18x1,5	10	26,8	34,0	22,0
1232774	C12A21693-05200	5/16	7,9	05	20x1,5	12	33,2	39,0	24,0
1232775	C12A21693-06180	3/8	9,5	06	18x1,5	10	34,3	38,5	24,0
1232776	C12A21693-06200	3/8	9,5	06	20x1,5	12	34,3	38,5	24,0
1232777	C12A21693-06220	3/8	9,5	06	22x1,5	14	34,3	40,5	27,0
1232778	C12A21693-08240	1/2	12,7	08	24x1,5	16	39,8	41,5	30,0
1232779	C12A21693-10300	5/8	15,9	10	30x2,0	20	47,9	55,0	36,0
1232780	C12A21693-12300	3/4	19	12	30x2,0	20	50,6	58,0	36,0
1232781	C12A21693-12360	3/4	19	12	36x2,0	25	50,6	59,5	46,0
1232782	C12A21693-16420	1	25,4	16	42x2,0	30	75,6	79,0	50,0

C12A12510**JIC Male 37° Cone AGJ****JIC Mâle 37° cone AGJ**

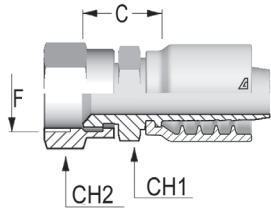
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
1232606	C12A12510-04040	1/4	6,4	04	7/16-20	04	25,3	12,0
1232607	C12A12510-04050	1/4	6,4	04	1/2-20	05	25,3	14,0
1232608	C12A12510-04060	1/4	6,4	04	9/16-18	06	26,3	17,0
1232609	C12A12510-05050	5/16	7,9	05	1/2-20	05	25,3	14,0
1232610	C12A12510-05060	5/16	7,9	05	9/16-18	06	26,3	17,0
1232611	C12A12510-06060	3/8	9,5	06	9/16-18	06	26,3	17,0
1232612	C12A12510-06080	3/8	9,5	06	3/4-16	08	29,8	19,0
1232613	C12A12510-06100	3/8	9,5	06	7/8-14	10	33,8	24,0
1232614	C12A12510-08080	1/2	12,7	08	3/4-16	08	30,6	19,0
1232615	C12A12510-08100	1/2	12,7	08	7/8-14	10	34,6	24,0
1232616	C12A12510-08120	1/2	12,7	08	1 1/16-12	12	37,1	27,0
1232617	C12A12510-10100	5/8	15,9	10	1 1/16-12	10	34,6	24,0
1232618	C12A12510-10120	5/8	15,9	10	1 1/16-12	12	37,1	27,0
1232619	C12A12510-12120	3/4	19	12	1 1/16-12	12	37,6	27,0
1232620	C12A12510-12140	3/4	19	12	1 3/16-12	14	40,1	32,0
1232621	C12A12510-12160	3/4	19	12	1 5/16-12	16	42,6	36,0
1232622	C12A12510-16160	1	25,4	16	1 5/16-12	16	43,4	36,0
1232623	C12A12510-16200	1	25,4	16	1 5/8-12	20	46,9	46,0

C12A22511**JIC Female 37° Seat DKJ****JIC Femelle siège 37° DKJ**

Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH2 mm
1232848	C12A22511-04040	1/4	6,4	04	7/16-20	04	14,6	16,0
1232849	C12A22511-04050	1/4	6,4	04	1/2-20	05	15,3	17,0
1232850	C12A22511-04060	1/4	6,4	04	9/16-18	06	15,3	19,0
1232851	C12A22511-05050	5/16	7,9	05	1/2-20	05	15,3	17,0
1232852	C12A22511-05060	5/16	7,9	05	9/16-18	06	15,3	19,0
1232853	C12A22511-06060	3/8	9,5	06	9/16-18	06	15,3	19,0
1232854	C12A22511-06080	3/8	9,5	06	3/4-16	08	17,8	25,0
1232855	C12A22511-08080	1/2	12,7	08	3/4-16	08	18,6	25,0
1232856	C12A22511-08100	1/2	12,7	08	7/8-14	10	19,6	27,0
1232857	C12A22511-08120	1/2	12,7	08	1 1/16-12	12	22,1	32,0
1232858	C12A22511-10100	5/8	15,9	10	7/8-14	10	19,6	27,0
1232859	C12A22511-10120	5/8	15,9	10	1 1/16-12	12	20,1	32,0
1232860	C12A22511-12100	3/4	19	12	7/8-14	10	20,1	27,0
1232861	C12A22511-12120	3/4	19	12	1 1/16-12	12	20,6	32,0
1232862	C12A22511-12140	3/4	19	12	1 3/16-12	14	19,9	36,0
1232863	C12A22511-12160	3/4	19	12	1 5/16-12	16	22,1	38,0
1232864	C12A22511-16160	1	25,4	16	1 5/16-12	16	23,9	38,0
1232865	C12A22512-16200	1	25,4	16	1 5/8-12	20	26,5	50,0

C12A26511

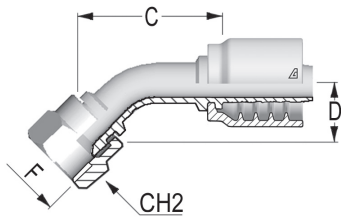
JIC Female 37° Seat with Stem Hexagon DKJ
 JIC Femelle siège 37° DKJ Double hexagone DKJ



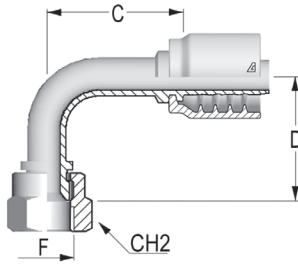
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
1232933	C12A26511-04040	1/4	6,4	04	7/16-20	04	19,6	14,0	16,0
1232934	C12A26511-04050	1/4	6,4	04	1/2-20	05	20,3	14,0	17,0
1232935	C12A26511-04060	1/4	6,4	04	9/16-18	06	20,3	14,0	19,0
1232936	C12A26511-05060	5/16	7,9	05	9/16-18	06	20,3	14,0	19,0
1232937	C12A26511-06040	3/8	9,5	06	7/16-20	04	20,6	17,0	16,0
1232938	C12A26511-06060	3/8	9,5	06	9/16-18	06	21,3	17,0	19,0
1232939	C12A26511-06080	3/8	9,5	06	3/4-16	08	24,8	19,0	25,0
1232940	C12A26511-06100	3/8	9,5	06	7/8-14	10	25,8	22,0	27,0
1232941	C12A26511-08060	1/2	12,7	08	9/16-18	06	23,1	19,0	19,0
1232942	C12A26511-08080	1/2	12,7	08	3/4-16	08	25,6	19,0	25,0
1232943	C12A26511-08100	1/2	12,7	08	7/8-14	10	26,6	22,0	27,0
1232944	C12A26511-08120	1/2	12,7	08	1 1/16-12	12	28,1	25,0	32,0
1232945	C12A26511-10080	5/8	15,9	10	3/4-16	08	26,6	24,0	25,0
1232946	C12A26511-10100	5/8	15,9	10	7/8-14	10	27,6	24,0	27,0
1232947	C12A26511-10120	5/8	15,9	10	1 1/16-12	12	28,1	25,0	32,0
1232948	C12A26511-12100	3/4	19	12	7/8-14	10	28,1	27,0	27,0
1232949	C12A26511-12120	3/4	19	12	1 1/16-12	12	28,6	27,0	32,0
1232950	C12A26511-12140	3/4	19	12	1 3/16-12	14	29,9	32,0	36,0
1232951	C12A26511-12160	3/4	19	12	1 5/16-12	16	32,1	32,0	38,0
1232952	C12A26511-16120	1	25,4	16	1 1/16-12	12	31,4	32,0	32,0
1232953	C12A26511-16160	1	25,4	16	1 5/16-12	16	32,9	32,0	38,0
1232954	C12A26512-16200	1	25,4	16	1 5/8-12	20	37,5	41,0	50,0

C12A22541-M

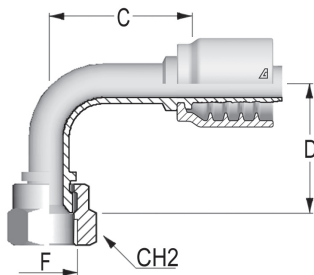
45° JIC Female 37° Seat DKJ 45 Solid one piece
 45° JIC Femelle siège 37° DKJ 45



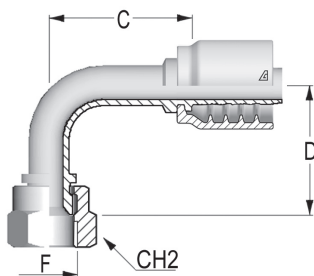
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D Drop mm	CH2 mm
1232866	C12A22541-0404M	1/4	6,4	04	7/16-20	04	36,6	10,0	16,0
1232867	C12A22541-0405M	1/4	6,4	04	1/2-20	05	37,2	12,0	17,0
1232868	C12A22541-0406M	1/4	6,4	04	9/16-18	06	39,4	11,0	19,0
1232869	C12A22541-0506M	5/16	7,9	05	9/16-18	06	42,8	12,0	19,0
1232870	C12A22541-0606M	3/8	9,5	06	9/16-18	06	46,3	11,0	19,0
1232871	C12A22541-0608M	3/8	9,5	06	3/4-16	08	47,2	15,0	25,0
1232872	C12A22541-0808M	1/2	12,7	08	3/4-16	08	51,6	15,0	25,0
1232873	C12A22541-0810M	1/2	12,7	08	7/8-14	10	50,7	16,0	27,0
1232874	C12A22541-0812M	1/2	12,7	08	1 1/16-12	12	57,0	21,0	32,0
1232875	C12A22541-1010M	5/8	15,7	10	7/8-14	10	62,2	19,0	27,0
1232876	C12A22541-1012M	5/8	15,9	10	1 1/16-12	12	68,6	21,0	32,0
1232877	C12A22541-1212M	3/4	19	12	1 1/16-12	12	67,5	21,0	32,0
1232878	C12A22541-1216M	3/4	19	12	1 5/16-12	16	71,4	26,0	38,0
1232879	C12A22541-1616M	1	25,4	16	1 5/16-12	16	79,4	24,0	38,0
1232880	C12A22542-1620M	1	25,4	16	1 5/8-12	20	83,8	37,0	50,0

C12A22591-S**90° JIC Female 37° Seat Short Drop DKJ 90S Solid one piece****90° JIC Femelle siège 37° DKJ court DKJ 90S**

Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D Drop mm	CH2 mm
1232883	C12A22591-0404S	1/4	6,4	04	7/16-20	04	27,0	21,0	16,0
1232885	C12A22591-0405S	1/4	6,4	04	1/2-20	05	26,5	23,5	17,0
1232887	C12A22591-0406S	1/4	6,4	04	9/16-18	06	31,0	23,0	19,0
1232892	C12A22591-0606S	3/8	9,5	06	9/16-18	06	42,3	23,0	19,0
1232895	C12A22591-0608S	3/8	9,5	06	3/4-16	08	48,8	29,0	25,0
1232898	C12A22591-0808S	1/2	12,7	08	3/4-16	08	46,4	29,0	25,0
1232901	C12A22591-0810S	1/2	12,7	08	7/8-14	10	45,8	32,0	27,0
1232903	C12A22591-0812S	1/2	12,7	08	1 1/16-12	12	37,3	46,0	32,0
1232907	C12A22591-1012S	5/8	15,9	10	1 1/16-12	12	47,9	48,0	32,0
1232910	C12A22591-1212S	3/4	19	12	1 1/16-12	12	58,2	46,0	32,0
1232912	C12A22591-1216S	3/4	19	12	1 5/16-12	16	53,6	53,0	38,0
1232915	C12A22591-1616S	1	25,4	16	1 5/16-12	16	74,0	56,0	38,0

C12A22591-M**90° JIC Female 37° Seat Medium Drop DKJ 90M Solid one piece****90° JIC Femelle siège 37° DKJ médium DKJ 90M**

Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D Drop mm	CH2 mm
1232882	C12A22591-0404M	1/4	6,4	04	7/16-20	04	34,2	32,0	16,0
1232884	C12A22591-0405M	1/4	6,4	04	1/2-20	05	25,7	30,0	17,0
1232886	C12A22591-0406M	1/4	6,4	04	9/16-18	06	28,5	38,0	19,0
1232888	C12A22591-0505M	5/16	7,9	05	1/2-20	05	34,2	32,0	17,0
1232889	C12A22591-0506M	5/16	7,9	05	9/16-18	06	33,2	35,0	19,0
1232891	C12A22591-0606M	3/8	9,5	06	9/16-18	06	31,3	35,0	19,0
1232894	C12A22591-0608M	3/8	9,5	06	3/4-16	08	39,5	41,0	25,0
1232897	C12A22591-0808M	1/2	12,7	08	3/4-16	08	37,2	40,0	25,0
1232900	C12A22591-0810M	1/2	12,7	08	7/8-14	10	43,3	47,0	27,0
1232902	C12A22591-0812M	1/2	12,7	08	1 1/16-12	12	42,8	58,0	32,0
1232905	C12A22591-1010M	5/8	15,9	10	7/8-14	10	49,4	48,0	27,0
1232906	C12A22591-1012M	5/8	15,9	10	1 1/16-12	12	47,9	58,0	32,0
1232909	C12A22591-1212M	3/4	19	12	1 1/16-12	12	52,4	54,0	32,0
1232911	C12A22591-1216M	3/4	19	12	1 5/16-12	16	52,6	72,0	38,0
1232914	C12A22591-1616M	1	25,4	16	1 5/16-12	16	72,6	71,5	38,0
1232916	C12A22592-1620M	1	25,4	16	1 5/8-12	20	72,6	78,0	50,0

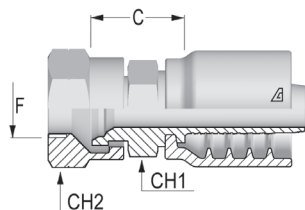
C12A22591-L**90° JIC Female 37° Seat Long Drop DKJ 90L Solid one piece****90° JIC Femelle siège 37° DKJ long DKJ 90L**

Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D Drop mm	CH2 mm
1232881	C12A22591-0404L	1/4	6,4	04	7/16-20	04	30,8	46,0	16,0
1232890	C12A22591-0606L	3/8	9,5	06	9/16-18	06	43,3	54,0	19,0
1232893	C12A22591-0608L	3/8	9,5	06	3/4-16	08	46,8	64,0	25,0
1232896	C12A22591-0808L	1/2	12,7	08	3/4-16	08	49,9	64,0	25,0
1232899	C12A22591-0810L	1/2	12,7	08	7/8-14	10	37,3	65,0	27,0
1232904	C12A22591-1010L	5/8	15,9	10	7/8-14	10	49,9	65,0	27,0
1232908	C12A22591-1212L	3/4	19	12	1 1/16-12	12	54,1	95,0	32,0
1232913	C12A22591-1616L	1	25,4	16	1 5/16-12	16	78,6	114,0	38,0

C12A2381Z

JIS Female 60° Seat Flare B 8363 (type F)

JIS Femelle siège 60° B8363 (type F)



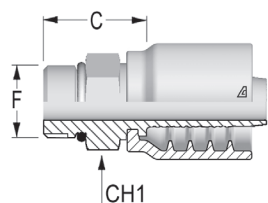
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
1232922	C12A2381Z-04040	1/4	6,4	04	1/4-19	04	20,8	17,0	19,0
1232923	C12A2381Z-06060	3/8	9,5	06	3/8-19	06	21,8	19,0	22,0
1232924	C12A2381Z-08080	1/2	12,7	08	1/2-14	08	23,6	22,0	27,0
1232925	C12A2381Z-12120	3/4	19	12	3/4-14	12	27,1	30,0	36,0
1232926	C12A2381Z-16160	1	25,4	16	1-11	16	32,9	36,0	41,0

ALFACRIMP - SAE INSERTS/ENBOUTS SAE

C12A13010

SAE Solid Male O-Ring Boss

Mâle SAE O-ring Boss

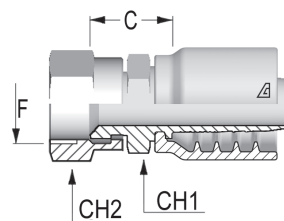


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
1232654	C12A13010-04040	1/4	6,4	04	7/16-20	04	20,3	14,0
1232655	C12A13010-04050	1/4	6,4	04	1/2-20	05	21,3	16,0
1232656	C12A13010-04060	1/4	6,4	04	9/16-18	06	22,3	17,0
1232657	C12A13010-06060	3/8	9,5	06	9/16-18	06	23,3	19,0
1232658	C12A13010-06080	3/8	9,5	06	3/4-16	08	24,3	22,0
1232659	C12A13010-06100	3/8	9,5	06	7/8-14	10	26,8	27,0
1232660	C12A13010-08080	1/2	12,7	08	3/4-16	08	25,1	22,0
1232661	C12A13010-08100	1/2	12,7	08	7/8-14	10	27,6	27,0
1232662	C12A13010-08120	1/2	12,7	08	1 1/16-12	12	32,1	32,0
1232663	C12A13010-10120	5/8	15,9	10	7/8-14	12	32,1	32,0
1232664	C12A13010-12100	3/4	19	12	7/8-14	10	28,1	27,0
1232665	C12A13010-12120	3/4	19	12	1 1/16-12	12	32,6	32,0
1232666	C12A13010-12160	3/4	19	12	1 5/16-12	16	34,6	38,0
1232667	C12A13010-16160	1	25,4	16	1 5/16-12	16	35,4	38,0

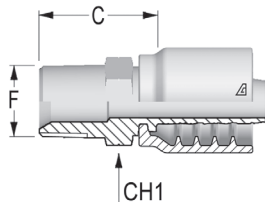
C12A26611

SAE Female Swivel 45° Seat

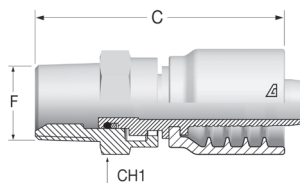
Femelle SAE siège 45°



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
1232955	C12A26611-06060	3/8	9,5	06	5/8-18	06	23,3	19,0	22,0
1232956	C12A26611-12120	3/4	19	12	1 1/16-14	12	28,6	27,0	32,0

C12A12810**NPTF Male 60° Seat AGN****Mâle NPTF siège 60° AGN**

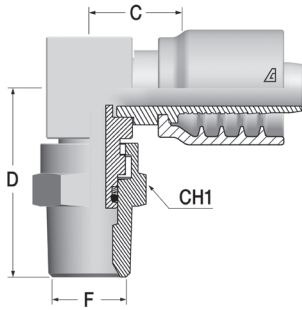
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
1232624	C12A12810-04020	1/4	6,4	04	1/8-27	02	21,3	14,0
1232650	C12A1281P-04040	1/4	6,4	04	1/4-18	04	26,8	14,3
1232625	C12A12810-04060	1/4	6,4	04	3/8-18	06	27,8	19,0
1232626	C12A12810-04080	1/4	6,4	04	1/2-14	08	31,3	22,0
1232627	C12A12810-05040	5/16	7,9	05	1/4-18	04	26,8	17,0
1232628	C12A12810-05060	5/16	7,9	05	3/8-18	06	27,8	19,0
1232629	C12A12810-06040	3/8	9,5	06	1/4-18	04	26,8	17,0
1232630	C12A12810-06060	3/8	9,5	06	3/8-18	06	27,8	19,0
1232631	C12A12810-06080	3/8	9,5	06	1/2-14	08	31,3	22,0
1232632	C12A12810-08060	1/2	12,7	08	3/8-18	06	28,6	19,0
1232633	C12A12810-08080	1/2	12,7	08	1/2-14	08	32,1	22,0
1232634	C12A12810-08120	1/2	12,7	08	3/4-14	12	34,1	27,0
1232635	C12A12810-10080	5/8	15,9	10	1/2-14	08	33,1	24,0
1232636	C12A12810-10120	5/8	15,9	10	3/4-14	12	34,1	27,0
1232637	C12A12810-12080	3/4	19	12	1/2-14	08	33,6	27,0
1232638	C12A12810-12120	3/4	19	12	3/4-14	12	34,6	27,0
1232639	C12A12810-12160	3/4	19	12	1 1/2-11	16	43,6	36,0
1232640	C12A12810-16160	1	25,4	16	1 1/2-11	16	44,4	36,0
1232641	C12A12810-16200	1	25,4	16	1 1/4-11	20	47,4	46,0

C12A12811**NPTF Male Swivel 60° Seat****Mâle NPTF siège 60° tournant**

Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
1232642	C12A12811-04040	1/4	6,4	04	1/4-18	04	37,6	17,0
1232643	C12A12811-06040	3/8	9,5	06	1/4-18	04	39,6	17,0
1232644	C12A12811-06060	3/8	9,5	06	3/8-18	06	37,5	22,0
1232645	C12A12811-06080	3/8	9,5	06	1/2-14	08	43,5	25,0
1232646	C12A12811-08060	1/2	12,7	08	3/8-18	06	38,3	22,0
1232647	C12A12811-08080	1/2	12,7	08	1/2-14	08	42,3	25,0
1232648	C12A12811-12120	3/4	19	12	3/4-14	12	50,1	32,0
1232649	C12A12811-16160	1	25,4	16	1 1/2-11	16	57,9	41,0

C12A12881

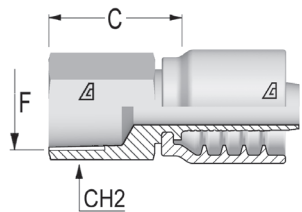
90° Compact NPTF Male Swivel 60° Seat
Mâle NPTF compact 90° tournant



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D Drop mm	CH1 mm
1232651	C12A12881-04040	1/4	6,4	04	1/4-18	04	17,0	39,0	17,0
1232652	C12A12881-06060	3/8	9,5	06	3/8-18	06	20,0	41,0	22,0
1232653	C12A12881-08080	1/2	12,7	08	1/2-14	08	22,0	48,0	25,0

C12A22810

NPTF Solid Female
NPTF Femelle solide

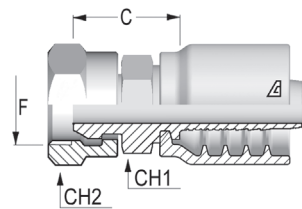


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
1232917	C12A22810-04040	1/4	6,4	04	1/4-18	04	27,8	19,0
1232918	C12A22810-06060	3/8	9,5	06	3/8-18	06	28,8	22,0
1232919	C12A22810-08080	1/2	12,7	08	1/2-14	08	35,6	25,0
1232920	C12A22810-12120	3/4	19	12	3/4-14	12	38,1	32,0
1232921	C12A22810-16160	1	25,4	16	1-11	16	44,9	38,0

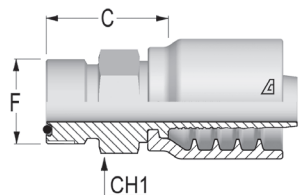
ALFACRIMP - NPSM INSERTS/ENBOUITS NPSM

C12A27311

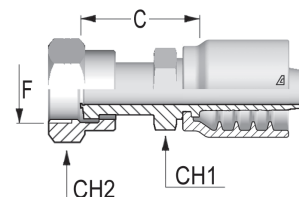
NPSM Female
Femelle NPSM



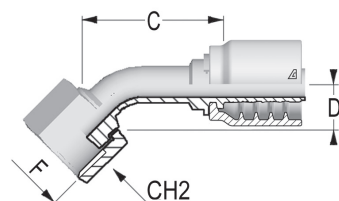
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
1232957	C12A27311-04040	1/4	6,4	04	1/4-18	04	24,3	17,0	19,0
1232958	C12A27311-06060	3/8	9,5	06	3/8-18	06	25,8	19,0	22,0
1232959	C12A27311-08080	1/2	12,7	08	1/2-14	08	27,6	22,0	27,0
1232960	C12A27311-12120	3/4	19	12	3/4-14	12	28,6	27,0	32,0
1232961	C12A27311-16160	1	25,4	16	1-11	16	35,4	36,0	38,0

C12A12410ORFS Male
Mâle ORFS

Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
1232593	C12A12410-04040	1/4	6,4	04	9/16-18	04	22,3	17,0
1232594	C12A12410-04060	1/4	6,4	04	11/16-16	06	24,3	19,0
1232595	C12A12410-06060	3/8	9,5	06	11/16-16	06	24,3	19,0
1232596	C12A12410-06080	3/8	9,5	06	13/16-16	08	26,3	22,0
1232597	C12A12410-06100	3/8	9,5	06	1-14	10	29,8	27,0
1232598	C12A12410-08080	1/2	12,7	08	13/16-16	08	27,1	22,0
1232599	C12A12410-08100	1/2	12,7	08	1-14	10	30,6	27,0
1232600	C12A12410-08120	1/2	12,7	08	1 3/16-12	12	34,1	32,0
1232601	C12A12410-10100	5/8	15,9	10	1-14	10	30,6	27,0
1232602	C12A12410-10120	5/8	15,9	10	1 3/16-12	12	34,1	32,0
1232603	C12A12410-12120	3/4	19	12	1 3/16-12	12	34,6	32,0
1232604	C12A12410-12160	3/4	19	12	1 7/16-12	16	38,1	41,0
1232605	C12A12410-16160	1	25,4	16	1 7/16-12	16	37,9	38,0

C12A22411ORFS Female with Stem Hexagon
Femelle ORFS avec Hexagon

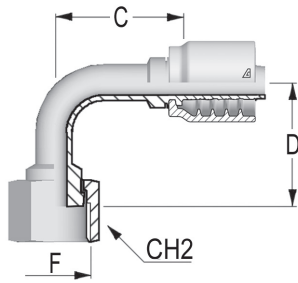
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
1232783	C12A22411-04040	1/4	6,4	04	9/16-18	04	27,3	14,0	17,0
1232784	C12A22411-04060	1/4	6,4	04	11/16-16	06	30,3	17,0	22,0
1232785	C12A22411-04080	1/4	6,4	04	13/16-16	08	35,3	22,0	24,0
1232786	C12A22411-05060	5/16	7,9	05	11/16-16	06	30,3	17,0	22,0
1232787	C12A22411-06060	3/8	9,5	06	11/16-16	06	30,3	17,0	22,0
1232788	C12A22411-06080	3/8	9,5	06	13/16-16	08	35,3	22,0	24,0
1232789	C12A22411-08060	1/2	12,7	08	11/16-16	06	32,1	19,0	22,0
1232790	C12A22411-08080	1/2	12,7	08	13/16-16	08	36,1	22,0	24,0
1232791	C12A22411-08100	1/2	12,7	08	1-14	10	39,6	24,0	30,0
1232792	C12A22411-08120	1/2	12,7	08	1 3/16-12	12	42,1	30,0	36,0
1232793	C12A22411-10100	5/8	15,9	10	1-14	10	39,6	24,0	30,0
1232794	C12A22411-10120	5/8	15,9	10	1 3/16-12	12	42,1	30,0	36,0
1232795	C12A22411-12100	3/4	19	12	1-14	10	40,1	27,0	30,0
1232796	C12A22411-12120	3/4	19	12	1 3/16-12	12	42,6	30,0	36,0
1232797	C12A22411-12160	3/4	19	12	1 7/16-12	16	48,6	36,0	41,0
1232798	C12A22411-16120	1	25,4	16	1 3/16-12	12	45,4	32,0	36,0
1232799	C12A22411-16160	1	25,4	16	1 7/16-12	14	49,4	36,0	41,0
1232800	C12A22411-16200	1	25,4	16	1 11/16-12	20	50,4	41,0	50,0

C12A22443-M45° ORFS Female DK ORFS 45 Solid one piece
Femelle ORFS 45° DK ORFS 45

Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
1232802	C12A22443-0404M	1/4	6,4	04	9/16-18	04	41,1	11,0	17,0
1232803	C12A22443-0406M	1/4	6,4	04	11/16-16	06	46,1	11,0	22,0
1232804	C12A22443-0506M	5/16	7,9	05	11/16-16	06	46,3	12,0	22,0
1232805	C12A22443-0606M	3/8	9,5	06	11/16-16	06	47,4	12,0	22,0
1232806	C12A22443-0608M	3/8	9,5	06	13/16-16	08	51,2	15,0	24,0
1232801	C12A22441-0808M	1/2	12,7	08	13/16-16	08	47,1	16,0	24,0
1232807	C12A22443-0810M	1/2	12,7	08	1-14	10	50,4	16,5	30,0
1232808	C12A22443-1010M	5/8	15,9	10	1-14	10	57,7	17,0	30,0
1232809	C12A22443-1012M	5/8	15,9	10	1 3/16-12	12	63,1	21,0	36,0
1232810	C12A22443-1212M	3/4	19	12	1 3/16-12	12	63,5	21,0	36,0
1232811	C12A22443-1216M	3/4	19	12	1 7/16-12	16	70,7	24,0	41,0
1232812	C12A22443-1616M	1	25,4	16	1 7/16-12	16	82,4	26,0	41,0
1232813	C12A22443-1620M	1	25,4	16	1 11/16-12	20	85,4	26,0	50,0

C12A22493-S

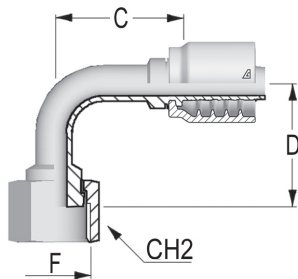
90° ORFS Female Short Drop DK ORFS 90S Solid one piece
Femelle ORFS 90° court DK ORFS 90S



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
1232819	C12A22493-0404S	1/4	6,4	04	9/16-18	04	28,5	21,0	17,0
1232822	C12A22493-0406S	1/4	6,4	04	11/16-16	06	32,0	23,0	22,0
1232826	C12A22493-0606S	3/8	9,5	06	11/16-16	06	41,8	25,0	22,0
1232829	C12A22493-0608S	3/8	9,5	06	13/16-16	08	41,8	29,0	24,0
1232816	C12A22491-0808S	1/2	12,7	08	13/16-16	08	39,8	29,0	24,0
1232832	C12A22493-0810S	1/2	12,7	08	1-14	10	46,3	32,5	30,0
1232835	C12A22493-1010S	5/8	15,9	10	1-14	10	52,3	32,5	30,0
1232837	C12A22493-1012S	5/8	15,9	10	1 3/16-12	12	55,4	49,0	36,0
1232840	C12A22493-1212S	3/4	19	12	1 3/16-12	12	60,6	51,0	36,0
1232842	C12A22493-1216S	3/4	19	12	1 7/16-12	16	61,6	56,0	41,0
1232845	C12A22493-1616S	1	25,4	16	1 7/16-12	16	80,0	58,0	41,0
1232847	C12A22443-1620M	1	25,4	16	1 11/16-12	20	85,4	26,0	50

C12A22493-M

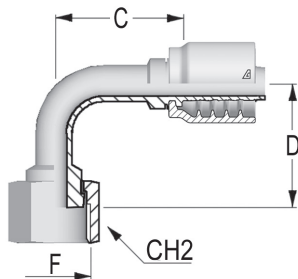
90° ORFS Female Medium Drop DK ORFS 90M Solid one piece
Femelle ORFS 90° médium DK ORFS 90M



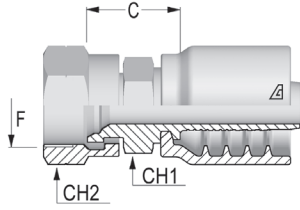
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D Drop mm	CH2 mm
1232818	C12A22493-0404M	1/4	6,4	04	9/16-18	04	29,8	32,0	17,0
1232821	C12A22493-0406M	1/4	6,4	04	11/16-16	06	37,3	38,0	22,0
1232823	C12A22493-0506M	5/16	7,9	05	11/16-16	06	40,7	34,0	22,0
1232825	C12A22493-0606M	3/8	9,5	06	11/16-16	06	41,8	38,0	22,0
1232828	C12A22493-0608M	3/8	9,5	06	13/16-16	08	43,8	41,0	24,0
1232815	C12A22491-0808M	1/2	12,7	08	13/16-16	08	34,8	42,0	24,0
1232831	C12A22493-0810M	1/2	12,7	08	1-14	10	48,3	47,0	30,0
1232834	C12A22493-1010M	5/8	15,9	10	1-14	10	55,4	44,0	30,0
1232836	C12A22493-1012M	5/8	15,9	10	1 3/16-12	12	55,4	58,0	36,0
1232839	C12A22493-1212M	3/4	19	12	1 3/16-12	12	61,6	58,0	36,0
1232841	C12A22493-1216M	3/4	19	12	1 7/16-12	16	65,6	71,0	41,0
1232844	C12A22493-1616M	1	25,4	16	1 7/16-12	16	82,6	66,0	41,0
1232846	C12A22493-1620M	1	25,4	16	1 11/16-12	20	82,6	78,0	50,0

C12A22493-L

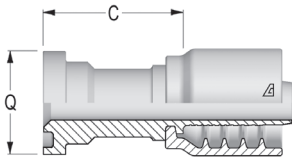
90° ORFS Female Long Drop DK ORFS 90L Solid one piece
Femelle ORFS 90° long DK ORFS 90L



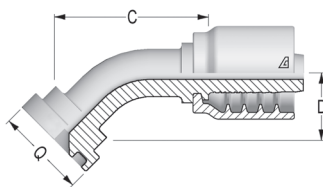
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D Drop mm	CH2 mm
1232817	C12A22493-0404L	1/4	6,4	04	9/16-18	04	32,8	46,0	17,0
1232820	C12A22493-0406L	1/4	6,4	04	11/16-16	06	34,8	54,0	22,0
1232824	C12A22493-0606L	3/8	9,5	06	11/16-16	06	41,8	54,0	22,0
1232827	C12A22493-0608L	3/8	9,5	06	13/16-16	08	46,8	64,0	24,0
1232814	C12A22491-0808L	1/2	12,7	08	13/16-16	08	38,3	64,0	24,0
1232830	C12A22493-0810L	1/2	12,7	08	1-14	10	46,3	70,0	30,0
1232833	C12A22493-1010L	5/8	15,9	10	1-14	10	55,4	70,0	30,0
1232838	C12A22493-1212L	3/4	19	12	1 3/16-12	12	61,6	96,0	36,0
1232843	C12A22493-1616L	1	25,4	16	1 7/16-12	16	82,6	114,0	41,0

C12A24011
Komatsu Female
Komatsu Femelle

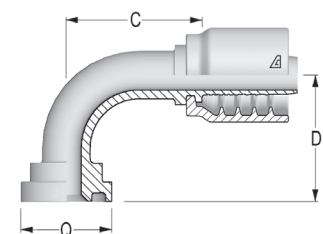
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
1232927	C12A24011-04140	1/4	6,4	04	14x1,5	04	20,8	17,0	19,0
1232928	C12A24011-06180	3/8	9,5	06	18x1,5	06	21,8	19,0	22,0
1232929	C12A24011-08220	1/2	12,7	08	22x1,5	08	23,6	22,0	27,0
1232930	C12A24011-10240	5/8	15,9	10	24x1,5	10	27,1	30,0	32,0
1232931	C12A24011-12300	3/4	19	12	30x2,0	12	27,6	30,0	36,0
1232932	C12A24011-16330	1	25,4	16	33x1,5	16	35,7	36,0	41,0

ALFACRIMP - SAE FLAGES**C12A43310**Flange SAE 3000 PSI J518 Code 61 SFL
Bride SAE 3000 PSI J518 Code 61 SFL

Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange in	Flange DASH	Q mm	C CUT-OFF Factor
1232962	C12A43310-08080	1/2	12,7	08	1/2	08	30,2	41,0
1232963	C12A43310-08120	1/2	12,7	08	3/4	12	38,1	42,0
1232964	C12A43310-12120	3/4	19	12	3/4	12	38,1	42,5
1232965	C12A43310-12160	3/4	19	12	1	16	44,5	50,5
1232966	C12A43310-16160	1	25,4	16	1	16	44,5	51,4
1232967	C12A43310-16200	1	25,4	16	1 1/4	20	50,8	53,9

C12A4334045° Flange SAE 3000 PSI J518 Code 61 SFL 45 Solid one piece
Bride 45° SAE 3000 PSI J518 Code 61 SFL 45

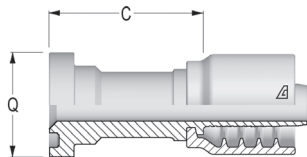
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange in	Flange DASH	Q mm	C CUT-OFF Factor	D Drop mm
1232968	C12A43340-08080	1/2	12,7	08	1/2	08	30,2	43,7	22,0
1232969	C12A43340-08120	1/2	12,7	08	3/4	12	38,1	50,4	26,0
1232970	C12A43340-10120	5/8	15,9	10	3/4	12	38,1	55,1	26,0
1232971	C12A43340-12120	3/4	19	12	3/4	12	38,1	63,8	32,0
1232972	C12A43340-12160	3/4	19	12	1	16	44,5	68,0	29,0
1232973	C12A43340-16160	1	25,4	16	1	16	44,5	72,8	33,5
1232974	C12A43340-16200	1	25,4	16	1 1/4	20	50,8	72,3	36,0

C12A4339090° Flange SAE 3000 PSI J518 Code 61 SFL 90 Solid one piece
Bride 90° SAE 3000 PSI J518 Code 61 SFL 90

Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange in	Flange DASH	Q mm	C CUT-OFF Factor	D Drop mm
1232975	C12A43390-08080	1/2	12,7	08	1/2	08	30,2	45,8	42,0
1232976	C12A43390-08120	1/2	12,7	08	3/4	12	38,1	45,3	51,0
1232977	C12A43390-12120	3/4	19	12	3/4	12	38,1	59,7	58,0
1232978	C12A43390-12160	3/4	19	12	1	16	44,5	66,2	64,5
1232979	C12A43390-16160	1	25,4	16	1	16	44,5	70,6	67,0
1232980	C12A43390-16200	1	25,4	16	1 1/4	20	50,8	73,6	71,0
1232981	C12A43390-16240	1	25,4	16	1 1/2	24	60,3	93,1	75,0

C12A43610

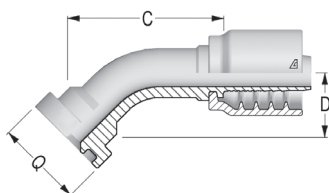
Flange SAE 6000 PSI J518 Code 62 SFS
Bride SAE 6000 PSI J518 Code 62 SFS



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange in	Flange DASH	Q mm	C CUT-OFF Factor
1232982	C12A43610-08080	1/2	12,7	08	1/2	08	31,8	47,0
1232983	C12A43610-08120	1/2	12,7	08	3/4	12	41,3	52,0
1232984	C12A43610-12120	3/4	19	12	3/4	12	41,3	52,5
1232985	C12A43610-12160	3/4	19	12	1	16	47,6	55,5
1232986	C12A43610-16120	1	25,4	16	3/4	12	41,3	56,4
1232987	C12A43610-16160	1	25,4	16	1	16	47,6	56,4
1232988	C12A43610-16200	1	25,4	16	1 1/4	20	54,0	63,4

C12A43640

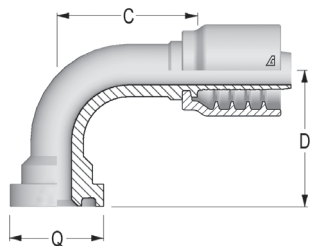
45° Flange SAE 6000 PSI J518 Code 62 SFS 45 Solid one piece
Bride 45° SAE 6000 PSI J518 Code 62 SFS 45



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange in	Flange DASH	Q mm	C CUT-OFF Factor	D Drop mm
1232989	C12A43640-08080	1/2	12,7	08	1/2	08	31,8	46,6	23,0
1232990	C12A43640-08120	1/2	12,7	08	3/4	12	41,3	67,2	30,5
1232991	C12A43640-12120	3/4	19	12	3/4	12	41,3	71,4	31,0
1232992	C12A43640-12160	3/4	19	12	1	16	47,6	65,2	33,5
1232993	C12A43640-16160	1	25,4	16	1	16	47,6	81,9	36,0
1232994	C12A43640-16200	1	25,4	16	1 1/4	20	54,0	78,4	39,0

C12A43690

90° Flange SAE 6000 PSI J518 Code 62 SFS 90 Solid one piece
Bride 90° SAE 6000 PSI J518 Code 62 SFS 90



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange in	Flange DASH	Q mm	C CUT-OFF Factor	D Drop mm
1232995	C12A43690-08080	1/2	12,7	08	1/2	08	31,8	47,8	46,0
1232996	C12A43690-08120	1/2	12,7	08	3/4	12	41,3	47,8	54,0
1232997	C12A43690-10120	5/8	15,9	10	3/4	12	41,3	49,9	55,0
1232998	C12A43690-12120	3/4	19	12	3/4	12	41,3	63,2	61,0
1232999	C12A43690-12160	3/4	19	12	1	16	47,6	63,2	66,0
1233000	C12A43690-16160	1	25,4	16	1	16	47,6	73,6	75,0
1233001	C12A43690-16200	1	25,4	16	1 1/4	20	54,0	77,6	78,0

Hydraulic
HOSEPTFE
HOSEStandard
FITTINGSInterlock
FITTINGSAlfacrimp
FITTINGS

Accessories

Stainless Steel
FITTINGSStandard
ADAPTERSORFS
ADAPTERSMETRIC - BSP
ADAPTERS

CRIMPERS

ALFACRIMP FITTINGS RACCORDS C124

**WIRE BRAID HOSES
TUYAUX AVEC FIL TRESSER
FROM /DE 1/2" AND/ET R12
(ALL SIZES/ TOUTES LES TAILLES)**

BSP INSERTS/ENBOUT103

DIN METRIC INSERTS/ENBOUT ..105

JIC 37° INSERTS/ENBOUT107

SAE INSERTS/ENBOUT110

NPTF INSERTS/ENBOUT110

ORFS INSERTS/ENBOUT111

SAE FLANGES/BRIDES113



ALFAGOMMA

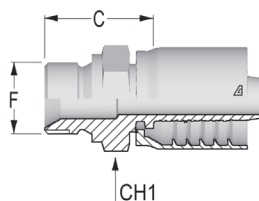
ALFACRIMP - BSP INSERTS/ENBOUITS BSP ALFAGOMMA

Wire Braid Hoses from 1/2" and R12 (all sizes)/Tuyaux Avec Fil Tresser de 1/2" et R12 (toutes les tailles)

C12410510

BSP Male Parallel 60° Flare AGR

Mâle BSPP parallèle 60°

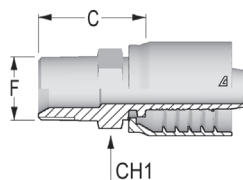


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
1215573	C12410510-06060	3/8	9,5	06	3/8-19	06	27,8	22,0
1233019	C12410510-06080	3/8	9,5	06	1/2-14	08	31,3	27,0
1233020	C12410510-08060	1/2	12,7	08	3/8-19	06	28,6	22,0
1233021	C12410510-08080	1/2	12,7	08	1/2-14	08	32,1	27,0
1233022	C12410510-08100	1/2	12,7	08	5/8-14	10	36,1	30,0
1215574	C12410510-08120	1/2	12,7	08	3/4-14	12	34,1	32,0
1233023	C12410510-10100	5/8	15,9	10	5/8-14	10	36,1	30,0
1233024	C12410510-10120	5/8	15,9	10	3/4-14	12	34,1	32,0
1215575	C12410510-12120	3/4	19	12	3/4-14	12	34,6	32,0
1233025	C12410510-12160	3/4	19	12	1-11	16	39,6	41,0
1215576	C12410510-16160	1	25,4	16	1-11	16	40,4	41,0
1233026	C12410510-16200	1	25,4	16	1 1/4-11	20	42,4	50,0
1215577	C12410510-20200	1 1/4	31,8	20	1 1/4-11	20	48,0	50,0
1215578	C12410510-24240	1 1/2	38,1	24	1 1/2-11	24	49,0	55,0
1215579	C12410510-32320	2	50,8	32	2-11	32	53,5	70,0

C12410710

BSPT Male Tapered AGR K

Mâle BSPT conique

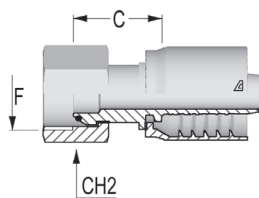


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
1215580	C12410710-06060	3/8	9,5	06	3/8-19	06	27,8	19,0
1215581	C12410710-06080	3/8	9,5	06	1/2-14	08	32,3	22,0
1215582	C12410710-08080	1/2	12,7	08	1/2-14	08	33,1	22,0
1215583	C12410710-10120	5/8	15,9	10	3/4-14	12	34,1	27,0
1215584	C12410710-12120	3/4	19	12	3/4-14	12	34,6	27,0
1215585	C12410710-12160	3/4	19	12	1-11	16	43,6	36,0
1215586	C12410710-16160	1	25,4	16	1-11	16	44,4	36,0
1215587	C12410710-20200	1 1/4	31,8	20	1 1/4-11	20	49,0	46,0
1215588	C12410710-24240	1 1/2	38,1	24	1 1/2	24	50,5	50,0
1215589	C12410710-32320	2	50,8	32	2	32	54,2	65,0

C12420813

BSP Female 60° Cone with O-Ring DKOR

Femelle BSPP 60° cone avec O-ring



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH2 mm
1215665	C12420813-06060	3/8	9,5	06	3/8-19	06	17,0	22,0
1215666	C12420813-06080	3/8	9,5	06	1/2-14	08	24,3	27,0
1215667	C12420813-08080	1/2	12,7	08	1/2-14	08	18,0	27,0
1215668	C12420813-08100	1/2	12,7	08	5/8-14	10	28,4	27,0
1215669	C12420813-08120	1/2	12,7	08	3/4-14	12	22,0	32,0
1215659	C12420811-10100	5/8	15,9	10	5/8-14	10	17,1	27,0
1215670	C12420813-10120	5/8	15,9	10	3/4-14	12	20,0	32,0
1215660	C12420811-12120	3/4	19	12	3/4-14	12	20,6	32,0
1215671	C12420813-12160	3/4	19	12	1-11	16	34,0	38,0
1215661	C12420811-16160	1	25,4	16	1-11	16	23,9	38,0
1215672	C12420813-16200	1	25,4	16	1 1/4-11	20	39,4	50,0
1215662	C12420812-20200	1 1/4	31,8	20	1 1/4-11	20	32,0	50,0
1215673	C12420813-20240	1 1/4	31,8	20	1 1/2-11	24	41,9	55,0
1215663	C12420812-24240	1 1/2	38,1	24	1 1/2	24	33,8	55,0
1215664	C12420812-32320	2	50,8	32	2	32	34,0	70,0

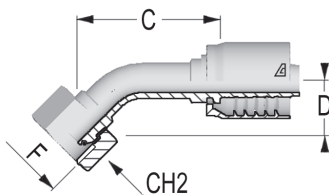
ALFACRIMP - BSP INSERTS

Wire Braid Hoses from 1/2" and R12 (all sizes)/Tuyaux Avec Fil Tresser de 1/2" et R12 (toutes les tailles)

C12420843

45° BSPP Female 60° Cone with O-Ring DKOR 45 Solid one piece

Femelle 45° BSPP cone 60° avec O-ring

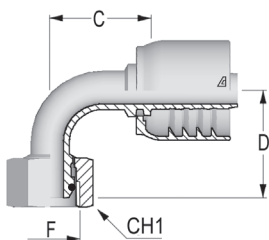


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
1215681	C12420843-06060	3/8	9,5	06	3/8-19	06	49,9	20,5	22,0
1215682	C12420843-06080	3/8	9,5	06	1/2-14	08	45,7	21,0	27,0
1215683	C12420843-08080	1/2	12,7	08	1/2-14	08	55,0	21,0	27,0
1215684	C12420843-08100	1/2	12,7	08	5/8-14	10	57,2	23,0	27,0
1215685	C12420843-08120	1/2	12,7	08	3/4-14	12	56,7	23,0	32,0
1215674	C12420841-10100	5/8	15,9	10	5/8-14	10	64,0	21,5	27,0
1215686	C12420843-10120	5/8	15,9	10	3/4-14	12	66,5	22,5	32,0
1215675	C12420841-12120	3/4	19	12	3/4-14	12	67,6	28,0	32,0
1215687	C12420843-12160	3/4	19	12	1-11	16	74,6	31,5	38,0
1215677	C12420841-16160	1	25,4	16	1-11	16	72,5	34,0	38,0
1215678	C12420842-20200	1 1/4	31,8	20	1 1/4-11	20	100,8	40,0	50,0
1215679	C12420842-24240	1 1/2	38,1	24	1 1/2-14	24	115,7	46,0	55,0
1215680	C12420842-32320	2	50,8	32	2-11	32	151,5	60,0	70,0

C12420893

90° BSPP Female 60° Cone with O-Ring DKOR 90 Solid one piece

Femelle 90° BSPP cone 60° avec O-ring

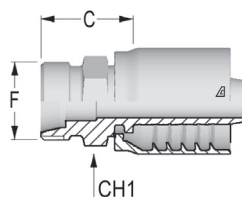


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
1215696	C12420893-06060	3/8	9,5	06	3/8-19	06	34,8	42,0	22,0
1215697	C12420893-06080	3/8	9,5	06	1/2-14	08	34,3	35,5	27,0
1215698	C12420893-08080	1/2	12,7	08	1/2-14	08	35,8	41,0	27,0
1215699	C12420893-08100	1/2	12,7	08	5/8-14	10	42,5	44,0	27,0
1233027	C12420893-08120	1/2	12,7	08	3/4-14	12	42,5	43,0	32,0
1215690	C12420891-10100	5/8	15,9	10	5/8-14	10	47,9	47,0	27,0
1233028	C12420893-10120	5/8	15,9	10	3/4-14	12	51,9	49,0	32,0
1215691	C12420891-12120	3/4	19	12	3/4-14	12	53,5	53,0	32,0
1215700	C12420893-12160	3/4	19	12	1-11	16	54,0	61,0	38,0
1215692	C12420891-16160	1	25,4	16	1-11	16	75,1	69,0	38,0
1233029	C12420893-16200	1	25,4	16	1 1/4-11	20	75,1	88,5	50,0
1215693	C12420892-20200	1 1/4	31,8	20	1 1/4-11	20	82,3	83,0	50,0
1215694	C12420892-24240	1 1/2	38,1	24	1 1/2	24	95,7	96,0	55,0
1215695	C12420892-32320	2	50,8	32	2	32	128,5	136,0	70,0

C12411110

Metric Male 24° Seat - Light DIN 3853 - CEL

Mâle métrique léger droit siège 24°

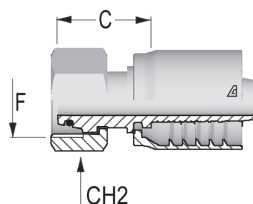


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread	OD Tubo mm	C CUT-OFF Factor	CH1 mm
1215590	C12411110-06160	3/8	9,5	06	16x1,5	10	23,3	17,0
1215591	C12411110-06180	3/8	9,5	06	18x1,5	12	24,3	19,0
1230378	C12411110-06220	3/8	9,5	06	22x1,5	15	25,3	22,0
1215592	C12411110-08220	1/2	12,7	08	22x1,5	15	26,1	22,0
1230379	C12411110-08260	1/2	12,7	08	26x1,5	18	27,1	27,0
1215593	C12411110-10260	5/8	15,9	10	26x1,5	18	27,1	27,0
1215594	C12411110-12300	3/4	19	12	30x2	22	31,6	32,0
1215595	C12411110-16360	1	25,4	16	36x2	28	34,4	36,0
1215596	C12411110-20450	1 1/4	31,8	20	45x2	6	40,0	46,0
1233030	C12411110-24520	1 1/2	38,1	24	52x2	38	42,0	55,0

C12421513

Metric Female 24° Cone with O-Ring - Light DIN 3865 - DKOL

Femelle métrique léger droit cone 24° avec O-Ring

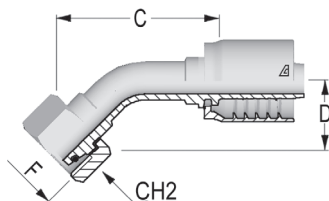


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread	OD Tubo mm	C CUT-OFF Factor	CH2 mm
1215702	C12421513-06180	3/8	9,5	06	18x1,5	12	25,4	22,0
1215703	C12421513-08220	1/2	12,7	08	22x1,5	15	28,2	27,0
1215704	C12421513-10260	5/8	15,9	10	26x1,5	18	29,2	32,0
1215705	C12421513-12300	3/4	19	12	30x2	22	31,7	36,0
1215706	C12421513-16360	1	25,4	16	36x2	28	33,6	41,0
1215707	C12421513-20450	1 1/4	31,8	20	45x2	6	40,1	50,0
1230386	C12421513-24520	1 1/2	38,1	24	52x2	38	40,5	60,0

C12421543

45° Metric Female 24° cone with O-Ring - Light DIN 3865 DKOL 45

Femelle métrique 45° léger cone 24° avec O-ring

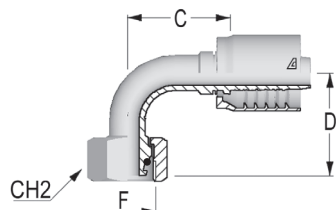


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread	OD Tubo mm	C CUT-OFF Factor	D DROP mm	CH2 mm
1215708	C12421543-06180	3/8	9,5	06	18x1,5	12	46,8	19,5	22,0
1215709	C12421543-08220	1/2	12,7	08	22x1,5	15	55,0	21,0	27,0
1215710	C12421543-10260	5/8	15,9	10	26x1,5	18	65,3	24,0	32,0
1215711	C12421543-12300	3/4	19	12	30x2,0	22	69,4	32,0	36,0
1215712	C12421543-16360	1	25,4	16	36x2	28	91,4	32,0	41,0
1233031	C12421543-20450	1 1/4	31,8	20	45x2,0	35	141,5	45,0	50,0

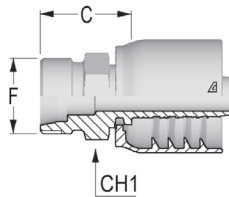
C12421593

90° Metric Female 24° Cone with O-Ring - Light DIN 3865 - DKOL 90

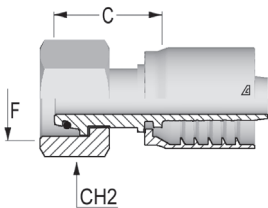
Femelle métrique 90° léger cone 24° avec O-ring



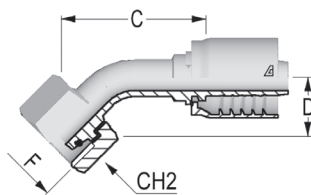
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread	OD Tubo mm	C CUT-OFF Factor	D DROP mm	CH2 mm
1215713	C12421593-06180	3/8	9,5	06	18x1,5	12	32,8	39,0	22,0
1215714	C12421593-08220	1/2	12,7	08	22x1,5	15	39,8	40,5	27,0
1215715	C12421593-10260	5/8	15,9	10	26x1,5	18	51,4	48,0	32,0
1215716	C12421593-12300	3/4	19	12	30x2,0	22	52,1	59,0	36,0
1215717	C12421593-16360	1	25,4	16	36x2,0	28	77,6	68,0	41,0
1215718	C12421593-20450	1 1/4	31,8	20	45x2	6	90,5	89,0	50,0
1230388	C12421593-24520	1 1/2	38,1	24	52x2	38	106,5	100,0	60,0

C12411210**Metric Male 24° Seat - Heavy DIN 3853 - CES****Mâle métrique lourd siège 24° droit**

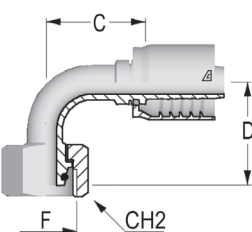
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread	OD Tubo mm	C CUT-OFF Factor	CH1 mm
1215597	C12411210-06200	3/8	9,5	06	20x1,5	12	25,3	22,0
1215598	C12411210-06220	3/8	9,5	06	22x1,5	14	27,3	22,0
1215599	C12411210-08240	1/2	12,7	08	24x1,5	16	29,1	24,0
1215600	C12411210-10300	5/8	15,9	10	30x2,0	20	33,1	32,0
1215602	C12411210-12360	3/4	19	12	36x2	28	37,6	36,0
1215601	C12411210-12300	3/4	19	12	30x2	30	33,6	32,0
1215603	C12411210-16420	1	25,4	16	42x2,0	30	42,4	46,0
1233032	C12411210-20520	1 1/4	31,8	20	52x2,0	38	48,0	55,0

C12421613**Metric Female 24° Cone with O-Ring - Heavy DIN 3865 - DKOS****Femelle métrique lourd siège 24° droit avec O-ring**

Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread	OD Tubo mm	C CUT-OFF Factor	CH2 mm
1215720	C12421613-06200	3/8	9,5	06	20x1,5	12	27,6	24,0
1215721	C12421613-06220	3/8	9,5	06	22x1,5	14	31,1	27,0
1215722	C12421613-08240	1/2	12,7	08	24x1,5	16	31,7	30,0
1215723	C12421613-10300	5/8	15,9	10	30x2	22	36,5	36,0
1215724	C12421613-12300	3/4	19	12	30x2	22	37,0	36,0
1215725	C12421613-12360	3/4	19	12	36x2	28	40,2	46,0
1230389	C12421613-16360	1	25,4	16	36x2	28	41,0	46,0
1215726	C12421613-16420	1	25,4	16	42x2	30	43,1	50,0
1215727	C12421613-20420	1 1/4	31,8	20	42x2	30	44,7	50,0
1215728	C12421613-20520	1 1/4	31,8	20	52x2	38	48,1	60,0

C12421643**45° Metric Female 24° Cone with O-Ring - Heavy DIN 3865 - DKOS 45****Femelle métrique 45° lourd siège 24° avec O-ring**

Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread	OD Tubo mm	C CUT-OFF Factor	D DROP mm	CH2 mm
1215729	C12421643-06200	3/8	9,5	06	20x1,5	12	50,6	20,0	24,0
1233033	C12421643-06220	3/8	9,5	06	22x1,5	14	52,9	21,0	27,0
1215730	C12421643-08240	1/2	12,7	08	24x1,5	16	55,8	21,5	30,0
1215731	C12421643-10300	5/8	15,9	10	30x2	22	66,3	30,0	36,0
1215732	C12421643-12360	3/4	19	12	36x2	28	69,5	33,0	46,0
1215733	C12421643-16420	1	25,4	16	42x2	30	110,3	40,5	50,0
1215734	C12421643-20520	1 1/4	31,8	20	52x2	38	109,0	45,0	60,0

C12421693**90° Metric Female 24° Cone with O-Ring - Heavy DIN 3865 - DKOS 90****Femelle métrique 90° lourd siège 24° avec O-ring**

Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread	OD Tubo mm	C CUT-OFF Factor	D DROP mm	CH2 mm
1215735	C12421693-06200	3/8	9,5	06	20x1,5	12	34,3	38,5	24,0
1215736	C12421693-06220	3/8	9,5	06	22x1,5	14	34,3	40,5	27,0
1215737	C12421693-08240	1/2	12,7	08	24x1,5	16	39,8	41,5	30,0
1215738	C12421693-10300	5/8	15,9	10	30x2	22	47,9	55,0	36,0
1230390	C12421693-12300	3/4	19	12	30x2	22	50,6	58,0	36,0
1215739	C12421693-12360	3/4	19	12	36x2	28	50,6	59,5	46,0
1215740	C12421693-16420	1	25,4	16	42x2	30	75,6	79,0	50,0
1215741	C12421693-20520	1 1/4	31,8	20	52x2	38	94,0	92,0	60,0

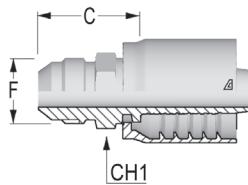
ALFACRIMP - ENBOUTS JIC 37°

Wire Braid Hoses from 1/2" and R12 (all sizes)/Tuyaux Avec Fil Tresser de 1/2" et R12 (toutes les tailles)

C12412510

JIC Male 37° Cone AGJ

Mâle JIC 37° Cone

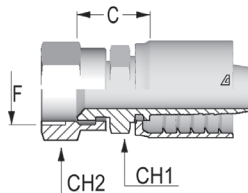


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
1215616	C12412510-06060	3/8	9,5	06	9/16-18	06	26,3	17,0
1215617	C12412510-06080	3/8	9,5	06	3/4-16	08	29,8	19,0
1215618	C12412510-08080	1/2	12,7	08	3/4-16	08	30,6	19,0
1215619	C12412510-08100	1/2	12,7	08	7/8-14	10	34,6	24,0
1215620	C12412510-08120	1/2	12,7	08	1 1/16-12	12	37,1	27,0
1215621	C12412510-10100	5/8	15,9	10	7/8-14	10	34,6	24,0
1215622	C12412510-10120	5/8	15,9	10	1 1/16-12	12	37,1	27,0
1215623	C12412510-12120	3/4	19	12	1 1/16-12	12	37,6	27,0
1215624	C12412510-12140	3/4	19	12	1 3/16-12	14	40,1	32,0
1215625	C12412510-12160	3/4	19	12	1 5/16-12	16	42,6	36,0
1215626	C12412510-16160	1	25,4	16	1 5/16-12	16	43,4	36,0
1215627	C12412510-16200	1	25,4	16	1 5/8-12	20	46,9	46,0
1215628	C12412510-20200	1 1/4	31,8	20	1 5/8-12	20	48,5	46,0
1215630	C12412510-24240	1 1/2	38,1	24	1 7/8-12	24	52,5	50,0

C12422511

JIC Female 37° seat DKJ

Femelle JIC 37° siège



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH2 mm
1215802	C12422511-06060	3/8	9,5	06	9/16-18	06	15,3	19,0
1233034	C12422511-06080	3/8	9,5	06	3/4-16	08	17,8	25,0
1230393	C12422511-08080	1/2	12,7	08	3/4-16	08	18,6	25,0
1215803	C12422511-08100	1/2	12,7	08	7/8-14	10	19,6	27,0
1215804	C12422511-08120	1/2	12,7	08	1 1/16-12	12	22,1	32,0
1215805	C12422511-10100	5/8	15,9	10	7/8-14	10	19,6	27,0
1215806	C12422511-10120	5/8	15,9	10	1 1/16-12	12	20,1	32,0
1215807	C12422511-12100	3/4	19	12	7/8-14	10	20,1	27,0
1215808	C12422511-12120	3/4	19	12	1 1/16-12	12	20,6	32,0
1215809	C12422511-12140	3/4	19	12	1 3/16-12	14	19,9	36,0
1233035	C12422511-12160	3/4	19	12	1 5/16-12	16	22,1	38,0
1230394	C12422511-16160	1	25,4	16	1 5/16-12	16	23,9	38,0
1233036	C12422512-16200	1	25,4	16	1 5/8-12	20	26,5	50,0
1215810	C12422512-20200	1 1/4	31,8	20	1 5/8-12	20	28,1	50,0
1233037	C12422512-20240	1 1/4	31,8	20	1 7/8-12	24	30,4	55,0
1215811	C12422512-24240	1 1/2	38,1	24	1 7/8-12	24	29,4	55,0
1215812	C12422512-32320	2	50,8	32	2 1/2-12	32	32,0	70,0

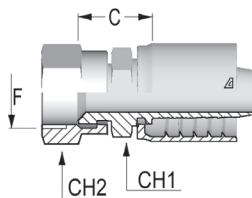
ALFACRIMP - JIC 37° INSERTS

Wire Braid Hoses from 1/2" and R12 (all sizes)/Tuyaux Avec Fil Tresser de 1/2" et R12 (toutes les tailles)

C12426511

JIC Female 37° Seat with Stem Hexagon DKJ

Femelle JIC 37° siège double hexagone

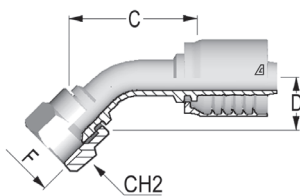


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
1215874	C12426511-06060	3/8	9,5	06	9/16-18	06	21,3	17,0	19,0
1215875	C12426511-06080	3/8	9,5	06	3/4-16	08	24,8	19,0	25,0
1215876	C12426511-08060	1/2	12,7	08	9/16-18	06	23,1	19,0	19,0
1215877	C12426511-08080	1/2	12,7	08	3/4-16	08	25,6	19,0	25,0
1215878	C12426511-08100	1/2	12,7	08	7/8-14	10	26,6	22,0	27,0
1215879	C12426511-08120	1/2	12,7	08	1 1/16-12	12	28,1	25,0	32,0
1215880	C12426511-10080	5/8	15,9	10	3/4-16	08	26,6	24,0	25,0
1214172	C12426511-10100	5/8	15,9	10	7/8-14	10	27,6	24,0	27,0
1215881	C12426511-10120	5/8	15,9	10	1 1/16-12	12	28,1	25,0	32,0
1215883	C12426511-12120	3/4	19	12	1 1/16-12	12	28,6	27,0	32,0
1215885	C12426511-12160	3/4	19	12	1 5/16-12	16	32,1	32,0	38,0
1215886	C12426511-16120	1	25,4	16	1 1/16-12	12	31,4	32,0	32,0
1215887	C12426511-16160	1	25,4	16	1 5/16-12	16	32,9	32,0	38,0
1215888	C12426512-16200	1	25,4	16	1 5/8-12	20	37,5	41,0	50,0
1215889	C12426512-20200	1 1/4	31,8	20	1 5/8-12	20	39,1	41,0	50,0
1215890	C12426512-20240	1 1/4	31,8	20	1 7/8-14	24	43,4	50,0	55,0
1215891	C12426512-24240	1 1/2	38,1	24	1 7/8-12	24	43,4	50,0	55,0
1215892	C12426512-32320	2	50,8	32	2 1/2-12	32	49,0	65,0	70,0

C12422541-M

45° JIC Female 37° Seat DKJ 45 Solid one piece

45° Femelle JIC siège 37°



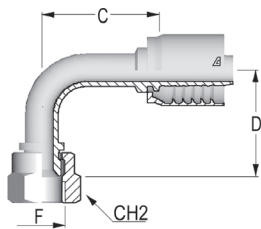
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
1215813	C12422541-0606M	3/8	9,5	06	9/16-18	06	46,3	11,0	19,0
1215814	C12422541-0608M	3/8	9,5	06	3/4-16	08	47,2	15,0	25,0
1215815	C12422541-0808M	1/2	12,7	08	3/4-16	08	51,6	15,0	25,0
1215816	C12422541-0810M	1/2	12,7	08	7/8-14	10	50,7	16,0	27,0
1215817	C12422541-0812M	1/2	12,7	08	1 1/16-12	12	57,0	21,0	32,0
1215818	C12422541-1010M	5/8	15,9	10	7/8-14	10	62,2	19,0	27,0
1230395	C12422541-1012M	5/8	15,9	10	1 1/16-12	12	68,6	21,0	32,0
1215819	C12422541-1212M	3/4	19	12	1 1/16-12	12	67,5	21,0	32,0
1215821	C12422541-1216M	3/4	19	12	1 5/16-12	16	71,4	26,0	38,0
1215822	C12422541-1616M	1	25,4	16	1 5/16-12	16	79,4	24,0	38,0
1215824	C12422542-1620M	1	25,4	16	1 5/8-12	20	83,8	37,0	50,0
1215825	C12422542-2020M	1 1/4	31,8	20	1 5/8-12	20	97,1	37,0	50,0
1215827	C12422542-2424M	1 1/2	38,1	24	1 7/8-12	24	112,7	43,0	55,0
1215828	C12422542-3232M	2	50,8	32	2 1/2	32	159,9	67,0	70,0

ALFACRIMP - ENBOUTS JIC 37°

Wire Braid Hoses from 1/2" and R12 (all sizes)/Tuyaux Avec Fil Tresser de 1/2" et R12 (toutes les tailles)

C12422591-M

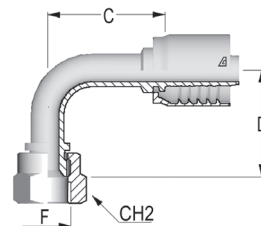
90° JIC Female 37° Seat Medium Drop DKJ 90M Solid one piece
90° Femelle JIC siège 37° médium



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
1215830	C12422591-0606M	3/8	9,5	06	9/16-18	06	31,3	35,0	19,0
1215833	C12422591-0608M	3/8	9,5	06	3/4-16	08	39,5	41,0	25,0
1215836	C12422591-0808M	1/2	12,7	08	3/4-16	08	37,2	40,0	25,0
1215839	C12422591-0810M	1/2	12,7	08	7/8-14	10	43,3	47,0	27,0
1233038	C12422591-0812M	1/2	12,7	08	1 1/16-12	12	42,8	58,0	32,0
1215842	C12422591-1010M	5/8	15,9	10	7/8-14	10	49,4	48,0	27,0
1215845	C12422591-1012M	5/8	15,9	10	1 1/16-12	12	47,9	58,0	32,0
1215849	C12422591-1212M	3/4	19	12	1 1/16-12	12	52,4	54,0	32,0
1215853	C12422591-1216M	3/4	19	12	1 5/16-12	16	52,6	72,0	38,0
1215856	C12422591-1616M	1	25,4	16	1 5/16-12	16	72,6	71,5	38,0
1230398	C12422592-1620M	1	25,4	16	1 5/8-12	20	72,6	78,0	50,0
1215858	C12422592-2020M	1 1/4	31,8	20	1 5/8-12	20	82,4	78,0	50,0
1230399	C12422592-2024M	1 1/4	31,8	20	1 7/8-12	24	87,3	82,0	55,0
1215860	C12422592-2424M	1 1/2	38,1	24	1 7/8-12	24	95,3	92,0	55,0
1215861	C12422592-3232M	2	50,8	32	2 1/2-12	32	129,5	140,0	70,0

C12422591-S

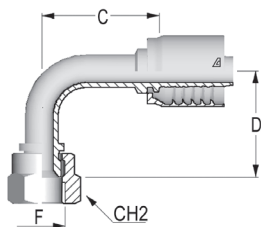
90° JIC Female 37° Seat Short Drop DKJ 90S Solid one piece
90° Femelle JIC siège 37° court



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
1230396	C12422591-0812S	1/2	12,7	08	1 1/16-12	12	37,3	46,0	32,0
1215850	C12422591-1212S	3/4	19	12	1 1/16-12	12	58,2	46,0	32,0
1215854	C12422591-1216S	3/4	19	12	1 5/16-12	16	53,6	53,0	38,0
1215857	C12422591-1616S	1	25,4	16	1 5/16-12	16	74,0	56,0	38,0

C12422591-L

90° JIC Female 37° Seat Long Drop DKJ 90L Solid one piece
90° Femelle JIC siège 37° long



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
1215829	C12422591-0606L	3/8	9,5	06	9/16-18	06	43,3	54,0	19,0
1215832	C12422591-0608L	3/8	9,5	06	3/4-16	08	46,8	64,0	25,0
1215835	C12422591-0808L	1/2	12,7	08	3/4-16	08	49,9	64,0	25,0
1215838	C12422591-0810L	1/2	12,7	08	7/8-14	10	37,3	65,0	27,0
1215841	C12422591-1010L	5/8	15,9	10	7/8-14	10	49,9	65,0	27,0
1215848	C12422591-1212L	3/4	19	12	1 1/16-12	12	54,1	95,0	32,0
1215855	C12422591-1616L	1	25,4	16	1 5/16-12	16	78,6	114,0	38,0

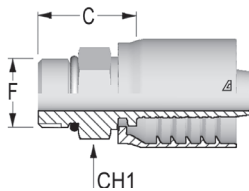
ALFACRIMP - SAE INSERTS

Wire Braid Hoses from 1/2" and R12 (all sizes)/Tuyaux Avec Fil Tresser de 1/2" et R12 (toutes les tailles)

C12413010

SAE Solid Male O-Ring Boss

Mâle SAE O-ring Boss



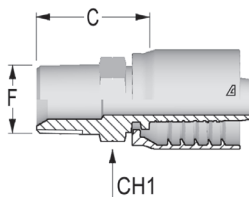
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
1233039	C12413010-06060	3/8	9,5	06	9/16-18	06	23,3	19,0
12330381	C12413010-06080	3/8	9,5	06	3/4-16	08	24,3	22,0
12330382	C12413010-06100	3/8	9,5	06	7/8-14	10	26,8	27,0
1215653	C12413010-08080	1/2	12,7	08	3/4-16	08	25,1	22,0
1233040	C12413010-08100	1/2	12,7	08	7/8-14	10	27,6	27,0
1233041	C12413010-08120	1/2	12,7	08	1 1/16-12	12	32,1	32,0
1233042	C12413010-10120	5/8	15,9	10	7/8-14	12	32,1	32,0
1233043	C12413010-12100	3/4	19	12	7/8-14	10	28,1	27,0
1215654	C12413010-12120	3/4	19	12	1 1/16-12	12	32,6	32,0
1215655	C12413010-12160	3/4	19	12	1 5/16-12	16	34,6	38,0
1215656	C12413010-16160	1	25,4	16	1 5/16-12	16	35,4	38,0

ALFACRIMP - NPTF INSERTS

C12412810

NPTF Male 60° Seat AGN

Mâle NPTF 60° siège

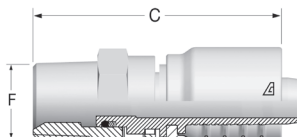


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
1215632	C12412810-06040	3/8	9,5	06	1/4-18	04	26,8	17,0
1215633	C12412810-06060	3/8	9,5	06	3/8-18	06	27,8	19,0
1215634	C12412810-06080	3/8	9,5	06	1/2-14	08	31,3	22,0
1215635	C12412810-08060	1/2	12,7	08	3/8-18	06	28,6	19,0
1215636	C12412810-08080	1/2	12,7	08	1/2-14	08	32,1	22,0
1215637	C12412810-08120	1/2	12,7	08	3/4-14	12	34,1	27,0
1215638	C12412810-10120	5/8	15,9	10	3/4-14	12	34,1	27,0
1215639	C12412810-12080	3/4	19	12	1/2-14	08	33,6	27,0
1215640	C12412810-12120	3/4	19	12	3/4-14	12	34,6	27,0
1215641	C12412810-12160	3/4	19	12	1-11	16	43,6	36,0
1215643	C12412810-16160	1	25,4	16	1-11	16	44,4	36,0
1215644	C12412810-16200	1	25,4	16	1 1/4-11	20	47,4	46,0
1215645	C12412810-20200	1 1/4	31,8	20	1 1/4-11	20	49,0	46,0
1215646	C12412810-20240	1 1/4	31,8	20	1 1/2-11	24	50,5	50,0
1215647	C12412810-24240	1 1/2	38,1	24	1 1/2-11	24	50,5	50,0
1215648	C12412810-32320	2	50,8	32	2-11	32	54,2	65,0

C12412811

NPTF Male Swivel 60° Seat

Mâle NPTF 60° siège tournant

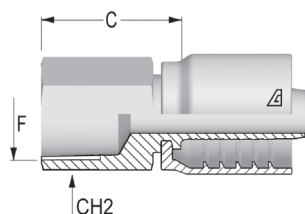


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
1215650	C12412811-08080	1/2	12,7	08	1/2-14	08	42,3	25,0
1215651	C12412811-12120	3/4	19	12	3/4-14	12	50,1	32,0
1215652	C12412811-16160	1	25,4	16	1-11	16	57,9	41,0

C12422810

NPTF 90° Female Swivel

Femelle NPTF 90° tournant

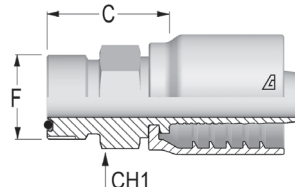


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH2 mm
1215862	C12422810-12120	3/4	19	12	3/4-14	12	38,1	32,0
1215863	C12422810-16160	1	25,4	16	1-11	16	44,9	38,0

TUYAUX Hydraulique
TUYAUX PTFE
RACCORDS Standard
RACCORDS Interlock
RACCORDS Aftercrimp
Accessoires
RACCORDS en Acier Inoxydable
ADAPTATEURS Standard
ADAPTATEURS ORFS
ADAPTATEURS MÉTRIQUE-BSP
SERTISSEUSES

C12412410

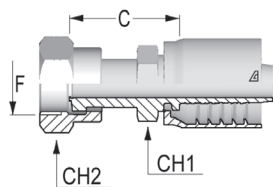
ORFS Male
Mâle ORFS



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
1215604	C12412410-06060	3/8	9,5	06	11/16-16	06	24,3	19,0
1215606	C12412410-08080	1/2	12,7	08	13/16-16	08	27,1	22,0
1215607	C12412410-08100	1/2	12,7	08	1-14	10	30,6	27,0
1215611	C12412410-12120	3/4	19	12	1 3/16-12	12	34,6	32,0
1215612	C12412410-12160	3/4	19	12	1 7/16-12	16	38,1	41,0
1215613	C12412410-16160	1	25,4	16	1 7/16-12	16	37,9	38,0
1215615	C12412410-20200	1 1/4	31,8	20	1 11/16-12	20	41,5	46,0

C12422411

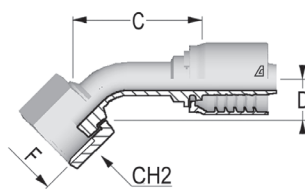
ORFS Female with stem hexagon
Femelle ORFS avec hexagone



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
1215742	C12422411-06060	3/8	9,5	06	11/16-16	06	30,3	17,0	22,0
1215743	C12422411-06080	3/8	9,5	06	13/16-16	08	35,3	22,0	24,0
1215744	C12422411-08080	1/2	12,7	08	13/16-16	08	36,1	22,0	24,0
1215745	C12422411-08100	1/2	12,7	08	1-14	10	39,6	24,0	30,0
1215746	C12422411-08120	1/2	12,7	08	1 3/16-12	12	42,1	30,0	36,0
1215747	C12422411-10100	5/8	15,9	10	1-14	10	39,6	24,0	30,0
1215748	C12422411-10120	5/8	15,9	10	1 3/16-12	12	42,1	30,0	36,0
1215749	C12422411-12100	3/4	19	12	1-14	10	40,1	27,0	30,0
1215750	C12422411-12120	3/4	19	12	1 3/16-12	12	42,6	30,0	36,0
1215751	C12422411-12160	3/4	19	12	1 7/16-12	16	48,6	36,0	41,0
1215752	C12422411-16120	1	25,4	16	1 3/16-12	12	45,4	32,0	36,0
1215753	C12422411-16160	1	25,4	16	1 7/16-12	16	49,4	36,0	41,0
1215754	C12422411-16200	1	25,4	16	1 11/16-12	20	50,4	41,0	50,0
1215755	C12422411-20200	1 1/4	31,8	20	1 11/16-12	20	52,0	41,0	50,0
1215756	C12422411-24240	1 1/2	38,1	24	2-12	24	56,5	50,0	60,0

C12422443-M

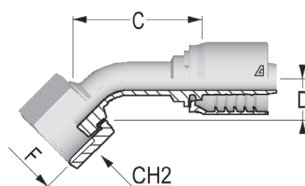
45° ORFS Female Medium Drop DK ORFS 45 Solid one piece
Femelle 45° ORFS médium



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
1215759	C12422443-0606M	3/8	9,5	06	11/16-16	06	47,4	12,0	22,0
1215760	C12422443-0608M	3/8	9,5	06	13/16-16	08	51,2	15,0	24,0
1215757	C12422443-0808M	1/2	12,7	08	13/16-16	08	47,1	16,0	24,0
1215761	C12422443-0810M	1/2	12,7	08	1-14	10	50,4	16,5	30,0
1215762	C12422443-1010M	5/8	15,9	10	1-14	10	57,7	17,0	30,0
1230391	C12422443-1012M	5/8	15,9	10	1 3/16-12	12	63,1	21,0	36,0
1215763	C12422443-1212M	3/4	19	12	1 3/16-12	12	63,5	21,0	36,0
1215764	C12422443-1216M	3/4	19	12	1 7/16-12	16	70,7	24,0	41,0
1215765	C12422443-1616M	1	25,4	16	1 7/16-12	16	82,4	26,0	41,0
1215766	C12422443-1620M	1	25,4	16	1 11/16-12	20	85,4	26,0	50,0
1215767	C12422443-2020M	1 1/4	31,8	20	1 11/16-12	20	97,4	26,0	50,0
1215769	C12422443-2424M	1 1/2	38,1	24	2-12	24	104,4	28,0	60,0

C12422443-L

45° ORFS Female Long Drop DK ORFS 45 Solid one piece
Femelle 45° ORFS long



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
1215775	C12422493-0606L	3/8	9,5	06	11/16-16	06	41,8	54,0	22,0
1215770	C12422493-0808L	1/2	12,7	08	13/16-16	08	38,3	64,0	24,0
1215779	C12422493-0810L	1/2	12,7	08	1-14	10	46,3	70,0	30,0
1233045	C12422493-1010L	5/8	15,9	10	1-14	10	55,4	70,0	30,0
1215784	C12422493-1212L	3/4	19	12	1 3/16-12	12	61,6	96,0	36,0
1215790	C12422493-1616L	1	25,4	16	1 7/16-12	16	82,6	114,0	41,0

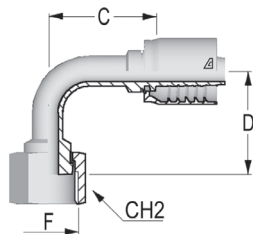
ALFACRIMP - ORFS INSERTS

Wire Braid Hoses from 1/2" and R12 (all sizes)/Tuyaux Avec Fil Tresser de 1/2" et R12 (toutes les tailles)

C12422493-S

90° ORFS Female Short Drop DK ORFS 90S Solid one piece

Femelle 90° ORFS court

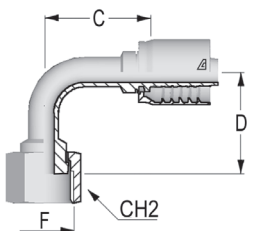


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
1215777	C12422493-0606S	3/8	9,5	06	11/16-16	06	41,8	25,0	22,0
1215772	C12422491-0808S	1/2	12,7	08	13/16-16	08	39,8	29,0	24,0
1215781	C12422493-0810S	1/2	12,7	08	1-14	10	46,3	32,5	30,0
1233044	C12422493-1010S	5/8	15,9	10	1-14	10	52,3	32,5	30,0
1215786	C12422493-1212S	3/4	19	12	1 3/16-12	12	60,6	51,0	36,0
1215792	C12422493-1616S	1	25,4	16	1 7/16-12	16	80,0	58,0	41,0
1215795	C12422493-2020S	1 1/4	31,8	20	1 11/16-12	20	95,0	68,0	50,0

C12422493-M

90° ORFS Female Medium Drop DK ORFS 90M Solid one piece

Femelle 90° ORFS médium

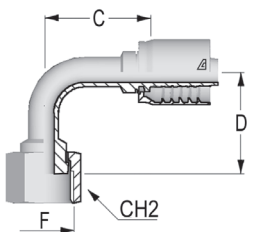


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
1215776	C12422493-0606M	3/8	9,5	06	11/16-16	06	41,8	38,0	22,0
1215778	C12422493-0608M	3/8	9,5	06	13/16-16	08	43,8	41,0	24,0
1215771	C12422491-0808M	1/2	12,7	08	13/16-16	08	34,8	42,0	24,0
1215780	C12422493-0810M	1/2	12,7	08	1-14	10	48,3	47,0	30,0
1215782	C12422493-1010M	5/8	15,9	10	1-14	10	55,4	44,0	30,0
1230392	C12422493-1012M	5/8	15,9	10	1 3/16-12	12	55,4	58,0	36,0
1215785	C12422493-1212M	3/4	19	12	1 3/16-12	12	61,6	58,0	36,0
1215788	C12422493-1216M	3/4	19	12	1 7/16-12	16	65,6	71,0	41,0
1215791	C12422493-1616M	1	25,4	16	1 7/16-12	16	82,6	66,0	41,0
1215794	C12422493-2020M	1 1/4	31,8	20	1 11/16-12	20	97,0	78,0	50,0
1215800	C12422493-2424M	1 1/2	38,1	24	2-12	24	107,8	87,0	60,0

C12422493-L

90° ORFS Female Long Drop DK ORFS 90L Solid one piece

Femelle 90° ORFS long



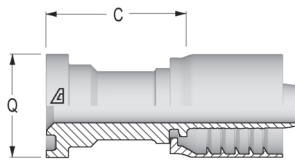
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
1215775	C12422493-0606L	3/8	9,5	06	11/16-16	06	41,8	54,0	22,0
1215770	C12422491-0808L	1/2	12,7	08	13/16-16	08	38,3	64,0	24,0
1215779	C12422493-0810L	1/2	12,7	08	1-14	10	46,3	70,0	30,0
1233045	C12422493-1010L	5/8	15,9	10	1-14	10	55,4	70,0	30,0
1215784	C12422493-1212L	3/4	19	12	1 3/16-12	12	61,6	96,0	36,0
1215790	C12422493-1616L	1	25,4	16	1 7/16-12	16	82,6	114,0	41,0

Wire Braid Hoses from 1/2" and R12 (all sizes)/Tuyaux Avec Fil Tresser de 1/2" et R12 (toutes les tailles)

C12443310

Flange SAE 3000 PSI J518 Code 61 SFL

Bride SAE 3000 PSI J518 Code 61 SFL

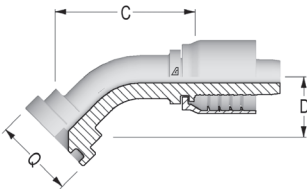


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor
1215898	C12443310-08080	1/2	12,7	08	1/2	3000	30,2	41,0
1215899	C12443310-08120	1/2	12,7	08	3/4	3000	38,1	42,0
1215901	C12443310-12120	3/4	19	12	3/4	3000	38,1	42,5
1215902	C12443310-12160	3/4	19	12	1	3000	44,5	50,5
1215903	C12443310-16160	1	25,4	16	1	3000	44,5	51,4
1215904	C12443310-16200	1	25,4	16	1 1/4	3000	50,8	53,9
1215906	C12443310-20200	1 1/4	31,8	20	1 1/4	3000	50,8	55,5
1215907	C12443310-20240	1 1/4	31,8	20	1 1/2	3000	60,3	58,5
1215908	C12443310-24240	1 1/2	38,1	24	1 1/2	3000	60,3	58,5
1215910	C12443310-32320	2	50,8	32	2	3000	71,4	70,0
1215911	C12443310-32400	2	50,8	32	2 1/2	3000	81,1	83,0

C12443340

45° Flange SAE 3000 PSI J518 Code 61 SFL 45 Solid one piece

Bride 45° SAE 3000 PSI J518 Code 61 SFL 45

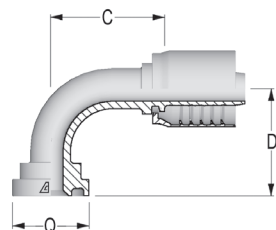


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	D DROP mm
1215931	C12443340-08080	1/2	12,7	08	1/2	3000	30,2	43,7	22,0
1215932	C12443340-08120	1/2	12,7	08	3/4	3000	38,1	50,4	26,0
1230404	C12443340-10120	5/8	15,9	10	3/4	3000	38,1	55,1	26,0
1215933	C12443340-12120	3/4	19	12	3/4	3000	38,1	63,8	32,0
1215934	C12443340-12160	3/4	19	12	1	3000	44,5	68,0	29,0
1215935	C12443340-16160	1	25,4	16	1	3000	44,5	72,8	33,5
1215936	C12443340-16200	1	25,4	16	1 1/4	3000	50,8	72,3	36,0
1215937	C12443340-20200	1 1/4	31,8	20	1 1/4	3000	50,8	85,2	37,5
1215938	C12443340-20240	1 1/4	31,8	20	1 1/2	3000	60,3	92,8	40,0
1215939	C12443340-24240	1 1/2	38,1	24	1 1/2	3000	60,3	105,4	48,0
1215940	C12443340-24320	1 1/2	38,1	24	2	3000	71,4	124,3	55,5
1215941	C12443340-32320	2	50,8	32	2	3000	71,4	129,5	47,5

C12443390

90° Flange SAE 3000 PSI J518 Code 61 SFL 90 Solid one piece

Bride 90° SAE 3000 PSI J518 Code 61 SFL 90



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	D DROP mm
1215959	C12443390-08080	1/2	12,7	08	1/2	3000	30,2	45,8	42,0
1215960	C12443390-08120	1/2	12,7	08	3/4	3000	38,1	45,3	51,0
1215961	C12443390-12120	3/4	19	12	3/4	3000	38,1	59,7	58,0
1215962	C12443390-12160	3/4	19	12	1	3000	44,5	66,2	64,5
1215966	C12443390-16160	1	25,4	16	1	3000	44,5	70,6	67,0
1215968	C12443390-16200	1	25,4	16	1 1/4	3000	50,8	73,6	71,0
1215969	C12443390-16240	1	25,4	16	1 1/2	3000	60,3	93,1	75,0
1215970	C12443390-20160	1 1/4	31,8	20	1	3000	44,5	94,4	65,0
1215971	C12443390-20200	1 1/4	31,8	20	1 1/4	3000	50,8	88,0	84,0
1215972	C12443390-20240	1 1/4	31,8	20	1 1/2	3000	60,3	91,5	87,5
1215973	C12443390-24240	1 1/2	38,1	24	1 1/2	3000	60,3	104,8	91,0
1215974	C12443390-24320	1 1/2	38,1	24	2	3000	71,4	104,8	115,0
1215975	C12443390-32320	2	50,8	32	2	3000	71,4	129,3	130,0

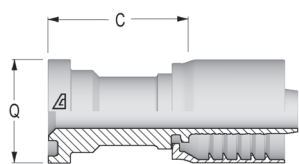
ALFACRIMP - SAE FLANGES

Wire Braid Hoses from 1/2" and R12 (all sizes)/Tuyaux Avec Fil Tresser de 1/2" et R12 (toutes les tailles)

C12443610

Flange SAE 6000 PSI J518 Code 62 SFS

Bride SAE 6000 PSI J518 Code 62 SFS

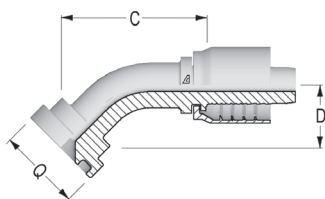


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor
1215977	C12443610-08080	1/2	12,7	08	6000	08	31,8	47,0
1215978	C12443610-08120	1/2	12,7	08	6000	12	41,3	52,0
1215979	C12443610-12120	3/4	19	12	6000	12	41,3	52,5
1215980	C12443610-12160	3/4	19	12	6000	16	47,6	55,5
1215981	C12443610-16120	1	25,4	16	6000	12	41,3	56,4
1215982	C12443610-16160	1	25,4	16	6000	16	47,6	56,4
1215983	C12443610-16200	1	25,4	16	6000	20	54,0	63,4
1215984	C12443610-20200	1 1/4	31,8	20	6000	20	54,0	83,0
1215985	C12443610-20240	1 1/4	31,8	20	6000	24	63,5	71,0
1215986	C12443610-24240	1 1/2	38,1	24	6000	24	63,5	1010,0
1215988	C12443610-32320	2	50,8	32	6000	32	79,4	76,0

C12443640

45° Flange SAE 6000 PSI J518 Code 62 SFS 45 Solid one piece

Bride 45° SAE 6000 PSI J518 Code 62 SFS 45

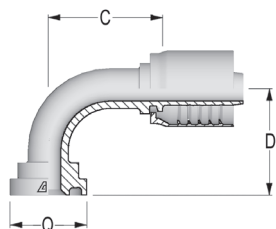


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	D DROP mm
1215999	C12443640-08080	1/2	12,7	08	1/2	6000	31,8	46,6	23,0
1216000	C12443640-08120	1/2	12,7	08	3/4	6000	41,3	67,2	30,5
1216001	C12443640-12120	3/4	19	12	3/4	6000	41,3	71,4	31,0
1216002	C12443640-12160	3/4	19	12	1	6000	47,6	65,2	33,5
1216003	C12443640-16160	1	25,4	16	1	6000	47,6	81,9	36,0
1216004	C12443640-16200	1	25,4	16	1 1/4	6000	54,0	78,4	39,0
1216005	C12443640-20200	1 1/4	31,8	20	1 1/4	6000	54,0	90,9	40,0
1216006	C12443640-20240	1 1/4	31,8	20	1 1/2	6000	63,5	93,6	45,5
1216007	C12443640-24240	1 1/2	38,1	24	1 1/2	6000	63,5	101,7	45,0
1216009	C12443640-32320	2	50,8	32	2	6000	79,4	129,7	60,0

C12443690

90° Flange SAE 6000 PSI J518 code 62 SFS 90 Solid one piece

Bride 90° SAE 6000 PSI J518 Code 62 SFS 90



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	D DROP mm
1216015	C12443690-08080	1/2	12,7	08	1/2	6000	31,8	47,8	46,0
1216016	C12443690-08120	1/2	12,7	08	3/4	6000	41,3	47,8	54,0
1216017	C12443690-10120	5/8	15,9	10	3/4	6000	41,3	49,9	55,0
1216018	C12443690-12120	3/4	19	12	3/4	6000	41,3	63,2	61,0
1216019	C12443690-12160	3/4	19	12	1	6000	47,6	63,2	66,0
1216021	C12443690-16160	1	25,4	16	1	6000	47,6	73,6	75,0
1216022	C12443690-16200	1	25,4	16	1 1/4	6000	54,0	77,6	78,0
1216023	C12443690-20200	1 1/4	31,8	20	1 1/4	6000	54,0	94,5	89,0
1216024	C12443690-20240	1 1/4	31,8	20	1 1/2	6000	63,5	98,0	94,0
1216025	C12443690-24240	1 1/2	38,1	24	1 1/2	6000	63,5	99,6	105,0
1216027	C12443690-32320	2	50,8	32	2	6000	79,4	143,3	132,0

TUYAUX Hydraulique
TUYAUX PTFE
RACCORDS Standard
RACCORDS Interlock
RACCORDS Alfacrimp
Accessoires
RACCORDS en Acier Inoxydable
ADAPTATEURS Standard
ADAPTATEURS ORFS
ADAPTATEURS MÉTRIQUE-BSP
SERTISSEUSES

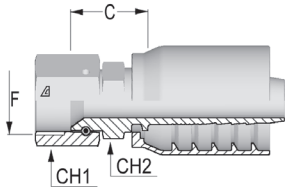
ALFACRIMP FITTINGS/ RACCORDS C126

WIRE SPIRAL HOSES
TUYAUX AVEC FIL EN SPIRALE
R12, 4SH and R13

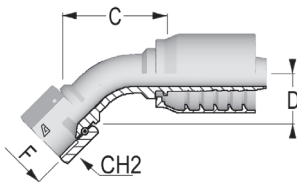
JIC 37° INSERTS.....	116
ORFS INSERTS.....	117
SAE FLANGES/BRIDES	118
SUPERCAT FLANGES/BRIDES.....	119



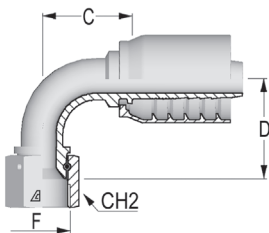
Wire Spiral Hoses - R12, 4SH and R13 / Tuyaux Avec Fil en Spirale - R12, 4SH et R13

C12626512JIC Female 37° Seat with Stem Hexagon DKJ
Femelle JIC siège 37° double hexagone

Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
1216077	C12626512-12120	3/4	19	12	1 1/16-12	12	30,2	27,0	32,0
1216080	C12626512-16160	1	25,4	16	1 5/16-12	16	38,0	36,0	38,0
1216082	C12626512-20200	1 1/4	31,8	20	1 5/8-12	20	43,1	41,0	50,0
1216084	C12626512-24240	1 1/2	38,1	24	1 7/8-12	24	49,4	50,0	55,0
1216085	C12R26512-32320	2	50,8	32	2 1/2-12	32	67,0	65,0	70,0

C1262254245° JIC Female 37° Seat Medium drop DKJ 45M Solid one piece
45° Femelle JIC siège 37° médium

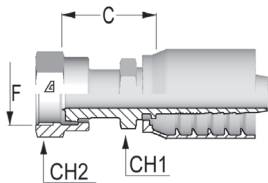
Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
1216067	C12622541-12120	3/4	19	12	1 3/16-12	12	69,0	27,5	32,0
1216068	C12622541-16160	1	25,4	16	1 7/16-12	16	84,8	31,0	38,0
1216069	C12622542-20200	1 1/4	31,8	20	1 5/8-12	20	99,0	37,0	50,0
1216070	C12622542-24240	1 1/2	38,1	24	1 7/8-12	24	118,0	43,5	55,0
1233046	C12R22542-32320	2	50,8	32	2 1/2-12	32	162,3	51,5	70,0

C1262259290° JIC Female 37° Seat DKJ 90 Solid one piece
90° Femelle JIC siège 37°

Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
1216071	C12622592-12120	3/4	19	12	1 3/16-12	12	59,0	57,0	32,0
1216074	C12622592-16160	1	25,4	16	1 7/16-12	16	76,0	67,0	38,0
1216076	C12622592-20200	1 1/4	31,8	20	1 5/8-12	20	67,5	71,1	50,0
1214175	C12622592-24240	1 1/2	38,1	24	1 7/8-12	24	105,0	92,0	55,0
1233047	C12R22592-32320	2	50,8	32	2 1/2-12	32	147,5	135,0	70,0

C12622411

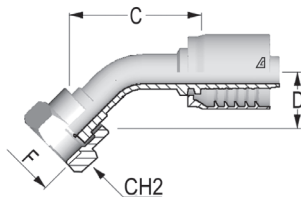
ORFS Female with Stem Hexagon
Femelle ORFS double hexagone



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm	CH2 mm
1214173	C12622411-12120	3/4	19	12	1 3/16-12	12	44,5	30,0	36,0
1214174	C12622411-12160	3/4	19	12	1 7/16-12	16	50,5	36,0	41,0
1216051	C12622411-16160	1	25,4	16	1 7/16-12	16	52,5	36,0	41,0
1216052	C12622411-16200	1	25,4	16	1 11/16-12	20	53,5	41,0	50,0
1216053	C12622411-20200	1 1/4	31,8	20	1 11/16-12	20	56,0	41,0	50,0

C12622441

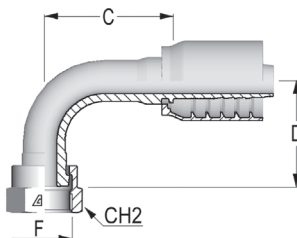
45° ORFS Female DK ORFS 45 Solid one piece
45° Femelle ORFS DK ORFS 45



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
1216055	C12622441-12120	3/4	19	12	1 3/16-12	12	81,0	26,0	36,0
1216056	C12622441-12160	3/4	19	12	1 7/16-12	16	81,0	28,0	41,0
1216057	C12622441-16160	1	25,4	16	1 7/16-12	16	94,0	28,0	41,0

C12622491

90° ORFS Female DK ORFS 90 Solid one piece
90° Femelle ORFS DK ORFS 90



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH2 mm
1216059	C12622491-12120	3/4	19	12	1 3/16-12	12	68,0	58,0	36,0
1216060	C12622491-12160	3/4	19	12	1 7/16-12	16	70,0	58,0	41,0
1216061	C12622491-16160	1	25,4	16	1 7/16-12	16	80,0	66,0	41,0
1216062	C12622491-20200	1 1/4	31,8	20	1 11/16-12	20	102,0	81,0	50,0

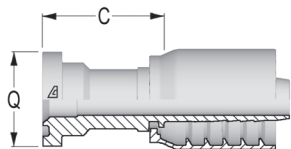
ALFACRIMP - SAE FLANGES

Wire Spiral Hoses - R12, 4SH and R13 / Tuyaux Avec Fil en Spirale - R12, 4SH et R13

C12643610

Flange SAE 6000 PSI J518 Code 62 SFS

Bride SAE 6000 PSI

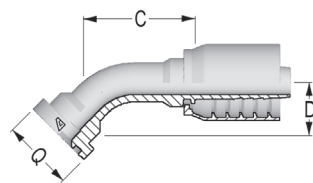


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor
1216120	C12643610-12120	3/4	19	12	3/4	6000	41,3	53,5
1216121	C12643610-12160	3/4	19	12	1	6000	47,6	56,5
1216123	C12643610-16160	1	25,4	16	1	6000	47,6	58,5
1216124	C12643610-16200	1	25,4	16	1 1/4	6000	54,0	65,5
1216125	C12643610-20200	1 1/4	31,8	20	1 1/4	6000	54,0	64,0
1216126	C12643610-20240	1 1/4	31,8	20	1 1/2	6000	63,5	74,0
1216127	C12643610-24240	1 1/2	38,1	24	1 1/2	6000	63,5	76,0
1216128	C12643610-24320	1 1/2	38,1	24	2	6000	79,4	88,0
1216129	C12R43610-32320	2	50,8	32	2	6000	79,4	103,0

C12643640

45° Flange SAE 6000 PSI J518 Code 62 SFS 45 Solid one piece

Bride 45° SAE 6000 PSI

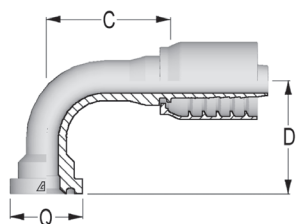


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	D DROP mm
1216140	C12643640-12120	3/4	19	12	3/4	6000	41,3	75,0	30,0
1216141	C12643640-12160	3/4	19	12	1	6000	47,6	80,0	33,0
1216142	C12643640-16160	1	25,4	16	1	6000	47,6	98,0	38,5
1216143	C12643640-16200	1	25,4	16	1 1/4	6000	54,0	96,0	44,0
1216144	C12643640-20200	1 1/4	31,8	20	1 1/4	6000	54,0	103,0	41,0
1216145	C12643640-20240	1 1/4	31,8	20	1 1/2	6000	63,5	117,0	48,0
1216146	C12643640-24240	1 1/2	38,1	24	1 1/2	6000	63,5	144,0	48,0
1216147	C12643640-24320	1 1/2	38,1	24	2	6000	79,4	137,0	55,0
1216148	C12R43640-32320	2	50,8	32	2	6000	79,4	177,0	61,0

C12643690

90° Flange SAE 6000 PSI J518 Code 62 SFS 90 Solid one piece

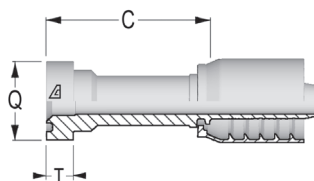
Bride 90° SAE 6000 PSI



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	D DROP mm
1216154	C12643690-12120	3/4	19	12	3/4	6000	41,3	65,0	64,0
1216155	C12643690-12160	3/4	19	12	1	6000	47,6	65,0	66,0
1216157	C12643690-16160	1	25,4	16	1	6000	47,6	75,0	74,0
1216158	C12643690-16200	1	25,4	16	1 1/4	6000	54,0	79,0	85,0
1216159	C12643690-20200	1 1/4	31,8	20	1 1/4	6000	54,0	96,0	91,0
1216160	C12643690-20240	1 1/4	31,8	20	1 1/2	6000	63,5	99,0	103,5
1216161	C12643690-24200	1 1/2	38,1	24	1 1/4	6000	54,0	112,0	85,0
1216162	C12643690-24240	1 1/2	38,1	24	1 1/2	6000	63,5	114,0	109,0
1216163	C12643690-24320	1 1/2	38,1	24	2	6000	79,4	118,0	121,5
1216164	C12R43690-32320	2	50,8	32	2	6000	79,4	172,0	131,0

C12643910

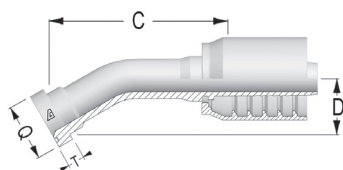
Flange SUPERCAT
Bride SUPERCAT



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	T mm
1216165	C12643910-12120	3/4	19,0	12	3/4	6000	41,3	85,5	14,3
1216166	C12643910-12160	3/4	19,0	12	1	6000	47,6	85,5	14,3
1216167	C12643910-16160	1	25,4	16	1	6000	47,6	94,5	14,3
1216168	C12643910-16200	1	25,4	16	1 1/4	6000	54,0	94,5	14,3
1216169	C12643910-20200	1 1/4	31,8	20	1 1/4	6000	54,0	92,0	14,3
1216170	C12643910-24240	1 1/2	38,0	24	1 1/2	6000	63,5	89,0	14,3

C12643930

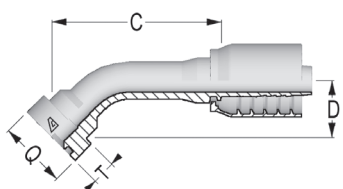
30° Flange SUPERCAT Solid one piece
Bride 30° SUPERCAT



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	D DROP mm	T mm
1216173	C12643930-12120	3/4	19	12	3/4	6000	41,3	115,0	24,0	14,3
1216174	C12643930-12160	3/4	19	12	1	6000	47,6	118,0	26,5	14,3
1233049	C12643930-16160	1	25,4	16	1	6000	47,6	139,0	27,0	14,3
1233050	C12643930-16200	1	25,4	16	1 1/4	6000	54	137,0	25,5	14,3

C12643940

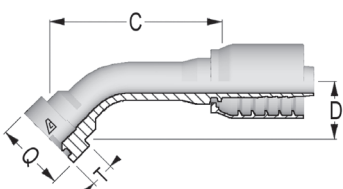
45° Flange SUPERCAT Solid one piece
Bride 45° SUPERCAT



Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	D DROP mm	T mm
1216177	C12643940-12120	3/4	19,0	12	3/4	6000	41,3	103,0	34,0	14,3
1216178	C12643940-12160	3/4	19,0	12	1	6000	47,6	106,5	36,0	14,3
1216179	C12643940-16160	1	25,4	16	1	6000	47,6	129,0	42,5	14,3
1216180	C12643940-16200	1	25,4	16	1 1/4	6000	54,0	128,0	40,0	14,3
1216181	C12643940-20200	1 1/4	31,8	20	1 1/4	6000	54,0	150,0	45,0	14,3

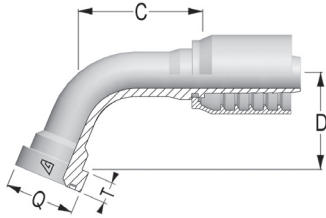
C12643960

60° Flange SUPERCAT Solid one piece
Bride 60° SUPERCAT

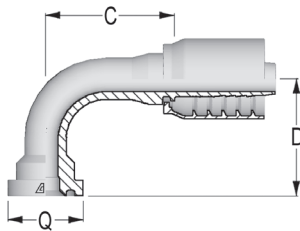


Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	D DROP mm	T mm
1216182	C12643960-12120	3/4	19	12	3/4	6000	41,3	92,5	46,0	14,3
1216183	C12643960-12160	3/4	19	12	1	6000	47,6	95,5	48,5	14,3
1216184	C12643960-16160	1	25,4	16	1	6000	47,6	118,0	59,0	14,3
1216185	C12643960-16200	1	25,4	16	1 1/4	6000	54	118,0	57,0	14,3

Wire Spiral Hoses - R12, 4SH and R13 / Tuyaux Avec Fil en Spirale - R12, 4SH et R13

C126439Z0**67,5° Flange SUPERCAT Solid one piece****Bride 67,5° SUPERCAT**

Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	D DROP mm	T mm
1216193	C126439Z0-12120	3/4	19	12	3/4	6000	41,3	86,0	52,0	14,3
1216194	C126439Z0-12160	3/4	19	12	1	6000	47,6	89,0	54,5	14,3
1233051	C126439Z0-16160	1	25,4	16	1	6000	47,6	111,0	67,0	14,3
1233052	C126439Z0-16200	1	25,4	16	1 1/4	6000	54	109,0	64,0	14,3
1233053	C126439Z0-20200	1 1/4	31,8	20	1 1/4	6000	54	119,5	70,5	14,3

C12643990**90° Flange SUPERCAT Solid one piece****Bride 90° SUPERCAT**

Item Code	Part Number	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	D DROP mm	T mm
1216188	C12643990-12120	3/4	19,0	12	3/4	6000	41,3	67,0	67,0	14,3
1216189	C12643990-12160	3/4	19,0	12	1	6000	47,6	69,0	70,0	14,3
1216190	C12643990-16160	1	25,4	16	1	6000	47,6	85,0	79,0	14,3
1216192	C12643990-16200	1	25,4	16	1 1/4	6000	54,0	80,0	82,5	14,3
1233054	C12643990-20200	1 1/4	31,8	20	1 1/4	6000	54	97,0	93,0	14,3



INOX FITTINGS & FERRULES/ RACCORDS EN ACIER INOX

FERRULES.....122

INOX BSP INSERTS/ENBOUS123

DIN METRIC INSERTS/
ENBOUS MÉTRIQUE DIN125

JIC 37° INSERTS/ENBOUS.....127

NPTF INSERTS/ENBOUS128

SAE FLANGES/BRIDES129

INTERLOCK FERRULES130

INTERLOCK BSP INSERTS/ENBOUS..131

INTERLOCK DIN METRIC INSERTS/
ENBOUS MÉTRIQUE DIN132

INTERLOCK JIC 37° INSERTS/
ENBOUS133

INTERLOCK NPTF
INSERTS/ENBOUS134

INTERLOCK INOX SAE FLANGES/
RACCORDS INOX BRIDES SAE ...135

TUYAUX
Hydraulique

TUYAUX
PTFE

RACCORDS
Standard

RACCORDS
Interlock

RACCORDS
Africrimp

Accessoires

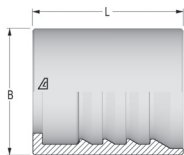
RACCORDS en
Acier Inoxydable

ADAPTATEURS
Standard

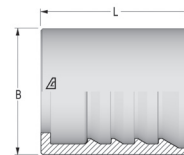
ADAPTATEURS
ORFS

ADAPTATEURS
MÉTRIQUE-BSP

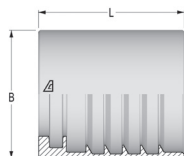
SERTISSEUSES

H3100104

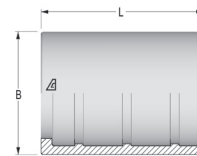
Code	Dash	mm	in	B	L
H3100104-240000	24	38,1	1 1/4	57	49,1
H3100104-320000	32	50,8	2	71	63,6

H3100204

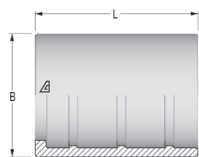
Code	Dash	mm	in	B	L
H3100204-240000	24	38,1	1 1/2	67	61,1
H3100204-320000	32	50,8	2	82	75,1

H3200202

Code	Dash	mm	in	B	L
H3200202-040000	04	6,4	1/4	22	26,3
H3200202-050000	05	7,9	5/16	25	26,3
H3200202-060000	06	9,5	3/8	25	27,2
H3200202-080000	08	12,7	1/2	29	32,8
H3200202-100000	10	15,8	5/8	34	35,6
H3200202-120000	12	19	3/4	38	38,6
H3200202-160000	16	25,4	1	50	45,3
H3200202-200000	20	31,8	1 1/4	61	50,2

H3200800

Code	Dash	mm	in	B	L
H3200800-040000	04	6,4	1/4	17	29
H3200800-050000	05	7,9	5/16	19	30
H3200800-060000	06	9,5	3/8	21	31
H3200800-080000	08	12,7	1/2	25,5	34

H2200A00

Code	Dash	mm	in	B	L
H2200A00-040000	04	6,4	1/4	15	29
H2200A00-050000	05	7,9	5/16	17	30
H2200A00-060000	06	9,5	3/8	22	31
H2200A00-080000	08	12,7	1/2	25	34
H2200A00-100000	10	16	5/8	30	36
H2200A00-120000	12	19	3/4	35	40
H2200A00-160000	16	25,4	1	42	46
H2200A00-200000	20	31,8	1 1/4	48,3	53
H2200A00-240000	24	38,1	1 1/2	54	60
H2200A00-320000	32	50,8	2	73	73

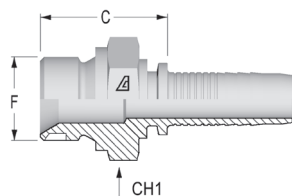
H3210510

BSPP Male parallel 60° Flare

- AGR

BSPP Mâle parallèle 60° Flare

- AGR

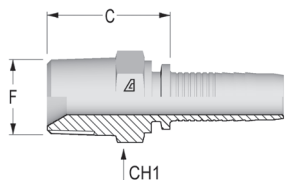


Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H3210510-040400	1/4	6,4	04	1/4-19	04	26,3	19
H3210510-050600	5/16	7,9	05	3/8-19	06	27,8	22
H3210510-060600	3/8	9,5	06	3/8-19	06	27,8	22
H3210510-080800	1/2	12,7	08	1/2-14	08	32,1	27
H3210510-121200	3/4	19	12	3/4-14	12	34,6	32
H3210510-161600	1	25,4	16	1-11	16	40,4	41
H3210510-202000	1 1/4	31,8	20	1 1/4-11	20	47	50

H3210710

BSPT Male tapered AGR K

BSPT Mâle conique AGR K



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H3210710-040400	1/4	6,4	04	1/4 19	04	26,3	17
H3210710-050600	5/16	7,9	05	3/8-19	06	26,3	19
H3210710-060600	3/8	9,5	06	3/8-19	06	26,3	19
H3210710-080800	1/2	12,7	08	1/2-14	08	34,1	22
H3210710-121200	3/4	19	12	3/4-14	12	34,6	27
H3210710-161600	1	25,4	16	1-11	16	43,4	36
H3210710-202000	1 1/4	31,8	20	1 1/4-11	20	49	46
H3210710-242400	1 1/2	38,1	24	1 1/2-11	24	49	50
H3210710-323200	2	50,8	32	2-11	32	52	65

TUYAUX
Hydraulique

TUYAUX
PTFE

RACCORDS
Standard

RACCORDS
Interlock

RACCORDS
Afacriimp

Accessoires

RACCORDS en
Acier Inoxydable

ADAPTATEURS
Standard

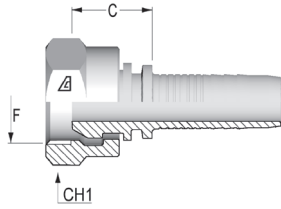
ADAPTATEURS
ORFS

ADAPTATEURS
MÉTRIQUE-BSP

SERTISSEUSES

H3220511

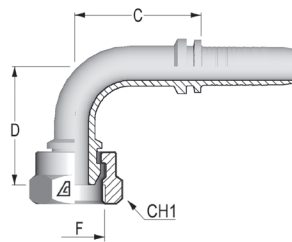
**BSPP Female 60° cone
with O-Ring DKOR**
**BSPP Femelle 60° cone
avec O-Ring DKOR**



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H3220511-040400	1/4	6,4	04	1/4-19	04	16	19
H3220511-060600	3/8	9,5	06	3/8-19	06	17	22
H3220511-080800	1/2	12,7	08	1/2-14	08	18	27
H3220511-121200	3/4	19	12	3/4-14	12	20,6	32
H3220511-161600	1	25,4	16	1-11	16	23,9	38
H3220512-202000	1 1/4	31,8	20	1 1/4-11	20	32	50
H3220512-242400	1 1/2	38,1	24	1 1/2-11	24	33,8	55
H3220512-323200	2	50,8	32	2-11	32	34	70

H3220591

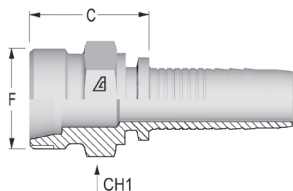
**90° BSPP Female 60° cone with
O-Ring DKOR 90**
Solid one piece
**90° BSPP Femelle 60° cone
avec O-Ring DKOR 90**
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H3220591-040400	1/4	6,4	04	1/4-19	04	29,3	19
H3220591-060600	3/8	9,5	06	3/8-19	06	39,5	22
H3220591-080800	1/2	12,7	08	1/2-14	08	40	27
H3220591-121200	3/4	19	12	3/4-14	12	53,5	32
H3220591-161600	1	25,4	16	1-11	16	73,4	38
H3220592-202000	1 1/4	31,8	20	1 1/4-11	20	83	50
H3220592-242400	1 1/2	38,1	24	1 1/2-11	24	96	55
H3220592-323200	2	50,8	32	2-11	32	138	70

H3211110

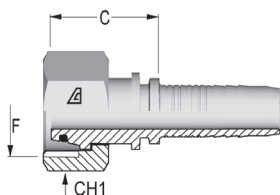
Metric Male 24° seat
Light DIN 3853 - CEL
Métrique Mâle 24°
Léger DIN 3853 - CEL



Code	Hose ID in	Hose ID mm	DASH	F Thread	F Thread DASH	C CUT-OFF Factor	CH1 mm
H3211110-041400	1/4	6,4	04	14x1,5	14	22,3	14
H3211110-051600	5/16	7,9	05	16x1,5	16	23,3	17
H3211110-061800	3/8	9,5	06	18x1,5	18	23,3	19
H3211110-082200	1/2	12,7	08	22x1,5	22	26,1	22
H3211110-102600	5/8	15,8	10	26x1,5	26	27,1	27
H3211110-123000	3/4	19	12	30x2	30	29,6	32
H3211110-163600	1	25,4	16	36x2	36	33,4	36
H3211110-204500	1 1/4	31,8	20	45x2	45	40	46

H3221513

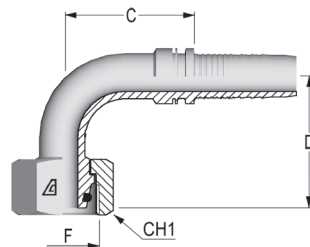
Metric Female 24° cone with
O-Ring - Light
DIN 3865 - DKOL
Métrique Femelle 24° cone
avec O-Ring - léger
DIN 3865 - DKOL



Code	Hose ID in	Hose ID mm	DASH	F Thread	F Thread DASH	C CUT-OFF Factor	CH1 mm
H3221513-041400	1/4	6,4	04	14x1,5	14	24,4	17
H3221513-051600	5/16	7,9	05	16x1,5	16	25,4	19
H3221513-061800	3/8	9,5	06	18x1,5	18	25,4	22
H3221513-082200	1/2	12,7	08	22x1,5	22	28,2	27
H3221513-102600	5/8	15,8	10	26x1,5	26	29,2	32
H3221513-123000	3/4	19	12	30x2	30	31,7	36
H3221513-163600	1	25,4	16	36x2	36	33,6	41
H3221513-204500	1 1/4	31,8	20	45x2	45	40,1	50

H3221593

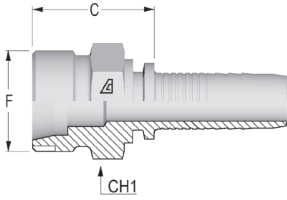
Metric Male 24° seat
Heavy DIN 3853 - CES
Solide one piece
Métrique Mâle 24° Lourde
DIN 3853 - CES
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread	F Thread DASH	C CUT-OFF Factor	CH1 mm
H3221593-041400	1/4	6,4	04	14x1,5	14	27,7	17
H3221593-051600	5/16	7,9	05	16x1,5	16	34,7	19
H3221593-061800	3/8	9,5	06	18x1,5	18	37,3	22
H3221593-082200	1/2	12,7	08	22x1,5	22	40,5	27
H3221593-102600	5/8	15,8	10	26x1,5	26	51,7	32
H3221593-123000	3/4	19	12	30x2	30	56	36
H3221593-163600	1	25,4	16	36x2	36	82,4	41
H3221593-204500	1 1/4	31,8	20	45x2	45	89	50

H3211210

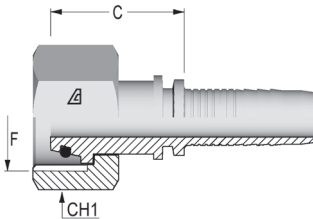
**Metric Male 24° seat
Heavy DIN 3853 - CES**
**Métrique Mâle 24° Lourd
DIN 3853 - CES**



Code	Hose ID in	Hose ID mm	DASH	F Thread	F Thread DASH	C CUT-OFF Factor	CH1 mm
H3211210-041800	1/4	6,4	04	18x1,5	18	24,3	19
H3211210-052000	5/16	7,9	05	20x1,5	20	25,3	22
H3211210-062200	3/8	9,5	06	22x1,5	22	27,3	22
H3211210-082400	1/2	12,7	08	24x1,5	24	29,1	24
H3211210-103000	5/8	15,8	10	30x2	30	31,1	32
H3211210-123600	3/4	19	12	36x2	36	36,6	36
H3211210-164200	1	25,4	16	42x2	42	42,4	46
H3211210-205200	1 1/4	31,8	20	52x2	52	46	55

H3221613

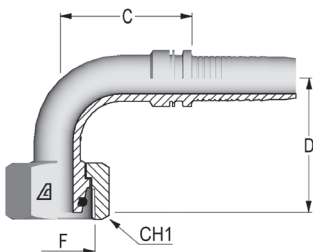
**Metric Female 24° cone
with O-Ring - Heavy
DIN 3865 - DKOS**
**Métrique Femelle 24° cone
avec O-Ring - Lourd
DIN 3865 - DKOS**



Code	Hose ID in	Hose ID mm	DASH	F Thread	F Thread DASH	C CUT-OFF Factor	CH1 mm
H3221513-041400	1/4	6,4	04	14x1,5	14	24,4	17
H3221513-051600	5/16	7,9	05	16x1,5	16	25,4	19
H3221513-061800	3/8	9,5	06	18x1,5	18	25,4	22
H3221513-082200	1/2	12,7	08	22x1,5	22	28,2	27
H3221513-102600	5/8	15,8	10	26x1,5	26	29,2	32
H3221513-123000	3/4	19	12	30x2	30	31,7	36
H3221513-163600	1	25,4	16	36x2	36	33,6	41
H3221513-204500	1 1/4	31,8	20	45x2	45	40,1	50

H3221693

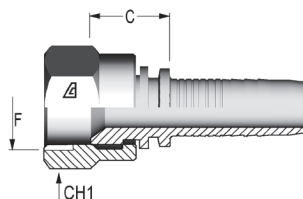
**90° Metric Female 24° cone with
O-Ring - Heavy
DIN 3865 DKOS 90**
Solid one piece
**90° Métrique Femelle 24° cone
avec O-Ring - Lourd
DIN 3865 DKOS 90**
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	F Thread	F Thread DASH	C CUT-OFF Factor	CH1 mm
H3221693-041800	1/4	6,4	04	18x1,5	18	28,2	22
H3221693-052000	5/16	7,9	05	20x1,5	20	35,7	24
H3221693-062200	3/8	9,5	06	22x1,5	22	38,8	27
H3221693-082400	1/2	12,7	08	24x1,5	24	40,5	30
H3221693-103000	5/8	15,8	10	30x2	30	51,7	36
H3221693-123600	3/4	19	12	36x2	36	55	46
H3221693-164200	1	25,4	16	42x2	42	78,4	50
H3221693-205200	1 1/4	31,8	20	52x2	52	98	60

H3222511

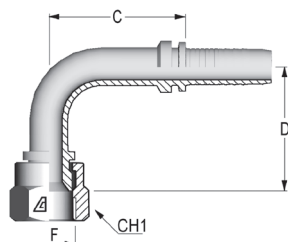
JIC Female 37° seat DKJ
JIC Femelle 37° DKJ



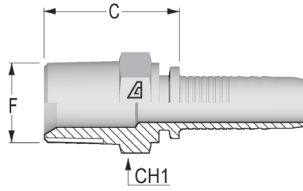
Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H3222511-040500	1/4	6,4	04	1/2-20	05	15,2	17
H3222511-040600	1/4	6,4	04	9/16-18	06	15,2	19
H3222511-050600	5/16	7,9	05	9/16-18	06	15,2	19
H3222511-060800	3/8	9,5	06	3/4-16	08	18	25
H3222511-081000	1/2	12,7	08	7/8-14	10	20	27
H3222511-121200	3/4	19	12	1 1/16-12	12	20,5	32
H3222511-161600	1	25,4	16	1 5/16-12	16	23,4	38
H3222512-202000	1 1/4	31,8	20	1 5/8-12	20	27,5	50

H3222591

90° JIC Female 37° seat DKJ
90 Solid one piece
90° JIC Femelle 37° DKJ 90
Solide un morceau



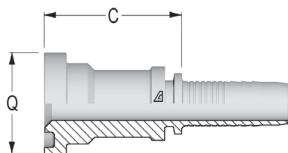
Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	CH1 mm
H3222591-040500	1/4	6,4	04	1/2-20	05	17
H3222591-040600	1/4	6,4	04	9/16-18	06	19
H3222591-050600	5/16	7,9	05	9/16-18	06	19
H3222591-060800	3/8	9,5	06	3/4-16	08	25
H3222591-081000	1/2	12,7	08	7/8-14	10	27
H3222591-121200	3/4	19	12	1 1/16-12	12	32
H3222591-161600	1	25,4	16	1 5/16-12	16	38
H3222591-202000	1 1/4	31,8	20	1 5/8-12	20	50

H3212810**NPTF Male 60° seat AGN**
NPTF Mâle 60° AGN

Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H3212810-040400	1/4	6,4	04	1/4-18	04	26,3	17
H3212810-060600	3/8	9,5	06	3/8-18	06	26,3	19
H3212810-080800	1/2	12,7	08	1/2-14	08	34	22
H3212810-121200	3/4	19	12	3/4-14	12	34,6	27
H3212810-161600	1	25,4	16	1-11 1/2	16	43,4	36
H3212810-202000	1 1/4	31,8	20	1 1/4-11 1/2	20	49	46

H3243310

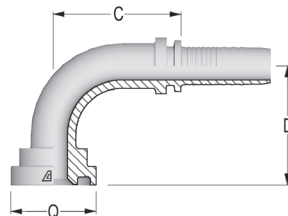
Flange SAE 3000 PSI
J518 code 61 SFL
Bride SAE 3000 PSI
J518 code 61 SFL



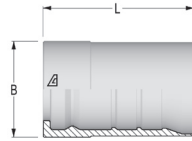
Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor
H3243310-080800	1/2	12,7	08	1/2	5000	30,2	41
H3243310-121200	3/4	19	12	3/4	5000	38,1	42,5
H3243310-161600	1	25,4	16	1	5000	44,5	51,5
H3243310-202000	1 1/4	31,8	20	1 1/4	4000	50,8	55,5

H3243390

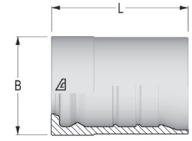
90° Flange SAE 3000 PSI J518
code 61 SFL 90
Solid one piece
Bride 90° SAE 3000 PSI J518
code 61 SFL 90
Solide un morceau



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor
H3243310-080800	1/2	12,7	08	1/2	5000	30,2	41
H3243310-121200	3/4	19	12	3/4	5000	38,1	42,5
H3243310-161600	1	25,4	16	1	5000	44,5	51,5
H3243310-202000	1 1/4	31,8	20	1 1/4	4000	50,8	55,5

INTERLOCK INOX / FERRULES**H3400200**

Code	Dash	mm	in	B	L
H3400200-120000	3/4	19	12	38	60,1
H3400200-160000	1	25,4	16	46	74,6

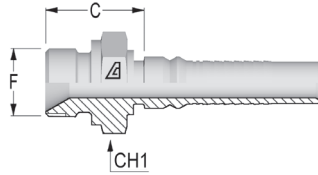
H3400301

Code	Dash	mm	in	B	L
H3400301-200000	1 1/4	31,8	20	64	88,1
H3400301-240000	1 1/2	38,1	24	69,5	94,1
H3400301-320000	2	50,8	32	88	99

H3410510

BSPP Male parallel 60° Flare - AGR
BSPP Mâle parallèle 60° Flare - AGR

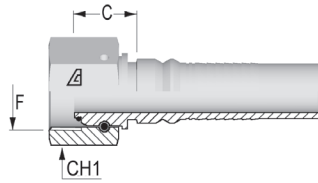
Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H3410510-121200	3/4	19	12	3/4-14	12	32	32
H3410510-161600	1	25,4	16	1-11	16	38	41
H3410510-202000	1 1/4	31,8	20	1 1/4-11	20	44,2	50



H3420512

BSPP Female 60° cone DKOR
BSPP Femelle 60° cone DKOR

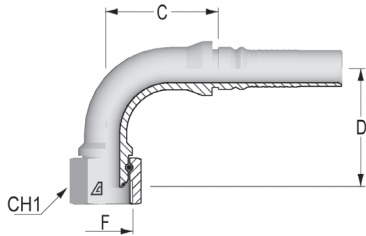
Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H3420512-121200	3/4	19	12	3/4-14	12	21,3	32
H3420512-161600	1	25,4	16	1-11	16	26,5	41
H3420512-202000	1 1/4	31,8	20	1 1/4-11	20	29,2	50



H3420592

90° BSPP Female 60° cone DKOR 90 Solid one piece
90° BSPP Femelle 60° cone DKOR 90 Solide un morceau

Code	Hose ID in	Hose ID mm	DASH	F Thread in-TPI	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH1 mm
H3420592-121200	3/4	19	12	3/4-14	12	58	61	32
H3420592-161600	1	25,4	16	1-11	16	71	71	38
H3420592-202000	1 1/4	31,8	20	1 1/4-11	20	79,2	83	50

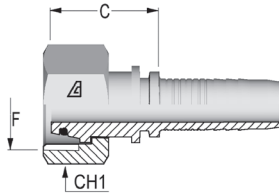


TUYAUX Hydraulique
 TUYAUX PTFE
 RACCORDS Standard
 RACCORDS Interlock
 RACCORDS Afacrimp
 Accessoires
 RACCORDS en Acier Inoxydable
 ADAPTATEURS Standard
 ADAPTATEURS ORFS
 ADAPTATEURS MÉTRIQUE-BSP
 SERTISSEUSES

H3421613

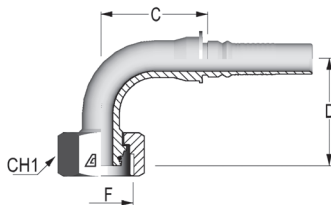
Metric Female 24° cone with O-Ring - Heavy DIN 3865 - DKOS
Métrique Femelle 24° cone avec O-Ring - Lourd DIN 3865 - DKOS

Code	Hose ID in	Hose ID mm	DASH	F Thread	F Thread DASH	C CUT-OFF Factor	CH1 mm
H3421613-123600	3/4	19	12	36x2	36	37,6	46
H3421613-164200	1	25,4	16	42x2	42	40,7	50
H3421613-205200	1 1/4	31,8	20	52x2	52	45,3	60

**H3421693**

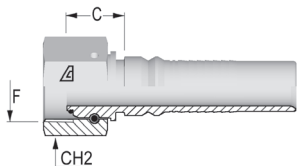
90° Metric Female 24° cone with O-Ring - Heavy DIN 3865 DKOS 90 Solid one piece
90° Métrique Femelle 24° cone avec O-Ring - Lourd DIN 3865 DKOS 90 Solide un morceau

Code	Hose ID in	Hose ID mm	DASH	F Thread	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH1 mm
H3421693-123600	3/4	19	12	36x2	36	37,6	65	46
H3421693-164200	1	25,4	16	42x2	42	40,7	79	50
H3421693-205200	1 1/4	31,8	20	52x2	52	45,3	101	60



H3422512

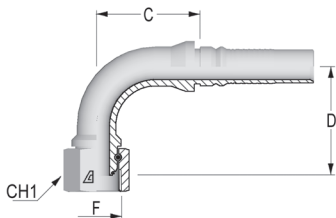
JIC Female 37° seat DKJ
JIC Femelle 37° DKJ



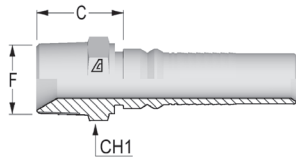
Code	Hose ID in	Hose ID mm	DASH	F Thread	F Thread DASH	C CUT-OFF Factor	CH1 mm
H3422512-121200	3/4	19	12	1 1/16-12	12	18,7	32
H3422512-161600	1	25,4	16	1 5/16-12	16	22,5	38
H3422512-202000	1 1/4	31,8	20	1 5/8-12	20	25,7	50
H3422512-242400	1 1/2	38,1	24	1 7/8-12	24	29	55

H3422592

90° JIC Female 37° seat DKJ
90° Solid one piece
90° JIC Femelle 37° DKJ 90
Solide un morceau.



Code	Hose ID in	Hose ID mm	DASH	F Thread	F Thread DASH	C CUT-OFF Factor	D DROP mm	CH1 mm
H3422592-121200	3/4	19	12	1 1/16-12	12	52	57	32
H3422592-161600	1	25,4	16	1 5/16-12	16	70	67	38
H3422592-202000	1 1/4	31,8	20	1 5/8-12	20	79,2	78	50
H3422592-242400	1 1/2	38,1	24	1 7/8-12	24	94,5	92	55

H3412810**NPTF Male 60° seat AGN****NPTF Mâle 60° AGN**

Code	Hose ID in	Hose ID mm	DASH	F Thread	F Thread DASH	C CUT-OFF Factor	CH1 mm
H3412810-121200	3/4	19	12	3/4-14	12	32	27
H3412810-161600	1	25,4	16	1-11 1/2	16	41	36
H3412810-202000	1 1/4	31,8	20	1 1/4-11 1/2	20	46,2	46
H3412810-242400	1 1/4	38,1	24	1 1/2-11 1/2	24	47,5	50

Standard
FITTINGSInterlock
FITTINGSAlfacrimp
FITTINGS

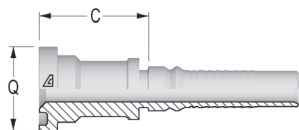
Accessories

Stainless Steel
FITTINGSStandard
ADAPTERSORFS
ADAPTERSMETRIC - BSP
ADAPTERS

CRIMPERS

H3443610

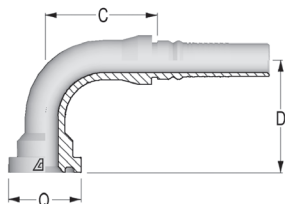
Flange SAE 6000 PSI J518
code 62 SFS
Bride SAE 6000 PSI J518
code 62 SFS



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor
H3443610-121200	3/4	19	12	12	6000	41,3	50
H3443610-161600	1	25,4	16	16	6000	47,6	54
H3443610-202000	1 1/4	31,8	20	20	6000	54	62
H3443610-242400	1 1/4	38,1	24	24	6000	63,5	68,5
H3443610-323200	2	50,8	32	32	6000	79,4	75

H3443690

90° Flange SAE 6000 PSI J518
code 62 SFS 90 Solid one piece
Bride 90° SAE 6000 PSI J518
code 62 SFS 90 Solide un
morceau



Code	Hose ID in	Hose ID mm	DASH	Flange SIZE	MAX WP psi	Q mm	C CUT-OFF Factor	D DROP mm
H3443690-121200	3/4	19	12	12	6000	41,3	47	64,5
H3443690-161600	1	25,4	16	16	6000	47,6	73	75
H3443690-202000	1 1/4	31,8	20	20	6000	54	88	85
H3443690-242400	1 1/2	38,1	24	24	6000	63,5	107,5	102
H3443690-323200	2	50,8	32	32	6000	79,4	147	134,5

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ADAPTER SELECTION

Selection of an appropriate ALFAGOMMA adapter for a given application depends on the fluid system operating parameters listed below and the tube material and wall thickness they require:

1. Type of fluid
2. Operating temperature range
3. Type of line - pressure, return or suction
4. Maximum flow rate through the line
5. Maximum operating / service pressure
6. Severity of service
7. Environment

Then, based on the tube selected and appropriate fluid system operating parameters, determine adapter type(s) and material(s) using the features comparison table below.

FEATURES COMPARISON OF TUBE FITTINGS				
Feature		ORFS	JIC 37°	BSP
Performance	Pressure capability*	Very High	Medium to High	Medium to High
	Seal Reliability	Excellent	Good	Very Good
		Elastomeric Seal	Metal to Metal Seal	Elastomeric Seal
		High tolerance to minor surface imperfections and damage. High tolerance to assembly variations.	Low tolerance to minor surface imperfections and damage. Low tolerance to assembly variations.	Low tolerance to minor surface imperfections and damage. Low tolerance to assembly variations.
Vibration Resistance in Rigid Systems	Excellent	Good	Very Good	
Tube Compatibility	Wall Thickness	All	Medium	Medium
	Critical Features	OD tolerance and hardness for flat tube, OD tolerance only for brazed tube	ID finish, wall thickness uniformity (concentricity) and hardness	OD tolerance and hardness
Assembly	Tube Preparation	Easy and quick (slower for sleeve brazing)	Easy and quick	Easy and quick (slower for welded nipple)
	Inspection	Easy and quick	Easy and quick	Critico, richiede esperienza
	Ease of Installation	Excellent, Minimum skill and training are necessary because of high tolerances to assembly variations	Good. Low tolerance to assembly variations. Requires skilled and trained personnel	
	Ease of Maintenance	Excellent, no tube entry	Very Good, Small tube entry	Good, Large tube entry
Temperature Capability Adapters without O-Ring	Steel	To be used only with O-ring	-65° F to 500° F	-65° F to 500° F
	Stainless Steel		-425° F to 1200° F	==
	Brass		-40° F to 400° F	==
Temperature Capability Adapters with O-Ring**	All Style of Adapter	-30 F to 250° F	-30 F to 250° F	-30 F to 250° F

* For details see Working Pressure Charts in the individual adapters section

** For details concerning O-ring see section "O-ring selection" and "Fluid Resistance Table"

JIC 37° ADAPTER (ISO 8431-2, SAE J514)

Main Features

Adapters are designed and manufactured according to SAE J514 and ISO 8434-2, and commonly called 37° JIC Adapters.

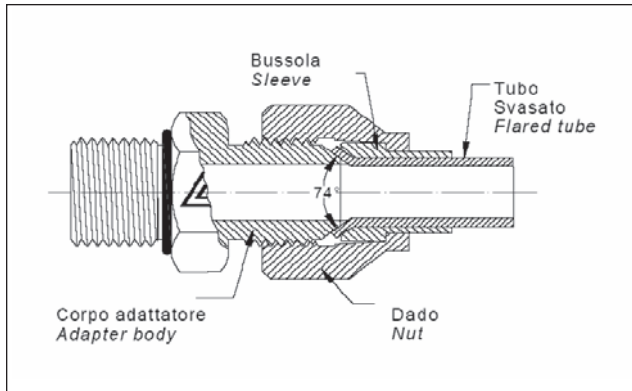
37° JIC adapter performs extremely well in all high pressure applications.

The seal is made by connecting a 37° flared tube surface to a 37° flare male and tightening by mean of a nut and a sleeve.

The flared tube avoids welded connection, so high performances are guaranteed even in case of severe vibrations, mechanic/hydraulic shocks and multiple assembly/disassembly operations.

When tightened, sleeve provides tube and adapter self alignment and helps to reduce the vibrations on the tube during application.

An appropriate choice of sleeve gives the possibility of assembling adapters with both metric and inch-tubes



Flaring Operations

Perfect sealing is guaranteed with tubes having physical and mechanical characteristics obtained by cold-drawing and a ductility expressed as 21% of minimum elongation.

Also is necessary to follow a correct flaring procedure:

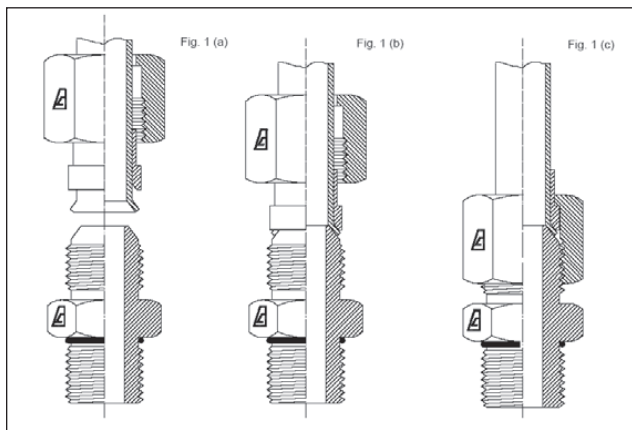
- Cut end of tube must be perpendicular to its axis . Note: cutting operation reduces the whole length of tube (almost 0,5±1mm for each end).

- Dimensions of the end of the tube shall allow the correct placing on the flaring machine.

- Flared surface must be inspected to avoid excessive roughness and defects such as cracks or exfoliation.

- Length of flared zone shall be enough to allow a sufficient sealing surface and avoid the blowing off of the tube, but not excessive to prevent the contact with thread of the nut.

A well followed flaring procedure assures no leakage even after frequent assembling and disassembling operations.



ORFS ADAPTER (ISO 8431-3, SAE J1453)

Main Features

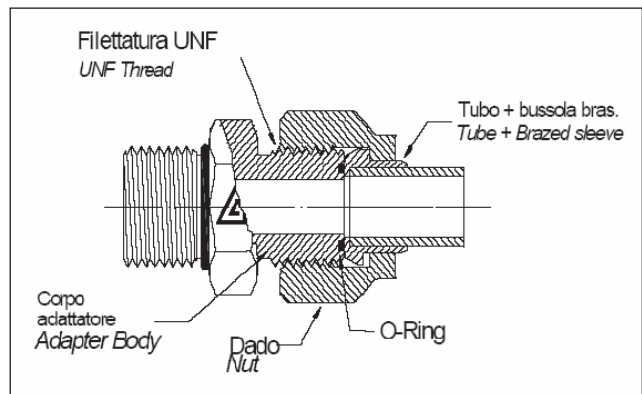
Adapters are designed and manufactured according to standard SAE J1453 and commonly called ORFS adapters.

O-Ring Face Seal adapters performs extremelywell in all high pressure applications where elastomeric seals are needed to overcome leakage and leak resistance is crucial.

A seal is made when the O-Ring in the male contacts the 180° flat face of the tube. The male connector has a straight thread and a machined flat face. The seal takes place by compressing the O-Ring onto the flat face of the female.

ORFS system is composed by:

- Nut;
- Sleeve for flat tube and a shouldered sleeve for brazing. An appropriate choice of sleeve gives the possibility of assembling adapters with both metric and inch-tubes.
- Various kind and size of adapter body
- O-Ring material is NBR, Shore "A": 90, suitable for a temperature range of: - 30°C/+130°C (-22°F/+266° F)



Flaring Tube Operations

Perfect sealing is guaranteed with tubes having physical and mechanical characteristics obtained by cold-drawing and a ductility expressed as 21% of minimum elongation.

Also is necessary to follow a correct flaring procedure:

- Cut end of tube must be perpendicular to its axis.
- Cutting operation reduce the whole length of tube
- Dimensions of the end of the tube shall allow the correct collocation on the flaring machine.

- Flared surface must be inspected to avoid excessive roughness and defects such as cracks or exfoliation.

- Brazing sleeve guarantees the same performances as the flared tube, and shall be used in the following cases:

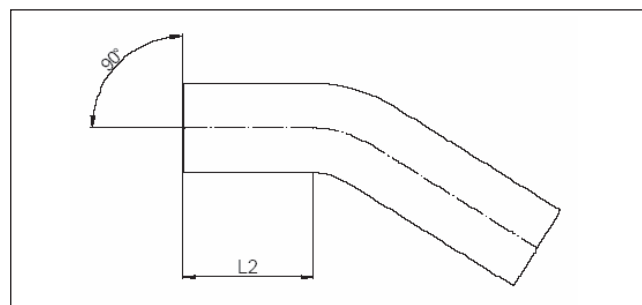
- Tube is not in accordance with the above mechanical characteristics.

- The straight part of the tube is not of a sufficient length (see quote L2 and values listed in table of figure O-3)

- Tube thickness is lower than values listed in table (O-1)

- For cutting length consider shoulder of the sleeve (quote L1 of table O-1).

A well followed flaring procedure assures no leakage even after frequent assembling and disassembling operations.

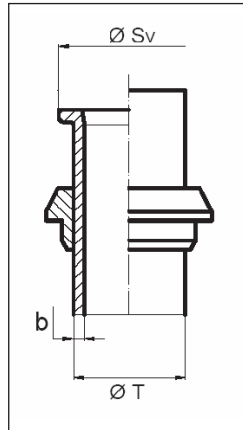


Hose mm	L2 Min mm
Ø 6 - Ø 12	73
Ø 14 - Ø 18	100
Ø 20 - Ø 22	120
Ø 25 - Ø 42	130

Few and simple operations are requested for assembling ORFS tube/adapter.

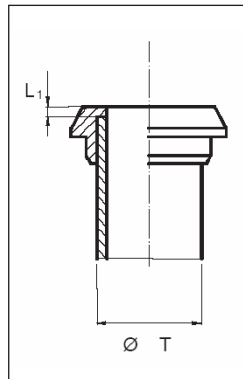
Sleeve and Tube Flared:

- 1a) Place nut and sleeve on the tube with the appropriate orientation.
- 2a) Flare the tube (See procedure)
- 3a) Place the tube near seal surface of the adapter and screw by hand.
- 4a) Lock the adapter and tighten with a torque wrench.



Brazed sleeve

- 1b) Cut the tube considering quote L1 of the sleeve (See Figure O-5);
- 2b) Clean and degrease accurately the end of the tube and the sleeve;
- 3b) Put the brazing ring into the sleeve
- 4b) Apply melting at the end of the tube and in the sleeve, then assembly the sleeve on the tube;
- 5b) Start brazing and be aware of not overheating melting material;
- 6b) Clean the connecting part and verify the good quality of weld around the external diameter of the hose;
- 7b) Complete the assembly procedure as described in points 3a) and 4a). See the correct installation torque in the attached table (O-2).



Hose		SV	
mm	In	min	max
6	1/4	12,0	12,7
8	5/16	14,7	15,7
10	3/8	14,7	15,7
12	1/2	17,9	18,9
15		22,1	23,4
16	5/8	22,1	23,4
18		26,3	27,8
20	3/4	26,3	27,8
22		32,4	34,2
25	1	32,4	34,2
28		39,0	40,5
30		39,0	40,5
32	1.1/4	39,0	40,5
35		46,0	48,5
38	1.1/2	46,0	48,5

BSP ADAPTER (ISO 8431-6, BS 5200)

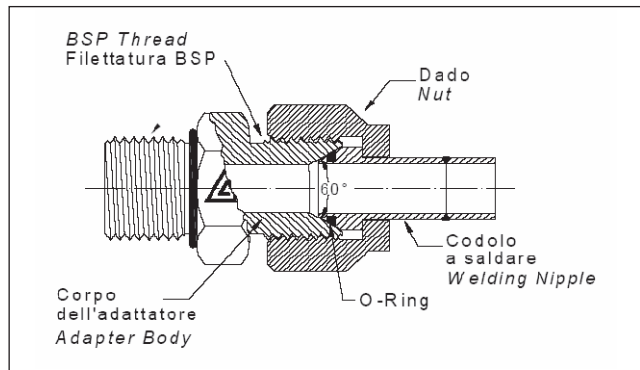
Main Features

Adapters are designed and manufactured according to standard BS 5200, ISO 8434-6 and ISO 228-1 and they are commonly called BSP adapters (British Standard Pipe). BSP adapter is widely employed, it performs extremely well in all high pressure applications with oil and gas. The seal is made by connecting a 60° flared tube to the 60° male surface and tightening by mean of a nut and a sleeve. The O-Ring placed in the tube groove improves the sealing. They are not welded part in the locking area and performances are good even after multiple assembly and disassembly operations, severe vibrations and mechanic/hydraulic shocks.

Assembling Procedure

Few and simple operations are requested for assembling BSP tube/adapter:

- 1) Carefully align tube and adapter. In other case sealing is not guaranteed.
 - 2) Lubricate accurately sealing surfaces with mineral oil or suitable lubricant.
 - 3) Place the tube near seal surface of the adapter and tight by hand.
 - 4) Lock the adapter and tighten with a torque wrench.
- See the correct installation torque in the attached table B-1



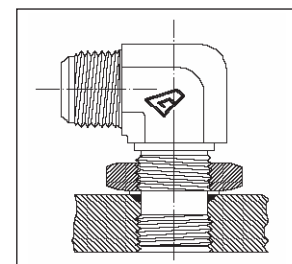
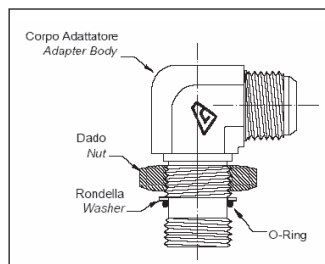
Assembly Instruction For Adjustable Adapter Thread: Sae Unf, Bsp, Metric

Lubricate the O-Ring with mineral oil. Back off locknut as far as possible. Make sure that washer is pushed-up as far as possible.

Screw by hand the adapter into the port until the O-Ring enter the port.

To align the tube end and of adapter accept incoming tube or hose assembly by means of one spin of this in the contrary unscrew by required amount but not more than one full turn.

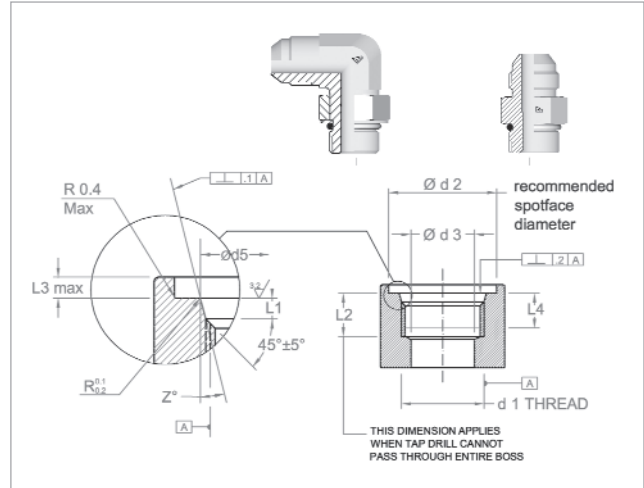
Hold the adapter in desired position by mean of a wrench and tighten locknut to the suggested torque value by means of a dynamometric wrench.



METRIC PORT - ISO 6149 - SAE 2244-1

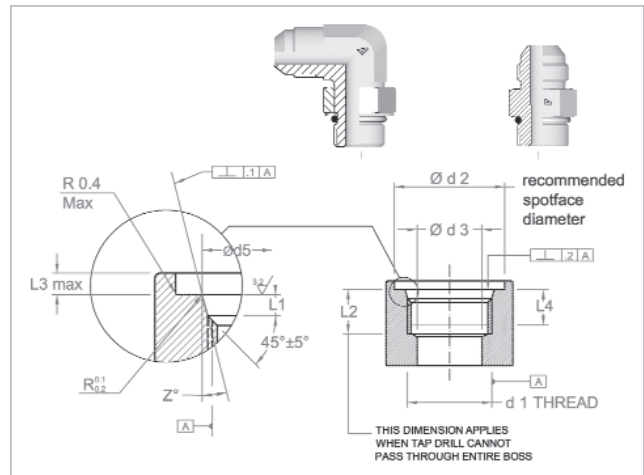
Metric Thread	D2 ²⁾ min	D3 ³⁾ min	D5 +0,1 0	D6 +0,5 0	L1 +0,4 0	L2 min	L3 max	L4	Z° +-1°	Assembly Torque +10% 0
	D1	mm	mm	mm	mm	mm	mm	mm		Nm
M8x1	17	14	9,1	14	1,6	11,5	1	10	12°	10
M10x1	20	16	11,1	16	1,6	11,5	1	10	12°	20
M12x1,5	23	19	13,8	19	2,4	14	1,5	11,5	15°	35
M14x1,5 ¹⁾	25	21	15,8	21	2,4	14	1,5	11,5	15°	45
M16x1,5	28	24	17,8	24	2,4	15,5	1,5	13	15°	55
M18x1,5	30	28	19,8	26	2,4	17	2	14,5	15°	70
M22x1,5	34	29	23,8	29	2,4	18	2	15,5	15°	100
M27x3	40	34	29,4	34	3,1	22	2	19	15°	170
M33x2	49	43	35,4	43	3,1	22	2,5	19	15°	310
M42x2	60	52	44,4	52	3,1	22,5	2,5	19,5	15°	330
M48x2	66	57	50,4	57	3,1	25	2,5	22	15°	420
M60x2	76	67	52,4	67	3,1	27,5	2,5	24,5	15°	500

- 1) Preferred for diagnostic port application
- 2) Spotface diameter with identification ridge
- 2) D Spotface diameter without identification ridge



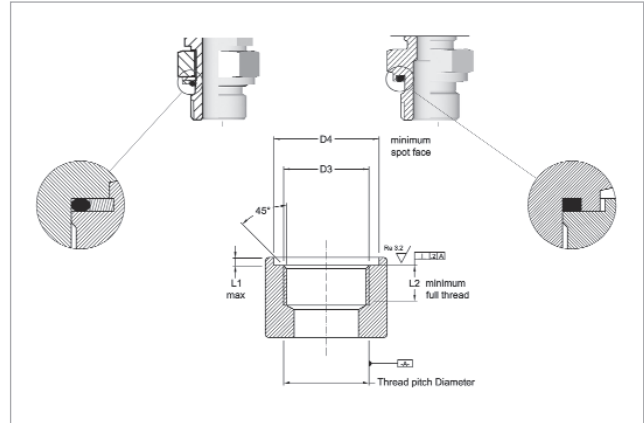
SAE UNF PORT - SAE J1926-1 - ISO 11926

ANSI B1.1 Thread	D2	D3	D3 +0,13 0	L1 +0,4 0	L2 min	L3 max	L4 min	Z° +-1°	Assembly Torque +10% 0
	mm	mm	mm	mm	mm	mm	mm		Nm
7/16"-20	21	4,4	12,4	2,4	14	1,6	11,5	12°	20
1/2"-20	23	6	14	2,4	14	1,6	11,5	12°	25
9/16"-18	25	7,5	15,6	2,5	15,5	1,6	12,7	12°	35
3/4"-16	30	10	20,6	2,5	17,5	2,4	14,3	15°	70
7/8"-14	34	12,5	23,9	3,3	20	2,4	16,7	15°	100
1" 1/16-12	41	16	29,2	3,3	23	2,4	19	15°	170
1" 5/16-12	49	21	35,5	3,3	23	3,2	19	15°	270
1" 5/8-12	58	27	43,5	3,3	23	3,2	19	15°	285
1" 7/8-12	65	33	49,8	3,3	23	3,2	19	15°	370
M42x2	60	52	44,4	52	3,1	22,5	2,5	19,5	15°
M48x2	66	57	50,4	57	3,1	25	2,5	22	15°
M60x2	76	67	52,4	67	3,1	27,5	2,5	24,5	15°



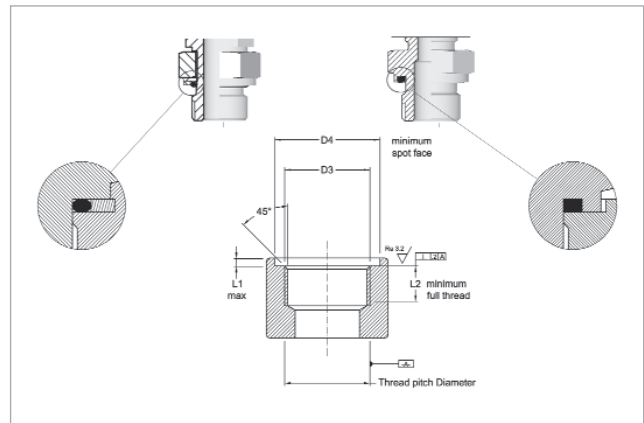
BSPB PORT - ISO 9974 - DIN 3852-1

ANSI B1.1 Thread	D3 +0.2 0	D4	L1 max	L2 min	Assembly Torque +10% 0
	mm	mm	mm	mm	Nm
1/8"-28	9,8	15	1	8	20
1/4"-19	13,2	20	1,5	12	50
3/8"-19	16,7	23	2	12	80
1/2"-14	21	28	2,5	14	100
3/4"-14	26,5	33	2,5	16	200
1"-11	33,3	41	2,5	18	380
1" 1/4-11	42	51	2,5	20	500
1" 1/2-11	47,9	56	2,5	22	600



METRIC PORT- ISO 9974 - DIN 3852-1

Metric Thread	D3 +0.2 0	D4 min	L1 max	L2 min	Assembly Torque +10% 0
	mm	mm	mm	mm	Nm
M12x1,5	12	18	1,5	12	35
M14x1,5	14	20	1,5	12	45
M16x1,5	16	23	1,5	12	55
M18x1,5	18	25	2	12	68
M20x1,5	20	27	2	14	80
M22x1,5	22	28	2,5	14	98
M27x2	27	33	2,5	16	180
M33x2	33	41	2,5	18	310
M42x2	42	51	2,5	20	330
M48x2	48	56	2,5	22	400

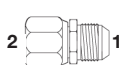

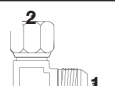


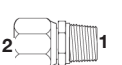
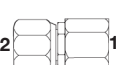


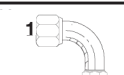
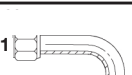


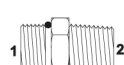
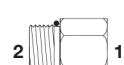

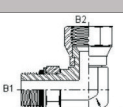
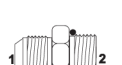



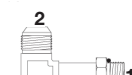
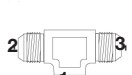



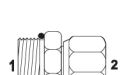
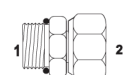

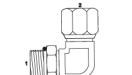










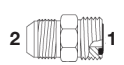
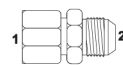


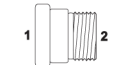
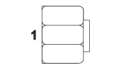
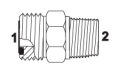


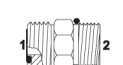
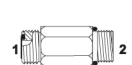


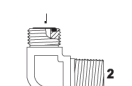
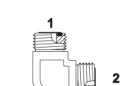
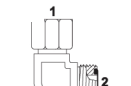


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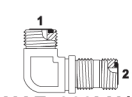



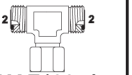
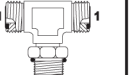
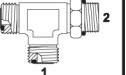

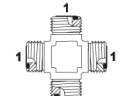






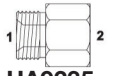

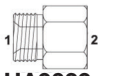



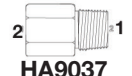


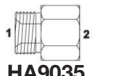
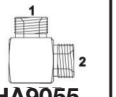
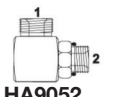

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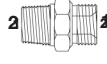
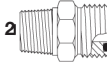
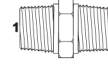
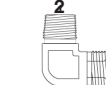

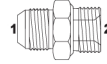
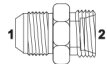
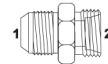
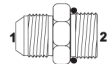
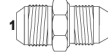
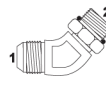
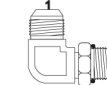
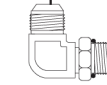
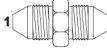
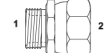

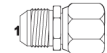
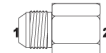
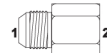
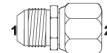
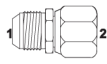
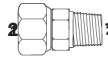
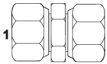
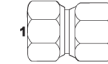
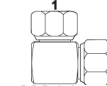
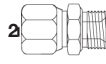
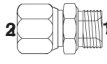
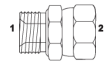
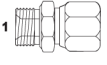

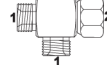


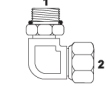


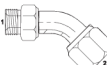
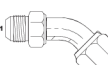
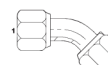

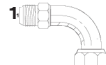

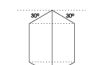
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PTFE HOSE
Standard FITTINGS
Interlock FITTINGS
Alfacrimp FITTINGS
Accessories
Stainless Steel FITTINGS
Standard ADAPTERS
ORFS ADAPTERS
METRIC - BSP ADAPTERS
CRIMPERS

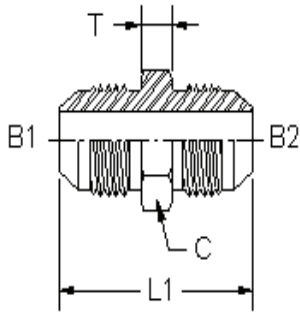
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* HA9008: MALE BSPT X MALE NPT NIPPLE

HA1204**Straight Union JIC-JIC Male**
Adapteur JIC - JIC Mâle

Code	TUBE OD in.	B1 (male JIC) in.	B2 (male JIC) in.	T mm	L1 mm	C HEX mm
HA1204-02-02	1/8	5/16-24	5/16-24	5.59	29.72	11.13
HA1204-03-02	3/16 1/8	3/8-24	5/16-24	5.59	30.48	11.13
HA1204-03-03	3/16	3/8-24	3/8-24	5.59	31.24	11.13
HA1204-04-02	1/4 1/8	7/16-20	5/16-24	5.59	32.26	12.70
HA1204-04-03	1/4 3/16	7/16-20	3/8-24	5.59	33.02	12.70
HA1204-04-04	1/4	7/16-20	7/16-20	5.59	34.80	12.70
HA1204-05-04	5/16 1/4	1/2-20	7/16-20	5.59	34.80	14.27
HA1204-05-05	5/16	1/2-20	1/2-20	5.59	34.80	14.27
HA1204-06-04	3/8 1/4	9/16-18	7/16-20	6.35	35.56	15.88
HA1204-06-05	3/8 5/16	9/16-18	1/2-20	6.35	35.56	15.88
HA1204-06-06	3/8	9/16-18	9/16-18	6.35	35.81	15.88
HA1204-08-04	1/2 1/4	3/4-16	7/16-20	6.35	38.35	20.65
HA1204-08-05	1/2 5/16	3/4-16	1/2-20	6.35	38.35	20.65
HA1204-08-06	1/2 3/8	3/4-16	9/16-18	6.35	38.61	20.65
HA1204-08-08	1/2	3/4-16	3/4-16	6.35	41.15	20.65
HA1204-10-04	5/8 1/4	7/8-14	7/16-20	7.87	42.42	23.83
HA1204-10-05	5/8 5/16	7/8-14	1/2-20	7.87	42.42	23.83
HA1204-10-06	5/8 3/8	7/8-14	9/16-18	7.87	42.67	23.83
HA1204-10-08	5/8 1/2	7/8-14	3/4-16	7.87	45.21	23.83
HA1204-10-10	5/8	7/8-14	7/8-14	7.87	47.75	23.83
HA1204-12-04	3/4 1/4	1 1/16-12	7/16-20	9.65	46.99	28.58
HA1204-12-05	3/4 5/16	1 1/16-12	1/2-20	9.65	46.99	28.58
HA1204-12-06	3/4 3/8	1 1/16-12	9/16-18	9.65	46.99	28.58
HA1204-12-08	3/4 1/2	1 1/16-12	3/4-16	9.65	49.53	28.58
HA1204-12-10	3/4 5/8	1 1/16-12	7/8-14	9.65	52.07	28.58
HA1204-12-12	3/4	1 1/16-12	1 1/16-12	9.65	54.86	28.58
HA1204-14-12	7/8 3/4	1 3/16-12	1 1/16-12	9.65	55.37	31.75
HA1204-14-14	7/8	1 3/16-12	1 3/16-12	9.65	56.13	31.75
HA1204-16-06	1 3/8	1 1/16-12	9/16-18	9.65	48.01	34.93
HA1204-16-08	1 1/2	1 5/16-12	3/4-16	9.65	50.80	34.93
HA1204-16-10	1 5/8	1 5/16-12	7/8-14	9.65	53.34	34.93
HA1204-16-12	1 3/4	1 5/16-12	1 1/16-12	9.65	55.88	34.93
HA1204-16-14	1 7/8	1 5/16-12	1 3/16-12	9.65	56.64	34.93
HA1204-16-16	1	1 5/16-12	1 5/16-12	9.65	57.15	34.93
HA1204-20-12	1-1/4 3/4	1 5/8-12	1 1/16-12	11.68	59.94	42.88
HA1204-20-16	1-1/4 1	1 5/8-12	1 5/16-12	11.68	60.45	42.88
HA1204-20-20	1-1/4	1 5/8-12	1 5/8-12	11.68	61.72	42.88
HA1204-24-10	1-1/4 5/8	1 7/8-12	7/8-14	13.46	61.47	50.80
HA1204-24-12	1-1/2 3/4	1 7/8-12	1 1/16-12	13.46	64.26	50.80
HA1204-24-16	1-1/2 1	1 7/8-12	1 5/16-12	13.46	65.53	50.80
HA1204-24-20	1-1/2 1-1/4	1 7/8-12	1 5/8-12	13.46	66.55	50.80
HA1204-24-24	1 1/2	1 7/8-12	1 7/8-12	13.46	69.85	50.80
HA1204-32-16	2 1	2 1/2-12	1 5/16-12	17.27	75.69	66.68
HA1204-32-20	2 1-1/4	2 1/2-12	1 5/16-12	17.27	76.71	66.68
HA1204-32-24	2 1-1/2	2 1/2-12	1 7/8-1/2	17.27	80.01	66.68
2404-32-32	2	2 1/2-12	2 1/2-12	17.27	86.36	66.68

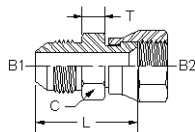
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HOSEStandard
FITTINGSInterlock
FITTINGSAlfacrimp
FITTINGS

Accessories

Stainless Steel
FITTINGSStandard
ADAPTERSORFS
ADAPTERSMETRIC - BSP
ADAPTERS

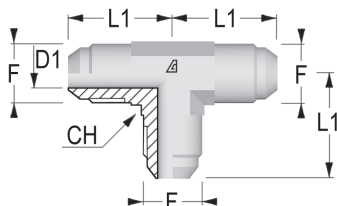
CRIMPERS

HA1205 MJ-FJX Connector Adapteur MJIC/ FJIC



Code	TUBE OD in.	B1 (male JIC) in.	B2 (female JIC Swivel) in.	CHEX mm	L mm	T mm
HA1205-04-04	1/4	7/16-20	7/16-20	12.70	29.97	5.59
HA1205-04-06	1/4 3/8	7/16-20	9/16-18	15.88	32.00	6.35
HA1205-06-06	3/8	9/16-18	9/16-18	15.88	32.26	6.35
HA1205-06-08	3/8 1/2	9/16-18	3/4-16	20.62	33.52	6.35
HA1205-08-06	1/2 3/8	3/4-16	9/16-18	20.62	34.80	6.35
HA1205-08-08	1/2	3/4-16	3/4-16	20.62	35.81	6.35
HA1205-08-10	1/2 5/8	3/4-16	7/8-14	22.22	36.83	6.35
HA1205-08-12	1/2 3/4	3/4-16	1 1/16-12	28.58	41.41	10.16
HA1205-10-10	5/8	7/8-14	7/8-14	25.40	42.42	10.16
HA1205-10-12	5/8 3/4	7/8-14	1 1/16-12	28.58	43.18	10.16
HA1205-12-08	3/4 1/2	1 1/16-12	3/4-16	28.58	19.05	9.65
HA1205-12-12	3/4	1 1/16-12	1 1/16-12	28.58	44.70	9.65
HA1205-12-16	3/4 1	1 1/16-12	1 5/16-12	34.93	47.75	9.65
HA1205-16-12	1 3/4	1 5/16-12	1 1/16-12	34.93	47.50	9.65
HA1205-16-16	1	1 5/16-12	1 5/16-12	34.93	48.26	10.67
HA1205-20-20	1 -1/4	1 5/8-12	1 5/8-12	42.85	52.58	12.70

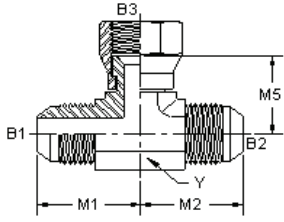
HA1220 Tee Union JIC-JIC Male TE Mâle JIC - JIC Mâle



Code	TUBE OD in.	B1 (male JIC) in.	B2 (male JIC) in.	B3 (male JIC) in.	M1 mm	M2 mm	M3 mm	Y FLATS mm
HA1220-02-02-02	1/8	5/16-24	5/16-24	5/16-24	19.56	19.56	19.56	11.13
HA1220-03-03-03	3/16	3/8-24	3/8-24	3/8-24	21.08	21.08	21.08	11.13
HA1220-04-04-04	1/4	7/16-20	7/16-20	7/16-20	22.61	22.61	22.61	11.13
HA1220-04-04-06	1/4 1/4 3/8	7/16-20	7/16-20	9/16-18	26.67	26.67	26.92	14.27
HA1220-05-05-04	5/16 5/16 1/4	1/2-20	1/2-20	7/16-20	24.13	24.13	22.61	14.27
HA1220-05-05-05	5/16	1/2-20	1/2-20	1/2-20	24.13	24.13	24.13	14.27
HA1220-06-06-04	3/8 3/8 1/4	9/16-18	9/16-18	7/16-20	26.92	26.92	26.67	14.27
HA1220-06-06-06	3/8	9/16-18	9/16-18	9/16-18	26.92	26.92	26.92	14.27
HA1220-06-06-08	3/8 3/8 1/2	9/16-18	9/16-18	3/4-16	28.96	28.96	31.75	19.05
HA1220-08-06-06	1/2 3/8 3/8	3/4-16	9/16-18	9/16-18	31.75	31.75	28.96	19.05
HA1220-08-08-06	1/2 1/2 3/8	3/4-16	3/4-16	9/16-18	31.75	31.75	28.96	19.05
HA1220-08-08-08	1/2	3/4-16	3/4-16	3/4-16	31.75	31.75	31.75	19.05
HA1220-08-08-10	1/2 1/2 5/8	3/4-16	3/4-16	7/8-14	33.78	33.78	36.83	22.23
HA1220-08-08-12	1/2 1/2 3/4	3/4-16	3/4-16	1 1/16-12	36.07	36.07	42.16	22.23
HA1220-10-08-08	5/8 1/2 1/2	7/8-14	3/4-16	3/4-16	36.83	36.83	33.78	22.23
HA1220-10-10-08	5/8 5/8 1/2	7/8-14	7/8-14	3/4-16	36.83	36.83	33.78	22.23
HA1220-10-10-10	5/8	7/8-14	7/8-14	7/8-14	36.83	36.83	36.83	22.23
HA1220-10-10-12	5/8 5/8 3/4	7/8-14	7/8-14	1 1/16-12	39.12	39.12	42.16	26.97
HA1220-12-10-10	3/4 5/8 5/8	1-1/16-12	7/8-14	7/8-14	42.16	42.16	39.12	26.97
HA1220-12-12-06	3/4 3/4 3/8	1 1/16-12	1 1/16-12	9/16-18	42.16	42.16	34.29	26.97
HA1220-12-12-08	3/4 3/4 1/2	1 1/16-12	1 1/16-12	3/4-16	42.16	42.16	36.07	26.97
HA1220-12-12-10	3/4 3/4 5/8	1 1/16-12	1 1/16-12	7/8-14	39.12	42.16	39.12	26.97
HA1220-12-12-12	3/4	1 1/16-12	1 1/16-12	1 1/16-12	42.16	42.16	42.16	26.97
HA1220-12-12-16	3/4 3/4 1	1 1/16-12	1 1/16-12	1 5/16-12	45.97	44.70	45.97	33.32
HA1220-12-12-20	3/4 3/4-1-1/4	1 1/16-12	1 1/16-12	1 5/8-12	52.32	50.04	52.32	41.28
HA1220-14-14-14	7/8	1 3/16-12	1 3/16-12	1 3/16-12	45.72	45.72	45.72	33.32
HA1220-16-12-12	1 3/4 3/4	1 5/16-12	1 1/16-12	1 1/16-12	44.70	45.97	44.70	33.32
HA1220-16-12-16	1 3/4 1	1 5/16-12	1 1/16-12	1 5/16-12	45.97	45.97	45.97	33.32
HA1220-16-12-20	1 3/4 1-1/4	1 5/16-12	1 1/16-12	1 5/8-12	52.32	51.05	52.32	41.28
HA1220-16-16-12	1 1 3/4	1 5/16-12	1 5/16-12	1 1/16-12	44.70	45.97	44.70	33.32
HA1220-16-16-16	1	1 5/16-12	1 5/16-12	1 5/16-12	45.97	45.97	45.97	33.32
HA1220-16-16-20	1 1 1-1/4	1 5/16-12	1 5/16-12	1 5/8-12	52.32	51.05	52.32	41.28
HA1220-20-16-16	1-1/4 1 1	1 5/8-12	1 5/16-12	1 5/16-12	51.05	52.32	51.05	41.28
HA1220-20-20-16	1-1/4 1-1/4 1	1 5/8-12	1-5/8-12	1 5/16-12	51.05	52.32	51.05	41.28
HA1220-20-20-20	1-1/4	1 5/8-12	1 5/8-12	1 5/8-12	52.32	52.32	52.32	41.28
HA1220-24-24-24	1-1/2	1 7/8-12	1 7/8-12	1 7/8-12	59.18	59.18	59.18	47.63
HA1220-32-32-32	2	2 1/2-12	2 1/2-12	2 1/2-12	77.72	77.72	77.72	63.50

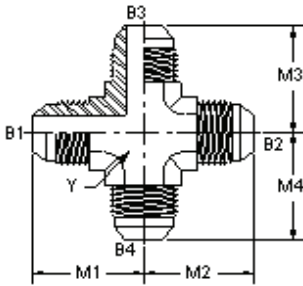
TUYAUX Hydraulique
TUYAUX PTFE
RACCORDS Standard
RACCORDS Interlock
RACCORDS Afacrimp
Accessoires
RACCORDS en Acier Inoxydable
ADAPTATEURS Standard
ADAPTATEURS ORFS
ADAPTATEURS MÉTRIQUE-BSP
SERTISSEUSES

HA1227 Branch Tee Union JIC Male-JIC Female TE Mâle JIC - Femelle tournant JIC



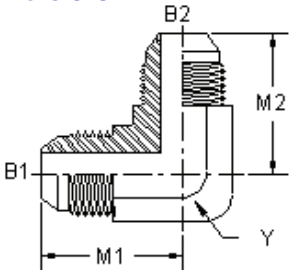
Code	TUBE OD in.	B1 (male JIC) in.	B2 (male JIC) in.	B3 (female JIC swivel) in.	Y FLATS mm	M1 mm	M2 mm	M5 mm
HA1227-02-02-02	1/8	5/16-24	5/16-24	5/16-24	11.13	19.56	19.56	16.71
HA1227-03-03-03	3/16	3/8-24	3/8-24	3/8-24	11.13	21.08	21.08	17.02
HA1227-04-04-04	1/4	7/16-20	7/16-20	7/16-20	11.13	22.61	22.61	16.66
HA1227-05-05-05	5/16	1/2-20	1/2-20	1/2-20	14.27	24.13	24.13	17.40
HA1227-06-06-06	3/8	9/16-18	9/16-18	9/16-18	14.27	26.92	26.92	22.23
HA1227-06-06-08	3/8 3/8 1/2	9/16-18	9/16-18	3/4-16	19.05	28.96	28.96	24.33
HA1227-08-06-08	1/2 3/8 1/2	3/4-16	9/16-18	3/4-16	19.05	31.75	28.96	24.33
HA1227-08-08-08	1/2	3/4-16	3/4-16	3/4-16	19.05	31.75	31.75	24.33
HA1227-10-10-10	5/8	7/8-14	7/8-14	7/8-14	22.23	36.83	36.83	28.45
HA1227-12-12-12	3/4	1 1/16-12	1 1/16-12	1 1/16-12	26.97	42.16	42.16	30.18
HA1227-14-14-14	7/8	1 3/16-12	1 3/16-12	1 3/16-12	33.32	45.72	45.72	33.30
HA1227-16-16-16	1	1 5/16-12	1 5/16-12	1 5/16-12	33.32	45.97	45.97	35.71
HA1227-20-20-20	1-1/4	1 5/8-12	1 5/8-12	1 5/8-12	41.28	52.32	52.32	42.80
HA1227-24-24-24	1-1/2	1 7/8-12	1 7/8-12	1 7/8-12	47.63	59.18	59.18	47.14
HA1227-32-32-32	2	2 1/2-12	2 1/2-12	2 1/2-12	66.68	77.72	77.72	61.98

HA1229 Cross Union JIC - JIC Male CROIX Mâle JIC - JIC Mâle



Code	TUBE OD in.	B1 (male JIC) in.	B2 (male JIC) in.	B3 (male JIC) in.	B3 (male JIC) in.	B4 (male JIC) in.	M1 mm	M2 mm	M3 mm	M4 mm	Y FLATS mm
HA1229-02-02-02	1/8	5/16-24	5/16-24	5/16-24	5/16-24	5/16-24	19.56	19.56	19.56	19.56	11.13
HA1229-03-03-03	3/16	3/8-24	3/8-24	3/8-24	3/8-24	3/8-24	21.08	21.08	21.08	21.08	11.13
HA1229-04-04-04	1/4	7/16-20	7/16-20	7/16-20	7/16-20	7/16-20	22.61	22.61	22.61	22.61	11.13
HA1229-05-05-05	5/16	1/2-20	1/2-20	1/2-20	1/2-20	1/2-20	24.13	24.13	24.13	24.13	14.27
HA1229-06-06-06	3/8	9/16-18	9/16-18	9/16-18	9/16-18	9/16-18	26.92	26.92	26.92	26.92	14.27
HA1229-08-08-08	1/2	3/4-16	3/4-16	3/4-16	3/4-16	3/4-16	31.75	31.75	31.75	31.75	19.05
HA1229-10-10-10	5/8	7/8-14	7/8-14	7/8-14	7/8-14	7/8-14	36.83	36.83	36.83	36.83	22.23
HA1229-12-12-12	3/4	1 1/16-12	1 1/16-12	1 1/16-12	1 1/16-12	1 1/16-12	42.16	42.16	42.16	42.16	26.92
HA1229-14-14-14	7/8	1 3/16-12	1 3/16-12	1 3/16-12	1 3/16-12	1 3/16-12	45.72	45.72	45.72	45.72	33.32
HA1229-16-16-16	1	1 5/16-12	1 5/16-12	1 5/16-12	1 5/16-12	1 5/16-12	45.97	45.97	45.97	45.97	33.32
HA1229-20-20-20	1 1/4	1 5/8-12	1 5/8-12	1 5/8-12	1 5/8-12	1 5/8-12	52.32	52.32	52.32	52.32	41.28
HA1229-24-24-24	1 1/2	1 7/8-12	1 7/8-12	1 7/8-12	1 7/8-12	1 7/8-12	59.18	59.18	59.18	59.18	47.63
HA1229-32-32-32	2	2 1/2-12	2 1/2-12	2 1/2-12	2 1/2-12	2 1/2-12	77.72	77.72	77.72	77.72	63.50

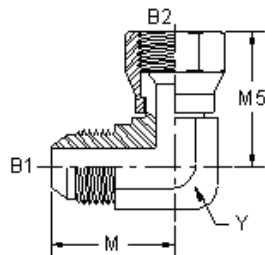
HA1234 90° Union JIC-JIC Male Coude 90° Mâle JIC - Mâle JIC



Code	TUBE OD in.	B1 (male JIC) in.	B2 (male JIC) in.	M1 mm	M2 mm	Y FLATS mm
HA1234-02-02	1/8	5/16-24	5/16-24	19.56	19.56	11.13
HA1234-03-03	3/16	3/8-24	3/8-24	21.08	21.08	11.13
HA1234-04-04	1/4	7/16-20	7/16-20	22.61	22.61	11.13
HA1234-05-04	5/16 1/4	1/2-20	7/16-20	24.13	24.13	14.27
HA1234-05-05	5/16	1/2-20	1/2-20	24.13	24.13	14.27
HA1234-06-04	3/8 1/4	9/16-18	7/16-20	26.92	26.67	14.27
HA1234-06-05	3/8 5/16	9/16-18	1/2-20	26.92	26.67	14.27
HA1234-06-06	3/8	9/16-18	9/16-18	26.92	26.92	14.27
HA1234-08-06	1/2 3/8	3/4-16	9/16-18	31.75	29.21	19.05
HA1234-08-08	1/2	3/4-16	3/4-16	31.75	31.75	19.05
HA1234-10-08	5/8 1/2	7/8-14	3/4-16	36.83	33.78	22.23
HA1234-10-10	5/8	7/8-14	7/8-14	36.83	36.83	22.23
HA1234-12-08	3/4 1/2	1 1/16-12	3/4-16	42.16	36.07	26.97
HA1234-12-10	3/4	1 1/16-12	7/8-14	42.16	39.12	26.97
HA1234-12-12	3/4	1 1/16-12	1 1/16-12	42.16	42.16	26.97
HA1234-14-14	7/8	1 3/16-12	1 3/16-12	45.72	45.72	33.32
HA1234-16-12	1 3/4	1 5/16-12	1 1/16-12	45.97	44.70	33.32
HA1234-16-16	1	1 5/16-12	1 5/16-12	45.97	45.97	33.32
HA1234-20-20	1-1/4	1 5/8-12	1 5/8-12	52.32	52.32	41.28
HA1234-24-24	1-1/2	1 7/8-12	1 7/8-12	59.18	59.18	47.63
HA1234-32-32	2	2 1/2-12	2 1/2-12	77.72	77.72	63.50

HA1236

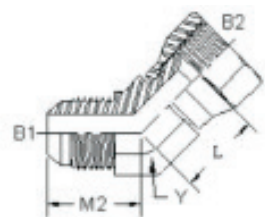
90° Union JIC Male-JIC Female
Coude 90° Mâle JIC - Femelle
tournant JIC



Code	TUBE OD in.	B1 (male JIC) in.	B2 (female JIC swivel) in.	Y FLATS mm	M mm	M5 mm
HA1236-02-02	1/8	5/16-24	5/16-24	11.13	19.56	24.64
HA1236-03-03	3/16	3/8-24	3/8-24	11.13	21.08	25.40
HA1236-04-04	1/4	7/16-20	7/16-20	11.13	22.61	25.40
HA1236-04-06	1/4 3/8	7/16-20	9/16-18	14.27	26.67	31.75
HA1236-05-05	5/16	1/2-20	1/2-20	14.27	24.13	26.92
HA1236-05-06	5/16	1/2-20	9/16-18	14.27	26.67	31.75
HA1236-06-04	3/8 1/4	9/16-18	7/16-20	14.27	26.92	31.50
HA1236-06-06	3/8	9/16-18	9/16-18	14.27	26.92	31.75
HA1236-06-08	3/8 1/2	9/16-18	3/4-16	19.05	28.96	35.05
HA1236-08-06	1/2 3/8	3/4-16	9/16-18	19.05	31.75	32.26
HA1236-08-08	1/2	3/4-16	3/4-16	19.05	31.75	35.05
HA1236-08-10	1/2 5/8	3/4-16	7/8-14	22.23	33.78	41.15
HA1236-08-12	1/2 3/4	3/4-16	1 1/16-12	26.97	36.07	44.45
HA1236-10-08	5/8 1/2	7/8-14	3/4-16	22.23	36.83	38.10
HA1236-10-10	5/8	7/8-14	7/8-14	22.23	36.83	41.15
HA1236-10-12	5/8 3/4	7/8-14	1 1/16-12	26.97	41.40	42.16
HA1236-12-08	3/4 1/2	1 1/16-12	3/4-16	26.97	42.16	38.35
HA1236-12-10	3/4 5/8	1 1/16-12	7/8-14	26.97	42.16	41.40
HA1236-12-12	3/4	1 1/16-12	1 1/16-12	26.97	42.16	44.45
HA1236-12-16	3/4 1	1 1/16-12	1 5/16-12	33.32	44.70	50.80
HA1236-14-14	7/8	1 3/16-12	1 3/16-12	33.32	45.72	45.21
HA1236-16-12	1 3/4	1 5/16-12	1 1/16-12	33.32	45.97	49.53
HA1236-16-16	1	1 5/16-12	1 5/16-12	33.32	45.97	50.80
HA1236-20-20	1-1/4	1 5/8-12	1 5/8-12	41.28	52.32	58.67
HA1236-24-24	1-1/2	1 7/8-12	1 7/8-12	47.63	59.18	65.79
HA1236-32-32	2	2 1/2-12	2 1/2-12	63.50	77.72	85.85

HA1237

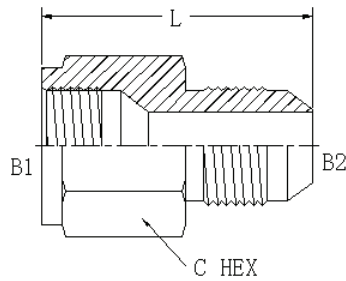
45° Union JIC Male-JIC Female
Coude 45° Mâle JIC - Femelle
tournant JIC



Code	TUBE OD in.	B1 (female JIC) in.	B2 (male JIC swivel) in.	Y FLATS mm	M2 mm	L mm
HA1237-02-02	1/8	5/16-24	5/16-24	11.13	17.53	15.95
HA1237-04-04	1/4	7/16-20	7/16-20	11.13	18.29	15.14
HA1237-05-05	5/16	1/2-20	1/2-20	14.27	19.56	15.88
HA1237-06-06	3/8	9/16-18	9/16-18	14.27	21.08	18.92
HA1237-08-08	1/2	3/4-16	3/4-16	19.05	24.89	21.79
HA1237-10-08	5/8 1/2	7/8-14	3/4-16	22.23	28.19	22.81
HA1237-10-10	5/8	7/8-14	7/8-14	22.23	28.19	23.88
HA1237-12-12	3/4	1 1/16-12	1 1/16-12	26.97	32.51	23.83
HA1237-14-14	7/8	1 3/16-12	1 3/16-12	33.32	36.83	26.47
HA1237-16-16	1	1 5/16-12	1 5/16-12	33.32	37.34	29.36
HA1237-20-20	1- 1/4	1 5/8-12	1 5/8-12	41.28	40.39	35.69
HA1237-24-24	1- 1/2	1 7/8-12	1 7/8-12	47.63	45.21	38.51
HA1237-32-32	2	2 1/2-12	2 1/2-12	63.50	56.39	50.09

HA1246

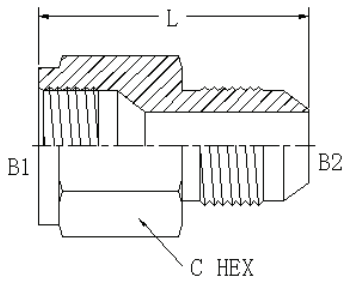
**Straight Reducing
JIC swivel Female-JIC Male
Adapteur Femelle tournant
JIC - Mâle JIC**



Code	TUBE OD in.	B1 (female JIC) in.	B2 (male JIC) in.	C HEX mm	L mm
HA1246-04-03	1/4 3/16	7/16-20	3/8-24	0.562	1.049
HA1246-04-06	1/4 3/8	7/16-20	9/16-18	0.625	1.007
HA1246-05-04	5/16 1/4	1/2-20	7/16-20	0.625	1.159
HA1246-05-08	5/16 1/2	1/2-20	3/4-16	0.812	1.266
HA1246-06-02	3/8 1/8	9/16-18	5/16-24	0.687	1.073
HA1246-06-03	3/8 3/16	9/16-18	3/8-24	0.687	1.104
HA1246-06-04	3/8 1/4	9/16-18	7/16-20	0.687	1.187
HA1246-06-05	3/8 5/16	9/16-18	1/2-20	0.687	1.181
HA1246-06-06	3/8 3/8	9/16-18	9/16-18	0.687	1.185
HA1246-06-08	3/8 1/2	9/16-18	3/4-16	0.812	1.282
HA1246-08-04	1/2 1/4	3/4-16	7/16-20	0.875	1.328
HA1246-08-05	1/2 5/16	3/4-16	1/2-20	0.875	1.310
HA1246-08-06	1/2 3/8	3/4-16	9/16-18	0.875	1.328
HA1246-08-10	1/2 5/8	3/4-16	7/8-14	0.937	1.288
HA1246-08-12	1/2 3/4	3/4-16	1 1/16-12	1.125	1.620
HA1246-10-04	5/8 1/4	7/8-14	7/16-20	1.000	1.468
HA1246-10-06	5/8 3/8	7/8-14	9/16-18	1.000	1.406
HA1246-10-08	5/8 1/2	7/8-14	3/4-16	1.000	1.406
HA1246-10-12	5/8 3/4	7/8-14	1 1/16-12	1.125	1.740
HA1246-10-16	5/8 1	7/8-14	1 5/16-12	1.375	1.220
HA1246-12-04	3/4 1/4	1 1/16-12	7/16-20	1.250	1.499
HA1246-12-06	3/4 3/8	1 1/16-12	9/16-18	1.250	1.460
HA1246-12-08	3/4 1/2	1 1/16-12	3/4-16	1.250	1.563
HA1246-12-10	3/4 5/8	1 1/16-12	7/8-14	1.250	1.638
HA1246-12-12	3/4	1 1/16-12	1 1/16-12	1.250	1.740
HA1246-12-16	3/4 1	1 1/16-12	1 5/16-12	1.375	1.608
HA1246-14-06	7/8 3/8	1 3/16-12	9/16-18	1.375	1.682
HA1246-14-08	7/8 1/2	1 3/16-12	3/4-16	1.375	1.760
HA1246-14-10	7/8 5/8	1 3/16-12	7/8-14	1.375	1.730
HA1246-14-12	7/8 3/4	1 3/16-12	1 1/16-12	1.375	1.796
HA1246-14-16	7/8 1	1 3/16-12	1 5/16-12	1.375	1.986
HA1246-16-04	1 1/4	1 5/16-12	7/16-20	1.500	1.670
HA1246-16-06	1 3/8	1 5/16-12	9/16-18	1.500	1.673
HA1246-16-08	1 1/2	1 5/16-12	3/4-16	1.500	1.719
HA1246-16-10	1 5/8	1 5/16-12	7/8-14	1.500	1.821
HA1246-16-12	1 3/4	1 5/16-12	1 1/16-12	1.500	1.823
HA1246-16-14	1 7/8	1 5/16-12	1 3/16-12	1.500	1.830
HA1246-16-20	1 1-1/4	1 5/16-12	1 5/8-12	1.688	2.300
HA1246-20-06	1-1/4 3/8	1 5/8-12	9/16-18	2.000	1.743
HA1246-20-08	1-1/4 1/2	1 5/8-12	3/4-16	2.000	1.844
HA1246-20-10	1-1/4 5/8	1 5/8-12	7/8-14	2.000	1.914
HA1246-20-12	1-1/4 3/4	1 5/8-12	1 1/16-12	2.000	2.000
HA1246-20-14	1-1/4 7/8	1 5/8-12	1 3/16-12	2.000	2.031
HA1246-20-16	1-1/4 1	1 5/8-12	1 5/16-12	2.000	2.005
HA1246-20-24	1-1/4- 1/2	1 5/8-12	1 7/8-12	2.000	2.145
HA1246-24-08	1-1/2 1/2	1 7/8-12	3/4-16	2.250	2.249
HA1246-24-10	1-1/2 5/8	1 7/8-12	7/8-14	2.250	2.350
HA1246-24-12	1-1/2 3/4	1 7/8-12	1 1/16-12	2.250	2.456
HA1246-24-14	1-1/2 7/8	1 7/8-12	1 3/16-12	2.250	2.480
HA1246-24-16	1-1/2 1	1 7/8-12	1 5/16-12	2.250	2.503
HA1246-24-20	1-1/2 1-1/4	1 7/8-12	1 5/8-12	2.250	2.650
HA1246-24-32	1-1/2 2	1 7/8-12	2 1/2-12	2.625	2.395
HA1246-32-20	2 1-1/4	2 1/2-12	1 5/8-12	2.875	2.774
HA1246-32-24	2 1-1/2	2 1/2-12	1 7/8-12	2.875	2.614

HA1246R

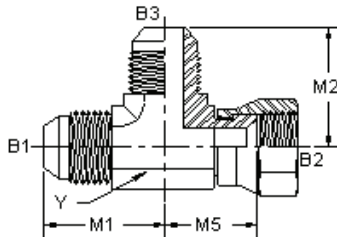
**Straight Reducing Restrictor
JIC swivel Female-JIC Male
Adaptateur Femelle tournant
JIC - Mâle JIC Restricteur**



Code	TUBE OD in.	B1 (female JIC) in.	B2 (male JIC) in.	B3 (ORIFICE) mm	C HEX mm	L mm
HA1246R-04-04-.000	1/4	7/16-20	7/16-20	BLANK	14.3	29.2
HA1246R-04-04-.015	1/4	7/16-20	7/16-20	0.381	14.3	29.2
HA1246R-04-04-.022	1/4	7/16-20	7/16-20	0.550	14.3	29.2
HA1246R-04-04-.031	1/4	7/16-20	7/16-20	0.780	14.3	29.2
HA1246R-04-04-.043	1/4	7/16-20	7/16-20	1.090	14.3	29.2
HA1246R-04-04-.062	1/4	7/16-20	7/16-20	1.600	14.3	29.2
HA1246R-06-06-.000	3/8	9/16-18	9/16-18	BLANK	17.48	30.23
HA1246R-06-06-.031	3/8	9/16-18	9/16-18	0.780	17.48	30.23
HA1246R-06-06-.062	3/8	9/16-18	9/16-18	1.600	17.48	30.23
HA1246R-08-08-.000	1/2	3/4-16	3/4-16	BLANK	22.22	40.13
HA1246R-08-08-.062	1/2	3/4-16	3/4-16	1.600	22.22	40.13

HA1248

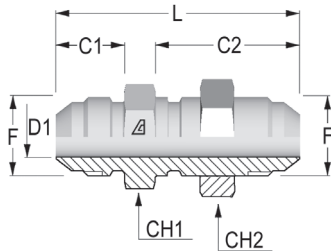
**Run Tee Union
JIC Male-JIC Female
TE reverse Mâle JIC -
Femelle tournant JIC**



Code	TUBE OD in.	B1 (male JIC) in.	B2 (female JIC swivel) in.	B3 (male JIC) in.	Y FLATS mm	M1 mm	M2 mm	M5 mm
HA1248-03-03-03	3/16	3/8-24	3/8-24	3/8-24	11.13	21.08	21.08	16.66
HA1248-04-04-04	1/4	7/16-20	7/16-20	7/16-20	11.13	22.61	22.61	16.66
HA1248-04-08-08	1/4 1/2 1/2	7/16-20	3/4-16	3/4-16	19.05	28.45	31.75	24.33
HA1248-05-05-04	5/16 5/16 1/4	1/2-20	1/2-20	7/16-20	14.27	23.11	24.13	16.66
HA1248-05-05-05	5/16	1/2-20	1/2-20	1/2-20	14.27	24.13	24.13	17.40
HA1248-06-06-04	3/8 3/8 1/4	9/16-18	9/16-18	7/16-20	14.27	26.92	26.67	22.23
HA1248-06-06-06	3/8	9/16-18	9/16-18	9/16-18	14.27	26.92	26.92	22.23
HA1248-06-08-06	3/8 1/2 3/8	9/16-18	3/4-16	9/16-18	19.05	28.96	28.96	24.33
HA1248-06-08-08	3/8 1/2 1/2	9/16-18	3/4-16	3/4-16	19.05	28.96	31.75	24.33
HA1248-08-06-08	1/2 3/8 1/2	3/4-16	9/16-18	3/4-16	19.05	31.75	31.75	23.24
HA1248-08-08-06	1/2 1/2 3/8	3/4-16	3/4-16	9/16-18	19.05	31.75	28.96	24.33
HA1248-08-08-08	1/2	3/4-16	3/4-16	3/4-16	19.05	31.75	31.75	24.33
HA1248-10-10-10	5/8	7/8-14	7/8-14	7/8-14	22.23	36.83	36.83	28.45
HA1248-10-10-12	5/8 5/8 3/4	7/8-14	7/8-14	1 1/16-12	26.97	39.12	42.16	29.21
HA1248-12-12-08	3/4 3/4 1/2	1 1/16-12	1 1/16-12	3/4-16	26.97	42.16	36.07	30.23
HA1248-12-12-12	3/4	1 1/16-12	1 1/16-12	1 1/16-12	42.16	42.16	42.16	30.20
HA1248-14-14-14	7/8	1 3/16-12	1 3/16-12	1 3/16-12	45.72	45.72	45.72	33.30
HA1248-16-16-16	1	1 5/16-12	1 5/16-12	1 5/16-12	45.97	45.97	45.97	35.71
HA1248-20-20-20	1-1/4	1 5/8-12	1 5/8-12	1 5/8-12	52.32	52.32	52.32	42.80
HA1248-24-24-24	1-1/2	1 7/8-12	1 7/8-12	1 7/8-12	59.18	59.18	59.18	47.14
HA1248-32-32-32	2	2 1/2-12	2 1/2-12	2 1/2-12	77.72	77.72	77.72	61.98

HA1260LN

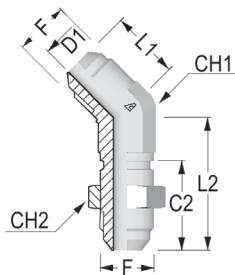
Straight Union
JIC-JIC Bulkhead
Adaptateur Mâle JIC -
Mâle JIC TC



Code	OD in	F	L mm	C1 mm	C2 mm	CH1 mm	CH2 mm
HA1260LN-0404	1/4"	7/16"-20	52,5	14	30,5	17	17
HA1260LN-0505	5/16"	1/2"-20	52,5	14	30,5	19	19
HA1260LN-0606	3/8"	9/16"-18	55,5	14	32,5	22	22
HA1260LN-0808	1/2"	3/4"-16	62	16,5	36,6	24	24
HA1260LN-1010	5/8"	7/8"-14	69,5	19,5	40,1	30	30
HA1260LN-1212	3/4"	1"1/16-12	78,5	22	44,4	36	36
HA1260LN-1414	7/8"	1"3/16-12	79,2	22,5	44,4	38	38
HA1260LN-1616	1"	1"5/16-12	80	23	44,4	41	41
HA1260LN-2020	1" 1/4	1"5/8-12	84	24,5	45,7	50	50
HA1260LN-2424	1" 1/2	1"7/8-12	89,5	27,5	46	55	55

HA1261LN

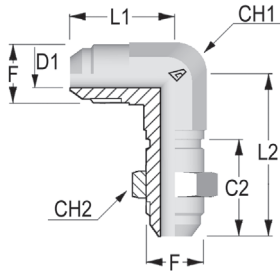
45° Union JIC-JIC Bulkhead
Coude 45° Mâle JIC - Mâle JIC
TC



Code	OD in	F	L1 mm	L2 mm	C2 mm	CH1 mm	CH2 mm
HA1261LN-0404	1/4"	7/16"-20	18,5	39	30,5	12	17
HA1261LN-0505	5/16"	1/2"-20	19,5	42	30,5	14	19
HA1261LN-0606	3/8"	9/16"-18	21	42,5	32,5	14	22
HA1261LN-0808	1/2"	3/4"-16	25	49,5	36,6	19	24
HA1261LN-1010	5/8"	7/8"-14	28	55	40,1	22	30
HA1261LN-1212	3/4"	1"1/16-12	32,5	62	44,4	27	36
HA1261LN-1414	7/8"	1"3/16-12	35	63,5	44,4	33	38
HA1261LN-1616	1"	1"5/16-12	37,5	65	44,4	33	41
HA1261LN-2020	1" 1/4	1"5/8-12	40,5	67,5	45,7	41	50
HA1261LN-2424	1" 1/2	1"7/8-12	45	68	46	48	55

HA1262LN

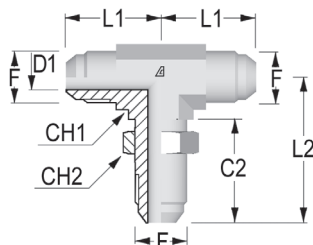
90° Union JIC-JIC Bulkhead
Coude 90° Mâle JIC - Mâle JIC
TC



Code	OD in	F	L1 mm	L2 mm	C2 mm	CH1 mm	CH2 mm
HA1262LN-0404	1/4"	7/16"-20	24,5	40,5	30,5	12	17
HA1262LN-0505	5/16"	1/2"-20	27	43,5	30,5	14	19
HA1262LN-0606	3/8"	9/16"-18	27,5	46	32,5	14	22
HA1262LN-0808	1/2"	3/4"-16	34,5	53,5	36,6	19	24
HA1262LN-1010	5/8"	7/8"-14	39,5	60,5	40,1	22	30
HA1262LN-1212	3/4"	1"1/16-12	45	68	44,4	27	36
HA1262LN-1414	7/8"	1"3/16-12	47	69	44,4	33	38
HA1262LN-1616	1"	1"5/16-12	49,5	71	44,4	33	41
HA1262LN-2020	1" 1/4	1"5/8-12	55	79	45,7	41	50
HA1262LN-2424	1" 1/2	1"7/8-12	59,5	87	46	48	55

HA1283LN

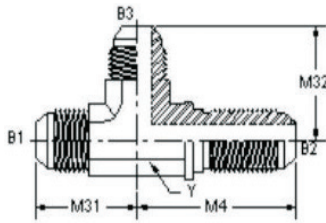
Branch Tee Union
JIC-JIC Bulkhead
TE Mâle JIC - Mâle JIC TC



Code	OD in	F	L1 mm	L2 mm	C2 mm	CH1 mm	CH2 mm
HA1283LN-0404	1/4"	7/16"-20	24,5	40,5	30,5	12	17
HA1283LN-0505	5/16"	1/2"-20	27	43,5	30,5	14	19
HA1283LN-0606	3/8"	9/16"-18	27,5	46	32,5	14	22
HA1283LN-0808	1/2"	3/4"-16	34,5	53,5	36,6	19	24
HA1283LN-1010	5/8"	7/8"-14	39,5	60,5	40,1	22	30
HA1283LN-1212	3/4"	1"1/16-12	45	68	44,4	27	36
HA1283LN-1414	7/8"	1"3/16-12	47	69	44,4	33	38
HA1283LN-1616	1"	1"5/16-12	49,5	71	44,4	33	41
HA1283LN-2020	1" 1/4	1"5/8-12	55	79	45,7	41	50
HA1283LN-2424	1" 1/2	1"7/8-12	59,5	87	46	48	55

HA1284LN

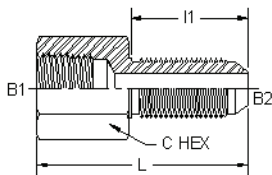
Run Tee Union
JIC-JIC Bulkhead
TE reverse Mâle JIC -
Mâle JIC TC



Code	OD in	F	L1 mm	L2 mm	C2 mm	CH1 mm	CH2 mm
HA1284LN-0404	1/4"	7/16"-20	24,5	40,5	30,5	12	17
HA1284LN-0505	5/16"	1/2"-20	27	43,5	30,5	14	19
HA1284LN-0606	3/8"	9/16"-18	27,5	46	32,5	14	22
HA1284LN-0808	1/2"	3/4"-16	34,5	53,5	36,6	19	24
HA1284LN-1010	5/8"	7/8"-14	39,5	60,5	40,1	22	30
HA1284LN-1212	3/4"	1"1/16-12	45	68	44,4	27	36
HA1284LN-1414	7/8"	1"3/16-12	47	69	44,4	33	38
HA1284LN-1616	1"	1"5/16-12	49,5	71	44,4	33	41
HA1284LN-2020	1" 1/4	1"5/8-12	55	79	45,7	41	50
HA1284LN-2424	1" 1/2	1"7/8-12	59,5	87	46	48	55

HA2705

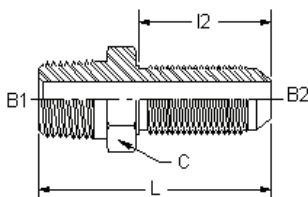
FP-MJ Bulkhead Straight
FP/Mâle JIC TC



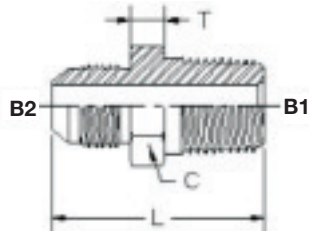
Code	TUBE OD in.	B1 (female NPTF) in.	B2 (Bulkhead male JIC) in.	C HEX mm	I1 mm	L mm
HA2705-02-04	1/8 1/4	1/8-27	7/16-20	14.27	30.48	47.75
HA2705-04-04	1/4	1/4-18	7/16-20	19.05	30.48	52.83
HA2705-04-06	1/4 3/8	1/4-18	9/16-18	19.05	32.51	54.86
HA2705-06-06	3/8	3/8-18	9/16-18	22.23	32.51	56.39
HA2705-06-08	3/8 1/2	3/8-18	3/4-16	22.23	36.58	60.45
HA2705-08-08	1/2	1/2-14	3/4-16	28.58	36.58	66.29
HA2705-08-10	1/2 5/8	1/2-14	7/8-14	28.58	40.13	72.14
HA2705-12-12	3/4	3/4-14	1 1/16-12	34.93	44.45	75.95
HA2705-12-14	3/4 7/8	3/4-14	1 3/16-12	38.10	44.45	73.41
HA2705-16-16	1	1-11-1/2	1 5/16-12	41.28	44.45	82.55
HA2705-20-20	1-1/4	1 1/4-11-1/2	1 5/8-12	50.80	45.72	79.45
HA2705-24-24	1-1/2	1 1/2-11-1/2	1 7/8-12	60.33	45.97	84.33

HA2706

MP-MJ Bulkhead Straight
MP-MJ droit TC



Code	TUBE OD in.	B1 (male NPTF) in.	B2 (Bulkhead male JIC) in.	C HEX mm	I2 mm	L mm
HA2706-02-04	1/8 1/4	1/8-27	7/16-20	17.48	30.48	47.75
HA2706-04-04	1/4	1/4-18	7/16-20	17.48	30.48	51.56
HA2706-04-06	1/4 3/8	1/4-18	9/16-18	20.65	32.51	55.37
HA2706-06-06	3/8	3/8-18	9/16-18	20.65	32.51	55.63
HA2706-06-08	3/8 1/2	3/8-18	3/4-16	25.40	36.58	59.94
HA2706-08-08	1/2	1/2-14	3/4-16	25.40	36.58	64.26
HA2706-08-10	1/2 5/8	1/2-14	7/8-14	28.58	40.13	69.09
HA2706-08-12	1/2 3/4	1/2-14	1 1/16-12	34.93	44.45	74.17
HA2706-12-12	3/4	3/4-14	1 1/16-12	34.93	44.45	74.93
HA2706-16-16	1	1-11-1/2	1 5/16-12	41.28	44.45	80.52
HA2706-20-20	1-1/4	1 1/4-11-1/2	1 5/8-12	47.63	45.72	82.04
HA2706-24-24	1-1/2	1 1/2-11-1/2	1 7/8-12	53.98	45.97	87.63
HA2706-32-32	2	2-11-1/2	2 1/2-12	69.85	53.09	98.81

HA1202**Straight MP + MJ
Adapteur MP/MJ**

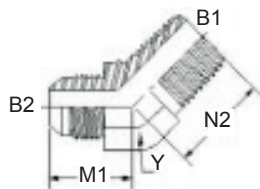
Code	B2 (male JIC) in.	B1 (male NPTF) in.	T mm	L mm	C HEX mm
HA1202-02-02	5/16-24	1/8-27	5.59	28.19	11.13
HA1202-02-03	3/8-24	1/8-27	5.59	28.96	11.13
HA1202-02-04	7/16-20	1/8-27	5.59	30.99	12.17
HA1202-02-05	1/2-20	1/8-27	5.59	30.99	14.27
HA1202-02-06	9/16-18	1/8-27	6.35	31.50	15.88
HA1202-02-08	3/4-16	1/8-27	6.35	34.04	20.65
HA1202-04-02	5/16-24	1/4-18	5.59	28.45	12.17
HA1202-04-04	7/16-20	1/4-18	6.35	36.07	14.27
HA1202-04-05	1/2-20	1/4-18	6.35	36.07	14.27
HA1202-04-06	9/16-18	1/4-18	6.35	36.32	15.88
HA1202-04-08	3/4-16	1/4-18	6.35	38.86	20.65
HA1202-04-10	7/8-14	1/4-18	7.87	42.93	23.83
HA1202-04-12	1 1/16-12	1/4-18	9.65	46.23	28.58
HA1202-06-04	7/16-20	3/8-18	6.35	36.07	19.05
HA1202-06-05	1/2-20	3/8-18	6.35	36.07	19.05
HA1202-06-06	9/16-18	3/8-18	6.35	36.32	19.05
HA1202-06-08	3/4-16	3/8-18	6.35	38.86	20.65
HA1202-06-10	7/8-14	3/8-18	7.87	43.18	23.83
HA1202-06-12	1 1/16-12	3/8-18	9.65	47.50	28.58
HA1202-06-16	1 5/16-12	1 1/4-11-1/2	9.65	48.77	34.93
HA1202-08-04	7/16-20	1/2-14	7.87	42.67	22.22
HA1202-08-05	1/2-20	1/2-14	6.35	42.67	22.22
HA1202-08-06	9/16-18	1/2-14	7.87	42.93	22.22
HA1202-08-08	3/4-16	1/2-14	7.87	45.47	22.22
HA1202-08-10	7/8-14	1/2-14	7.87	48.01	23.83
HA1202-08-12	1 1/16-12	1/2-14	9.65	52.32	28.58
HA1202-08-14	1 3/16-12	1/2-14	9.65	53.09	31.75
HA1202-08-16	1 5/16-12	1 1/2-11-1/2	9.65	53.59	34.93
HA1202-12-04	7/16-20	3/4-14	9.65	44.45	28.58
HA1202-12-06	9/16-18	3/4-14	9.65	44.45	28.58
HA1202-12-08	3/4-16	3/4-14	9.65	46.99	28.58
HA1202-12-10	7/8-14	3/4-14	9.65	49.53	28.58
HA1202-12-12	1 1/16-12	3/4-14	9.65	52.32	28.58
HA1202-12-14	1 3/16-12	3/4-14	9.65	53.16	31.75
HA1202-12-16	1 5/16-12	3/4-14	9.65	53.59	34.93
HA1202-12-20	1 5/8-12	3/4-14	11.68	55.88	42.88
HA1202-16-06	9/16-18	1-11-1/2	9.65	49.28	34.93
HA1202-16-08	3/4-16	1-11-1/2	9.65	52.07	34.93
HA1202-16-10	7/8-14	1-11-1/2	9.65	54.61	34.93
HA1202-16-12	1 1/16-12	1-11-1/2	9.65	57.15	34.93
HA1202-16-14	1 3/16-12	1-11-1/2	9.65	57.79	34.93
HA1202-16-16	1 5/16-12	1-11-1/2	9.65	58.42	34.93
HA1202-16-20	1 5/8-12	1-11-1/2	11.68	61.47	42.88
HA1202-16-24	1 7/8-12	1-11-1/2	13.46	66.55	50.80
HA1202-16-32	2 1/2-12	1-11-1/2	17.27	76.71	66.68
HA1202-20-12	1 1/16-12	1 1/4-11-1/2	11.68	59.94	42.87
HA1202-20-16	1 5/16-12	1 1/4-11-1/2	11.68	60.96	42.88
HA1202-20-20	1 5/8-12	1 1/4-11-1/2	11.68	62.23	42.88
HA1202-20-24	1 7/8-12	1 1/4-11-1/2	13.46	67.31	50.80
HA1202-20-32	2 1/2-12	1 1/4-11-1/2	17.27	77.47	66.68
HA1202-24-12	1 1/16-12	1 1/2-11-1/2	13.46	62.48	50.80
HA1202-24-16	1 5/16-12	1 1/2-11-1/2	13.46	63.75	50.80
HA1202-24-20	1 5/8-12	1 1/2-11-1/2	13.46	64.77	50.80
HA1202-24-24	1 7/8-12	1 1/2-11-1/2	13.46	68.07	50.80
HA1202-24-32	2 1/2-12	1 1/2-11-1/2	17.27	78.23	66.68
HA1202-32-20	1 5/8-12	2-11-1/2	17.27	69.34	66.68
HA1202-32-24	1 7/8-12	2-11-1/2	17.27	72.64	66.68
HA1202-32-32	2 1/2-12	2-11-1/2	17.27	78.74	66.68

HA1206

45° Elbow Connector

NPTF - JIC Male

Coude 45° Mâle NPTF - JIC



Code	B2 (male JIC) in.	B1 (male NPTF) in.	Y FLATS mm	M1 mm	N2 mm
HA1206-02-02	5/16-24	1/8-27	14.27	28.45	28.45
HA1206-02-03	3/8-24	1/8-27	14.27	28.70	28.70
HA1206-02-04	7/16-20	1/8-27	14.27	30.23	30.23
HA1206-02-05	1/2-20	1/8-27	14.27	29.72	29.72
HA1206-02-06	9/16-18	1/8-27	15.88	29.97	29.97
HA1206-04-04	7/16-20	1/4-18	19.05	35.31	35.31
HA1206-04-05	1/2-20	1/4-18	19.05	35.31	35.31
HA1206-04-06	9/16-18	1/4-18	19.05	35.56	35.56
HA1206-04-08	3/4-16	1/4-18	20.65	39.37	39.37
HA1206-04-10	7/8-14	1/4-18	23.80	44.70	44.70
HA1206-06-04	7/16-20	3/8-18	22.23	36.83	36.83
HA1206-06-05	1/2-20	3/8-18	22.23	37.08	37.08
HA1206-06-06	9/16-18	3/8-18	22.23	37.08	37.08
HA1206-06-08	3/4-16	3/8-18	22.23	39.62	39.62
HA1206-06-10	7/8-14	3/8-18	28.58	48.01	48.01
HA1206-08-04	7/16-20	1/2-14	28.58	42.93	42.93
HA1206-08-06	9/16-18	1/2-14	28.58	42.93	42.93
HA1206-08-08	3/4-16	1/2-14	28.58	45.47	45.47
HA1206-08-10	7/8-14	1/2-14	34.93	49.63	49.63
HA1206-08-12	1 1/16-12	1/2-14	28.58	52.07	52.07
HA1206-08-16	1 5/16-12	1/2-14	34.93	52.83	52.83
HA1206-12-06	9/16-18	3/4-14	28.58	42.93	42.93
HA1206-12-08	3/4-16	3/4-14	34.93	46.99	46.99
HA1206-12-10	7/8-14	3/4-14	41.28	58.42	58.42
HA1206-12-12	1 1/16-12	3/4-14	34.93	52.32	52.32
HA1206-12-14	1 3/16-12	3/4-14	34.93	52.37	52.37
HA1206-12-16	1 5/16-12	3/4-14	34.93	52.83	52.83
HA1206-16-12	1 1/16-12	1-11 1/2	41.28	58.42	58.42
HA1206-16-16	1 5/16-12	1-11 1/2	41.28	59.69	59.69
HA1206-16-20	1 5/8-12	1-11 1/2	42.88	62.48	62.48
HA1206-20-16	1 5/16-12	1 1/4-11 1/2	50.80	61.47	61.47
HA1206-20-20	1 5/8-12	1 1/4-11 1/2	50.80	63.09	63.09
HA1206-20-24	1 7/8-12	1 1/4-11 1/2	50.80	66.40	66.40
HA1206-24-20	1 5/8-12	1 1/2-11 1/2	60.33	63.50	63.50
HA1206-24-24	1 7/8-12	1 1/2-11 1/2	50.80	66.40	66.40
HA1206-32-32	2 1/2-12	2-11 1/2	73.03	75.39	75.39

TUYAUX
Hydraulique

TUYAUX
PTFE

RACCORDS
Standard

RACCORDS
Interlock

RACCORDS
Afacrîmp

Accessoires

RACCORDS en
Acier Inoxydable

ADAPTATEURS
Standard

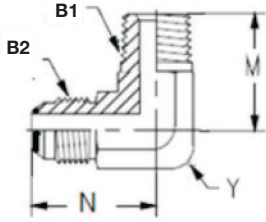
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ORFS

ADAPTATEURS
MÉTRIQUE-BSP

SERTISSEUSES

HA1208

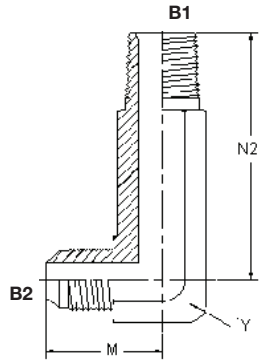
Male Pipe - Male JIC 90°
MP - M JIC 90°



Code	B1 (male NPTF) in.	B2 (male JIC) in.	Y FLATS mm	M mm	N mm
HA1208-02-02	1/8-27	5/16-24	11.13	19.56	18.29
HA1208-02-03	1/8-27	3/8-24	11.13	12.08	18.29
HA1208-02-04	1/8-27	7/16-20	11.13	22.61	45.21
HA1208-02-05	1/8-27	1/2-20	14.27	24.13	19.81
HA1208-02-06	1/8-27	9/16-18	14.27	26.92	22.86
HA1208-02-08	1/8-27	3/4-16	19.05	31.75	26.42
HA1208-04-04	1/4-18	7/16-20	14.27	26.67	27.69
HA1208-04-05	1/4-18	1/2-20	14.27	26.67	27.69
HA1208-04-06	1/4-18	9/16-18	14.27	26.92	27.69
HA1208-04-08	1/4-18	3/4-16	19.05	31.75	30.99
HA1208-06-04	3/8-18	7/16-20	19.05	28.45	30.99
HA1208-06-05	3/8-18	1/2-20	19.05	28.45	30.99
HA1208-06-06	3/8-18	9/16-18	19.05	28.96	30.99
HA1208-06-08	3/8-18	3/4-16	19.05	31.75	30.99
HA1208-06-10	3/8-18	7/8-14	22.22	36.83	32.51
HA1208-06-12	3/8-18	1 1/16-12	26.97	42.16	34.80
HA1208-08-04	1/2-14	7/16-20	22.22	30.73	37.34
HA1208-08-05	1/2-14	1/2-20	22.22	30.73	37.34
HA1208-08-06	1/2-14	9/16-18	22.22	30.99	37.34
HA1208-08-08	1/2-14	3/4-16	22.22	33.78	37.34
HA1208-08-10	1/2-14	7/8-14	22.22	36.83	37.34
HA1208-08-12	1/2-14	1 1/16-12	26.97	42.16	40.39
HA1208-08-14	1/2-14	1 3/16-12	33.32	43.94	42.93
HA1208-08-16	1/2-14	1 5/16-12	33.32	45.97	45.21
HA1208-12-04	3/4-14	7/16-20	26.97	34.29	40.39
HA1208-12-06	3/4-14	9/16-18	26.97	33.27	40.39
HA1208-12-08	3/4-14	3/4-16	26.97	36.07	40.39
HA1208-12-10	3/4-14	7/8-14	26.97	39.12	40.39
HA1208-12-12	3/4-14	1 1/16-12	26.97	42.16	40.39
HA1208-12-14	3/4-14	1 3/16-12	33.32	45.72	42.93
HA1208-12-16	3/4-14	1 5/16-12	33.32	45.97	45.21
HA1208-12-20	3/4-14	1 5/8-12	41.28	52.32	50.04
HA1208-16-08	1-11-1/2	3/4-16	33.32	38.61	50.04
HA1208-16-10	1-11-1/2	7/8-14	33.32	41.66	50.04
HA1208-16-12	1-11-1/2	1 1/16-12	33.32	44.70	50.04
HA1208-16-14	1-11-1/2	1 3/16-12	33.32	45.47	50.04
HA1208-16-16	1-11-1/2	1 5/16-12	33.32	45.97	50.04
HA1208-16-20	1-11-1/2	1 5/8-12	41.28	52.32	59.69
HA1208-16-24	1-11-1/2	1 7/8-12	47.63	59.18	65.53
HA1208-20-12	1 1/4-11-1/2	1 1/16-12	41.28	50.04	60.45
HA1208-20-16	1 1/4-11-1/2	1 5/16-12	41.28	51.05	60.45
HA1208-20-20	1 1/4-11-1/2	1 5/8-12	41.28	52.32	60.45
HA1208-20-24	1 1/4-11-1/2	1 7/8-12	47.63	59.18	66.29
HA1208-24-16	1 1/2-11-1/2	1 5/16-12	47.63	54.86	67.06
HA1208-24-20	1 1/2-11-1/2	1 5/8-12	47.63	55.88	67.06
HA1208-24-24	1 1/2-11 1/2	1 7/8-12	47.63	59.18	67.06
HA1208-24-32	1 1/2-11 1/2	2 1/2-12	63.50	77.72	75.44
HA1208-32-32	2-11-1/2	2 1/2-12	63.50	77.72	76.20

HA1208LL

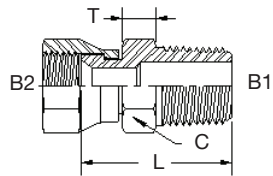
Male Pipe - Male JIC 90° - LONG
MP - M JIC 90° - LONG



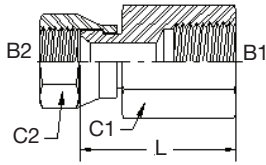
Code	B1 (male NPTF) in.	B2 (male JIC) in.	Y FLATS mm	M mm	N mm
HA1208LL-02-04	1/8-27	7/16-20	11.13	22.61	39.62
HA1208LL-02-05	1/8-27	1/2-20	14.27	24.13	41.40
HA1208LL-04-04	1/4-18	7/16-20	14.27	26.67	52.58
HA1208LL-04-05	1/4-18	1/2-20	14.27	26.67	52.58
HA1208LL-04-06	1/4-18	9/16-18	14.27	26.92	52.58
HA1208LL-04-08	1/4-18	3/4-16	19.05	31.75	61.47
HA1208LL-06-04	3/8-18	7/16-20	19.05	28.45	52.58
HA1208LL-06-06	3/8-18	9/16-18	19.05	28.96	61.47
HA1208LL-06-08	3/8-18	3/4-16	19.05	31.75	61.47
HA1208LL-08-06	1/2-14	9/16-18	22.22	30.99	72.90
HA1208LL-08-08	1/2-14	3/4-16	22.22	33.78	72.90
HA1208LL-08-10	1/2-14	7/8-14	22.22	36.83	72.90
HA1208LL-08-12	1/2-14	1 1/16-12	26.97	42.16	83.31
HA1208LL-12-08	3/4-14	3/4-16	26.97	36.07	83.31
HA1208LL-12-10	3/4-14	7/8-14	26.97	39.12	83.31
HA1208LL-12-12	3/4-14	1 1/16-12	26.97	42.16	83.31
HA1208LL-12-14	3/4-14	1 3/16-12	33.32	45.72	88.90
HA1208LL-12-16	3/4-14	1 5/16-12	33.32	45.97	98.30
HA1208LL-16-16	1-11 1/2	1 5/16-12	33.32	45.97	102.87
HA1208LL-20-20	1 1/4-11 1/2	1 5/8-12	41.28	52.32	127.00
HA1208LL-24-24	1 1/2-11 1/2	1 7/8-12	47.63	59.18	140.97

HA1211

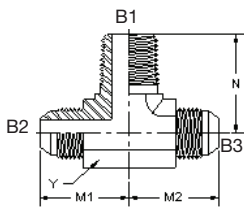
MP-FJX Connector
Adapteur MP-FJX



Code	B1 (male NPTF) in.	B2 (female JIC Swivel) in.	C HEX mm	L mm	T(REF) mm
HA1211-02-04	1/8-27	7/16-20	14.27	24.13	5.59
HA1211-04-04	1/4-18	7/16-20	14.27	14.27	6.35
HA1211-04-05	1/4-18	7/16-20	15.88	31.24	6.35
HA1211-04-06	1/4-18	9/16-18	17.48	31.12	6.35
HA1211-06-04	3/8-18	9/16-18	17.48	30.89	6.10
HA1211-06-06	3/8-18	3/4-16	19.05	34.52	10.16
HA1211-06-08	3/8-18	3/4-16	19.05	34.04	6.35
HA1211-06-10	3/8-18	3/4-16	25.40	33.02	9.65
HA1211-08-08	1/2-14	3/4-16	28.58	39.88	7.87
HA1211-08-10	1/2-14	7/8-14	26.97	40.64	7.87
HA1211-08-12	1/2-14	7/8-14	28.58	43.69	10.92
HA1211-12-10	3/4-14	1 1/16-12	31.75	40.94	8.64
HA1211-12-12	3/4-14	1 1/16-12	34.93	43.64	9.65
HA1211-12-16	3/4-14	1 1/16-12	38.10	45.87	9.90
HA1211-16-12	1 5/16-12	1 5/16-12	34.93	48.51	9.90
HA1211-16-16	1-11 1/2	1 5/16-12	38.10	49.40	12.70
HA1211-20-20	1 1/4-11 1/2	1 5/8-12	42.88	53.59	11.68
HA1211-24-24	1 1/2-11 1/2	1 7/8-12	50.80	55.88	14.73
HA1211-32-32	2-11 1/2	1 1/2-12	31.75	60.50	18.29

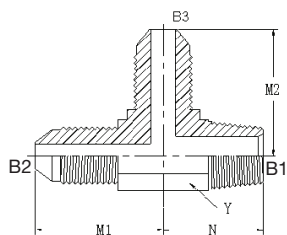
HA1215**FP-FJX Connector**
Adapteur FP-FJX

Code	B1 (female NPTF) in.	B2 (female JIC Swivel) in.	C1 HEX mm	C2 HEX mm	L mm
HA1215-02-04	1/8-27	7/16-20	14.27	14.27	21.84
HA1215-04-04	1/4-18	7/16-20	19.05	14.27	29.72
HA1215-04-05	1/4-18	1/2-20	19.05	15.88	31.50
HA1215-04-06	1/4-18	9/16-18	19.05	17.45	31.75
HA1215-06-06	3/8-18	9/16-18	22.23	17.45	31.75
HA1215-06-08	3/8-18	3/4-16	22.23	22.23	32.51
HA1215-06-10	3/8-18	7/8-14	25.40	25.40	33.02
HA1215-08-06	1/2-14	9/16-18	28.58	17.45	36.07
HA1215-08-08	1/2-14	3/4-16	28.58	22.23	40.39
HA1215-08-10	1/2-14	7/8-14	28.58	25.40	40.13
HA1215-08-12	1/2-14	1 1/16-12	28.58	31.75	40.84
HA1215-12-10	3/4-14	7/8-14	31.75	25.40	41.15
HA1215-12-12	3/4-14	1 1/16-12	34.93	31.75	43.69
HA1215-12-14	3/4-14	1 3/16-12	34.93	34.93	39.17
HA1215-12-16	3/4-14	1 5/16-12	34.93	38.10	44.09
HA1215-16-16	1 11-1/2	1 5/16-12	41.28	38.10	46.99
HA1215-20-20	1 1/4-11 1/2	1 5/8-12	50.80	50.80	55.12
HA1215-24-24	1 1/2-11 1/2	1 7/8-12	60.33	57.15	53.09
HA1215-32-32	2-11 1/2	2 1/2-12	73.03	73.03	56.13

HA1221**MP-MJ-MJ-T**
MP-MJ-MJ-T

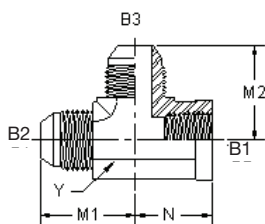
Code	B1 (male NPTF) in.	B2 (male JIC) in.	B3 (male JIC) in.	M1 mm	M2 mm	N mm	Y FLATS mm
HA1221-02-03-03	1/8-27	3/8-24	3/8-24	21.08	21.08	21.08	11.13
HA1221-02-04-04	1/8-27	7/16-20	7/16-20	22.61	22.61	22.86	11.13
HA1221-02-05-05	1/8-27	1/2-20	1/2-20	24.13	24.13	30.99	14.27
HA1221-02-06-06	1/8-27	9/16-18	9/16-18	26.92	26.92	30.99	14.27
HA1221-04-04-04	1/4-18	7/16-20	7/16-20	26.67	26.67	27.69	14.27
HA1221-04-05-05	1/4-18	1/2-20	1/2-20	26.67	26.67	30.99	14.27
HA1221-04-04-06	1/4-18	9/16-18	9/16-18	26.92	26.92	32.51	14.27
HA1221-04-08-08	1/4-18	3/4-16	3/4-16	31.75	31.75	37.34	19.05
HA1221-06-04-04	3/8-18	7/16-20	7/16-20	28.45	28.45	27.69	19.05
HA1221-06-06-06	3/8-18	9/16-18	9/16-18	28.96	28.96	33.53	19.05
HA1221-06-08-08	3/8-18	3/4-16	3/4-16	31.75	31.75	37.34	19.05
HA1221-06-10-10	3/8-18	7/8-14	7/8-14	36.83	36.83	40.39	22.23
HA1221-08-06-06	1/2-14	9/16-18	9/16-18	30.99	30.99	37.34	22.23
HA1221-08-08-08	1/2-14	3/4-16	3/4-16	33.78	33.78	40.39	22.23
HA1221-08-10-10	1/2-14	7/8-14	7/8-14	36.83	36.83	40.39	22.23
HA1221-08-12-12	1/2-14	1 1/16-12	1 1/16-12	42.16	42.16	45.21	26.97
HA1221-12-08-08	3/4-14	3/4-16	3/4-16	36.07	36.07	40.39	26.97
HA1221-12-10-10	3/4-14	7/8-14	7/8-14	39.12	39.37	40.39	26.97
HA1221-12-12-12	3/4-14	1 1/16-12	1 1/16-12	42.16	42.16	60.20	26.97
HA1221-12-14-14	3/4-14	1 3/16-12	1 3/16-12	45.72	45.72	50.04	33.32
HA1221-12-16-16	3/4-14	1 5/16-12	1 5/16-12	45.97	45.97	50.04	33.32
HA1221-16-12-12	1-11 1/2	1 1/16-12	1 1/16-12	44.70	45.72	50.04	34.93
HA1221-16-16-16	1-11 1/2	1 5/16-12	1 5/16-12	45.97	45.97	59.69	33.32
HA1221-20-20-20	1 1/4-11 1/2	1 5/8-12	1 5/8-12	52.32	52.32	60.45	41.28
HA1221-24-24-24	1 1/2-11 1/2	1 7/8-12	1 7/8-12	59.18	59.18	60.45	50.80
HA1221-32-32-32	2-11 1/2	2 1/2-12	2 1/2-12	77.72	77.72	60.45	66.68

HA1224 MP-MJ-MJ-T MP-MJ-MJ-T

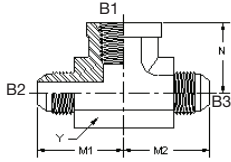


Code	B1 (male NPT) in.	B2 (male JIC) in.	B3 (male JIC) in.	Y FLATS mm	M1 mm	N mm	M2 mm
HA1224-02-03-03	1/8-27	3/8-24	3/8-24	11.13	21.08	18.29	21.08
HA1224-02-04-04	1/8-27	7/16-20	7/16-20	11.13	22.61	19.81	22.61
HA1224-02-05-05	1/8-27	1/2-20	1/2-20	14.27	24.13	19.81	24.13
HA1224-02-06-06	1/8-27	9/16-18	9/16-18	14.27	26.92	22.86	26.92
HA1224-04-04-04	1/4-18	7/16-20	7/16-20	14.27	26.67	27.69	26.67
HA1224-04-05-05	1/4-18	1/2-20	1/2-20	14.27	26.67	27.69	26.67
HA1224-04-06-06	1/4-18	9/16-18	9/16-18	14.27	26.92	27.69	26.92
HA1224-04-08-08	1/4-18	3/4-16	3/4-16	19.05	31.75	30.99	31.75
HA1224-06-06-06	3/8-18	9/16-18	9/16-18	19.05	28.96	30.99	28.96
HA1224-06-08-08	3/8-18	3/4-16	3/4-16	19.05	31.75	30.99	31.75
HA1224-08-06-06	1/2-14	9/16-18	9/16-18	22.23	30.99	37.34	30.99
HA1224-08-08-08	1/2-14	3/4-16	3/4-16	22.23	33.78	37.34	33.78
HA1224-08-10-10	1/2-14	7/8-14	7/8-14	22.23	36.83	37.34	36.83
HA1224-08-12-12	1/2-14	1 1/16-12	1 1/16-12	26.97	42.16	40.39	42.16
HA1224-12-10-10	3/4-14	7/8-14	7/8-14	26.97	39.12	40.39	39.12
HA1224-12-12-12	3/4-14	1 1/16-12	1 1/16-12	26.97	42.16	40.39	42.16
HA1224-12-14-14	3/4-14	1 3/16-12	1 3/16-12	33.32	45.72	42.93	45.72
HA1224-12-16-16	3/4-14	1 5/16-12	1 5/16-12	33.32	45.97	45.21	45.97
HA1224-16-16-16	1-11 1/2	1 5/16-12	1 5/16-12	33.32	45.97	50.04	45.97
HA1224-16-20-20	1-11 1/2	1 5/8-12	1 5/8-12	41.28	52.32	59.69	52.32
HA1224-20-20-20	1 1/4-11 1/2	1 5/8-12	1 5/8-12	41.28	52.32	60.45	52.32
HA1224-24-24-24	1 1/2-11 1/2	1 7/8-12	1 7/8-12	47.63	59.18	67.06	59.18
HA1224-32-32-32	2-11 1/2	2 1/2-12	2 1/2-12	63.50	77.72	76.20	21.08

HA1226 FP-MJ-MJ Tee FP-MJ-MJ TE



Code	B1 (female NPT) in.	B2 (male JIC) in.	B3 (male JIC) in.	Y FLATS mm	M1 mm	M2 mm	N mm
HA1226-02-03-03	1/8-27	3/8-24	3/8-24	14.27	26.16	16.76	26.16
HA1226-02-04-04	1/8-27	7/16-20	7/16-20	14.27	27.43	22.35	27.43
HA1226-02-05-05	1/8-27	1/2-20	1/2-20	14.27	27.43	22.35	27.43
HA1226-04-04-04	1/4-18	7/16-20	7/16-20	19.05	30.99	16.76	30.99
HA1226-04-05-05	1/4-18	1/2-20	1/2-20	19.05	30.99	25.91	30.99
HA1226-04-06-06	1/4-18	9/16-18	9/16-18	19.05	31.24	22.86	31.24
HA1226-06-06-04	3/8-18	9/16-18	7/16-20	22.23	32.77	25.91	32.77
HA1226-06-06-06	3/8-18	9/16-18	9/16-18	22.23	33.27	31.24	33.27
HA1226-06-08-08	3/8-18	3/4-16	3/4-16	22.23	36.07	25.40	36.07
HA1226-08-08-08	1/2-14	3/4-16	3/4-16	26.97	38.61	31.24	38.61
HA1226-08-10-10	1/2-14	7/8-14	7/8-14	26.97	41.66	34.54	41.66
HA1226-12-12-12	3/4-14	1 1/16-12	1 1/16-12	33.32	48.01	31.50	48.01
HA1226-12-14-14	3/4-14	1 3/16-12	1 3/16-12	33.32	47.24	34.54	47.24
HA1226-16-16-16	1-11 1/2	1 5/16-12	1 5/16-12	41.28	55.12	43.18	55.12
HA1226-20-20-20	1 1/4-11 1/2	1 5/8-12	1 5/8-12	47.63	59.18	52.83	59.18
HA1226-24-24-24	1 1/2-11 1/2	1 7/8-12	1 7/8-12	65.07	73.41	60.71	73.41

HA1228**FP-MJ-MJ Tee**
FP-MJ-MJ Tee

Code	B1 (female NPT) in.	B2 (male JIC) in.	B3 (male JIC) in.	M1 mm	M2 mm	N mm	Y FLATS mm
HA1228-02-04-04	1/8-27	7/16-20	7/16-20	27.43	27.43	16.76	14.27
HA1228-02-05-05	1/8-27	1/2-20	1/2-20	27.43	27.43	16.76	14.27
HA1228-04-04-04	1/4-18	7/16-20	7/16-20	30.99	30.99	22.35	19.05
HA1228-04-06-06	1/4-18	9/16-18	9/16-18	31.24	31.24	22.35	19.05
HA1228-04-08-08	1/4-18	3/4-16	3/4-16	36.07	36.07	22.86	20.62
HA1228-04-10-10	1/4-18	7/8-14	7/8-14	36.83	36.83	25.40	23.80
HA1228-06-06-06	3/8-18	9/16-18	9/16-18	33.27	33.27	25.91	22.23
HA1228-06-08-08	3/8-18	3/4-16	3/4-16	36.07	36.07	25.91	22.23
HA1228-08-08-08	1/2-14	3/4-16	3/4-16	38.61	38.61	31.24	26.97
HA1228-08-10-10	1/2-14	7/8-14	7/8-14	41.66	41.66	31.24	26.97
HA1228-08-12-12	1/2-14	1 1/16-12	1 1/16-12	42.16	42.16	31.50	28.58
HA1228-12-10-10	3/4-14	7/8-14	7/8-14	44.70	44.70	34.54	34.93
HA1228-12-12-12	3/4-14	1 1/16-12	1 1/16-12	48.01	48.01	34.54	33.32
HA1228-12-14-14	3/4-14	1 3/16-12	1 3/16-12	47.24	47.24	36.07	33.32
HA1228-12-16-16	3/4-14	1 5/16-12	1 5/16-12	55.12	55.12	35.31	41.28
HA1228-16-12-12	1-11 1/2	1 1/16-12	1 1/16-12	50.80	50.80	41.15	41.28
HA1228-16-16-16	1-11 1/2	1 5/16-12	1 5/16-12	55.12	55.12	41.15	41.28
HA1228-20-20-20	1 1/4-11 1/2	1 5/8-12	1 5/8-12	59.18	59.18	43.18	47.63
HA1228-24-24-24	1 1/2-11 1/2	1 7/8-12	1 7/8-12	73.41	73.41	52.83	65.07
HA1228-32-32-32	2-11 1/2	2 1/2-12	2 1/2-12	83.82	83.82	60.71	71.42

PTFE
HOSEStandard
FITTINGSInterlock
FITTINGSAlfacrimp
FITTINGS

Accessories

Stainless Steel
FITTINGSStandard
ADAPTERSORFS
ADAPTERSMETRIC - BSP
ADAPTERS

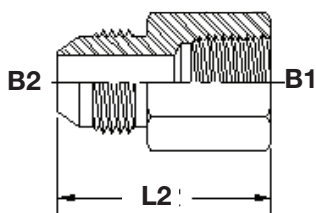
CRIMPERS

HA1230

Straight Connector

NPTF-JIC Female

Adapteur NPTF Femelle - JIC



Code	B2 (male JIC) in.	B1 (female NPTF) in.	M7 mm	Y FLATS mm
HA1230-02-02	5/16-24	1/8-27	14.27	28.45
HA1230-02-03	3/8-24	1/8-27	14.27	28.70
HA1230-02-04	7/16-20	1/8-27	14.27	30.23
HA1230-02-05	1/2-20	1/8-27	14.27	29.72
HA1230-02-06	9/16-18	1/8-27	15.88	29.97
HA1230-04-03	3/8-24	1/4-18	19.05	33.53
HA1230-04-04	7/16-20	1/4-18	19.05	35.31
HA1230-04-05	1/2-20	1/4-18	19.05	35.31
HA1230-04-06	9/16-18	1/4-18	19.05	35.56
HA1230-04-08	3/4-16	1/4-18	20.65	39.37
HA1230-04-10	7/8-14	1/4-18	23.80	44.70
HA1230-06-04	7/16-20	3/8-18	22.23	36.83
HA1230-06-05	1/2-20	3/8-18	22.23	37.08
HA1230-06-06	9/16-18	3/8-18	22.23	37.08
HA1230-06-08	3/4-16	3/8-18	22.23	39.62
HA1230-08-04	7/16-20	1/2-14	28.58	42.93
HA1230-08-06	9/16-18	1/2-14	28.58	42.93
HA1230-08-08	3/4-16	1/2-14	28.58	45.47
HA1230-08-10	7/8-14	1/2-14	28.58	48.01
HA1230-08-12	1 1/16-12	1/2-14	28.58	52.07
HA1230-08-14	1 3/16-12	1/2-14	31.75	52.73
HA1230-12-08	3/4-16	3/4-14	34.93	46.99
HA1230-12-10	7/8-14	3/4-14	34.93	49.63
HA1230-12-12	1 1/16-12	3/4-14	34.93	52.32
HA1230-12-14	1 3/16-12	3/4-14	34.93	52.37
HA1230-12-16	1 5/16-12	3/4-14	34.93	52.83
HA1230-16-08	3/4-16	1-11-1/2	41.28	53.34
HA1230-16-10	7/8-14	1-11-1/2	41.28	58.42
HA1230-16-12	1 1/16-12	1-11-1/2	41.28	58.42
HA1230-16-16	1 5/16-12	1-11-1/2	41.28	59.69
HA1230-16-20	1 5/8-12	1-11-1/2	42.88	62.48
HA1230-20-16	1 5/16-12	1 1/4-11-1/2	50.80	61.47
HA1230-20-20	1 5/8-12	1 1/4-11-1/2	50.80	63.09
HA1230-20-24	1 7/8-12	1 1/4-11-1/2	50.80	66.40
HA1230-24-20	1 5/8-12	1 1/2-11-1/2	60.33	63.50
HA1230-24-24	1 7/8-12	1 1/2-11-1/2	60.33	66.55
HA1230-32-24	1 7/8-12	2-11-1/2	73.03	68.96
HA1230-32-32	2 1/2-12	2-11-1/2	73.03	75.39

TUYAUX
Hydraulique

TUYAUX
PTFE

RACCORDS
Standard

RACCORDS
Interlock

RACCORDS
Afacrîmp

Accessoires

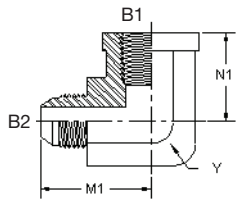
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ADAPTATEURS
Standard

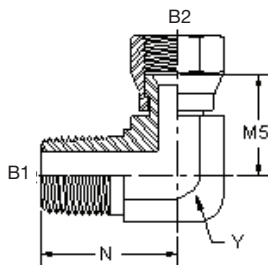
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ORFS

ADAPTATEURS
MÉTRIQUE-BSP

SERTISSEUSES

HA1242**FP-MJ 90°**
FP-MJ 90°

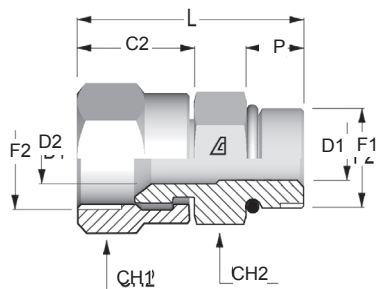
Code	B1 (female NPT) in.	B2 (male JIC) in.	Y FLATS mm	M1 mm	N1 mm
HA1242-02-04	1/8-27	7/16-20	14.27	27.43	27.43
HA1242-02-05	1/8-27	1/2-20	14.27	27.43	27.43
HA1242-02-06	1/8-27	9/16-18	19.05	31.24	31.24
HA1242-04-04	1/4-18	7/16-20	19.05	30.99	30.99
HA1242-04-05	1/4-18	1/2-20	19.05	30.99	30.99
HA1242-04-06	1/4-18	9/16-18	19.05	31.24	31.24
HA1242-04-08	1/4-18	3/4-16	22.23	36.07	36.07
HA1242-06-04	3/8-18	7/16-20	22.23	32.77	32.77
HA1242-06-05	3/8-18	1/2-20	22.23	32.77	32.77
HA1242-06-06	3/8-18	9/16-18	22.23	33.27	33.27
HA1242-06-08	3/8-18	3/4-16	22.23	36.07	36.07
HA1242-06-10	3/8-18	7/8-14	26.97	41.66	41.66
HA1242-08-04	1/2-14	7/16-20	26.97	35.56	35.56
HA1242-08-06	1/2-14	9/16-18	26.97	35.81	35.81
HA1242-08-08	1/2-14	3/4-16	26.97	38.61	38.61
HA1242-08-10	1/2-14	7/8-14	26.97	41.66	41.66
HA1242-08-12	1/2-14	1 1/16-12	33.32	48.01	48.01
HA1242-12-08	3/4-14	3/4-16	33.32	41.91	41.91
HA1242-12-10	3/4-14	7/8-14	33.32	44.96	44.96
HA1242-12-12	3/4-14	1 1/16-12	33.32	48.01	48.01
HA1242-12-14	3/4-14	1 3/16-12	33.32	47.24	47.24
HA1242-12-16	3/4-14	1 5/16-12	41.28	55.12	55.12
HA1242-16-12	1-11 1/2	1 1/16-12	41.28	53.85	53.85
HA1242-16-16	1-11 1/2	1 5/16-12	41.28	55.12	55.12
HA1242-20-16	1 1/4-11 1/2	1 5/16-12	47.63	57.91	57.91
HA1242-20-20	1 1/4-11 1/2	1 5/8-12	47.63	59.18	59.18
HA1242-24-24	1 1/2-11 1/2	1 7/8-12	65.07	73.41	73.41
HA1242-32-32	2-11 1/2	2 1/2-12	71.42	83.82	83.82

HA1247**MP-FJX Elbow 90°**
MP-FJX Coude 90°

Code	B1 (male NPT) in.	B2 (female JIC) in.	Y FLATS mm	N mm	M5 mm
HA1247-02-04	1/8-27	7/16-20	11.13	19.81	0.656
HA1247-02-05	1/8-27	1/2-20	14.27	19.81	0.656
HA1247-04-04	1/4-18	7/16-20	14.27	27.69	0.800
HA1247-04-05	1/4-18	1/2-20	14.27	27.69	0.800
HA1247-04-06	1/4-18	9/16-18	14.27	27.69	0.875
HA1247-06-04	3/8-18	7/16-20	19.05	30.99	0.896
HA1247-06-06	3/8-18	9/16-18	19.05	30.99	0.908
HA1247-06-08	3/8-18	3/4-16	19.05	30.99	0.958
HA1247-08-06	1/2-14	9/16-18	22.23	37.34	1.045
HA1247-08-08	1/2-14	3/4-16	22.23	37.34	1.090
HA1247-08-10	1/2-14	7/8-14	22.23	37.34	1.120
HA1247-08-12	1/2-14	1 1/16-12	26.97	40.39	1.188
HA1247-12-08	3/4-14	3/4-16	26.97	40.39	1.130
HA1247-12-12	3/4-14	1 1/16-12	26.97	40.39	1.188
HA1247-12-14	3/4-14	1 3/16-12	33.32	42.93	1.160
HA1247-16-16	1-11 1/2	1 5/16-12	33.32	50.04	1.406
HA1247-20-20	1 1/4-11 1/2	1 5/8-12	41.28	60.45	1.685
HA1247-24-24	1 1/2-11 1/2	1 7/8-12	47.63	67.06	1.850
HA1247-32-32	2-11 1/2	2 1/2-12	63.50	76.20	2.442

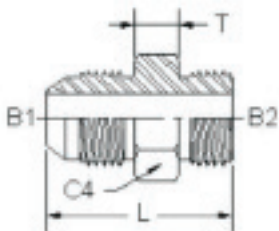
HA1213

Straight Connector
MORB-FJIC
Adapteur MORB-FJIC



HA1231

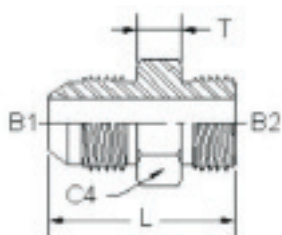
Straight Connector
JIC Male SAE UNF/UN Male
with O-Ring
Adapteur Mâle JIC -
Mâle SAE + O-Ring



Code	F2	F1	L mm	P mm	C2 mm	CH1 mm	CH2 mm
HA1213-04-04	7/16"-20	7/16"-20	34	8,3	9	14	16
HA1213-05-04	7/16"-20	1/2"-20	34	8,3	9	14	16
HA1213-05-05	1/2"-20	1/2"-20	35,5	9	9	17	17
HA1213-06-04	7/16"-20	9/16"-18	35	8,3	10	16	16
HA1213-06-06	9/16"-18	9/16"-18	37	9	10	17	19
HA1213-08-06	9/16"-18	3/4"-16	40	9	11	22	19
HA1213-08-08	3/4"-16	3/4"-16	43,5	11,5	11	22	25
HA1213-08-10	7/8"-14	3/4"-16	46,5	12,5	11	22	27
HA1213-08-12	1"1/16-12	3/4"-16	50	13	11	30	32
HA1213-10-08	3/4"-16	7/8"-14	46,5	11,5	12,5	27	25
HA1213-10-10	7/8"-14	7/8"-14	49,5	12,5	12,5	27	27
HA1213-10-12	1"1/16-12	7/8"-14	51	13	12,5	27	32
HA1213-12-08	3/4"-16	1"1/16-12	49,5	11,5	15	32	25
HA1213-12-10	7/8"-14	1"1/16-12	52,5	12,5	15	27	27
HA1213-12-12	1"1/16-12	1"1/16-12	54	13	15	32	32
HA1213-12-16	1"5/16-12	1"1/16-12	57	14,5	15	32	38
HA1213-14-14	1"3/16-12	1"3/16-12	54,1	12,4	15	32	36
HA1213-16-12	1"1/16-12	1"5/16-12	54	13	15	41	32
HA1213-16-16	1"5/16-12	1"5/16-12	57	14,5	15	41	38
HA1213-20-16	1"5/16-12	1"5/8-12	60	14,5	15	46	38
HA1213-20-20	1"5/8-12	1"5/8-12	62	16,1	15	46	50
HA1213-2424	1"7/8-12	1"5/8-12	67	18,4	15	50	55

Code	B1 (male JIC) in	B2 (male ORB) in	C4 HEX mm	L mm	T mm
HA1231-02-02	5/16-24	5/16-24	11.13	26.92	7.11
HA1231-03-02	3/8-24	5/16-24	11.13	27.94	7.11
HA1231-03-03	3/8-24	3/8-24	12.70	27.94	7.11
HA1231-04-02	7/16-20	5/16-24	12.70	29.72	7.11
HA1231-04-03	7/16-20	3/8-24	12.70	29.72	7.11
HA1231-04-04	7/16-20	7/16-20	14.27	31.24	7.11
HA1231-04-05	7/16-20	1/2-20	15.88	31.24	7.11
HA1231-04-06	7/16-20	9/16-18	17.48	32.77	7.87
HA1231-04-08	7/16-20	3/4-16	22.23	34.80	8.64
HA1231-04-10	7/16-20	7/8-1/4	25.40	37.85	10.16
HA1231-04-12	7/16-20	1 1/16-12	31.75	42.16	11.94
HA1231-05-04	1/2-20	7/16-20	14.27	31.24	7.11
HA1231-05-05	1/2-20	1/2-20	15.88	31.24	7.11
HA1231-05-06	1/2-20	9/16-18	17.48	32.77	7.87
HA1231-05-08	1/2-20	3/4-16	22.23	34.80	8.64
HA1231-05-10	1/2-20	7/8-1/4	25.40	37.85	10.16
HA1231-06-03	9/16-18	3/8-24	15.88	33.02	8.64
HA1231-06-04	9/16-18	7/16-20	15.88	32.26	10.16
HA1231-06-05	9/16-18	1/2-20	15.88	32.26	11.94
HA1231-06-06	9/16-18	9/16-18	17.48	33.02	11.94
HA1231-06-08	9/16-18	3/4-16	22.23	35.05	8.64
HA1231-06-10	9/16-18	7/8-14	25.40	38.10	10.16
HA1231-06-12	9/16-18	1 1/16-12	31.75	42.16	11.94
HA1231-06-16	9/16-18	1 5/16-12	38.10	42.67	11.94
HA1231-08-04	3/4-16	7/16-20	20.65	37.85	8.64
HA1231-08-05	3/4-16	1/2-20	20.65	37.85	8.64
HA1231-08-06	3/4-16	9/16-18	31.75	36.58	8.64
HA1231-08-08	3/4-16	3/4-16	34.93	37.59	8.64
HA1231-08-10	3/4-16	7/8-14	38.10	40.64	10.16
HA1231-08-12	3/4-16	1 1/16-12	47.63	44.70	11.94
HA1231-08-14	3/4-16	1 3/16-12	28.58	44.70	11.94
HA1231-08-16	3/4-16	1 5/16-12	28.58	45.47	12.70
HA1231-10-04	7/8-14	7/16-20	28.58	41.91	10.16
HA1231-10-06	7/8-14	9/16-18	31.75	43.43	10.16
HA1231-10-08	7/8-14	3/4-16	34.93	41.66	10.16
HA1231-10-10	7/8-14	7/8-1/4	25.40	43.18	10.16

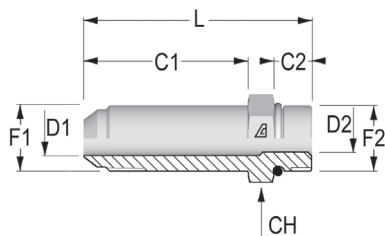
HA1231

con't...
suite...

Code	B1 (male JIC) in	B2 (male ORB) in	C4 HEX mm	L mm	T mm
HA1231-10-12	7/8-14	1 1/16-12	31.75	47.24	11.94
HA1231-10-14	7/8-14	1 3/16-12	34.93	47.24	48.01
HA1231-10-16	7/8-14	1 5/16-12	38.10	48.01	12.70
HA1231-10-20	1 1/16-12	1 5/16-12	47.63	50.04	14.73
HA1231-12-06	1 1/16-12	9/16-18	28.58	47.24	11.94
HA1231-12-08	1 1/16-12	3/4-16	28.58	49.28	11.94
HA1231-12-10	1 1/16-12	7/8-14	28.58	47.75	11.94
HA1231-12-12	1 1/16-12	1 1/16-12	31.75	50.04	11.94
HA1231-12-14	1 1/16-12	1 7/8-12	34.93	49.78	11.94
HA1231-12-16	1 1/16-12	1 5/16-12	38.10	75.95	12.70
HA1231-12-20	1 1/16-12	1 5/8-12	47.63	55.37	14.73
HA1231-12-24	1 1/16-12	1 7/8-12	53.98	54.61	16.51
HA1231-14-08	1 13/16-12	3/4-16	31.75	49.78	11.94
HA1231-14-10	1 13/16-12	7/8-14	31.75	51.31	11.94
HA1231-14-12	1 13/16-12	1 1/16-12	31.75	50.55	11.94
HA1231-14-14	1 13/16-12	1 3/16-12	34.93	50.55	11.94
HA1231-14-16	1 13/16-12	1 5/16-12	38.10	51.31	12.70
HA1231-16-06	1 5/16-12	9/16-18	34.93	49.02	12.70
HA1231-16-08	1 5/16-12	3/4-16	34.93	51.05	12.70
HA1231-16-10	1 5/16-12	7/8-14	34.93	52.58	12.70
HA1231-16-12	1 5/16-12	1 1/16-12	34.93	51.82	12.70
HA1231-16-14	1 5/16-12	1 3/16-12	34.93	51.82	12.70
HA1231-16-16	1 5/16-12	1 5/16-12	38.10	51.82	12.70
HA1231-16-20	1 5/16-12	1 5/8-12	47.63	53.85	14.73
HA1231-16-24	1 5/16-12	1 7/8-12	53.98	55.88	16.51
HA1231-20-12	1 5/8-12	1 1/16-12	42.88	58.42	14.73
HA1231-20-16	1 5/8-12	1 5/16-12	42.88	59.18	14.73
HA1231-20-20	1 5/8-12	1 5/8-12	47.63	55.12	14.73
HA1231-20-24	1 5/8-12	1 7/8-12	53.98	56.90	16.51
HA1231-24-20	1 7/8-12	1 5/8-12	50.80	64.26	16.51
HA1231-24-24	1 7/8-12	1 7/8-12	53.98	60.20	16.51
HA1231-24-32	1 7/8-12	2 1/2-12	69.85	64.26	20.62
HA1231-32-24	2 1/2-12	1 7/8-12	66.68	71.37	20.57
HA1231-32-32	2 1/2-12	2 1/2-12	69.85	70.61	20.57

HA1231LL

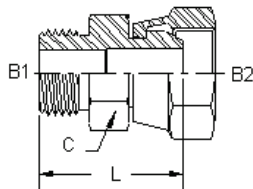
Long Connector
JIC Male SAE UNF/UN Male
with O-Ring
Adaptateur Mâle JIC LONG -
Mâle SAE + O-Ring



Code	F1	F2	L mm	C1 mm	C2 mm	CH mm
HA1231LL-0404	7/16"-20	7/16"-20	52,5	35	9	14
HA1231LL-0405	7/16"-20	1/2"-20	52,5	35	9	14
HA1231LL-0406	7/16"-20	9/16"-18	54,5	35	10	16
HA1231LL-0505	1/2"-20	1/2"-20	54,5	37	9	17
HA1231LL-0606	9/16"-18	9/16"-18	58,5	39	10	17
HA1231LL-0608	9/16"-18	3/4"-16	60	39	11	22
HA1231LL-0808	3/4"-16	3/4"-16	68,5	48	11	22
HA1231LL-0810	3/4"-16	7/8"-14	71,5	48	12,5	27
HA1231LL-0812	3/4"-16	1"1/16-12	76	48	15	32
HA1231LL-1008	7/8"-14	3/4"-16	75,5	53	11	22
HA1231LL-1010	7/8"-14	7/8"-14	77	53	12,5	27
HA1231LL-1012	7/8"-14	1"1/16-12	81,5	53	15	27
HA1231LL-1208	1"1/16-12	3/4"-16	86,5	63	11	30
HA1231LL-1210	1"1/16-12	7/8"-14	88	63	12,5	27
HA1231LL-1212	1"1/16-12	1"1/16-12	91,5	63	15	32
HA1231LL-1216	1"1/16-12	1"5/16-12	92,5	63	15	41
HA1231LL-1414	1"3/16-12	1"3/16-12	96,5	68	15	32
HA1231LL-1612	1"5/16-12	1"1/16-12	100	72	15	32
HA1231LL-1616	1"5/16-12	1"5/16-12	101	72	15	41
HA1231LL-1620	1"5/16-12	1"5/8-12	102	72	15	46
HA1231LL-2020	1"5/8-12	1"5/8-12	119	88	15	46
HA1231LL-2424	1"7/8-12	1"5/8-12	131	98	15	50

HA1235

MORB-FPX Straight
MORB-FPX Droit



Code	B2 (female NPSM SW) in.	B1 (male ORB) in.	L mm	C HEX mm
HA1235-04-04	1/4-18	7/16-20	28.93	14.27
HA1235-04-06	3/8-18	7/16-20	29.21	17.48
HA1235-05-04	1/4-18	1/2-20	27.74	15.88
HA1235-05-06	3/8-18	1/2-20	30.73	22.23
HA1235-06-04	1/4-18	9/16-18	29.72	17.48
HA1235-06-06	3/8-18	9/16-18	29.72	17.48
HA1235-06-08	1/2-14	9/16-18	32.00	22.23
HA1235-08-04	1/4-18	3/4-16	31.75	22.23
HA1235-08-06	3/8-18	3/4-16	31.75	22.23
HA1235-08-08	1/2-14	3/4-16	32.26	22.23
HA1235-10-06	3/8-18	7/8-14	36.58	25.40
HA1235-10-08	1/2-14	7/8-14	30.99	25.40
HA1235-10-12	3/4-14	7/8-14	35.56	25.40
HA1235-12-08	1/2-14	1 1/16-12	35.56	31.75
HA1235-12-12	3/4-14	1 1/16-12	40.39	31.75
HA1235-12-16	1-11 1/2	1 1/16-12	41.15	31.75
HA1235-14-12	3/4-14	1 3/16-12	41.15	34.93
HA1235-14-16	1-11 1/2	1 3/16-12	38.35	34.93
HA1235-16-08	1/2-14	1 5/16-12	44.02	38.10
HA1235-16-12	3/4-14	1 5/16-12	40.89	38.10
HA1235-16-16	1-11 1/2	1 5/16-12	39.37	38.10
HA1235-16-20	1 1/4-11 1/2	1 5/16-12	44.45	47.63
HA1235-20-12	3/4-14	1 5/8-12	46.58	47.63
HA1235-20-16	1-11 1/2	1 5/8-12	45.21	47.63
HA1235-20-20	1 1/4-11 1/2	1 5/8-12	46.43	47.63
HA1235-24-20	1 1/4-11 1/2	1 7/8-12	45.47	53.98
HA1235-24-24	1 1/2-11 1/2	1 7/8-12	50.29	53.98
HA1235-32-32	2-11 1/2	2 1/2-12	49.61	69.85

TUYAUX
Hydraulique

TUYAUX
PTFE

RACCORDS
Standard

RACCORDS
Interlock

RACCORDS
Africrimp

Accessoires

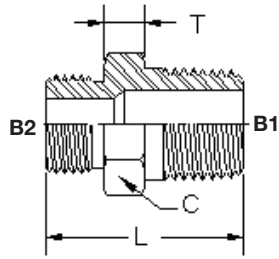
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Acier Inoxydable

ADAPTATEURS
Standard

ADAPTATEURS
ORFS

ADAPTATEURS
MÉTRIQUE-BSP

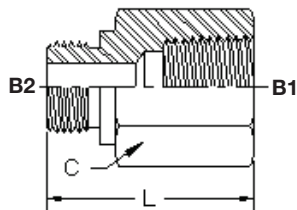
SERTISSEUSES

HA1264**Male Pipe - Male O'Ring BOSS
MP - MORB**

Code	B2 (male ORB) in.	B1 (male NPTF) in.	C HEX mm	L mm	T mm
HA1264-02-04	7/16-20	1/8-27	14.27	27.18	7.11
HA1264-02-05	1/2-20	1/8-27	15.88	26.67	7.37
HA1264-02-06	9/16-18	1/8-27	17.48	28.19	8.64
HA1264-04-04	7/16-20	1/4-18	14.27	31.24	7.87
HA1264-04-05	1/2-20	1/4-18	15.88	29.26	5.33
HA1264-04-06	9/16-18	1/4-18	17.48	32.77	7.87
HA1264-04-08	3/4-16	1/4-18	22.23	31.50	6.10
HA1264-04-10	7/8-14	1/4-18	25.40	36.83	10.16
HA1264-06-06	9/16-18	3/8-18	17.48	33.02	8.38
HA1264-06-08	3/4-16	3/8-18	22.23	34.54	8.64
HA1264-06-10	7/8-14	3/8-18	25.40	38.10	11.43
HA1264-06-12	1 1/16-12	3/8-18	31.75	42.67	12.70
HA1264-08-06	9/16-18	1/2-14	22.23	39.12	6.10
HA1264-08-08	3/4-16	1/2-14	22.23	39.37	10.41
HA1264-08-10	7/8-14	1/2-14	25.40	42.93	10.41
HA1264-08-12	1 1/16-12	1/2-14	31.75	47.24	12.70
HA1264-12-08	3/4-16	3/4-14	28.58	40.39	6.60
HA1264-12-10	7/8-14	3/4-14	28.58	44.70	10.41
HA1264-12-12	1 1/16-12	3/4-14	31.75	47.24	9.65
HA1264-12-14	1 3/16-12	3/4-14	34.93	46.99	12.45
HA1264-12-16	1 5/16-12	3/4-14	38.10	52.58	13.72
HA1264-12-20	1 5/8-12	3/4-14	47.63	48.26	13.72
HA1264-16-12	1 1/16-12	1-11 1/2	34.93	53.85	11.68
HA1264-16-14	1 3/16-12	1-11 1/2	34.93	50.29	11.18
HA1264-16-16	1 5/16-12	1-11 1/2	38.10	52.32	12.70
HA1264-20-16	1 5/16-12	1 1/4-11 1/2	42.88	59.44	13.72
HA1264-20-20	1 5/8-12	1 1/4-11 1/2	47.63	55.12	14.73
HA1264-20-24	1 7/8-12	1 1/4-11 1/2	53.98	57.15	17.02
HA1264-24-20	1 5/8-12	1 1/2-11 1/2	50.80	57.84	17.15
HA1264-24-24	1 7/8-12	1 1/2-11 1/2	53.98	57.91	16.51
HA1264-32-32	2 1/2-12	2-11 1/2	69.85	62.99	20.57

HA1268

FP-MORB Connector
FP-MORB Connecteur



Code	B2 (male ORB) in.	B1 (female NPTF) in.	C HEX mm	L mm
HA1268-02-02	5/16-24	1/8-27	15.88	22.40
HA1268-02-04	7/16-20	1/8-27	14.27	25.40
HA1268-02-05	1/2-20	1/8-27	15.88	23.88
HA1268-02-06	9/16-18	1/8-27	17.48	26.92
HA1268-04-02	5/16-24	1/4-18	19.05	31.24
HA1268-04-03	3/8-24	1/4-18	19.05	30.81
HA1268-04-04	7/16-20	1/4-18	19.05	32.77
HA1268-04-05	1/2-20	1/4-18	19.05	30.23
HA1268-04-06	9/16-18	1/4-18	19.05	29.21
HA1268-04-08	3/4-16	1/4-18	22.23	29.46
HA1268-04-10	7/8-14	1/4-18	25.40	33.27
HA1268-04-12	1 1/16-12	1/4-18	31.75	27.69
HA1268-06-04	7/16-20	3/8-18	22.23	32.26
HA1268-06-05	1/2-20	3/8-18	22.23	34.04
HA1268-06-06	9/16-18	3/8-18	22.23	35.31
HA1268-06-08	3/4-16	3/8-18	22.23	32.51
HA1268-06-10	7/8-14	3/8-18	25.40	33.27
HA1268-06-12	1 1/16-12	3/8-18	31.75	35.56
HA1268-08-06	9/16-18	1/2-14	28.58	38.86
HA1268-08-08	3/4-16	1/2-14	28.58	43.18
HA1268-08-10	7/8-14	1/2-14	28.58	41.40
HA1268-08-12	1 3/16-12	1/2-14	34.93	27.69
HA1268-12-08	3/4-16	3/4-14	34.93	43.69
HA1268-12-10	7/8-14	3/4-14	34.93	46.48
HA1268-12-12	1 1/16-12	3/4-14	34.93	45.47
HA1268-12-14	1 3/16-12	3/4-14	34.93	40.46
HA1268-12-16	1 5/16-12	3/4-14	38.10	45.47
HA1268-12-20	1 5/8-12	3/4-14	47.63	30.23
HA1268-12-24	1 7/8-12	3/4-14	53.98	25.40
HA1268-16-12	1 1/16-12	1-11 1/2	41.28	48.51
HA1268-16-14	1 3/16-12	1-11 1/2	41.28	48.26
HA1268-16-16	1 5/16-12	1-11 1/2	41.28	51.56
HA1268-16-20	1 5/8-12	1-11 1/2	47.63	51.56
HA1268-16-24	1 7/8-12	1-11 1/2	53.98	25.40
HA1268-16-32	2 1/2-12	1-11 1/2	69.85	36.42
HA1268-20-16	1 5/16-12	1 1/4-11 1/2	50.80	57.66
HA1268-20-20	1 5/8-12	1 1/4-11 1/2	50.80	54.10
HA1268-20-24	1 7/8-12	1 1/4-11 1/2	53.98	49.78
HA1268-20-32	2 1/2-12	1 1/4-11 1/2	69.85	50.80
HA1268-24-16	1 5/16-12	1 1/2-11 1/2	60.33	57.91
HA1268-24-20	1 5/8-12	1 1/2-11 1/2	60.33	55.12
HA1268-24-24	1 7/8-12	1 1/2-11 1/2	60.33	54.36
HA1268-32-32	2 1/2-12	2-11 1/2	73.03	53.34

TUYAUX Hydraulique
TUYAUX PTFE
RACCORDS Standard
RACCORDS Interlock
RACCORDS Afacriimp
Accessoires
RACCORDS en Acier Inoxydable
ADAPTATEURS Standard
ADAPTATEURS ORFS
ADAPTATEURS MÉTRIQUE-BSP
SERTISSEUSES

HA1286

MOR-MOR Straight
MORB-MORB Droit

Code	B1 (male ORB) in.	B2 (male ORB) in.	L mm
HA1286-04-04	7/16-20	7/16-20	37.34
HA1286-06-06	9/16-18	9/16-18	39.62
HA1286-08-08	3/4-16	3/4-16	44.70
HA1286-10-10	7/8-14	7/8-14	51.82
HA1286-12-08	1 1/16-12	3/4-16	55.88
HA1286-12-12	1 1/16-12	1 1/16-12	59.18
HA1286-16-12	1 5/16-12	1 1/16-12	59.56
HA1286-16-16	1 5/16-12	1 5/16-12	59.94
HA1286-20-20	1 5/8-12	1 5/8-12	58.67
HA1286-24-24	1 7/8-12	1 7/8-12	54.10
HA1286-32-32	2 1/2-1/2	2 1/2-1/2	54.10

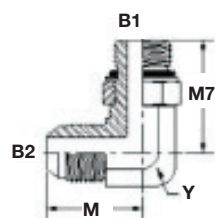
HA1238

90° Adjustable Elbow

Male ORB - JIC

Coude 90° Mâle ORB - JIC

Ajustable



Code	B1 (male ORB) in.	B2 (male JIC) in.	M mm	M7 mm	Y FLATS mm
HA1238-02-02	5/16-24	5/16-24	19.56	23.88	11.13
HA1238-02-04	5/16-24	7/16-20	19.81	26.16	11.13
HA1238-03-03	3/8-24	3/8-24	21.08	23.88	11.13
HA1238-03-04	3/8-24	7/16-20	20.57	26.16	11.13
HA1238-04-02	7/16-20	5/16-24	22.61	23.37	10.92
HA1238-04-03	7/16-20	3/8-24	22.61	23.37	10.92
HA1238-04-04	7/16-20	7/16-20	22.61	26.16	10.92
HA1238-04-05	7/16-20	1/2-20	24.13	28.70	14.27
HA1238-04-06	7/16-20	9/16-18	26.67	31.75	14.27
HA1238-04-08	7/16-20	3/4-16	28.45	36.83	19.05
HA1238-05-04	1/2-20	7/16-20	24.13	28.70	14.27
HA1238-05-05	1/2-20	1/2-20	24.13	28.70	14.27
HA1238-05-06	1/2-20	9/16-18	26.67	31.75	14.27
HA1238-05-08	1/2-20	3/4-16	28.45	36.83	19.05
HA1238-05-10	1/2-20	7/8-14	30.73	43.18	22.23
HA1238-06-02	5/16-24	5/16-24	26.92	27.43	14.27
HA1238-06-04	9/16-18	7/16-20	26.92	30.23	14.27
HA1238-06-05	9/16-18	1/2-20	26.92	30.23	14.27
HA1238-06-06	9/16-18	9/16-18	26.92	31.75	14.27
HA1238-06-08	9/16-18	3/4-16	28.96	36.83	19.05
HA1238-06-10	9/16-18	7/8-14	30.99	43.18	22.23
HA1238-06-12	9/16-18	1 1/16-12	33.27	49.28	26.97
HA1238-08-04	3/4-16	7/16-20	31.75	32.00	19.05
HA1238-08-05	3/4-16	1/2-20	31.75	32.00	19.05
HA1238-08-06	3/4-16	9/16-18	31.75	33.53	19.05
HA1238-08-08	3/4-16	3/4-16	31.75	36.83	19.05
HA1238-08-10	3/4-16	7/8-14	33.78	43.18	22.23
HA1238-08-12	3/4-16	1 1/16-12	36.07	49.28	26.97
HA1238-08-16	3/4-16	1 5/16-12	38.61	52.07	33.32
HA1238-10-06	7/8-14	9/16-18	35.81	35.81	22.23
HA1238-10-08	7/8-14	3/4-16	36.83	39.12	22.23
HA1238-10-10	7/8-14	7/8-14	36.83	43.18	22.23
HA1238-10-12	7/8-14	1 1/16-12	39.12	49.28	26.97
HA1238-10-16	7/8-14	1 5/16-12	41.66	52.07	33.32
HA1238-10-20	7/8-14	1 5/8-12	46.74	57.15	41.28
HA1238-12-06	1 1/16-12	9/16-18	42.16	37.85	26.97
HA1238-12-08	1 1/16-12	3/4-16	42.16	41.15	26.97
HA1238-12-10	1 1/16-12	7/8-14	42.16	45.21	26.97
HA1238-12-12	1 1/16-12	1 1/16-12	42.16	49.28	26.97
HA1238-12-14	1 1/16-12	1 3/16-12	44.96	50.80	33.32
HA1238-12-16	1 1/16-12	1 5/16-12	44.70	52.07	33.32
HA1238-12-20	1 1/16-12	1 5/8-12	50.04	57.15	41.28
HA1238-14-12	1 3/16-12	1 1/16-12	44.20	50.55	33.32
HA1238-14-14	1 3/16-12	1 3/16-12	45.72	50.80	33.32
HA1238-14-16	1 3/16-12	1 5/8-12	45.47	52.07	33.32
HA1238-16-08	1 5/16-12	3/4-16	45.97	43.94	33.32
HA1238-16-10	1 5/16-12	7/8-14	45.97	48.01	33.32
HA1238-16-12	1 5/16-12	1 1/16-12	45.97	52.07	33.32
HA1238-16-14	1 5/16-12	1 3/16-12	45.97	52.07	33.32
HA1238-16-16	1 5/16-12	1 5/16-12	45.97	52.07	33.32
HA1238-16-20	1 5/16-12	1 5/8-12	51.05	57.15	41.28
HA1238-16-24	1 5/16-12	1 7/8-12	54.86	60.71	47.63
HA1238-20-12	1 5/8-12	1 1/16-12	52.32	57.15	41.28
HA1238-20-14	1 5/8-12	1 3/16-12	52.32	57.15	41.28
HA1238-20-16	1 5/8-12	1 5/16-12	52.32	57.15	41.28
HA1238-20-20	1 5/8-12	1 5/8-12	52.32	57.15	41.28
HA1238-20-24	1 5/8-12	1 7/8-12	55.88	60.71	47.63
HA1238-24-16	1 7/8-12	1 5/16-12	59.18	59.94	47.63
HA1238-24-20	1 7/8-12	1 5/8-12	59.18	60.71	47.63
HA1238-24-24	1 7/8-12	1 7/8-12	59.18	60.71	47.63

TUYAUX Hydraulique
TUYAUX PTFE
RACCORDS Standard
RACCORDS Interlock
RACCORDS Afacriimp
Accessoires
RACCORDS en Acier Inoxydable
ADAPTATEURS Standard
ADAPTATEURS ORFS
ADAPTATEURS MÉTRIQUE-BSP
SERTISSEUSES

HA1238...continued/...suite

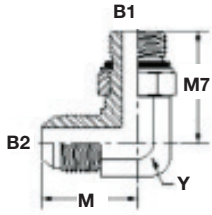
90° Adjustable Elbow

Male ORB - JIC

Coude 90° Mâle ORB - JIC

Ajustable

Code	B1 (male ORB) in.	B2 (male JIC) in.	M mm	M7 mm	Y FLATS mm
HA1238-24-32	1 7/8-12	2 1/2-12	71.37	73.41	63.50
HA1238-32-24	2 1/2-12	1 7/8-12	77.72	73.41	63.50
HA1238-32-32	2 1/2-12	2 1/2-12	77.72	73.41	63.50

**HA1238LL**

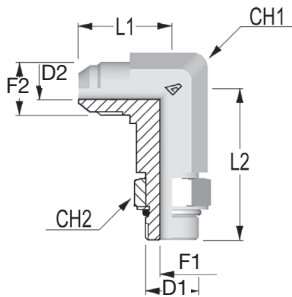
90° Adjustable Long Elbow

MORB - MJIC

Long Coude 90° MORB - JIC

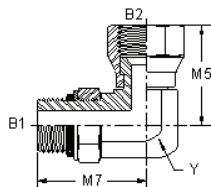
Ajustable

Code	F1	F2	L1 mm	L2 mm	CH1 mm	CH2 mm
HA1238LL-0404	7/16"-20	7/16"-20	22,5	46	12	16
HA1238LL-0405	7/16"-20	1/2"-20	24	49,5	14	17
HA1238LL-0406	7/16"-20	9/16"-18	27	56,5	14	19
HA1238LL-0505	1/2"-20	1/2"-20	24	49,5	14	17
HA1238LL-0606	9/16"-18	9/16"-18	27	56,5	14	19
HA1238LL-0608	9/16"-18	3/4"-16	28,5	67	19	24
HA1238LL-0808	3/4"-16	3/4"-16	31,5	67	19	24
HA1238LL-0810	3/4"-16	7/8"-14	34	78	22	27
HA1238LL-0812	3/4"-16	1"1/16-12	37	92	27	32
HA1238LL-1008	7/8"-14	3/4"-16	36,5	75	22	24
HA1238LL-1010	7/8"-14	7/8"-14	36,5	78	22	27
HA1238LL-1012	7/8"-14	1"1/16-12	39,5	92	27	32
HA1238LL-1208	1"1/16-12	3/4"-16	42	85	27	24
HA1238LL-1210	1"1/16-12	7/8"-14	42	88	27	27
HA1238LL-1212	1"1/16-12	1"1/16-12	42	92	27	32
HA1238LL-1216	1"1/16-12	1"5/16-12	44,5	105	33	41
HA1238LL-1414	1"3/16-12	1"3/16-12	44	92	33	38
HA1238LL-1612	1"5/16-12	1"1/16-12	46	105	33	32
HA1238LL-1616	1"5/16-12	1"5/16-12	46	105	33	41
HA1238LL-1620	1"5/16-12	1"5/8-12	51	124	41	50
HA1238LL-2020	1"5/8-12	1"5/8-12	52	124	41	50
HA1238LL-2424	1"7/8-12	1"7/8-12	59	135	48	55



HA1239

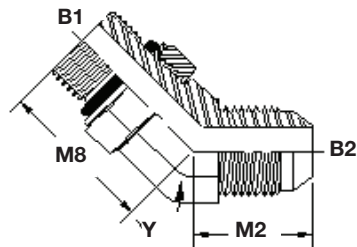
Adjustable MOR-FJX-90°
MOR-FJX-90° Adjustable



Code	B1 (male ORB) in.	B2 (female JIC Swivel) in.	M5 mm	M7 mm	Y FLATS mm
HA1239-04-04	7/16-20	7/16-20	25.40	26.16	11.13
HA1239-06-04	9/16-18	7/16-20	28.52	31.75	14.27
HA1239-06-06	9/16-18	9/16-18	31.75	31.75	14.27
HA1239-08-06	3/4-16	9/16-18	33.27	36.83	19.05
HA1239-08-08	3/4-16	3/4-16	35.05	36.83	19.05
HA1239-10-10	7/8-14	7/8-14	41.15	43.18	22.23
HA1239-12-08	1 1/16-12	3/4-16	39.12	49.28	26.97
HA1239-12-10	1 1/16-12	7/8-14	43.43	49.28	26.97
HA1239-12-12	1 1/16-12	1 1/16-12	44.45	49.28	26.97
HA1239-16-16	1 5/16-12	1 5/16-12	50.80	52.07	33.32
HA1239-20-20	1 5/8-12	1 5/8-12	58.42	57.40	44.45

HA1240

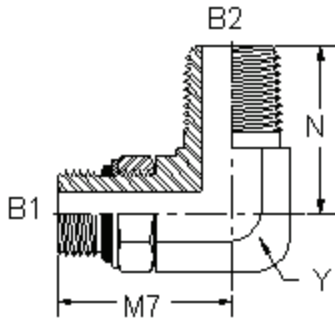
45° Adjustable MORB-MJIC
Coude 45° MORB - MJIC
Adjustable



Code	B2 (male JIC) in.	B1 (male ORB) in.	M2 mm	M8 mm	Y FLATS mm
HA1240-02-02	5/16-24	5/16-24	17.53	22.35	11.13
HA1240-04-04	7/16-20	7/16-20	18.29	26.67	11.13
HA1240-04-05	1/2-20	7/16-20	19.56	26.67	14.27
HA1240-04-06	9/16-18	7/16-20	21.08	27.43	14.27
HA1240-04-08	3/4-16	7/16-20	24.89	28.19	19.05
HA1240-05-04	7/16-20	1/2-20	19.56	26.67	14.27
HA1240-05-05	1/2-20	1/2-20	19.56	26.67	14.27
HA1240-05-06	9/16-18	1/2-20	21.08	27.43	14.27
HA1240-06-04	7/16-20	9/16-18	20.83	28.96	14.27
HA1240-06-05	1/2-20	9/16-18	20.83	28.96	14.27
HA1240-06-06	9/16-18	9/16-18	21.08	28.96	14.27
HA1240-06-08	3/4-16	9/16-18	24.89	29.72	19.05
HA1240-08-04	7/16-20	3/4-16	21.59	33.02	19.05
HA1240-08-06	9/16-18	3/4-16	22.10	33.02	19.05
HA1240-08-08	3/4-16	3/4-16	24.89	33.02	19.05
HA1240-08-10	7/8-14	3/4-16	28.19	34.54	22.23
HA1240-08-12	1 1/16-12	3/4-16	32.51	35.81	26.97
HA1240-10-06	9/16-18	7/8-14	22.35	38.61	22.23
HA1240-10-08	3/4-16	7/8-14	25.15	38.61	22.23
HA1240-10-10	7/8-14	7/8-14	28.19	38.61	22.23
HA1240-10-12	1 1/16-12	7/8-14	32.51	39.88	26.97
HA1240-12-06	9/16-18	1 1/16-12	23.62	43.94	26.97
HA1240-12-08	3/4-16	1 1/16-12	26.42	43.94	26.97
HA1240-12-10	7/8-14	1 1/16-12	29.46	43.94	26.97
HA1240-12-12	1 1/16-12	1 1/16-12	32.51	43.94	26.97
HA1240-12-16	1 5/16-12	1 1/16-12	37.34	47.24	33.32
HA1240-14-12	1 1/16-12	1 3/16-12	36.07	47.24	33.32
HA1240-14-14	1 3/16-12	1 3/16-12	36.83	47.24	33.32
HA1240-14-16	1 5/16-12	1 3/16-12	37.34	47.24	33.32
HA1240-16-12	1 1/16-12	1 5/16-12	36.07	47.24	33.32
HA1240-16-16	1 5/16-12	1 5/16-12	37.34	47.24	33.32
HA1240-16-20	1 5/8-12	1 5/16-12	40.39	48.51	41.28
HA1240-20-16	1 5/16-12	1 5/8-12	39.12	48.51	41.28
HA1240-20-20	1 5/8-12	1 5/8-12	40.39	48.51	41.28
HA1240-20-24	1 7/8-12	1 5/8-12	45.21	48.51	47.63
HA1240-24-20	1 5/8-12	1 7/8-12	41.91	48.51	47.63
HA1240-24-24	1 7/8-12	1 7/8-12	47.63	59.18	65.79
HA1240-32-32	2 1/2-12	2 1/2-12	63.50	77.72	85.85

HA1263

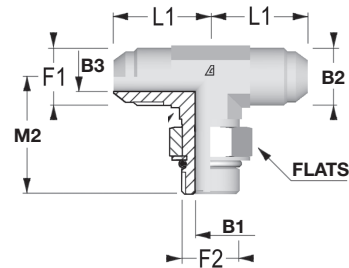
Adjustable MORB-MP 90°
MORB-MP 90° Ajustable



Code	B1 (Male ORB) in.	B2 (Male NPTF) in.	M7 mm	N mm	Y FLATS mm
HA1263-04-02	7/16-20	1/8-27	26.16	19.81	11.13
HA1263-04-04	7/16-20	1/4-18	27.69	27.69	14.27
HA1263-04-06	7/16-20	3/8-18	30.23	30.99	19.05
HA1263-05-02	1/2-20	1/8-27	28.70	19.81	14.27
HA1263-06-04	9/16-18	1/4-18	31.75	27.69	14.27
HA1263-06-06	9/16-18	3/8-18	34.29	30.99	19.05
HA1263-08-06	3/4-16	3/8-18	36.83	30.99	19.05
HA1263-08-08	3/4-16	1/2-14	38.61	37.34	22.23
HA1263-10-08	7/8-14	1/2-14	43.18	37.34	22.23
HA1263-12-12	1 1/16-12	3/4-14	49.28	40.39	26.97
HA1263-12-16	1 1/6-12	1-11 1/2	52.32	49.78	33.32
HA1263-14-12	1 3/16-12	3/4-14	50.80	42.93	33.32
HA1263-16-12	1 5/16-12	3/4-14	52.07	45.21	33.32
HA1263-16-16	1 5/16-12	1-11 1/2	52.07	50.04	33.32
HA1263-20-20	1 5/8-12	1 1/4-11 1/2	57.15	60.45	41.28
HA1263-24-24	1 7/8-12	1 1/2-11 1/2	60.71	67.06	47.63
HA1263-32-32	2 1/2-12	2-11 1/2	73.41	76.20	63.50

HA1265

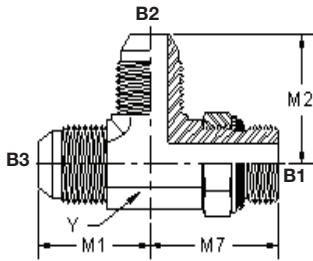
Adjustable Branch Male
Tee MORB - JIC
TE MORB - JIC Ajustable



Code	B1 (male ORB) in.	B2 (male JIC) in.	B3 (male JIC) in.	M1 mm	M2 mm	M7 mm	FLATS mm
HA1265-04-04-04	7/16-20	7/16-20	7/16-20	22.61	22.61	23.88	11.13
HA1265-05-05-05	1/2-20	1/2-20	1/2-20	24.13	24.13	28.70	14.27
HA1265-06-06-06	9/16-18	9/16-18	9/16-18	26.92	26.92	31.75	14.27
HA1265-08-08-08	3/4-16	3/4-16	3/4-16	31.75	31.75	36.83	19.05
HA1265-10-10-10	7/8-14	7/8-14	7/8-14	36.83	36.83	43.18	22.23
HA1265-12-12-12	1 1/16-12	1 1/16-12	1 1/16-12	42.16	42.16	49.28	26.97
HA1265-14-14-14	1 3/16-12	1 3/16-12	1 3/16-12	45.72	45.72	50.80	33.32
HA1265-16-16-16	1 5/16-12	1 5/16-12	1 5/16-12	45.97	45.97	52.07	33.32
HA1265-20-20-20	1 5/8-12	1 5/8-12	1 5/8-12	52.32	52.32	57.15	41.28
HA1265-24-24-24	1 5/8-12	1 5/8-12	1 5/8-12	59.18	59.18	60.71	47.63
HA1265-32-32-32	1 7/8-12	1 7/8-12	1 7/8-12	73.41	73.41	77.72	63.50

HA1266

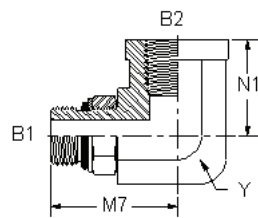
Adjustable Run Tee
MORB - JIC
TE MORB - JIC Ajustable



Code	B1 (male ORB) in.	B2 (male JIC) in.	B3 (male JIC) in.	M1 mm	M2 mm	M7 mm	Y FLATS mm
HA1266-02-02-02	7/16-20	7/16-20	7/16-20	22.61	22.61	26.16	11.13
HA1266-04-06-06	7/16-20	9/16-18	9/16-18	26.67	26.92	31.75	14.27
HA1266-05-05-05	1/2-20	1/2-20	1/2-20	24.13	24.13	28.70	14.27
HA1266-06-06-06	9/16-18	9/16-18	9/16-18	26.92	26.92	31.75	14.27
HA1266-06-06-08	9/16-18	9/16-18	3/4-16	28.96	31.75	33.53	19.05
HA1266-08-08-08	3/4-16	3/4-16	3/4-16	31.75	31.75	36.83	19.05
HA1266-10-10-10	7/8-14	7/8-14	7/8-14	36.83	36.83	43.18	22.23
HA1266-12-12-12	1 1/16-12	1 1/16-12	1 1/16-12	42.16	42.16	49.28	26.97
HA1266-14-14-14	1 3/16-12	1 3/16-12	1 3/16-12	45.72	45.72	50.80	33.32
HA1266-16-16-16	1 5/16-12	1 5/16-12	1 5/16-12	45.97	45.97	52.07	33.32
HA1266-20-20-20	1 5/8-12	1 5/8-12	1 5/8-12	52.32	52.32	57.15	41.28
HA1266-24-24-24	1 7/8-12	1 7/8-12	1 7/8-12	59.18	59.18	60.71	47.63
HA1266-32-32-32	2 1/2-12	2 1/2-12	2 1/2-12	77.72	77.72	73.41	63.50

HA1269

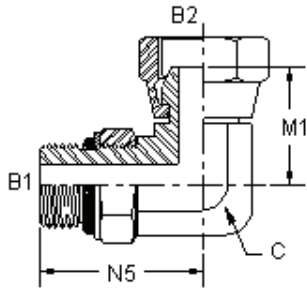
Adjustable MORB-FP 90°
MORB-FP 90° Ajustable



Code	B1 (male ORB) in.	B2 (female NPTF) in.	M7 mm	N1 mm	Y FLATS mm
HA1269-04-02	7/16-20	1/8-27	27.69	16.76	14.27
HA1269-04-04	7/16-20	1/4-18	29.46	22.10	19.05
HA1269-05-02	1/2-20	1/8-27	28.70	16.76	14.27
HA1269-06-04	9/16-18	1/4-18	33.27	22.35	19.05
HA1269-06-06	9/16-18	3/8-18	34.54	25.65	22.23
HA1269-08-06	3/4-16	3/8-18	37.59	25.91	22.23
HA1269-08-08	3/4-16	1/2-14	40.39	31.24	26.97
HA1269-10-06	7/8-14	3/8-18	42.16	25.91	22.23
HA1269-10-08	7/8-14	1/2-14	45.72	31.24	26.97
HA1269-12-08	1 1/16-12	1/2-14	49.28	31.50	26.97
HA1269-12-12	1 1/16-12	3/4-14	52.32	34.54	33.32
HA1269-14-12	1 3/16-12	3/4-14	52.32	36.07	33.32
HA1269-16-12	1 5/16-12	3/4-14	51.56	34.80	33.32
HA1269-16-16	1 5/16-12	1-11 1/2	55.12	41.40	41.28
HA1269-20-20	1 5/8-12	1 1/4-11 1/2	60.45	43.18	47.63
HA1269-24-24	1 7/8-12	1 1/2-11 1/2	65.53	52.83	65.07
HA1269-32-32	2 1/2-12	2-11 1/2	76.71	60.71	71.42

HA1271

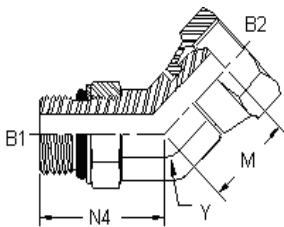
Adjustable MORB-FPX 90°
MORB-FPX 90° Adjustable



Code	B1 (Male ORB) in.	B2 (Female NPSM SW) in.	N5 mm	M1 mm	C FLATS mm
HA1271-04-04	7/16-20	1/4-18	26.16	20.07	11.13
HA1271-04-06	7/16-20	3/8-18	31.75	23.62	14.27
HA1271-05-04	1/2-20	1/4-18	28.70	20.07	14.27
HA1271-06-04	9/16-18	1/4-18	31.75	22.35	14.27
HA1271-06-06	9/16-18	3/8-18	31.75	22.86	14.27
HA1271-06-08	9/16-18	1/2-14	34.54	26.42	19.05
HA1271-08-06	3/4-16	3/8-18	36.83	25.15	19.05
HA1271-08-08	3/4-16	1/2-14	36.83	26.42	19.05
HA1271-08-12	3/4-16	3/4-14	41.15	33.02	26.97
HA1271-10-06	7/8-14	3/8-18	43.18	26.92	22.23
HA1271-10-12	7/8-14	3/4-14	45.21	28.19	22.23
HA1271-12-08	1 1/16-12	1/2-14	49.28	33.02	26.97
HA1271-12-12	1 1/16-12	3/4-14	49.28	37.85	26.97
HA1271-12-16	1 1/16-12	1-11 1/2	51.31	33.02	26.97
HA1271-14-12	1 3/16-12	3/4-14	48.79	39.12	33.32
HA1271-14-16	1 3/16-12	1-11 1/2	52.07	33.02	31.75
HA1271-16-12	1 5/16-12	3/4-14	52.07	39.12	33.32
HA1271-16-16	1 5/16-12	1-11 1/2	52.07	35.56	33.32
HA1271-16-20	1 5/16-12	1 1/4-11 1/2	57.15	39.12	33.32
HA1271-20-12	1 5/8-12	3/4-14	63.09	43.94	41.28
HA1271-20-16	1 5/8-12	1-11 1/2	57.15	39.67	41.28
HA1271-20-20	1 5/8-12	1 1/4-11 1/2	57.15	44.45	41.28
HA1271-24-24	1 7/8-12	1 1/2-11 1/2	66.27	43.94	41.28
HA1271-32-32	2 1/2-12	2-11 1/2	82.55	44.04	53.98

HA1272

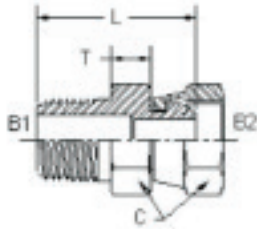
Adjustable O'Ring
BOSS - Female
Pipe 45°
MORB-FPS 45°
Ajustable



Code	B1 (Male ORB) in.	B2 (Female.NPSM) in.	N4 mm	M mm	Y FLATS mm
HA1272-04-04	7/16-20	1/4-18	26.67	15.49	11.13
HA1272-04-06	7/16-20	3/8-18	26.97	19.81	14.27
HA1272-06-04	9/16-18	1/4-18	28.96	20.57	14.27
HA1272-06-06	9/16-18	3/8-18	28.96	21.08	14.27
HA1272-06-08	9/16-18	1/2-14	29.72	22.61	19.05
HA1272-08-04	3/4-16	1/4-18	33.02	20.57	19.05
HA1272-08-06	3/4-16	3/8-18	33.02	20.83	19.05
HA1272-08-08	3/4-16	1/2-14	33.02	22.61	19.05
HA1272-08-12	3/4-16	3/4-14	30.99	26.67	22.23
HA1272-10-06	7/8-14	3/8-18	38.61	20.57	22.23
HA1272-10-08	7/8-14	1/2-14	38.61	19.84	22.23
HA1272-10-12	7/8-14	3/4-14	34.52	26.67	22.23
HA1272-12-06	1 1/16-12	3/8-18	43.94	25.91	26.97
HA1272-12-08	1 1/16-12	1/2-14	43.94	26.67	26.97
HA1272-12-12	1 1/16-12	3/4-14	43.94	25.91	26.97
HA1272-12-16	1 1/16-12	1-11 1/2	42.67	26.67	33.32
HA1272-16-12	1 5/16-12	3/4-14	47.24	28.45	33.32
HA1272-16-16	1 5/16-12	1-11 1/2	47.24	29.21	33.32
HA1272-16-20	1 5/16-12	1 1/4-11 1/2	46.99	30.48	41.28
HA1272-20-16	1 5/8-12	1-11 1/2	46.74	36.83	41.28
HA1272-20-20	1 5/8-12	1 1/4-11 1/2	48.51	31.24	41.28
HA1272-24-24	1 7/8-12	1 1/2-11 1/2	66.27	34.11	47.63

HA1210

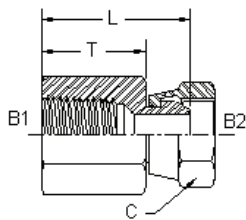
MP-FPX Straight Swivel
MP-FPX Droit tournant



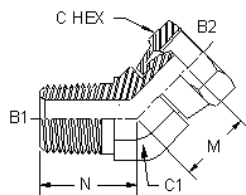
Code	B1(male NPTF) in.	B2 (female NPSM Swivel) in.	C HEX mm	L mm	T mm
HA1210-02-02	1/8-27	1/8-27	14.27	23.88	4.57
HA1210-02-04	1/8-27	1/4-18	17.48	25.40	4.65
HA1210-04-02	1/4-18	1/8-27	17.48	30.15	6.43
HA1210-04-04	1/4-18	1/4-18	17.48	31.75	6.10
HA1210-04-06	1/4-18	3/8-18	22.22	31.75	6.43
HA1210-04-08	1/4-18	1/2-14	25.40	36.17	9.40
HA1210-06-04	3/8-18	1/4-18	22.22	33.27	7.95
HA1210-06-06	3/8-18	3/8-18	22.22	33.02	7.62
HA1210-06-08	3/8-18	1/2-14	25.40	39.88	6.76
HA1210-08-04	1/2-14	1/4-18	25.40	38.89	9.40
HA1210-08-06	1/2-14	3/8-18	25.40	40.39	10.24
HA1210-08-08	1/2-14	1/2-14	25.40	39.88	9.40
HA1210-08-12	1/2-14	3/4-14	31.75	41.40	9.93
HA1210-12-06	3/4-14	3/8-18	31.75	39.37	9.40
HA1210-12-08	3/4-14	1/2-14	31.75	42.16	9.80
HA1210-12-12	3/4-14	3/4-14	31.75	44.45	9.40
HA1210-12-16	3/4-14	1-11 1/2	38.10	46.02	10.92
HA1210-12-20	3/4-14	1 1/4-11 1/2	47.63	46.74	12.45
HA1210-16-06	1-11 1/2	3/8-18	38.10	46.48	10.92
HA1210-16-08	1-11 1/2	1/2-14	38.10	45.97	10.92
HA1210-16-12	1-11 1/2	3/4-14	38.10	58.17	10.92
HA1210-16-16	1-11 1/2	1-11 1/2	38.10	50.80	10.92
HA1210-16-20	1-11 1/2	1 1/4-11 1/2	47.63	52.07	12.45
HA1210-20-16	1 1/4-11 1/2	1-11 1/2	47.63	51.23	12.45
HA1210-20-20	1 1/4-11 1/2	1 1/4-11 1/2	47.63	55.37	12.45
HA1210-20-24	1 1/4-11 1/2	1 1/2-11 1/2	53.97	56.39	12.45
HA1210-24-20	1 1/2-11 1/2	1 1/4-11 1/2	53.97	53.85	12.45
HA1210-24-24	1 1/2-11 1/2	1 1/2-11 1/2	53.97	58.67	12.45
HA1210-32-32	2-11 1/2	2-11 1/2	66.68	60.45	15.49

HA1212

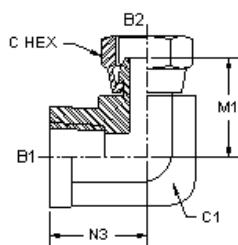
FP-FPX Straight
FP-FPX Droit



Code	B1(female NPTF) in.	B2 (female NPSM Swivel) in.	CHEX mm	T mm	L mm
HA1212-02-02	1/8-27	1/8-27	14.27	12.17	22.35
HA1212-02-04	1/8-27	1/4-18	17.48	20.62	32.00
HA1212-04-02	1/4-18	1/8-27	17.48	20.62	29.72
HA1212-04-04	1/4-18	1/4-18	17.48	20.62	31.75
HA1212-04-06	1/4-18	3/8-18	22.22	20.62	31.75
HA1212-06-04	3/8-18	1/4-18	22.22	22.22	33.32
HA1212-06-06	3/8-18	3/8-18	22.22	22.22	33.27
HA1212-06-08	3/8-18	1/2-14	25.40	22.22	35.05
HA1212-08-04	1/2-14	1/4-18	25.40	28.45	39.37
HA1212-08-06	1/2-14	3/8-18	25.40	26.31	36.91
HA1212-08-08	1/2-14	1/2-14	25.40	25.78	38.10
HA1212-08-12	1/2-14	3/4-14	31.75	25.78	41.15
HA1212-12-08	3/4-14	1/2-14	31.75	25.98	38.86
HA1212-12-12	3/4-14	3/4-14	31.75	25.78	41.15
HA1212-12-16	3/4-14	1-11 1/2	38.10	32.03	46.48
HA1212-16-12	1-11 1/2	3/4-14	38.10	32.03	48.77
HA1212-16-16	1-11 1/2	1-11 1/2	38.10	34.93	50.80
HA1212-20-20	1 1/4-11 1/2	1 1/4-11 1/2	47.63	32.54	50.80
HA1212-24-24	1 1/2-11 1/2	1 1/2-11 1/2	53.97	33.32	50.80
HA1212-32-32	2-11 1/2	2-11 1/2	66.68	34.93	53.85

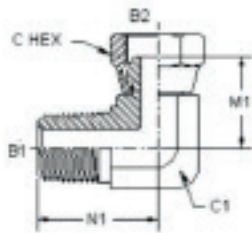
HA1214
MP-FPX 45°
MP-FPX 45°

Code	B1 (male NPTF) in.	B2 (female NPSM Swivel) in.	CHEX mm	C1 FLATS mm	N mm	M mm
HA1214-02-02	1/8-27	1/8-27	14.27	11.13	15.75	12.70
HA1214-02-04	1/8-27	1/4-18	17.48	14.27	16.00	18.54
HA1214-04-02	1/4-18	1/8-27	14.27	14.27	21.84	14.22
HA1214-04-04	1/4-18	1/4-18	17.48	14.27	21.84	18.54
HA1214-04-06	1/4-18	3/8-18	22.22	19.05	23.11	20.57
HA1214-06-04	3/8-18	1/4-18	17.48	19.05	24.13	20.07
HA1214-06-06	3/8-18	3/8-18	22.22	19.05	24.13	20.57
HA1214-06-08	3/8-18	1/2-14	25.40	22.23	24.89	22.35
HA1214-08-06	1/2-14	3/8-18	22.22	22.23	29.72	20.57
HA1214-08-08	1/2-14	1/2-14	25.40	22.23	29.72	22.35
HA1214-08-12	1/2-14	3/4-14	31.75	26.97	30.48	25.91
HA1214-12-06	3/4-14	3/8-18	22.22	26.97	30.48	25.40
HA1214-12-08	3/4-14	1/2-14	25.40	26.97	30.48	25.91
HA1214-12-12	3/4-14	3/4-14	31.75	26.97	30.48	25.91
HA1214-12-16	3/4-14	1-11 1/2	38.10	33.32	32.77	29.21
HA1214-16-12	1-11 1/2	3/4-14	31.75	33.32	37.59	25.65
HA1214-16-16	1-11 1/2	1-11 1/2	38.10	33.32	37.59	29.21
HA1214-16-20	1-11 1/2	1 1/4-11 1/2	47.63	41.28	41.66	31.24
HA1214-20-16	1 1/4-11 1/2	1-11 1/2	38.10	41.28	42.42	30.48
HA1214-20-20	1 1/4-11 1/2	1 1/4-11 1/2	47.63	41.28	42.42	31.24
HA1214-24-24	1 1/2-11 1/2	1 1/2-11 1/2	53.97	47.63	44.96	34.29
HA1214-32-32	2-11 1/2	2-11 1/2	66.68	63.50	53.59	37.08

HA1216
FP-FPX 90°
FP-FPX 90°

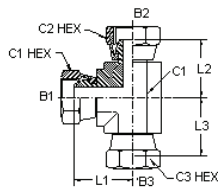
Code	B1 (female NPTF) in.	B2 (female NPSM Swivel) in.	C HEX mm	C1 FLATS mm	N3 mm	M1 mm
HA1216-02-02	1/8-27	1/8-27	14.27	11.13	16.76	17.45
HA1216-02-04	1/8-27	1/4-18	17.48	14.27	9.84	17.53
HA1216-04-02	1/4-18	1/8-27	14.27	14.27	22.35	19.05
HA1216-04-04	1/4-18	1/4-18	17.48	14.27	22.35	22.36
HA1216-04-06	1/4-18	3/8-18	22.23	19.05	22.35	26.93
HA1216-06-04	3/8-18	1/4-18	17.48	19.05	25.91	26.42
HA1216-06-06	3/8-18	3/8-18	22.23	19.05	25.91	26.92
HA1216-06-08	3/8-18	1/2-14	25.40	22.23	25.40	31.75
HA1216-08-04	1/2-14	1/4-18	17.48	22.23	31.24	26.42
HA1216-08-06	1/2-14	3/8-18	22.23	22.23	31.24	26.92
HA1216-08-08	1/2-14	1/2-14	25.40	22.23	31.24	31.50
HA1216-08-12	1/2-14	3/4-14	31.75	26.97	31.75	6.50
HA1216-12-08	3/4-14	1/2-14	25.40	26.97	28.58	6.50
HA1216-12-12	3/4-14	3/4-14	31.75	26.97	34.54	37.39
HA1216-12-16	3/4-14	1-11 1/2	38.10	33.32	31.75	44.45
HA1216-16-12	1-11 1/2	3/4-14	31.75	33.32	34.93	44.45
HA1216-16-16	1-11 1/2	1-11 1/2	38.10	33.32	41.15	43.94
HA1216-20-16	1 1/4-11 1/2	1-11 1/2	38.10	41.28	1.30	50.80
HA1216-20-20	1 1/4-11 1/2	1 1/4-11 1/2	47.63	41.28	43.18	46.48
HA1216-24-24	1 1/2-11 1/2	1 1/2-11 1/2	53.98	47.63	52.83	61.21
HA1216-32-32	2-11 1/2	2-11 1/2	66.68	63.50	60.70	65.28

HA1218 MP-FPX 90° MP-FPX 90°



Code	B1 (male NPTF) in.	B2 (female NPSM Swivel) in.	C HEX mm	C1 FLATS mm	N1 mm	M1 mm
HA1218-02-02	1/8-27	1/8-27	14.27	11.13	18.29	17.78
HA1218-02-04	1/8-27	1/4-18	17.48	14.27	22.86	22.35
HA1218-04-02	1/4-18	1/8-27	14.27	14.27	27.69	17.78
HA1218-04-04	1/4-18	1/4-18	17.48	14.27	27.69	22.35
HA1218-04-06	1/4-18	3/8-18	22.23	19.05	30.99	25.15
HA1218-06-04	3/8-18	1/4-18	17.48	19.05	30.99	24.64
HA1218-06-06	3/8-18	3/8-18	22.23	19.05	30.99	25.15
HA1218-06-08	3/8-18	1/2-14	25.40	22.23	32.51	28.20
HA1218-06-12	3/8-18	3/4-14	31.75	31.75	33.53	33.02
HA1218-08-04	1/2-14	1/4-18	17.48	22.23	37.34	25.91
HA1218-08-06	1/2-14	3/8-18	22.23	22.23	37.34	26.42
HA1218-08-08	1/2-14	1/2-14	25.40	22.23	37.34	28.19
HA1218-08-12	1/2-14	3/4-14	31.75	26.97	40.39	33.02
HA1218-12-04	3/4-14	1/4-18	17.48	26.97	40.39	35.56
HA1218-12-06	3/4-14	3/8-18	22.23	26.97	40.39	27.43
HA1218-12-08	3/4-14	1/2-14	25.40	26.97	40.39	33.79
HA1218-12-12	3/4-14	3/4-14	31.75	26.97	40.39	33.02
HA1218-12-16	3/4-14	1-11 1/2	38.10	33.32	45.21	39.12
HA1218-12-20	3/4-14	1 1/4-11 1/2	47.63	47.63	60.20	43.94
HA1218-16-08	1-11 1/2	1/2-14	25.4	33.32	50.04	34.80
HA1218-16-12	1-11 1/2	3/4-14	31.75	33.32	50.04	35.56
HA1218-16-16	1-11 1/2	1-11 1/2	38.10	33.32	50.04	39.12
HA1218-16-20	1-11 1/2	1 1/4-11 1/2	47.63	41.28	59.69	43.94
HA1218-20-12	1 1/4-11 1/2	3/4-14	31.75	41.28	60.45	39.88
HA1218-20-16	1 1/4-11 1/2	1-11 1/2	38.10	41.28	60.45	43.18
HA1218-20-20	1 1/4-11 1/2	1 1/4-11 1/2	47.63	41.28	60.45	43.94
HA1218-20-24	1 1/4-11 1/2	1 1/2-11 1/2	53.98	47.63	64.26	43.69
HA1218-24-20	1 1/2-11 1/2	1 1/4-11 1/2	47.63	47.63	67.06	44.96
HA1218-24-24	1 1/2-11 1/2	1 1/2-11 1/2	53.98	47.63	67.06	48.01
HA1218-32-32	2-11 1/2	2-11 1/2	66.68	63.5	76.20	576.58

HA1223 FPX-FPX-FPX-T FPX-FPX-FPX-T

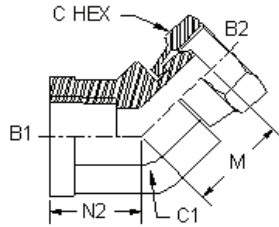


Code	B1 (female NPSM swivel) in.	B2 (female NPSM swivel) in.	B3 (female NPSM swivel) in.	C HEX mm	C2 HEX mm	C3 HEX mm	C1 FLATS mm	L1 mm	L2 mm	L3 mm
HA1223-02-02-02	1/8-27	1/8-14	1/8-27	13.77	13.77	13.77	10.73	17.15	17.15	17.15
HA1223-04-04-04	1/4-18	1/4-18	1/4-18	16.86	16.86	16.86	13.77	21.56	21.56	21.56
HA1223-04-04-06	1/4-18	1/4-18	3/8-18	16.86	16.86	21.44	21.44	21.51	21.51	23.50
HA1223-06-06-06	3/8-18	3/8-18	3/8-18	21.44	21.44	21.44	18.38	24.26	24.26	24.26
HA1223-06-06-08	3/8-18	3/8-18	1/2-14	21.44	21.44	24.50	24.50	23.25	23.25	26.83
HA1223-08-06-08	1/2-14	3/8-18	1/2-14	24.50	21.44	24.50	21.44	27.20	25.48	27.20
HA1223-08-08-08	1/2-14	1/2-14	1/2-14	24.50	24.50	24.50	21.44	27.20	27.20	27.20
HA1223-12-12-12	3/4-14	3/4-14	3/4-14	30.63	30.63	30.63	30.63	34.20	34.20	34.20
HA1223-16-16-16	1-11 1/2	1-11 1/2	1-11 1/2	36.75	36.75	36.75	32.14	37.73	37.73	37.73
HA1223-20-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	45.94	45.94	45.94	39.81	42.39	42.39	42.39

SWIVEL NPT

HA1249

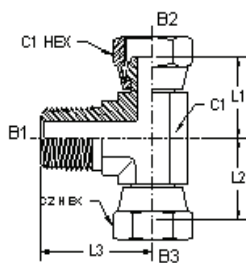
FP-FPX 45°
FP-FPX 45°



Code	B1 (female NPTF) in.	B2 (female NPSM swivel) in.	C HEX mm	C1 FLATS mm	N2 mm	M mm
HA1249-02-02	1/8-27	1/8-27	14.27	14.27	12.70	11.68
HA1249-02-04	1/8-27	1/4-18	17.48	19.05	12.70	14.22
HA1249-04-04	1/4-18	1/4-18	17.48	19.05	17.53	20.57
HA1249-04-06	1/4-18	3/8-18	22.23	22.23	18.64	25.50
HA1249-06-04	3/8-18	1/4-18	17.48	22.23	19.05	21.84
HA1249-06-06	3/8-18	3/8-18	22.23	22.23	19.05	22.35
HA1249-06-08	3/8-18	1/2-14	25.40	26.97	19.84	26.97
HA1249-08-06	1/2-14	3/8-18	22.23	26.97	23.88	24.13
HA1249-08-08	1/2-14	1/2-14	25.40	26.97	23.88	25.91
HA1249-12-12	3/4-14	3/4-14	31.75	33.32	25.40	25.65
HA1249-16-12	1-11 1/2	3/4-14	31.75	41.28	30.23	27.69
HA1249-16-16	1-11 1/2	1-11 1/2	38.10	41.28	30.23	31.24
HA1249-20-20	1 1/4-11 1/2	1 1/4-11 1/2	47.63	47.63	36.58	34.29
HA1249-24-24	1 1/2-11 1/2	1 1/2-11 1/2	53.98	53.98	31.75	49.99

HA1258

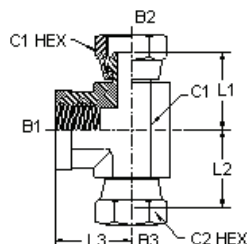
MP-FPX-FPX Tee
TE MP-FPX-FPX



Code	B1 (male NPTF) in.	B2 (female NPSM swivel) in.	B3 (female NPSM swivel) in.	C1 HEX mm	C2 HEX mm	C1 FLATS mm	L1 mm	L2 mm	L3 mm
HA1258-02-02-02	1/8-27	1/8-27	1/8-27	14.27	14.27	11.13	17.78	17.78	18.29
HA1258-02-04-04	1/8-27	1/4-18	1/4-18	17.48	17.48	14.27	18.08	18.08	30.23
HA1258-04-04-04	1/4-18	1/4-18	1/4-18	17.48	17.48	14.27	22.35	22.35	27.69
HA1258-04-06-06	1/4-18	3/8-18	3/8-18	22.23	22.23	19.05	25.15	25.15	30.99
HA1258-06-04-04	3/8-18	1/4-18	1/4-18	17.48	17.48	19.05	24.64	24.64	30.99
HA1258-06-06-06	3/8-18	3/8-18	3/8-18	22.23	22.23	19.05	25.15	25.15	30.99
HA1258-08-04-04	1/2-14	1/4-18	1/4-18	17.48	17.48	22.23	25.91	25.91	37.34
HA1258-08-06-06	1/2-14	3/8-18	3/8-18	22.23	22.23	22.23	26.42	26.42	37.34
HA1258-08-08-08	1/2-14	1/2-14	1/2-14	25.40	25.40	22.23	28.19	28.19	37.34
HA1258-12-08-08	3/4-14	1/2-14	1/2-14	25.40	25.40	26.97	33.78	33.78	40.39
HA1258-12-16-16	3/4-14	1-11 1/2	1-11 1/2	38.10	38.10	33.32	39.12	39.12	45.21
HA1258-16-12-12	1-11 1/2	3/4-14	3/4-14	31.75	31.75	33.32	35.56	35.56	50.04
HA1258-16-16-12	1-11 1/2	1-11 1/2	3/4-14	38.10	31.75	33.32	35.56	35.56	50.04
HA1258-16-16-16	1-11 1/2	1-11 1/2	1-11 1/2	38.10	38.10	33.32	39.12	39.12	50.04
HA1258-20-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	47.63	47.63	41.28	43.94	43.94	60.45
HA1258-24-24-24	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	53.98	53.98	53.98	44.45	44.45	71.37

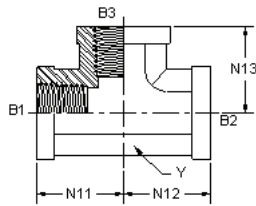
HA1259

FP-FPX-FPX Tee
TE FP-FPX-FPX



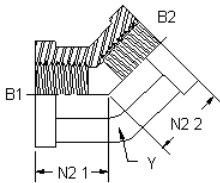
Code	B1 (female NPTF) in.	B2 (female NPSM swivel) in.	B3 (female NPSM swivel) in.	C1&C2 HEX mm	C1 FLATS mm	L1 mm	L2 mm	L3 mm
HA1259-02-02-02	1/8-27	1/8-27	1/8-27	14.27	14.27	20.32	20.32	16.76
HA1259-04-04-04	1/4-18	1/4-18	1/4-18	17.48	17.48	25.15	25.15	22.35
HA1259-06-04-04	3/8-18	1/4-18	1/4-18	17.48	17.48	22.15	22.15	26.97
HA1259-06-06-06	3/8-18	3/8-18	3/8-18	22.23	22.23	26.92	26.92	25.91
HA1259-08-06-06	1/2-14	3/8-18	3/8-18	22.23	25.40	29.72	29.72	31.24
HA1259-08-08-08	1/2-14	1/2-14	1/2-14	25.40	25.40	31.50	31.50	31.24
HA1259-08-12-12	1/2-14	3/4-14	3/4-14	31.75	31.75	36.50	36.50	31.75
HA1259-12-08-08	3/4-14	1/2-14	1/2-14	25.40	25.40	38.10	38.10	34.54
HA1259-12-12-12	3/4-14	3/4-14	3/4-14	31.75	31.75	36.50	36.50	31.75
HA1259-16-12-12	1-11 1/2	3/4-14	3/4-14	31.75	31.75	34.93	34.93	44.45
HA1259-16-16-16	1-11 1/2	1-11 1/2	1-11 1/2	38.10	38.10	43.94	43.94	41.15
HA1259-20-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	47.63	47.63	46.48	46.48	43.18

HA1225 FP-FP-FP Tee FP-FP-FP TE



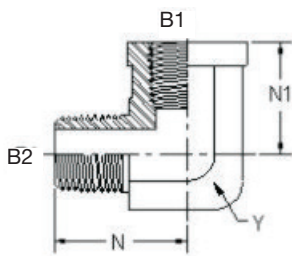
Code	B1 (female NPTF) in.	B2 (female NPTF) in.	B3 (female NPTF) in.	Y FLATS mm	N11 mm	N12 mm	N13 mm
HA1225-02-02-02	1/8-27	1/8-27	1/8-27	14.27	16.76	16.76	16.76
HA1225-04-04-04	1/4-18	1/4-18	1/4-18	19.05	22.35	22.35	22.35
HA1225-06-06-06	3/8-18	3/8-18	3/8-18	28.58	28.96	28.96	28.96
HA1225-08-08-08	1/2-14	1/2-14	1/2-14	26.97	31.24	31.24	31.24
HA1225-12-12-12	3/4-14	3/4-14	3/4-14	33.32	34.54	34.54	34.54
HA1225-16-16-16	1-11 1/2	1-11 1/2	1-11 1/2	41.28	41.15	41.15	41.15
HA1225-20-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	47.63	43.18	43.18	43.18
HA1225-24-24-24	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	65.07	52.83	52.83	52.83
HA1225-32-32-32	2-11 1/2	2-11 1/2	2-11 1/2	73.03	60.71	60.71	60.71

HA1241 FP-FP 45° FP-FP 45°



Code	B1 (Female NPTF) in.	B2 (female NPTF) in.	Y FLATS mm	N21 mm	N22 mm
HA1241-02-02	1/8-27	1/8-27	14.27	12.95	12.95
HA1241-04-04	1/4-18	1/4-18	19.05	17.53	17.53
HA1241-06-06	3/8-18	3/8-18	22.23	19.05	19.05
HA1241-08-08	1/2-14	1/2-14	26.97	23.88	23.88
HA1241-12-12	3/4-14	3/4-14	33.32	25.40	25.40
HA1241-16-16	1-11 1/2	1-11 1/2	41.28	30.23	30.23
HA1241-20-20	1 1/4-11 1/2	1 1/4-11 1/2	47.63	36.58	36.58

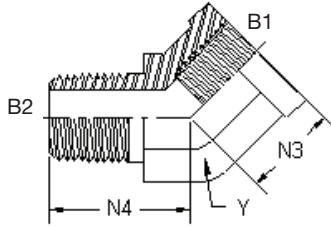
HA1243 FP - MP 90° Street Elbow FP - MP 90° Coude



Code	B1 (female NPTF) in.	B2 (male NPTF) in.	Y FLATS mm	N mm	N1 mm
HA1243-02-02	1/8-27	1/8-27	14.27	19.81	16.76
HA1243-04-02	1/4-18	1/8-27	19.05	22.86	22.35
HA1243-06-02	3/8-18	1/8-27	22.23	25.40	25.91
HA1243-02-04	1/8-27	1/4-18	19.05	27.69	17.02
HA1243-04-04	1/4-18	1/4-18	19.05	27.69	22.35
HA1243-06-04	3/8-18	1/4-18	22.23	30.29	25.91
HA1243-08-04	1/2-14	1/4-18	26.97	32.51	31.24
HA1243-02-06	1/8-27	3/8-18	22.23	30.29	20.32
HA1243-04-06	1/4-18	3/8-18	22.23	30.29	25.65
HA1243-06-06	3/8-18	3/8-18	22.23	30.29	25.91
HA1243-08-06	1/2-14	3/8-18	26.97	32.51	31.24
HA1243-04-08	1/4-18	1/2-14	22.23	37.34	25.40
HA1243-06-08	3/8-18	1/2-14	22.23	37.34	25.91
HA1243-08-08	1/2-14	1/2-14	26.97	37.34	31.24
HA1243-12-08	3/4-14	1/2-14	33.32	40.39	34.54
HA1243-06-12	3/8-18	3/4-14	31.75	40.39	28.70
HA1243-08-12	1/2-14	3/4-14	26.97	40.39	31.24
HA1243-12-12	3/4-14	3/4-14	33.32	40.39	34.54
HA1243-16-12	1-11 1/2	3/4-14	41.28	43.43	41.15
HA1243-12-16	3/4-14	1-11 1/2	33.32	50.04	35.31
HA1243-16-16	1-11 1/2	1-11 1/2	41.28	50.04	41.15
HA1243-20-16	1 1/4-11 1/2	1-11 1/2	41.28	54.86	43.18
HA1243-16-20	1-11 1/2	1 1/4-11 1/2	41.28	50.45	42.67
HA1243-20-20	1 1/4-11 1/2	1 1/4-11 1/2	47.63	50.45	43.18
HA1243-24-20	1 1/2-11 1/2	1 1/2-11 1/2	47.63	67.06	52.83
HA1243-24-24	1 1/2-11 1/2	1 1/2-11 1/2	65.07	67.06	52.83
HA1243-32-32	2-11 1/2	2-11 1/2	71.42	76.20	60.71

NPT**HA1244**

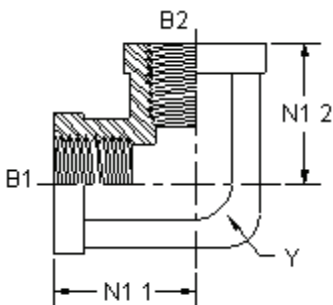
FP - MP 45° Street Elbow
FP - MP 45° Coude



Code	B1 (female NPTF) in.	B2 (male NPTF) in.	Y FLATS mm	N3 mm	N4 mm
HA1244-02-02	1/8-27	1/8-27	14.27	11.94	0.720
HA1244-04-02	1/4-18	1/8-27	19.05	16.26	0.825
HA1244-04-04	1/4-18	1/4-18	19.05	15.75	1.050
HA1244-06-06	3/8-18	3/8-18	22.23	18.29	1.060
HA1244-08-08	1/2-14	1/2-14	26.97	23.11	1.340
HA1244-12-12	3/4-14	3/4-14	33.32	24.64	1.380
HA1244-16-16	1-11 1/2	1-11 1/2	41.28	28.45	1.720
HA1244-20-20	1 1/4-11 1/2	1 1/4-11 1/2	47.63	41.40	1.800
HA1244-24-24	1 1/2-11 1/2	1 1/2-11 1/2	65.07	42.93	2.060

HA1245

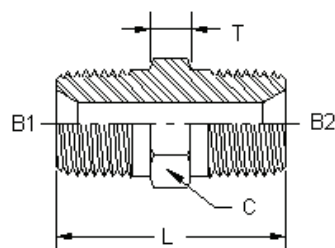
FP-FP 90° Street Elbow
FP-FP 90° Coude



Code	B1 (female NPTF) in.	B2 (Female NPTF) in.	Y FLATS mm	N11 mm	N12 mm
HA1245-02-02	1/8-27	1/8-27	14.27	16.76	16.76
HA1245-04-02	1/4-18	1/8-27	19.05	22.35	18.29
HA1245-04-04	1/4-18	1/4-18	19.05	22.35	22.35
HA1245-06-04	3/8-18	1/4-18	22.23	25.91	25.65
HA1245-06-06	3/8-18	3/8-18	22.23	25.91	25.91
HA1245-08-04	1/2-14	1/4-18	26.97	31.24	25.40
HA1245-08-06	1/2-14	3/8-18	26.97	31.24	25.65
HA1245-08-08	1/2-14	1/2-14	26.97	31.24	31.24
HA1245-12-06	3/4-14	3/8-18	28.70	34.54	34.29
HA1245-12-08	3/4-14	1/2-14	33.32	34.54	34.29
HA1245-12-12	3/4-14	3/4-14	33.32	34.54	34.54
HA1245-16-08	1-11 1/2	1/2-14	41.28	41.15	38.86
HA1245-16-12	1-11 1/2	3/4-14	41.28	41.15	35.31
HA1245-16-16	1-11 1/2	1-11 1/2	41.28	41.15	41.15
HA1245-20-20	1 1/4-11 1/2	1 1/4-11 1/2	47.63	43.18	43.18
HA1245-24-24	1 1/2-11 1/2	1 1/2-11 1/2	65.07	52.83	52.83
HA1245-32-32	2-11 1/2	2-11 1/2	73.03	60.71	60.71

HA1252

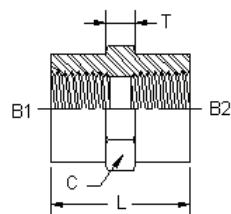
MP-MP HEX Nipple
Mamelon MP-MP-HEX



Code	B1 (male NPTF) in.	B2 (male NPTF) in.	C HEX mm	L mm	T mm
HA1252-02-02	1/8-27	1/8-27	11.13	26.92	5.59
HA1252-04-02	1/4-18	1/8-27	15.88	32.26	6.35
HA1252-04-04	1/4-18	1/4-18	15.88	36.83	6.35
HA1252-06-02	3/8-27	1/8-27	19.05	32.26	6.35
HA1252-06-04	3/8-18	1/4-18	19.05	36.83	6.35
HA1252-06-06	3/8-18	3/8-18	19.05	36.83	6.35
HA1252-08-04	1/2-14	1/4-18	22.23	43.18	7.90
HA1252-08-06	1/2-14	3/8-18	22.23	43.18	7.87
HA1252-08-08	1/2-14	1/2-14	22.23	48.01	7.87
HA1252-12-04	3/4-14	1/4-18	28.58	44.96	9.65
HA1252-12-06	3/4-14	3/8-18	28.58	44.96	9.65
HA1252-12-08	3/4-14	1/2-14	28.58	49.78	9.65
HA1252-12-12	3/4-14	3/4-14	28.58	49.78	9.65
HA1252-16-04	1-11 1/2	1/4-18	34.93	49.78	9.65
HA1252-16-06	1-11 1/2	3/8-18	34.93	50.04	9.65
HA1252-16-08	1-11 1/2	1/2-14	34.93	54.61	9.65
HA1252-16-12	1-11 1/2	3/4-14	34.93	54.61	9.65
HA1252-16-16	1-11 1/2	1-11 1/2	34.93	59.44	9.65
HA1252-20-12	1 1/4-11 1/2	3/4-14	44.45	61.21	11.68
HA1252-20-16	1 1/4-11 1/2	1-11 1/2	44.45	62.23	11.68
HA1252-20-20	1 1/4-11 1/2	1 1/4-11 1/2	44.45	62.99	11.68
HA1252-24-12	1 1/2-11 1/2	3/4-14	50.80	60.45	13.46
HA1252-24-16	1 1/2-11 1/2	1-11 1/2	50.80	65.02	13.46
HA1252-24-20	1 1/2-11 1/2	1 1/4-11 1/2	50.80	65.79	13.46
HA1252-24-24	1 1/2-11 1/2	1 1/2-11 1/2	50.80	66.29	13.46
HA1252-32-16	2-11 1/2	1-11 1/2	63.50	68.83	17.27
HA1252-32-20	2-11 1/2	1 1/4-11 1/2	63.50	70.10	17.27
HA1252-32-24	2-11 1/2	1 1/2-11 1/2	63.50	70.10	17.27
HA1252-32-32	2-11 1/2	2-11 1/2	63.50	71.63	17.27

HA1273

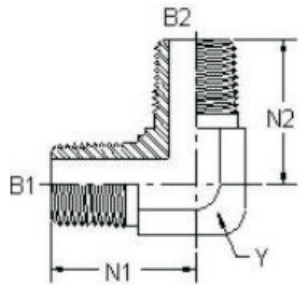
Female Pipe Straight
FP-FP Droit



Code	B1 (Female NPTF) in.	B2 (Female NPTF) in.	C HEX mm	L mm	T mm
HA1273-02-02	1/8-27	1/8-27	15.88	19.05	5.59
HA1273-04-02	1/4-18	1/8-27	19.05	28.70	6.35
HA1273-04-04	1/4-18	1/4-18	19.05	28.70	6.35
HA1273-06-02	3/8-18	1/8-27	22.23	28.70	6.35
HA1273-06-04	3/8-18	1/4-18	22.23	28.70	6.35
HA1273-06-06	3/8-18	3/8-18	22.23	28.70	6.35
HA1273-08-02	1/2-14	1/8-27	28.58	38.10	7.87
HA1273-08-04	1/2-14	1/4-18	28.58	38.10	7.87
HA1273-08-06	1/2-14	3/8-18	28.58	38.10	7.87
HA1273-08-08	1/2-14	1/2-14	28.58	38.10	7.87
HA1273-12-04	3/4-14	1/4-18	34.93	38.10	9.65
HA1273-12-06	3/4-14	3/8-18	34.93	38.86	9.65
HA1273-12-08	3/4-14	1/2-14	34.93	38.86	9.65
HA1273-12-12	3/4-14	3/4-14	34.93	38.86	8.13
HA1273-16-06	1-11 1/2	3/8-18	41.28	38.86	9.65
HA1273-16-08	1-11 1/2	1/2-14	41.28	48.01	15.75
HA1273-16-12	1-11 1/2	3/4-14	41.28	48.01	9.65
HA1273-16-16	1-11 1/2	1-11 1/2	41.28	48.01	9.65
HA1273-20-12	1 1/4-11 1/2	3/4-14	50.80	49.02	11.68
HA1273-20-16	1 1/4-11 1/2	1-11 1/2	50.80	49.02	11.68
HA1273-20-20	1 1/4-11 1/2	1 1/4-11 1/2	50.80	49.02	11.68
HA1273-24-16	1 1/2-11 1/2	1-11 1/2	60.33	49.02	13.46
HA1273-24-20	1 1/2-11 1/2	1 1/4-11 1/2	60.33	49.02	13.46
HA1273-24-24	1 1/2-11 1/2	1 1/2-11 1/2	60.33	49.02	13.46
HA1273-32-24	2-11 1/2	1 1/2-11 1/2	73.03	49.78	17.27
HA1273-32-32	2-11 1/2	2-11 1/2	73.03	49.78	17.27

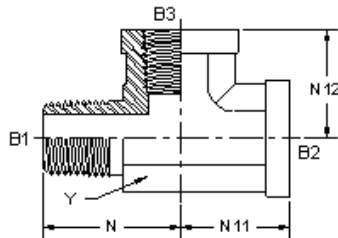
TUYAUX Hydraulique
TUYAUX PTFE
RACCORDS Standard
RACCORDS Interlock
RACCORDS Afacrimp
Accessoires
RACCORDS en Acier Inoxydable
ADAPTATEURS Standard
ADAPTATEURS ORFS
ADAPTATEURS MÉTRIQUE-BSP
SERTISSEUSES

HA1275

Male Pipe - Male Pipe 90°
MP-MP 90°

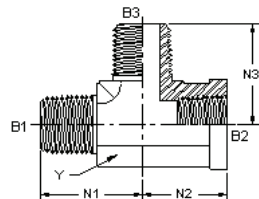
Code	B1 (male NPTF) in.	B2 (male NPTF) in.	Y FLATS mm	N1 mm	N2 mm
HA1275-02-02	1/8-27	1/8-27	11.13	19.81	19.81
HA1275-04-02	1/4-18	1/8-27	14.27	27.69	22.86
HA1275-04-04	1/4-18	1/4-18	14.27	27.69	27.69
HA1275-06-04	3/8-18	1/4-18	19.05	30.99	30.99
HA1275-06-06	3/8-18	3/8-18	19.05	30.99	30.99
HA1275-08-04	1/2-14	1/4-18	22.23	37.34	32.51
HA1275-08-06	1/2-14	3/8-18	22.23	37.34	32.51
HA1275-08-08	1/2-14	1/2-14	22.23	37.34	37.34
HA1275-12-08	3/4-14	1/2-14	26.97	40.39	40.39
HA1275-12-12	3/4-14	3/4-14	26.97	40.39	40.39
HA1275-16-08	1-11 1/2	1/2-14	33.32	50.04	45.21
HA1275-16-12	1-11 1/2	3/4-14	33.32	50.04	45.21
HA1275-16-16	1-11 1/2	1-11 1/2	33.32	50.04	50.04
HA1275-20-20	1 1/4-11 1/2	1 1/4-11 1/2	41.28	60.45	60.45
HA1275-24-24	1 1/2-11 1/2	1 1/2-11 1/2	47.63	67.06	67.06
HA1275-32-32	2-11-1/2	2-11-1/2	66.68	76.20	76.20

HA1276

Male Pipe - Female Pipe
Female Pipe Tee
MP-FP-FP TE

Code	B1 (male NPTF) in.	B2 (female NPTF) in.	B3 (female NPTF) in.	Y FLATS mm	N mm	N11 mm	N12 mm
HA1276-02-02-02	1/8-27	1/8-27	1/8-27	14.27	19.81	16.76	16.76
HA1276-02-04-04	1/8-27	1/4-18	1/4-18	19.05	22.86	22.35	22.35
HA1276-04-04-04	1/4-18	1/4-18	1/4-18	19.05	27.69	22.35	22.35
HA1276-06-06-06	3/8-18	3/8-18	3/8-18	22.23	30.99	25.91	25.91
HA1276-08-08-08	1/2-14	1/2-14	1/2-14	26.97	37.34	31.24	31.24
HA1276-12-12-12	3/4-14	3/4-14	3/4-14	33.32	40.39	34.54	34.54
HA1276-16-16-16	1-11 1/2	1-11 1/2	1-11 1/2	41.28	50.04	41.15	41.15
HA1276-20-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	47.63	60.45	43.18	43.18
HA1276-24-24-24	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	65.07	67.06	52.83	52.83
HA1276-32-32-32	2-11 1/2	2-11 1/2	2-11 1/2	73.03	76.20	60.71	60.71

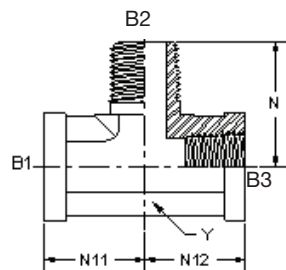
HA1277

Male Pipe - Male Pipe
Female Pipe Tee
MP-MP-FP TE

Code	TUBE OD in.	B1 (male NPTF) in.	B2 (female NPTF) in.	B3 (female NPTF) in.	Y FLATS mm	N1 mm	N2 mm	N3 mm
HA1277-02-02-02	1/8	1/8-27	1/8-27	1/8-27	14.27	19.81	16.76	19.81
HA1277-04-04-04	1/4	1/4-18	1/4-18	1/4-18	19.05	27.69	22.35	27.69
HA1277-06-06-06	3/8	3/8-18	3/8-18	3/8-18	22.23	30.99	25.91	30.99
HA1277-08-08-08	1/2	1/2-14	1/2-14	1/2-14	26.97	37.34	31.24	37.34
HA1277-12-12-12	3/4	3/4-14	3/4-14	3/4-14	33.32	40.39	34.54	40.39
HA1277-16-16-16	1	1-11 1/2	1-11 1/2	1-11 1/2	41.28	50.04	41.15	50.04
HA1277-20-20-20	1-1/4	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	47.63	60.45	43.18	60.45
HA1277-24-24-24	1-1/2	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	65.07	67.06	52.83	67.06

HA1278

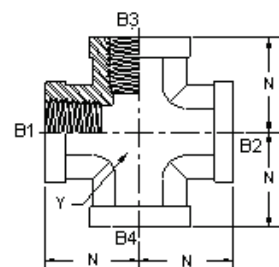
Female Pipe - Male Pipe
 Female Pipe Tee
 FP-MP-FP TE



Code	B1 (female NPTF) in.	B2 (male NPTF) in.	B3 (female NPTF) in.	Y FLATS mm	N11 mm	N12 mm	N mm
HA1278-02-02-02	1/8-27	1/8-27	1/8-27	14.27	16.76	16.76	19.81
HA1278-04-04-04	1/4-18	1/4-18	1/4-18	19.05	22.35	22.35	27.69
HA1278-06-06-06	3/8-18	3/8-18	3/8-18	22.23	25.91	25.91	30.99
HA1278-08-08-08	1/2-14	1/2-14	1/2-14	26.97	31.24	31.24	37.34
HA1278-12-12-08	3/4-14	3/4-14	1/2-14	34.93	34.80	34.80	42.93
HA1278-12-12-12	3/4-14	3/4-14	3/4-14	33.32	34.54	34.54	40.39
HA1278-16-16-16	1-11 1/2	1-11 1/2	1-11 1/2	41.28	41.15	41.15	50.04
HA1278-20-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	47.63	43.18	43.18	60.45
HA1278-24-24-24	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	65.07	52.83	52.83	67.06

HA1279

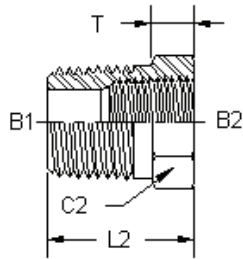
FP-FP-FP-FP Cross
 FP-FP-FP-FP Croix



Code	B1 (female NPTF) in.	B2 (female NPTF) in.	B3 (female NPTF) in.	B4 (female NPTF) in.	N mm	Y FLATS mm
HA1279-02-02-02-02	1/8-27	1/8-27	1/8-27	1/8-27	16.76	14.27
HA1279-04-04-04-04	1/4-18	1/4-18	1/4-18	1/4-18	22.35	19.05
HA1279-06-06-06-06	3/8-18	3/8-18	3/8-18	3/8-18	25.91	22.23
HA1279-08-08-08-08	1/2-14	1/2-14	1/2-14	1/2-14	31.24	26.97
HA1279-12-12-12-12	3/4-14	3/4-14	3/4-14	3/4-14	34.54	33.32
HA1279-16-16-16-16	1-11 1/2	1-11 1/2	1-11 1/2	1-11 1/2	41.15	41.28
HA1279-20-20-20-20	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	1 1/4-11 1/2	43.18	47.63
HA1279-24-24-24-24	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	1 1/2-11 1/2	52.83	65.07
HA1279-32-32-32-32	2-11 1/2	2-11 1/2	2-11 1/2	2-11 1/2	60.71	71.42

HA1250

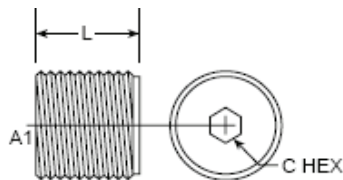
MP-FP Reducer Bushing
MP-FP- Bague de réduction



Code	B1 (male NPTF) in.	B2 (female NPTF) in.	C2 HEX mm	L2 mm	T mm
HA1250-04-02	1/4-18	1/8-27	15.88	21.59	6.35
HA1250-06-02	3/8-18	1/8-27	19.05	21.59	6.35
HA1250-06-04	3/8-18	1/4-18	19.05	21.59	6.35
HA1250-08-02	1/2-14	1/8-27	22.23	27.94	7.87
HA1250-08-04	1/2-14	1/4-18	22.23	27.94	7.87
HA1250-08-06	1/2-14	3/8-18	22.23	27.94	7.87
HA1250-12-02	3/4-14	1/8-27	28.58	29.72	9.65
HA1250-12-04	3/4-14	1/4-18	28.58	29.72	9.65
HA1250-12-06	3/4-14	3/8-18	28.58	29.72	9.65
HA1250-12-08	3/4-14	1/2-14	28.58	29.72	9.65
HA1250-16-02	1-11 1/2	1/8-27	34.93	34.54	9.65
HA1250-16-04	1-11 1/2	1/4-18	34.93	34.54	9.65
HA1250-16-06	1-11 1/2	3/8-18	34.93	34.54	9.65
HA1250-16-08	1-11 1/2	1/2-14	34.93	34.54	9.65
HA1250-16-12	1-11 1/2	3/4-14	34.93	34.54	9.65
HA1250-20-04	1 1/4-11 1/2	1/4-18	44.45	37.34	11.68
HA1250-20-06	1 1/4-11 1/2	3/8-18	44.45	37.34	11.68
HA1250-20-08	1 1/4-11 1/2	1/2-14	44.45	37.34	11.68
HA1250-20-12	1 1/4-11 1/2	3/4-14	44.45	37.34	11.68
HA1250-20-16	1 1/4-11 1/2	1-11 1/2	44.45	37.34	11.68
HA1250-24-04	1 1/2-11 1/2	1/4-18	50.80	39.88	13.46
HA1250-24-06	1 1/2-11 1/2	3/8-18	50.80	39.88	13.46
HA1250-24-08	1 1/2-11 1/2	1/2-14	50.80	39.88	13.46
HA1250-24-12	1 1/2-11 1/2	3/4-14	50.80	39.88	13.46
HA1250-24-16	1 1/2-11 1/2	1-11 1/2	50.80	39.88	13.46
HA1250-24-20	1 1/2-11 1/2	1 1/4-11 1/2	50.80	39.88	13.46
HA1250-32-04	2-11 1/2	1/4-18	63.50	44.45	17.27
HA1250-32-06	2-11 1/2	3/8-18	63.50	44.45	17.27
HA1250-32-08	2-11 1/2	1/2-14	63.50	44.45	17.27
HA1250-32-12	2-11 1/2	3/4-14	63.50	44.45	17.27
HA1250-32-16	2-11 1/2	1-11 1/2	63.50	44.45	17.27
HA1250-32-20	2-11 1/2	1 1/4-11 1/2	63.50	44.45	17.27
HA1250-32-24	2-11 1/2	1 1/2-11 1/2	63.50	44.45	17.27

HA1251SR

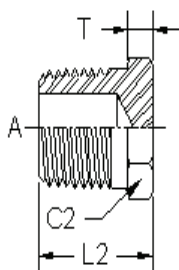
Hollow HEX Pipe Plug
Bouchon MNPT "Cle Allen"



Code	A1 (male NPTF) in.	C HEX mm	L mm
HA1251SR-02	1/8-27	4.78	7.62
HA1251SR-04	1/4-18	6.35	11.68
HA1251SR-06	3/8-18	7.92	11.68
HA1251SR-08	1/2-14	9.53	15.49
HA1251SR-12	3/4-14	14.27	15.75
HA1251SR-16	1-11 1/2	15.88	19.56
HA1251SR-20	1 1/4-11 1/2	19.05	21.08
HA1251SR-24	1 1/2-11 1/2	25.40	21.08
HA1251SR-32	2-11 1/2	25.40	21.08

HA1251

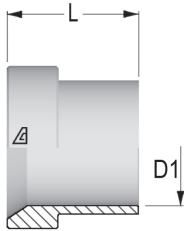
External HEX Pipe Plug
Bouchon MNPT hexagone



Code	A (male NPTF) in.	C2 HEX mm	L2 mm	T mm
HA1251-02	1/8-27	11.13	14.27	4.57
HA1251-04	1/4-18	15.88	21.59	6.35
HA1251-06	3/8-18	19.05	21.59	6.35
HA1251-08	1/2-14	22.23	2.79	7.87
HA1251-12	3/4-14	26.97	29.72	9.65
HA1251-16	1-11 1/2	34.93	34.54	9.65
HA1251-20	1 1/4-11 1/2	44.45	37.34	11.68
HA1251-24	1 1/2-11 1/2	50.80	39.88	13.46
HA1251-32	2-11 1/2	63.50	44.45	17.27

HA1253

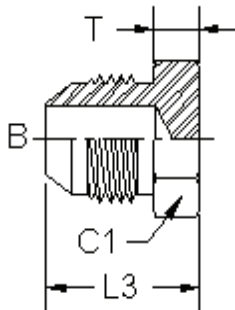
Sleeve JIC
Manchette



Code	OD in	L mm
HA1253-04	1/4"	10,5
HA1253-05	5/16"	11,5
HA1253-06	3/8"	12,5
HA1253-08	1/2"	14,5
HA1253-10	5/8"	16,5
HA1253-10	5/8"	16,5
HA1253-10	5/8"	16,5
HA1253-12	3/4"	17
HA1253-12	3/4"	17
HA1253-14	7/8"	19
HA1253-16	1"	19,5
HA1253-20	1" 1/4	23
HA1253-24	1" 1/2	28,5

HA1254

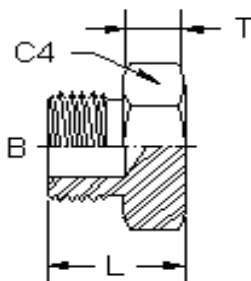
Plug JIC Male
Bouchon Mâle JIC



Code	TUBE OD in	B (JIC) in	T mm	L3 mm	C1 HEX mm
HA1254-02	1/8	5/16-24	5.59	17.78	0.438
HA1254-03	3/16	3/8-24	5.59	18.54	0.438
HA1254-04	1/4	7/16-20	5.59	20.32	0.500
HA1254-05	5/16	1/2-20	5.59	20.32	0.562
HA1254-06	3/8	9/16-18	6.35	21.34	0.625
HA1254-08	1/2	3/4-16	6.35	23.88	0.813
HA1254-10	5/8	7/8-14	7.87	27.94	0.938
HA1254-12	3/4	1 1/16-12	9.65	32.51	1.125
HA1254-14	7/8	1 3/16-12	9.65	33.27	1.250
HA1254-16	1	1 5/16-12	9.65	33.78	1.375
HA1254-20	1-1/4	1 5/8-12	11.68	36.83	1.688
HA1254-24	1-1/2	1 7/8-12	13.46	41.91	2.000
HA1254-32	2	2 1/2-12	17.27	52.07	2.625

HA1255

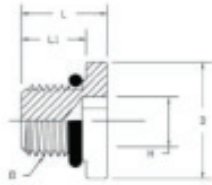
Solid MOR HEX Head Plug
Bouchon MORB hexagone



Code	B (male ORB) in.	C4 HEX in.	L mm	T mm
HA1255-02	5/16-24	11.13	15.24	7.11
HA1255-03	3/8-24	12.70	15.24	7.11
HA1255-04	7/16-20	14.27	17.02	7.11
HA1255-05	1/2-20	15.88	17.02	7.11
HA1255-06	9/16-18	17.48	18.54	7.87
HA1255-08	3/4-16	22.23	20.32	8.64
HA1255-10	7/8-14	25.40	23.88	10.41
HA1255-12	1 1/16-12	31.75	27.69	11.94
HA1255-14	1 3/16-12	34.93	27.69	11.94
HA1255-16	1 5/16-12	38.10	28.70	12.70
HA1255-20	1 5/8-12	47.63	30.48	14.73
HA1255-24	1 7/8-12	53.98	32.26	16.51
HA1255-32	2 1/2-12	69.85	36.32	20.57

HA1256

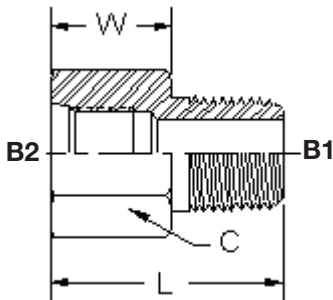
Hollow HEX Head Plug
Bouchon MORB "Cle Allen"



Code	B1 (male ORB) in.	H HEX mm	L1 mm	L mm	D DIA mm
HA1256-02	5/16-24	3.18	7.62	9.91	11.18
HA1256-03	3/8-24	3.18	7.62	9.91	12.70
HA1256-04	7/16-20	4.78	8.89	11.68	14.22
HA1256-05	1/2-20	4.78	9.14	11.68	16.00
HA1256-06	9/16-18	6.35	10.16	12.45	17.53
HA1256-08	3/4-16	7.95	11.18	14.48	22.35
HA1256-10	7/8-14	9.53	12.70	16.00	25.40
HA1256-12	1 1/16-12	14.30	14.99	19.05	31.75
HA1256-14	1 3/16-12	14.30	14.99	19.05	35.05
HA1256-16	1 5/16-12	15.88	14.99	19.05	38.10
HA1256-20	1 5/8-12	19.05	14.99	19.05	47.75
HA1256-24	1 7/8-12	19.05	14.99	19.56	54.10

HA1267

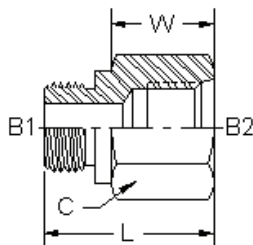
MP - FORB Connector
MP - FORB Connecteur



Code	B2 (female ORB) in.	B1 (male NPTF) in.	CHEX mm	L mm	T mm
HA1267-02-04	7/16-20	1/8-27	17.45	28.70	19.05
HA1267-04-04	7/16-20	1/4-18	17.45	33.53	19.05
HA1267-06-04	7/16-20	3/8-18	17.45	28.70	25.40
HA1267-02-05	1/2-20	1/8-27	19.05	34.80	20.32
HA1267-04-05	1/2-20	1/4-18	19.05	35.31	20.32
HA1267-06-05	1/2-20	9/16-18	19.05	35.05	20.32
HA1267-04-06	9/16-18	1/4-18	22.23	35.31	24.99
HA1267-06-06	9/16-18	3/8-18	22.23	35.56	20.32
HA1267-08-06	9/16-18	1/2-14	22.23	36.83	16.51
HA1267-06-08	3/4-16	3/8-18	25.40	38.10	23.80
HA1267-08-08	3/4-16	1/2-14	25.40	43.18	23.80
HA1267-12-08	3/4-16	3/4-14	28.58	42.93	23.62
HA1267-06-10	7/8-14	3/8-18	31.75	41.15	26.92
HA1267-08-10	7/8-14	1/2-14	31.75	45.97	26.97
HA1267-12-10	7/8-14	3/4-14	31.75	43.69	24.38
HA1267-08-12	1 1/16-12	1/2-14	34.93	49.78	30.73
HA1267-12-12	1 1/16-12	3/4-14	34.93	49.78	30.94
HA1267-12-14	1 3/16-12	3/4-14	38.10	51.82	30.94
HA1267-12-16	1 5/16-12	3/4-14	41.28	52.32	33.02
HA1267-16-16	1 5/16-12	1-11 1/2	41.28	56.39	30.94
HA1267-20-16	1 5/16-12	1 1/4-11 1/2	50.80	48.26	23.62
HA1267-16-20	1 5/8-12	1-11 1/2	50.80	56.39	31.75
HA1267-20-20	1 5/8-12	1 1/4-11 1/2	53.98	59.44	32.54
HA1267-24-24	1 7/8-12	1 1/2-11 1/2	57.15	58.42	32.54
HA1267-32-32	2 1/2-12	2-11 1/2	73.03	67.56	32.54

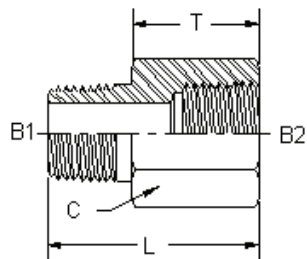
HA1270

MORB-FORB Connector
MORB-FORB Connecteur

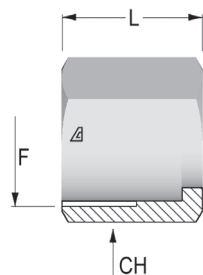


Code	B1 (male ORB) in.	B2 (female ORB) in.	C HEX mm	L mm	W mm
HA1270-03-04	3/8-24	7/16-20	15.88	30.02	20.32
HA1270-04-02	7/16-20	5/16-24	14.27	17.48	7.72
HA1270-04-04	7/16-20	7/16-20	15.88	27.56	18.29
HA1270-04-05	7/16-20	1/2-20	19.05	27.56	16.00
HA1270-04-06	7/16-20	9/16-18	20.65	29.77	17.45
HA1270-04-08	7/16-20	3/4-16	26.97	35.41	23.95
HA1270-05-04	1/2-20	7/16-20	15.88	30.99	21.84
HA1270-06-04	9/16-18	7/16-20	17.45	26.16	16.23
HA1270-06-06	9/16-18	9/16-18	20.65	30.96	18.82
HA1270-06-08	9/16-18	3/4-16	26.97	35.31	25.37
HA1270-08-03	3/4-16	3/8-24	22.23	20.32	9.53
HA1270-08-04	3/4-16	7/16-20	22.23	29.21	9.53
HA1270-08-05	3/4-16	1/2-20	22.23	20.47	9.32
HA1270-08-06	3/4-16	9/16-18	22.23	29.46	19.10
HA1270-08-08	3/4-16	3/4-16	25.40	33.27	22.15
HA1270-08-10	3/4-16	7/8-14	28.58	37.59	22.96
HA1270-08-12	3/4-16	1 1/16-12	34.93	41.91	33.53
HA1270-10-04	7/8-14	7/16-20	25.40	23.88	10.59
HA1270-10-05	7/8-14	1/2-20	25.40	23.88	11.15
HA1270-10-06	7/8-14	9/16-18	25.40	31.04	7.87
HA1270-10-08	7/8-14	3/4-16	25.40	33.27	20.57
HA1270-10-12	7/8-14	1 1/16-12	34.93	42.16	26.16
HA1270-12-04	1 1/16-12	7/16-20	31.75	27.69	12.95
HA1270-12-06	1 1/16-12	9/16-18	31.75	27.69	12.95
HA1270-12-08	1 1/16-12	3/4-16	31.75	35.56	12.60
HA1270-12-10	1 1/16-12	7/8-14	31.75	39.62	21.41
HA1270-12-12	1 1/16-12	1 1/16-12	34.93	44.96	30.48
HA1270-12-14	1 1/16-12	1 3/16-12	38.10	43.43	24.89
HA1270-12-16	1 1/16-12	1 5/16-12	41.28	45.97	27.58
HA1270-12-20	1 1/16-12	1 5/8-12	50.80	50.80	32.51
HA1270-14-08	1 3/16-12	3/4-16	34.93	27.43	12.95
HA1270-14-10	1 3/16-12	7/8-14	34.93	27.69	12.37
HA1270-14-12	1 3/16-12	1 1/16-12	34.93	43.43	25.40
HA1270-14-16	1 3/16-12	7/16-20	41.28	44.45	29.21
HA1270-16-04	1 5/16-12	9/16-18	38.10	28.70	13.21
HA1270-16-06	1 5/16-12	9/16-18	38.10	28.70	13.21
HA1270-16-08	1 5/16-12	3/4-16	38.10	40.64	25.55
HA1270-16-10	1 5/16-12	7/8-14	38.10	28.45	13.36
HA1270-16-12	1 5/16-12	1 1/16-12	38.10	43.18	28.09
HA1270-16-14	1 5/16-12	1 3/16-12	38.10	43.43	25.40
HA1270-16-20	1 5/16-12	1 5/8-12	53.98	54.36	34.95
HA1270-16-24	1 5/16-12	1 7/8-12	57.15	53.09	34.29
HA1270-20-06	1 5/8-12	9/16-18	47.63	30.48	14.73
HA1270-20-08	1 5/8-12	3/4-16	47.63	30.48	14.73
HA1270-20-10	1 5/8-12	7/8-14	47.63	30.48	14.73
HA1270-20-12	1 5/8-12	1 1/16-12	47.63	47.29	14.73
HA1270-20-16	1 5/8-12	1 5/16-12	47.63	44.45	15.14
HA1270-20-24	1 5/8-12	1 7/8-12	57.15	48.01	29.36
HA1270-24-06	1 7/8-12	9/16-18	53.98	32.26	15.88
HA1270-24-12	1 7/8-12	1 1/16-12	53.98	25.40	10.41
HA1270-24-16	1 7/8-12	1 5/16-12	53.98	25.40	10.31
HA1270-24-20	1 7/8-12	1 5/8-12	53.98	44.45	26.19
HA1270-32-12	2 1/2-12	1 1/16-12	69.85	36.32	10.41
HA1270-32-16	2 1/2-12	1 5/16-12	69.85	36.32	10.41
HA1270-32-20	2 1/2-12	1 5/8-12	69.85	36.32	10.41
HA1270-32-24	2 1/2-12	1 7/8-12	69.85	36.58	20.57

TUYAUX Hydraulique
TUYAUX PTFE
RACCORDS Standard
RACCORDS Interlock
RACCORDS Afacrimp
Accessoires
RACCORDS en Acier Inoxydable
ADAPTATEURS Standard
ADAPTATEURS ORFS
ADAPTATEURS MÉTRIQUE-BSP
SERTISSEUSES

HA1274**Male Pipe****Female Pipe Straight Expander****Détendeur Droit MP-FP**

Code	B1 (male NPTF) in.	B2 (female NPTF) in.	C HEX mm	L mm	T mm
HA1274-02-04	1/8-27	1/4-18	19.05	30.73	21.08
HA1274-02-06	1/8-27	3/8-18	22.23	32.00	22.35
HA1274-02-08	1/8-27	1/2-14	28.58	37.59	28.45
HA1274-04-02	1/4-18	1/8-27	15.88	30.99	16.76
HA1274-04-04	1/4-18	1/4-18	19.05	35.31	21.08
HA1274-04-06	1/4-18	3/8-18	22.23	36.58	22.35
HA1274-04-08	1/4-18	1/2-14	28.58	43.18	28.45
HA1274-04-12	1/4-18	3/4-14	34.93	44.20	29.97
HA1274-06-02	3/8-18	1/8-27	15.88	36.20	16.76
HA1274-06-04	3/8-18	1/4-18	19.05	36.58	21.08
HA1274-06-06	3/8-18	3/8-18	22.23	36.50	22.35
HA1274-06-08	3/8-18	1/2-14	28.58	42.67	28.45
HA1274-06-12	3/8-18	3/4-14	34.93	44.20	29.97
HA1274-08-06	1/2-14	3/8-18	28.58	42.93	23.88
HA1274-08-08	1/2-14	1/2-14	28.58	47.50	28.45
HA1274-08-12	1/2-14	3/4-14	34.93	49.28	30.23
HA1274-08-16	1/2-14	1-11 1/2	41.28	55.63	36.58
HA1274-12-04	3/4-14	1/4-18	25.40	46.36	21.08
HA1274-12-06	3/4-14	3/8-18	25.40	41.33	22.35
HA1274-12-08	3/4-14	1/2-14	28.58	49.02	28.45
HA1274-12-12	3/4-14	3/4-14	34.93	49.02	29.97
HA1274-12-16	3/4-14	1-11 1/2	41.28	55.63	36.58
HA1274-12-20	3/4-14	1 1/4-11 1/2	50.80	57.66	38.61
HA1274-16-08	1-11 1/2	1/2-14	28.58	52.32	28.45
HA1274-16-12	1-11 1/2	3/4-14	41.28	55.63	31.75
HA1274-16-16	1-11 1/2	1-11 1/2	41.28	60.20	38.10
HA1274-16-20	1-11 1/2	1 1/4-11 1/2	50.80	62.48	38.61
HA1274-16-24	1-11 1/2	1 1/2-11 1/2	60.33	62.74	38.86
HA1274-20-16	1 1/4-11 1/2	1-11 1/2	44.45	64.01	36.32
HA1274-20-20	1 1/4-11 1/2	1 1/4-11 1/2	50.80	63.25	38.61
HA1274-20-24	1 1/4-11 1/2	1 1/2-11 1/2	60.33	63.50	38.86
HA1274-20-32	1 1/4-11 1/2	2-11 1/2	73.03	65.91	41.40
HA1274-24-20	1 1/2-11 1/2	1 1/4-11 1/2	50.80	55.88	38.61
HA1274-24-24	1 1/2-11 1/2	1 1/2-11 1/2	60.33	64.52	39.12
HA1274-24-32	1 1/2-11 1/2	2-11 1/2	73.03	66.68	41.40
HA1274-32-32	2-11 1/2	2-11 1/2	73.03	66.68	41.40

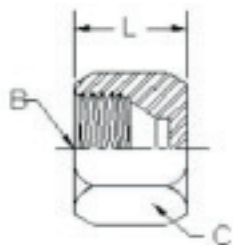
HA1311**Nut JIC****Ecrou**

Code	OD in	F	L mm	CH mm
HA1311-0400	1/4"	7/16"-20	17	14
HA1311-0500	5/16"	1/2"-20	19,5	17
HA1311-0600	3/8"	9/16"-18	20,5	19
HA1311-0800	1/2"	3/4"-16	24	22
HA1311-1000	3/8"	7/8"-14	27	27
HA1311-1200	3/4"	1"1/16-12	31,5	32
HA1311-1220	3/4"	1"1/16-12	32	36
HA1311-1400	7/8"	1"3/16-12	32,5	41
HA1311-1600	1"	1"5/16-12	35,5	50
HA1311-2000	1" 1/4	1"5/8-12	43	60
HA1311-2400	1" 1/2	1"7/8-12	36	57

HA1329

Cap JIC Female

Bouchon Femelle tournant JIC

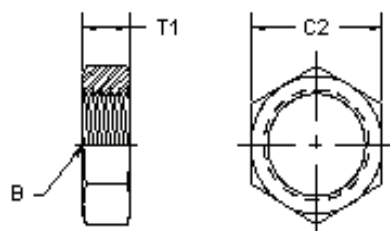


Code	TUBE OD in	B (JIC) in	C HEX mm	L mm
HA1329-02	1/8	5/16-24	9.53	12.70
HA1329-03	3/16	3/8-24	11.13	14.27
HA1329-04	1/4	7/16-20	14.27	15.09
HA1329-05	5/16	1/2-20	15.88	15.47
HA1329-06	3/8	9/16-18	17.48	15.88
HA1329-08	1/2	3/4-16	22.23	19.05
HA1329-10	5/8	7/8-14	25.40	21.44
HA1329-12	3/4	1 1/16-12	31.75	23.01
HA1329-14	7/8	1 3/16-12	34.93	24.61
HA1329-16	1	1 5/16-12	38.10	25.81
HA1329-20	1-1/4	1 5/8-12	50.80	26.97
HA1329-24	1-1/2	1 7/8-12	57.15	30.18
HA1329-32	2	2 1/2-12	73.03	36.53

HA1332

Bulkhead Locknut

Boulon de Serrage

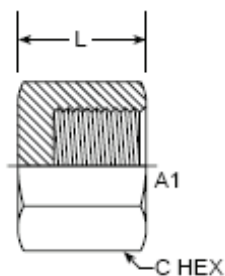


Code	TUBE OD in.	B (tube thread) in.	C2HEX mm	T1 mm
HA1332-02	1/8	5/16-24	14.27	5.59
HA1332-03	3/16	3/8-24	15.88	5.59
HA1332-04	1/4	7/16-20	17.48	7.11
HA1332-05	5/16	1/2-20	19.05	7.11
HA1332-06	3/8	9/16-18	20.62	6.86
HA1332-08	1/2	3/4-16	25.40	7.87
HA1332-10	5/8	7/8-14	28.58	9.14
HA1332-12	3/4	1 1/16-12	34.93	10.41
HA1332-14	7/8	1 3/16-12	38.10	10.41
HA1332-16	1	1 5/16-12	41.28	10.41
HA1332-20	1-1/4	1 5/8-12	47.63	10.41
HA1332-24	1-1/2	1 7/8-12	53.98	10.41
HA1332-32	2	2 1/2-12	69.85	10.41

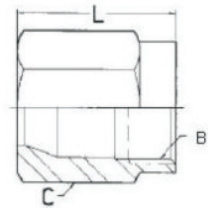
HA5406C

Pipe Cap

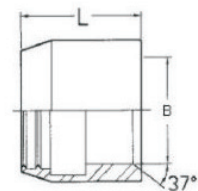
Bouchon NPT femelle



Code	A1 (female APTF) in.	CHEX mm	L mm
HA5406C-02	1/8-27	14.27	13.97
HA5406C-04	1/4-18	19.05	20.57
HA5406C-06	3/8-18	20.62	20.57
HA5406C-08	1/2-14	25.40	25.40
HA5406C-12	3/4-14	30.18	28.70
HA5406C-16	1-11 1/2	38.10	29.21
HA5406C-20	1 1/4-11 1/2	50.80	31.75

HA1311F**Convert-A-Flare-Nut****Boulon 37° JIC/Compression**

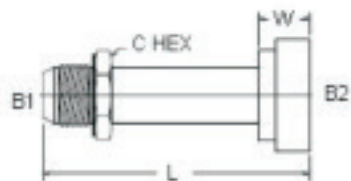
Code	TUBE OD in.	B (female JIC) in.	CHEX mm	L mm
HA1311F-04	1/4	7/16-20	14.30	20.83
HA1311F-05	5/16	1/2-20	15.88	20.83
HA1311F-06	3/8	9/16-18	17.48	21.84
HA1311F-08	1/2	3/4-16	22.23	27.43
HA1311F-10	5/8	7/8-14	25.40	28.45
HA1311F-12	3/4	1 1/16-12	31.75	34.54
HA1311F-16	1	1 5/16-12	38.10	35.56
HA1311F-20	1 1/4	1 5/8-12	50.80	45.72

HA1253F**Convert-A-Flare-Sleeve****Manchette 37° JIC/Compression**

Code	TUBE OD in.	B DIA in.	L mm
HA1253F-04	1/4	6.35	10.67
HA1253F-05	5/16	7.87	10.67
HA1253F-06	3/8	9.65	11.68
HA1253F-08	1/2	12.70	14.48
HA1253F-10	5/8	15.75	14.73
HA1253F-12	3/4	19.05	17.78
HA1253F-16	1	25.40	17.78
HA1253F-20	1 1/4	31.75	25.40

HA1700

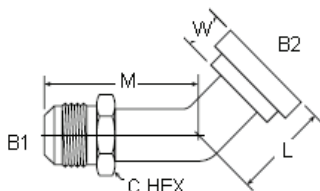
Straight Flange SAE J518
Code 61 - JIC Low Pressure
MJ/Bride Code 61



Code	B1 (male JIC) in.	B2 (code 61 flange head) in.	L mm	W mm	C mm
HA1700-08-08	3/4-16	1/2	59.69	12.70	20.62
HA1700-08-12	3/4-16	3/4	59.69	14.22	28.58
HA1700-12-12	1-1/16-12	3/4	66.04	14.22	28.58
HA1700-12-16	1-1/16-12	1	66.04	14.22	28.58
HA1700-12-20	1-1/16-12	1-1/4	66.04	14.22	34.93
HA1700-16-12	1-5/16-12	3/4	67.06	14.22	34.93
HA1700-16-16	1-5/16-12	1	67.06	14.22	34.93
HA1700-16-20	1-5/16-12	1-1/4	67.06	14.22	34.93
HA1700-16-24	1-5/16-12	1-1/2	67.06	14.22	50.80
HA1700-20-16	1-5/8-12	1	79.38	14.22	42.85
HA1700-20-20	1-5/8-12	1-1/4	79.38	14.22	42.85
HA1700-20-24	1-5/8-12	1-1/2	68.25	15.75	50.80
HA1700-20-32	1-5/8-12	2	78.74	15.75	42.88
HA1700-24-20	1-7/8-12	1-1/4	76.20	15.75	50.80
HA1700-24-24	1-7/8-12	1-1/2	76.20	15.75	50.80
HA1700-24-32	1-7/8-12	2	76.20	15.75	50.80
HA1700-32-24	2-1/2-12	1-1/2	85.09	15.75	69.85

HA1703

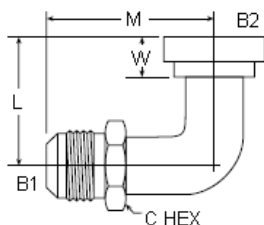
MJ-C61 Flange 45° Code 61
MJ-C61 Bride Code 61 45°



Code	B1 (male JIC) in.	B2 (code 61 flange head) in.	L mm	M mm	W mm	C mm
HA1703-08-08	3/4-16	1/2	27.43	44.96	38,1	12.70
HA1703-12-12	1-1/16-12	3/4	38.10	41.91	38,1	14.22
HA1703-12-16	1-1/16-12	1	33.02	46.99	47,63	14.22
HA1703-16-16	1-5/16-12	1	35.56	55.88	38,1	14.22
HA1703-20-20	1-5/8-12	1-1/4	33.02	59.69	47,63	14.22
HA1703-20-24	1-5/8-12	1-1/2	44.45	50.80	52,37	14.22
HA1703-24-24	1-7/8-12	1-1/2	40.64	58.42	47,63	15.75
HA1703-32-32	2-1/2-12	2	43.18	73.66	69,85	15.75

HA1704

90° Adjustable Split Flange
SAE J518 Code 61 - JIC
Low Pressure
MJ/Bride Code 61 90°

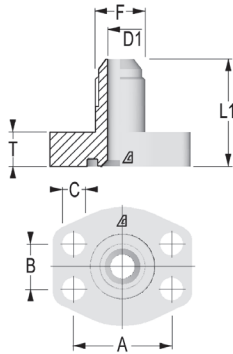


Code	B1 (male JIC) in.	B2 (code 61 Flange Head) in.	L mm	M mm	W mm	C mm
HA1704-08-08	3/4-16	1/2	41.91	43.18	12.70	20.62
HA1704-08-12	3/4-16	3/4	42.42	48.01	14.22	26.97
HA1704-12-12	1-1/16-12	3/4	78.74	57.15	14.22	28.58
HA1704-12-16	1-1/16-12	1	53.85	62.99	14.22	28.58
HA1704-12-20	1-1/16-12	1-1/4	54.61	63.50	14.22	28.58
HA1704-16-12	1-5/16-12	3/4	45.72	66.04	14.22	34.93
HA1704-16-16	1-5/16-12	1	60.33	46.02	14.22	34.93
HA1704-16-20	1-5/16-12	1-1/4	62.23	72.90	14.22	34.93
HA1704-16-24	1-5/16-12	1-1/2	29.72	74.93	14.22	34.93
HA1704-20-16	1-5/8-12	1	55.07	77.50	14.22	42.88
HA1704-20-12	1-5/8-12	3/4	45.97	66.80	14.22	42.85
HA1704-20-20	1-5/8-12	1-1/4	63.50	52.37	14.22	42.85
HA1704-20-32	1-5/8-12	2	63.50	86.36	14.22	51.99
HA1704-24-16	1-7/8-12	1	56.90	80.72	14.22	50.80
HA1704-24-20	1-7/8-12	1-1/4	68.58	89.66	14.22	51.97
HA1704-24-24	1-7/8-12	1-1/2	69.85	59.13	15.75	69.85
HA1704-32-32	2-1/2-12	2	93.98	125.73	15.75	69.85

JIC - FLANGES

HA1800

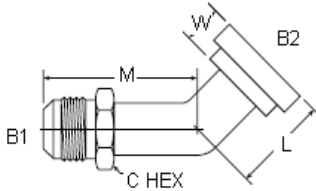
Straight Flange SAE J518
Code 62 - JIC High Pressure
MJ/COT Bride Code 62



Code	F1	Flange size	L1 mm	T mm	A mm	B mm	C mm	MAX WP psi
HA1800-08-08	3/4"-16	1/2"	42	15	40,49	18,2	9	6000
HA1800-10-08	7/8"-14	1/2"	45	15	40,49	18,2	9	6000
HA1800-10-12	7/8"-14	3/4"	49	17	50,8	23,8	11	6000
HA1800-12-08	1"1/16-12	1/2"	47	15	40,49	18,2	9	6000
HA1800-12-12	1"1/16-12	3/4"	51	17	50,8	23,8	11	6000
HA1800-12-16	1"1/16-12	1"	58	21	57,15	27,8	13	6000
HA1800-16-12	1"5/16-12	3/4"	52	17	50,8	23,8	11	6000
HA1800-16-16	1"5/16-12	1"	59	21	57,15	27,8	13	6000
HA1800-16-20	1"5/16-12	1"1/4"	64	24	66,68	31,8	15	6000
HA1800-20-16	1"5/8-12	1"	61	21	57,15	27,8	13	6000
HA1800-20-20	1"5/8-12	1"1/4"	66	24	66,68	31,8	15	6000
HA1800-20-24	1"5/8-12	1"1/2"	70	27	79,38	36,5	17	6000
HA1800-24-20	1"7/8-12	1"1/4"	69	24	66,68	31,8	15	6000
HA1800-24-24	1"7/8-12	1"1/2"	73	27	79,38	36,5	17	6000

HA1803

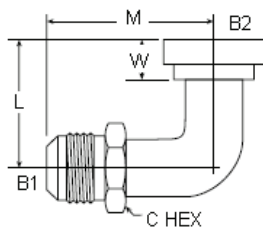
MJ-Code62 Flange 45°
MJ-Code62 Bride 45°



Code	B1 (male JIC) in.	B2 (code 62 flange head) in.	L mm	M mm	W mm	C mm
HA1803-08-08	3/4-16	1/2	27.94	40.64	14.22	20.62
HA1803-12-12	1-1/16-12	3/4	35.56	45.72	17.53	28.58
HA1803-12-20	1-1/16-12	1-1/4	50.80	55.63	25.40	31.75
HA1803-12-16	1-11/16-12	1	35.56	48.26	20.62	28.17
HA1803-16-12	1-5/16-12	3/4	39.62	60.96	30.23	34.93
HA1803-16-16	1-5/16-12	1	45.72	55.88	20.62	34.93
HA1803-16-20	1-5/16-12	1-1/4	35.56	50.80	25.40	34.93
HA1803-20-16	1-5/8-12	1	39.37	51.31	20.57	42.88
HA1803-20-20	1-5/8-12	1-1/4	55.12	55.63	25.40	50.80
HA1803-20-24	1-7/8-12	1-1/2	43.18	63.50	30.23	51.97
HA1803-24-20	1-7/8-12	1-1/4	38.10	59.18	25.40	51.99
HA1803-24-24	1-7/8-12	1-1/2	60.96	87.12	30.23	50.80
HA1803-32-32	1-1/2-12	2	66.04	81.28	38.10	69.85

HA1804

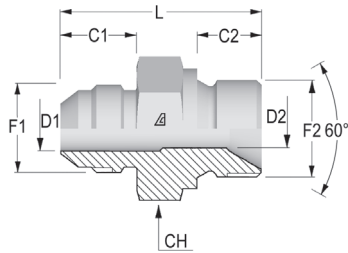
90° Adjustable Split Flange
SAE J518 Code 62 - JIC
High Pressure
MJ/Bride Code 62 90°



Code	B1 (male JIC) in.	B2 (code 62 Flange Head)	L mm	M mm	W mm	C mm
HA1804-08-08	3/4-16	1/2	50.04	37.34	14.22	22.23
HA1804-12-12	1-1/16-12	3/4	78.74	57.15	17.53	28.58
HA1804-12-20	1-1/16-12	1 1/4	50.29	65.53	25.40	28.58
HA1804-16-12	1-5/16-12	3/4	45.72	65.02	17.53	34.93
HA1804-16-16	1-5/16-12	1	62.99	78.74	20.57	34.93
HA1804-16-20	1-5/16-12	1-1/4	63.50	76.20	25.40	34.93
HA1804-16-24	1-1/16-12	1-1/2	74.93	59.69	30.23	34.93
HA1804-20-16	1-5/8-12	1	84.07	59.69	20.57	42.85
HA1804-20-20	1-5/8-12	1-1/4	85.85	62.48	25.40	42.85
HA1804-20-24	1-5/8-12	1-1/2	95.25	69.09	30.23	42.85
HA1804-24-32	1-7/8-12	2	101.60	76.20	30.23	51.97
HA1804-24-24	1-7/8-12	1-1/2	93.47	102.87	38.10	50.80
HA1804-32-32	2-1/2-12	2	119.08	167.64	38.10	69.85

HA9005

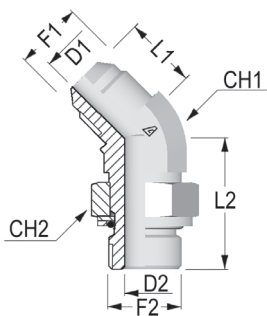
Straight Connector JIC Male
BSPP Cylindric Male 60°
Connecteur Mâle -
JIC/ Mâle BSPP



Code	F1	F2	L mm	C1 mm	C2 mm	CH mm
HA9005-04-02	7/16"-20	1/8"-28	29	14	9,5	14
HA9005-04-04	7/16"-20	1/4"-19	34	14	13	19
HA9005-0406-	7/16"-20	3/8"-19	35,5	14	15,5	22
HA9005-04-08	7/16"-20	1/2"-14	40	14	17	27
HA9005-05-02	1/2"-20	1/8"-28	29	14	9,5	14
HA9005-05-04	1/2"-20	1/4"-19	32	14	13	19
HA9005-05-06	1/2"-20	3/8"-19	35,5	14	15,5	22
HA9005-06-04	9/16"-18	1/4"-19	34	14	13	19
HA9005-06-06	9/16"-18	3/8"-19	35,5	14	15,5	22
HA9005-06-08	9/16"-18	1/2"-14	41	14	17	27
HA9005-08-04	3/4"-16	1/4"-19	36	16,5	13	19
HA9005-08-06	3/4"-16	3/8"-19	38	16,5	15,5	22
HA9005-08-08	3/4"-16	1/2"-14	41	16,5	17	27
HA9005-08-12	3/4"-16	3/4"-14	45,5	16,5	20	32
HA9005-10-06	7/8"-14	3/8"-18	41,5	19,5	15,5	24
HA9005-10-08	7/8"-14	1/2"-14	45,5	19,5	17	27
HA9005-10-12	7/8"-14	3/4"-14	48,5	19,5	20	32
HA9005-12-08	1"1/16-12	1/2"-14	50	22	17	32
HA9005-12-12	1"1/16-12	3/4"-14	50	22	20	32
HA9005-12-16	1"1/16-12	1"-11	53	22	22	41
HA9005-14-12	1"3/16-12	3/4"-14	51,5	22,5	20	32
HA9005-16-12	1"5/16-12	3/4"-14	55	23	20	36
HA9005-16-16	1"5/16-12	1"-11	54	23	22	41
HA9005-16-20	1"5/16-12	1"1/4-11	56	23	23	50
HA9005-20-16	1"5/8-12	1"-11	58,5	24,5	22	46
HA9005-20-20	1"5/8-12	1"1/4-11	59,5	24,5	23	50
HA9005-24-20	1"7/8-12	1"1/4-11	62,5	27,5	23	50
HA9005-24-24	1"7/8-12	1"1/2-11	67,5	27,5	25	55

HA9058

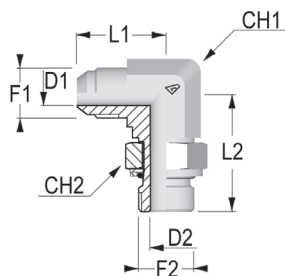
45° Adjustable Elbow Connector JIC
Male BSPP Cylindric Male with
O-Ring and Retaining Ring
Coude 45° Mâle JIC - Mâle GAZ cyl
+ O-Ring + Bague de retenue



Code	F1	F2	L1 mm	L2 mm	CH1 mm	CH2 mm
HA9058-04-02	7/16"-20	1/8"-28	19,5	26,5	12	14
HA9058-04-04	7/16"-20	1/4"-19	21	29	14	19
HA9058-04-06	7/16"-20	3/8"-19	22	33	17	22
HA9058-04-08	7/16"-20	1/2"-14	22,5	38,5	22	27
HA9058-05-02	1/2"-20	1/8"-28	19,5	26,5	14	14
HA9058-05-04	1/2"-20	1/4"-19	19,5	26,5	14	19
HA9058-05-06	1/2"-20	3/8"-19	21	32,5	17	22
HA9058-06-04	9/16"-18	1/4"-19	21	29	14	19
HA9058-06-06	9/16"-18	3/8"-19	22	33	17	22
HA9058-06-08	9/16"-18	1/2"-14	22,5	38,5	22	27
HA9058-08-04	3/4"-16	1/4"-19	25	30	19	19
HA9058-08-06	3/4"-16	3/8"-19	25	33	19	22
HA9058-08-08	3/4"-16	1/2"-14	25,5	38,5	22	27
HA9058-08-12	3/4"-16	1/4"-19	27	31,6	27	36
HA9058-10-06	7/8"-14	3/8"-19	28	35	22	22
HA9058-10-08	7/8"-14	1/2"-14	28	38,5	22	27
HA9058-10-12	7/8"-14	3/4"-18	30	44	27	36
HA9058-12-12	1"1/16-12	3/4"-19	32,5	44	27	36
HA9058-12-16	1"1/16-12	1"-11	37	47	33	41
HA9058-14-12	1"3/16-12	3/4"-14	35	45,5	33	36
HA9058-16-12	1"5/16-12	3/4"-14	37	47	33	36
HA9058-16-16	1"5/16-12	1"-11	37	47	33	41
HA9058-16-20	1"5/16-12	1"1/4-11	39	48,5	41	50
HA9058-20-16	1"5/8-12	1"-11	40,5	48,5	41	41
HA9058-20-20	1"5/8-12	1"1/4-11	39,5	48,5	41	50
HA9058-24-20	1"7/8-12	1"1/4-11	45	48,5	48	50
HA9058-24-24	1"7/8-12	1"1/2-11	45	48	48	55

HA9059

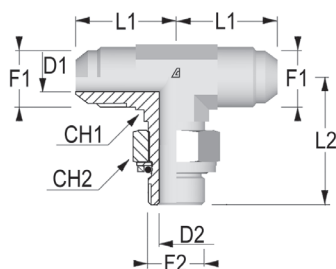
**90° Adjustable Elbow
Connector JIC Male BSPP
Cylindric Male with O-Ring
and Retaining Ring**
Coude 90° Mâle JIC - Mâle
GAZ cyl + O-Ring + Bague
de retenue



Code	F1	F2	L1 mm	L2 mm	CH1 mm	CH2 mm
HA9059-04-02	7/16"-20	1/8"-28	22,5	26	12	14
HA9059-04-04	7/16"-20	1/4"-19	27	31,5	14	19
HA9059-04-06	7/16"-20	3/8"-19	28,5	36,5	17	22
HA9059-04-08	7/16"-20	1/2"-14	31	43	22	27
HA9059-05-02	1/2"-20	1/8"-28	24	27,5	14	14
HA9059-05-04	1/2"-20	1/4"-19	27	31,5	14	19
HA9059-05-06	1/2"-20	3/8"-19	28,5	36,5	17	22
HA9059-06-04	9/16"-18	1/4"-19	27	31,5	14	19
HA9059-06-06	9/16"-18	3/8"-19	28,5	36,5	17	22
HA9059-06-08	9/16"-18	1/2"-14	31	43	22	27
HA9059-08-04	3/4"-16	1/4"-19	31,5	33,5	19	19
HA9059-08-06	3/4"-16	3/8"-19	31,5	36,5	19	22
HA9059-08-08	3/4"-16	1/2"-14	34	43	22	27
HA9059-08-12	3/4"-16	3/4"-14	37	49	27	36
HA9059-10-06	7/8"-14	3/8"-19	36,5	39,5	22	22
HA9059-10-08	7/8"-14	1/2"-14	36,5	43	22	27
HA9059-10-12	7/8"-14	3/4"-14	39,5	49	27	36
HA9059-12-08	1"1/16-12	1/2"-14	42	45,5	27	27
HA9059-12-12	1"1/16-12	3/4"-14	42	49	27	36
HA9059-12-16	1"1/16-12	1"-11	44,5	52	33	41
HA9059-14-12	1"3/16-12	3/4"-14	44	50,5	33	36
HA9059-16-12	1"5/16-12	1/4"-19	46	52	33	36
HA9059-16-16	1"5/16-12	1"-11	46	52	33	41
HA9059-16-20	1"5/16-12	1"1/4-11	51	57	41	50
HA9059-20-16	1"5/8-12	1"-11	52	57	41	41
HA9059-20-20	1"5/8-12	1"1/4-11	52	57	41	50
HA9059-24-20	1"7/8-12	1"1/4-11	59	61	48	50
HA9059-24-24	1"7/8-12	1"1/2-11	59	61	48	55

HA9159

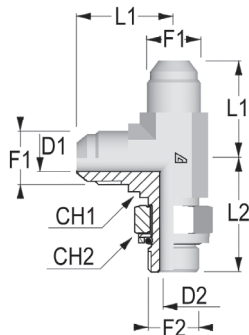
**Branch Tee Adjustable Elbow
Connector JIC Male BSPP
Cylindric Male with O-Ring
and Retaining Ring**
TE Mâle JIC - Mâle GAZ cyl +
O-Ring + Bague de retenue



Code	F1	F2	L1 mm	L2 mm	CH1 mm	CH2 mm
HA9159-04-02	7/16"-20	1/8"-28	22,5	26	12	14
HA9159-04-04	7/16"-20	1/4"-19	27	31,5	14	19
HA9159-04-06	7/16"-20	3/8"-19	28,5	36,5	17	22
HA9159-04-08	7/16"-20	1/2"-14	31	43	22	27
HA9159-05-02	1/2"-20	1/8"-28	24	27,5	14	14
HA9159-05-04	1/2"-20	1/4"-19	27	31,5	14	19
HA9159-05-06	1/2"-20	3/8"-19	28,5	36,5	17	22
HA9159-06-04	9/16"-18	1/4"-19	27	31,5	14	19
HA9159-06-06	9/16"-18	3/8"-19	28,5	36,5	17	22
HA9159-06-08	9/16"-18	1/2"-14	31	43	22	27
HA9159-08-04	3/4"-16	1/4"-19	31,5	33,5	19	19
HA9159-08-06	3/4"-16	3/8"-19	31,5	36,5	19	22
HA9159-08-08	3/4"-16	1/2"-14	34	43	22	27
HA9159-08-12	3/4"-16	3/4"-14	37	49	27	36
HA9159-10-06	7/8"-14	3/8"-19	36,5	39,5	22	22
HA9159-10-08	7/8"-14	1/2"-14	36,5	43	22	27
HA9159-10-12	7/8"-14	3/4"-14	39,5	49	27	36
HA9159-12-08	1"1/16-12	1/2"-14	42	45,5	27	27
HA9159-12-12	1"1/16-12	3/4"-14	42	49	27	36
HA9159-12-16	1"1/16-12	1"-11	44,5	52	33	41
HA9159-14-12	1"3/16-12	3/4"-14	44	50,5	33	36
HA9159-16-12	1"5/16-12	1/4"-19	46	52	33	36
HA9159-16-16	1"5/16-12	1"-11	46	52	33	41
HA9159-16-20	1"5/16-12	1"1/4-11	51	57	41	50
HA9159-20-16	1"5/8-12	1"-11	52	57	41	41
HA9159-20-20	1"5/8-12	1"1/4-11	52	57	41	50
HA9159-24-20	1"7/8-12	1"1/4-11	59	61	48	50
HA9159-24-24	1"7/8-12	1"1/2-11	59	61	48	55

HA9158

Run Tee Adjustable Elbow
 Connector JIC Male BSPP
 Cylindric Male with O-Ring
 and Retaining Ring
TE reverse Mâle JIC - Mâle
 GAZ cyl + O-Ring + Bague de
 retenue



Code	F1	F2	L1 mm	L2 mm	CH1 mm	CH2 mm
HA9158-04-02	7/16"-20	1/8"-28	22,5	26	12	14
HA9158-04-04	7/16"-20	1/4"-19	27	31,5	14	19
HA9158-04-06	7/16"-20	3/8"-19	28,5	36,5	17	22
HA9158-04-08	7/16"-20	1/2"-14	31	43	22	27
HA9158-05-02	1/2"-20	1/8"-28	24	27,5	14	14
HA9158-05-04	1/2"-20	1/4"-19	27	31,5	14	19
HA9158-05-06	1/2"-20	3/8"-19	28,5	36,5	17	22
HA9158-06-04	9/16"-18	1/4"-19	27	31,5	14	19
HA9158-06-06	9/16"-18	3/8"-19	28,5	36,5	17	22
HA9158-06-08	9/16"-18	1/2"-14	31	43	22	27
HA9158-08-04	3/4"-16	1/4"-19	31,5	33,5	19	19
HA9158-08-06	3/4"-16	3/8"-19	31,5	36,5	19	22
HA9158-08-08	3/4"-16	1/2"-14	34	43	22	27
HA9158-08-12	3/4"-16	3/4"-14	37	49	27	36
HA9158-10-06	7/8"-14	3/8"-19	36,5	39,5	22	22
HA9158-10-08	7/8"-14	1/2"-14	36,5	43	22	27
HA9158-10-12	7/8"-14	3/4"-14	39,5	49	27	36
HA9158-12-08	1"1/16-12	1/2"-14	42	45,5	27	27
HA9158-12-12	1"1/16-12	3/4"-14	42	49	27	36
HA9158-12-16	1"1/16-12	1"-11	44,5	52	33	41
HA9158-14-12	1"3/16-12	3/4"-14	44	50,5	33	36
HA9158-16-12	1"5/16-12	1/4"-19	46	52	33	36
HA9158-16-16	1"5/16-12	1"-11	46	52	33	41
HA9158-16-20	1"5/16-12	1"1/4-11	51	57	41	50
HA9158-20-16	1"5/8-12	1"-11	52	57	41	41
HA9158-20-20	1"5/8-12	1"1/4-11	52	57	41	50
HA9158-24-20	1"7/8-12	1"1/4-11	59	61	48	50
HA9158-24-24	1"7/8-12	1"1/2-11	59	61	48	55

TUYAUX
Hydraulique

TUYAUX
PTFE

RACCORDS
Standard

RACCORDS
Interlock

RACCORDS
Afacrimp

Accessoires

RACCORDS en
Acier Inoxydable

ADAPTATEURS
Standard

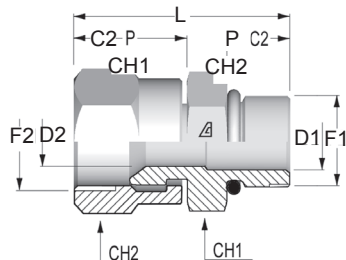
ADAPTATEURS
ORFS

ADAPTATEURS
MÉTRIQUE-BSP

SERTISSEUSES

HA9024

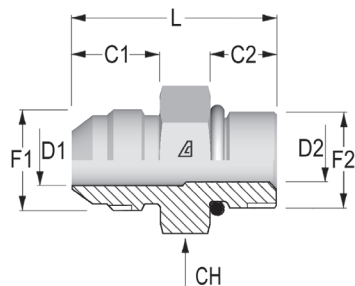
Straight Connector
Metric Male with O-Ring - JIC
Female
Adaptateur Mâle métrique +
O-ring - femelle tournant JIC



Code	F1	F2	P mm	L mm	C2 mm	CH1 mm	CH2 mm
HA9024-04-10	M10x1	7/16"-20	17	34,5	8,5	14	16
HA9024-04-12	M12x1,5	7/16"-20	17	36,5	11	17	16
HA9024-05-10	M10x1	1/2"-20	18,5	36,5	8,5	14	17
HA9024-05-12	M12x1,5	1/2"-20	18,5	39	11	17	17
HA9024-05-14	M14x1,5	1/2"-20	18,5	40	11	19	17
HA9024-06-14	M14x1,5	9/16"-18	19	41	11	19	19
HA9024-06-16	M16x1,5	9/16"-18	19	42,5	11,5	22	19
HA9024-08-16	M16x1,5	3/4"-16	22,5	44	11,5	22	25
HA9024-08-18	M18x1,5	3/4"-16	22,5	45,5	12,5	24	25
HA9024-10-18	M18x1,5	7/8"-14	25,5	48,5	12,5	24	27
HA9024-10-20	M20x1,5	7/8"-14	25,5	50	13	24	27
HA9024-10-22	M22x1,5	7/8"-14	25,5	51	13	27	27
HA9024-12-22	M22x1,5	1"1/16-12	27	53,5	13	27	32
HA9024-12-27	M27x2	1"1/16-12	27	57,5	16	32	32
HA9024-14-26	M26x1,5	1"3/16-12	49,5	60	16	32	36
HA9024-16-27	M27x2	1"5/16-12	30	60	16	36	38
HA9024-16-33	M33x2	1"5/16-12	30	61	16	41	38
HA9024-20-42	M42x2	1"5/8-12	32	66	16	50	50
HA9024-24-48	M48x2	1"7/8-12	37	76	17,5	55	55

HA9068

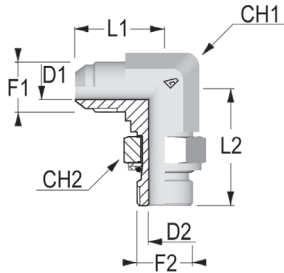
Straight Connector
JIC Male - Metric Male with
O-Ring
Adaptateur Mâle - Mâle Métrique
+ joint encasé



Code	F1	F2	L mm	C1 mm	C2 mm	CH mm
HA9068-04-10	7/16"-20	M10x1	30	14	11	14
HA9068-04-12	7/16"-20	M12x1,5	31,5	14	13,5	17
HA9068-05-10	1/2"-20	M10x1	30,5	14	11	14
HA9068-05-12	1/2"-20	M12x1,5	33,5	14	13,5	17
HA9068-05-14	1/2"-20	M14x1,5	32	14	13,5	19
HA9068-06-14	9/16"-18	M14x1,5	33,5	14	13,5	19
HA9068-06-16	9/16"-18	M16x1,5	35	14	14	22
HA9068-08-16	3/4"-16	M16x1,5	35	16,5	14	22
HA9068-08-18	3/4"-16	M18x1,5	37	16,5	15	24
HA9068-10-18	7/8"-14	M18x1,5	38,5	19,5	15	24
HA9068-10-20	7/8"-14	M20x1,5	41,5	19,5	15,5	24
HA9068-10-22	7/8"-14	M22x1,5	43	22	15,5	27
HA9068-12-22	1"1/16-12	M22x1,5	45,5	22	18,5	27
HA9068-12-27	1"1/16-12	M27x2	49	23	18,5	32
HA9068-14-26	1"3/16-12	M26x1,5	53	23	18,5	32
HA9068-16-27	1"5/16-12	M27x2	50,5	24,5	18,5	36
HA9068-16-33	1"5/16-12	M33x2	51	27,5	20	41
HA9068-20-42	1"5/8-12	M42x2	55	66	16	50
HA9068-24-48	1"7/8-12	M48x2	60	76	17,5	55

HA9069

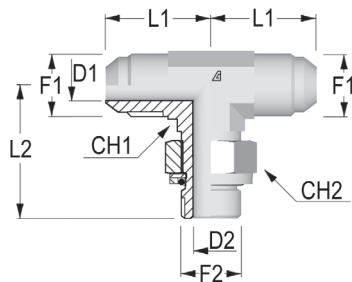
90° Adjustable Elbow
Connector JIC Male
Metric Male with O-Ring
and Retaining Ring
Coude 90° Adapteur Mâle JIC -
Mâle métrique + O-Ring +
Bague de retenue



Code	F1	F2	L1 mm	L2 mm	CH1 mm	CH2 mm
HA9069-04-10	7/16-20	M10x1,0	22,5	27,5	12	14
HA9069-04-12	7/16-20	M12x1,5	27	31,5	14	17
HA9069-05-10	1/2-20	M10x1,0	24	27,5	14	14
HA9069-05-12	1/2-20	M12x1,5	27	31,5	14	17
HA9069-05-14	1/2-20	M14x1,5	27	32,5	14	19
HA9069-06-14	9/16-18	M14x1,5	27	32,5	14	19
HA9069-06-16	9/16-18	M16x1,5	28,5	36,5	17	22
HA9069-08-16	3/4-16	M16x1,5	31,5	36,5	19	22
HA9069-08-18	3/4-16	M18x1,5	31,5	39,5	19	24
HA9069-10-18	7/8-14	M18x1,5	36,5	41,5	22	24
HA9069-10-20	7/8-14	M20x1,5	36,5	43	22	27
HA9069-10-22	7/8-14	M22x1,5	36,5	43	22	27
HA9069-12-22	1 1/16-12	M22x1,5	42	45,5	27	27
HA9069-12-27	1 1/16-12	M27x1,5	42	51,5	27	32
HA9069-14-26	1 3/16-12	M26x1,5	44	50,5	27	36
HA9069-16-27	1 5/16-12	M27x1,5	46	55	33	32
HA9069-16-33	1 5/16-12	M33x1,5	46	55	33	41
HA9069-20-42	1 5/8-12	M42x2	52	60	41	50
HA9069-24-48	1 7/8-12	M48x1,5	59	67	48	55

HA9169

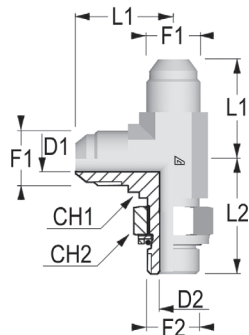
Branch Tee Adjustable Elbow
Connector JIC Male - Metric
Male with O-Ring
and Retaining Ring
TE Mâle JIC - Mâle métrique +
O-Ring + Bague de retenue



Code	F1	F2	L1 mm	L2 mm	CH1 mm	CH2 mm
HA9169-04-10	7/16-20	M10x1,0	22,5	27,5	12	14
HA9169-04-12	7/16-20	M12x1,5	27	31,5	14	17
HA9169-05-10	1/2-20	M10x1,0	24	27,5	14	14
HA9169-05-12	1/2-20	M12x1,5	27	31,5	14	17
HA9169-05-14	1/2-20	M14x1,5	27	32,5	14	19
HA9169-06-14	9/16-18	M14x1,5	27	32,5	14	19
HA9169-06-16	9/16-18	M16x1,5	28,5	36,5	17	22
HA9169-08-16	3/4-16	M16x1,5	31,5	36,5	19	22
HA9169-08-18	3/4-16	M18x1,5	31,5	39,5	19	24
HA9169-10-18	7/8-14	M18x1,5	36,5	41,5	22	24
HA9169-10-20	7/8-14	M20x1,5	36,5	43	22	27
HA9169-10-22	7/8-14	M22x1,5	36,5	43	22	27
HA9169-12-22	1 1/16-12	M22x1,5	42	45,5	27	27
HA9169-12-27	1 1/16-12	M27x1,5	42	51,5	27	32
HA9169-14-26	1 3/16-12	M26x1,5	44	50,5	27	36
HA9169-16-27	1 5/16-12	M27x1,5	46	55	33	32
HA9169-16-33	1 5/16-12	M33x1,5	46	55	33	41
HA9169-20-42	1 5/8-12	M42x2	52	60	41	50
HA9169-24-48	1 7/8-12	M48x1,5	59	67	48	55

HA9168

**Run Tee Adjustable Elbow
Connector JIC Male - Metric
Male with O-Ring
and Retaining Ring**
**TE renverse Mâle JIC37° -
Mâle métrique + O-Ring +
Bague de retenue**



Code	F1	F2	L1 mm	L2 mm	CH1 mm	CH2 mm
HA9168-04-10	7/16-20	M10x1,0	22,5	27,5	12	14
HA9168-04-12	7/16-20	M12x1,5	27	31,5	14	17
HA9168-05-10	1/2-20	M10x1,0	24	27,5	14	14
HA9168-05-12	1/2-20	M12x1,5	27	31,5	14	17
HA9168-05-14	1/2-20	M14x1,5	27	32,5	14	19
HA9168-06-14	9/16-18	M14x1,5	27	32,5	14	19
HA9168-06-16	9/16-18	M16x1,5	28,5	36,5	17	22
HA9168-08-16	3/4-16	M16x1,5	31,5	36,5	19	22
HA9168-08-18	3/4-16	M18x1,5	31,5	39,5	19	24
HA9168-10-18	7/8-14	M18x1,5	36,5	41,5	22	24
HA9168-10-20	7/8-14	M20x1,5	36,5	43	22	27
HA9168-10-22	7/8-14	M22x1,5	36,5	43	22	27
HA9168-12-22	1 1/16-12	M22x1,5	42	45,5	27	27
HA9168-12-27	1 1/16-12	M27x1,5	42	51,5	27	32
HA9168-14-26	1 3/16-12	M26x1,5	44	50,5	27	36
HA9168-16-27	1 5/16-12	M27x1,5	46	55	33	32
HA9168-16-33	1 5/16-12	M33x1,5	46	55	33	41
HA9168-20-42	1 5/8-12	M42x2	52	60	41	50
HA9168-24-48	1 7/8-12	M48x1,5	59	67	48	55



BSP ADAPTERS/ ADAPTATEURS BSP

BSP METRIC MALE, FEMALE/ MÂLE,
FEMELLE BSP MÉTRIQUE200

TUYAUX
Hydraulique

TUYAUX
PTFE

RACCORDS
Standard

RACCORDS
Interlock

RACCORDS
Alfacrimp

Accessoires

RACCORDS en
Acier Inoxydable

ADAPTATEURS
Standard

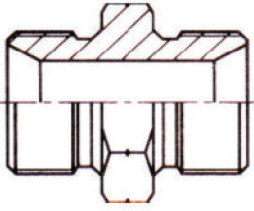
ADAPTATEURS
ORFS

ADAPTATEURS
MÉTRIQUE-BSP

SERTISSEUSES

HA9000

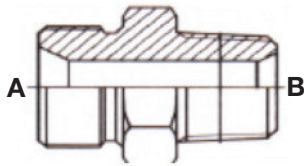
**Male BSPP-Male BSPP
Straight
MBSPP-MBSPP Droit**



Code	B1 (BSPP) In	B2 (BSPP) In	L mm	C HEX mm
HA9000-02-02	G1/8-28	G1/8-28	26	14
HA9000-04-02	G1/8-28	G1/4-19	28	19
HA9000-06-02	G1/8-28	G3/8-19	31.5	22
HA9000-08-02	G1/8-28	G1/2-14	36	27
HA9000-04-04	G1/4-19	G1/4-19	30	19
HA9000-06-04	G1/4-19	G3/8-19	33.5	22
HA9000-08-04	G1/4-19	G1/2-14	38	27
HA9000-10-04	G1/4-19	G5/8-14	39.5	30
HA9000-06-06	G3/8-19	G3/8-19	33	22
HA9000-08-06	G3/8-19	G1/2-14	39.5	27
HA9000-10-06	G3/8-19	G5/8-14	42	30
HA9000-12-06	G3/8-19	G3/4-14	43	32
HA9000-08-08	G1/2-14	G1/2-14	42	27
HA9000-10-08	G1/2-14	G5/8-14	43.5	30
HA9000-12-08	G1/2-14	G3/4-14	45.5	32
HA9000-10-10	G5/8-14	G5/8-14	45	30
HA9000-12-10	G5/8-14	G3/4-14	47	32
HA9000-16-12	G5/8-14	G1-11	51.5	41
HA9000-12-12	G3/4-14	G3/4-14	48	32
HA9000-16-12	G3/4-14	G1-11	52.5	41
HA9000-20-12	G3/4-14	G1/4-11	56	50
HA9000-16-16	G1-11	G1-11	54	41
HA9000-20-16	G1-11	G1/4-11	58	50
HA9000-24-16	G1-11	G1 1/2-11	60.5	55
HA9000-20-20	G1/4-11	G1 1/4-11	58	50
HA9000-24-20	G1/4-11	G1 1/2-11	60.5	55
HA9000-24-24	G1/2-11	G1 1/2-11	63	55
HA9000-32-24	G1/2-11	G2-11	66.5	70
HA9000-32-32	G2-11	G2-11	68	70
HA9000-40-40	G2 1/2-11	G2 1/2-11	81	90
HA9000-48-48	G3-11	G3-11	92	100

HA9007

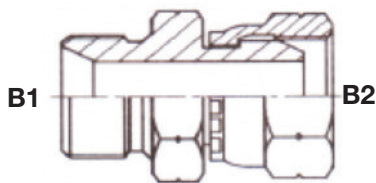
Male BSPP-Male NPT
Straight
MBSPP-MNPT Droit



Code	A (BSPP) In	B (NPT) In	L mm	C HEX mm
HA9007-02-02	G1/8-28	Z1/8-27	26	14
HA9007-02-04	G1/8-28	Z1/4-18	31	17
HA9007-04-02	G1/4-19	Z1/8-27	28	19
HA9007-04-04	G1/4-19	Z1/4-18	33	19
HA9007-06-06	G1/4-19	Z3/8-18	34	19
HA9007-04-08	G1/4-19	Z1/2-14	39.5	22
HA9007-06-04	G3/8-19	Z1/4-18	38	22
HA9007-06-06	G3/8-19	Z3/8-18	37.5	22
HA9007-06-08	G3/8-19	Z1/2-14	41	22
HA9007-06-12	G3/8-19	Z3/4-14	43	30
HA9007-08-06	G1/2-14	Z3/8-18	42	27
HA9007-08-08	G1/2-14	Z1/2-14	45.5	27
HA9007-08-12	G1/2-14	Z3/4-14	45.5	30
HA9007-08-16	G1/2-14	Z1-11.5	52.5	36
HA9007-10-08	G5/8-14	Z1/2-14	47	30
HA9007-10-12	G5/8-14	Z3/4-14	47	30
HA9007-12-06	G3/4-14	Z3/8-18	45.5	32
HA9007-12-08	G3/4-14	Z1/2-14	49	32
HA9007-12-12	G3/4-14	Z3/4-14	49	32
HA9007-12-16	G3/4-14	Z1-11.5	55	36
HA9007-16-12	G1-11	Z3/4-14	53	41
HA9007-16-16	G1-11	Z1-11.5	59	41
HA9007-16-20	G1-11	Z1 1/4-11.5	60	46
HA9007-20-16	G1 1/4-11	Z1-11.5	61	50
HA9007-20-20	G1 1/4-11	Z1 1/4-11.5	62	50
HA9007-20-24	G1 1/4-11	Z1 1/2-11.5	63	50
HA9007-24-20	G1 1/2-11	Z1 1/4-11.5	64.5	55
HA9007-24-24	G1 1/2-11	Z1 1/2-11.5	65.5	55
HA9007-24-32	G1 1/2-11	Z2-11.5	67.5	65
HA9007-32-20	G2-11	Z1 1/4-11.5	69	70
HA9007-32-24	G2-11	Z1 1/2-11.5	70	70
HA9007-32-32	G2-11	Z2-11.5	70	70

HA9015

Female BSPP-FBX Swivel
FBSP-FCB Pivotant

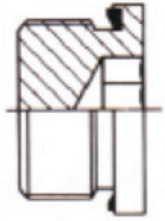


Code	B1 (BSPP) In	B2 (BSPP) In	L1 mm	L2 mm	C1 HEX mm	C2 HEX mm
HA9015-02-02	G1/8-28	G1/8-28	25	5.5	14	14
HA9015-02-04	G1/8-28	G1/4-19	27	5.5	14	19
HA9015-04-04	G1/4-19	G1/4-19	29	5.5	19	19
HA9015-04-06	G1/4-19	G3/8-19	30.5	6.3	19	22
HA9015-04-08	G1/4-19	G1/2-14	32	7.5	19	27
HA9015-06-06	G3/8-19	G3/8-19	34	6.3	22	22
HA9015-06-08	G3/8-19	G1/2-14	35.5	7.5	22	27
HA9015-06-10	G3/8-19	G5/8-14	36	9.5	22	30
HA9015-08-06	G1/2-14	G3/8-19	38.5	6.3	27	27
HA9015-08-08	G1/2-14	G1/2-14	40	7.5	27	27
HA9015-08-12	G1/2-14	G3/4-14	41	10.9	27	32
HA9015-10-08	G5/8-14	G1/2-14	41.5	7.5	30	30
HA9015-10-10	G5/8-14	G5/8-14	42	9.5	30	27
HA9015-10-12	G5/8-14	G3/4-14	42.5	10.9	30	32
HA9015-12-10	G3/4-14	G5/8-14	44	9.5	32	32
HA9015-12-12	G3/4-14	G3/4-14	44.5	10.9	32	30
HA9015-12-16	G3/4-14	G1-11	46	11.7	32	41
HA9015-16-12	G1-11	G3/4-14	49	10.9	41	41
HA9015-16-16	G1-11	G1-11	50	11.7	41	32
HA9015-16-20	G1-11	G1 1/4-11	53	11	41	50
HA9015-20-16	G1 1/4-11	G1-11	52	11.7	50	50
HA9015-20-20	G1 1/4-11	G1 1/4-11	55	11	50	41
HA9015-20-24	G1 1/4-11	G1 1/2-11	55.5	13	50	55
HA9015-24-24	G1 1/2-11	G1 1/2-11	58	13	55	55
HA9015-32-32	G2-11	G2-11	63.5	16	70	70

BSP METRIC ADAPTERS

HA9028

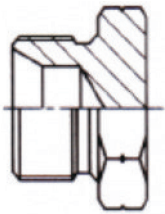
**BSP Male Captive Seal
Hollow Hex Plug
Bouchon BSP Cle Allen**



Code	T	L mm
HA9028-02	G1/8-28	12.2
HA9028-04	G1/4-19	17.2
HA9028-06	G3/8-19	17.2
HA9028-08	G1/2-14	19.2
HA9028-12	G3/4-14	21.2
HA9028-16	G1-11	22.8
HA9028-20	G1-1/4-11	26.8
HA9028-24	G1-1/2-11	28.8

HA9030

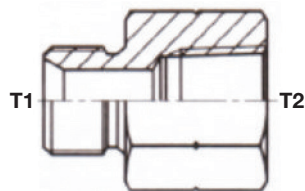
**Male BSPP Plug
Bouchon MBSPP**



Code	B (BSPP)	L mm	C HEX mm
HA9030-02	G1/8-28	16	14
HA9030-04	G1/4-19	18	19
HA9030-06	G3/8-19	21.5	22
HA9030-08	G1/2-14	26	27
HA9030-10	G5/8-14	27.5	30
HA9030-12	G3/4-14	29.5	32
HA9030-16	G1-11	34	41
HA9030-20	G1-1/4-11	37.5	50
HA9030-24	G1-1/2-11	40	55
HA9030-32	G2-11	43.5	70

HA9035

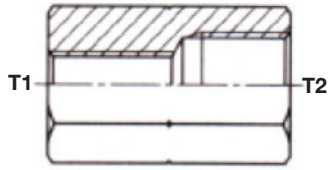
**BSPP Male/NPT female
Adapteur MBSPP x Fem/NPT**



Code	T1	T2	L mm	C HEX mm
HA9035-04-06	G1/8-28	Z1/4-18	31	19
HA9035-06-06	G1/4-19	Z3/8-18	33	22
HA9035-08-08	G3/8-19	Z1/2-14	42	30
HA9035-12-12	G1/2-14	Z3/4-14	44.5	36
HA9035-16-16	G5/8-14	Z1-11-1/2	52	41
HA9035-20-20	G3/4-14	Z1-1/4-11-1/2	55	50
HA9035-24-24	G1-11	Z1-1/2SP-11-1/2	60	60
HA9035-32-32	G1-1/4-11	Z2-11-1/2	62	70

HA9043

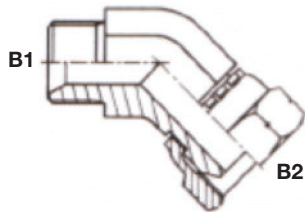
BSPP Female Coupling
BSPP Femelle x BSPP Femelle



Code	T1	T2	L mm	C HEX mm
HA9043-02-02	G1/8-28	G1/8-28	22	14
HA9043-04-02	G1/4-19	G1/8-28	24	19
HA9043-04-04	G1/4-19	G1/4-19	24	19
HA9043-06-04	G1/4-19	G3/8-19	29	22
HA9043-06-06	G3/8-19	G3/8-19	26	22
HA9043-06-08	G3/8-19	G1/2-14	33	27
HA9043-08-08	G1/2-14	G1/2-14	32	27
HA9043-10-08	G15/8-14	G1/2-14	36	30
HA9043-10-10	G5/8-14	G5/8-14	36	30
HA9043-12-12	G3/4-14	G3/4-14	36	32
HA9043-16-12	G1-11	G3/4-14	43	41
HA9043-16-16	G1-11	G1-11	40	41
HA9043-20-16	G1-1/4-11	G1-11	46	50
HA9043-20-20	G1-1/4-11	G1-1/4-11	44	50
HA9043-24-20	G1-1/2-11	G1-1/4-11	48	55
HA9043-24-24	G1-1/2-11	G1-1/2-11	45	55
HA9043-24-32	G1-1/2-11	G2-11	56	70
HA9043-32-32	G2-11	G2-11	54	70

HA9047

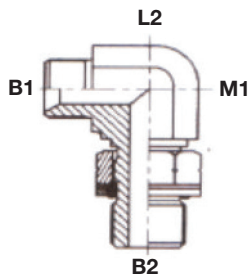
Male BSPP-FBSPP Swivel 45°
MBSPP-FBSPP Swivel 45°



Code	B1 (BSPP)	B2 (BSPP)	M1 mm	L2 mm	Y FLATS mm	C2 HEX mm
HA9047-04-04	G1/4-19	G1/4-19	20.3	14	5.5	19
HA9047-04-06	G1/4-19	G3/8-19	20.3	19	6.3	22
HA9047-06-04	G3/8-19	G1/4-19	22	19	5.5	22
HA9047-06-06	G3/8-19	G3/8-19	22	22	6.3	19
HA9047-08-06	G1/2-14	G3/8-19	27	22	6.3	27
HA9047-08-08	G1/2-14	G1/2-14	27	27	7.5	22
HA9047-10-08	G5/8-14	G1/2-14	28.5	27	7.5	30
HA9047-10-10	G5/8-14	G5/8-14	28.5	30	9.5	27
HA9047-12-12	G3/4-14	G3/4-14	31	30	10.9	32
HA9047-16-16	G1-11	G1-11	35	32	11.7	41
HA9047-20-20	G1-1/4-11	G1-14-11	38.5	41	11	50
HA9047-24-24	G1-1/2-11	G1-1/2-11	44	70	13	55
HA9047-32-32	G2-11	G2-11	51	70	16	70

HA9052

Male BSPP X MBSPP 90° ADJ
MBSPP-90° X MBSPP ADJ

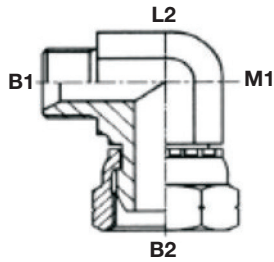


Code	B1 (BSPP) In.	B2 (BSPP) In.	M1 mm	L2 mm	Y FLATS mm	C2 HEX mm
HA9052-04-04	G1/4-19	G1/4-19	25	31.5	14	19
HA9052-04-06	G1/4-19	G3/8-19	26.5	36.8	16	22
HA9052-06-06	G3/8-19	G3/8-19	28	36.8	16	22
HA9052-06-08	G3/8-19	G1/2-14	31	43.2	22	27
HA9052-08-08	G1/2-14	G1/2-14	34.5	43.2	22	27
HA9052-08-12	G1/2-14	G3/4-14	40	49.3	27	32
HA9052-12-12	G3/4-14	G3/4-14	40	49.3	27	32
HA9052-12-16	G3/4-14	G1-11	45	53	33	41
HA9052-16-16	G1-11	G1-11	46	53	33	41
HA9052-20-16	G1-1/4-11	G1-11	50.5	58	41	41
HA9052-20-20	G1-1/4-11	G1-1/4-11	51.5	58	41	50
HA9052-24-24	G1-1/2-11	G1-1/2-11	58.5	63	48	55

BSP METRIC ADAPTERS

HA9060

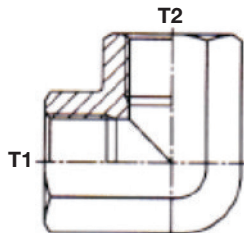
Male BSPP-FPX 90° Swivel
MBSPP-90° FPX Pivottant



Code	B1 (BSPP) In.	B2 (BSPP) In.	M1 mm	L2 mm	Y FLATS mm	C2 HEX mm
HA9060-02-02	G1/8-28	G1/8-28	19.8	31.5	11	14
HA9060-04-04	G1/4-19	G1/4-19	24.5	36.8	14	19
HA9060-04-06	G1/4-19	G3/8-19	25	36.8	14	22
HA9060-06-04	G3/8-19	G1/4-19	27.5	36.8	16	22
HA9060-06-06	G3/8-19	G3/8-19	27.5	36.8	16	19
HA9060-08-06	G1/2-14	G3/8-19	34.5	43.2	22	27
HA9060-08-08	G1/2-14	G1/2-14	34.5	43.2	22	22
HA9060-10-08	G5/8-14	G1/2-14	35	49.3	22	30
HA9060-10-10	G5/8-14	G5/8-14	35	49.3	22	27
HA9060-12-12	G3/4-14	G3/4-14	40	49.3	27	32
HA9060-16-16	G1-11	G1-11	48	53	33	41
HA9060-20-20	G1-1/4-11	G1-1/4-11	50.5	58	41	50
HA9060-24-24	G1-1/2-11	G1-1/2-11	57.5	58	48	55
HA9060-32-32	G2-11	G2-11	72.5	63	63	70

HA9076

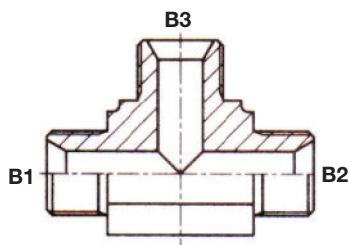
90° Elbow BSPP Female
FBSPP Coude 90°



Code	T1 In.	T2 In.	M1 mm	M2 mm	Y FLATS mm
HA9076-02-02	G1/8-28	G1/8-28	20	20	16
HA9076-04-04	G1/4-19	G1/4-19	22.5	22.5	19
HA9076-06-06	G3/8-19	G3/8-19	26	26	24
HA9076-08-08	G1/2-14	G1/2-14	31	31	27
HA9076-12-12	G3/4-14	G3/4-14	34	34	33
HA9076-16-16	G1-11	G1-11	42	42	41
HA9076-20-20	G1-1/4-11	G1-1/4-11	48	48	50
HA9076-24-24	G1-1/2-11	G1-1/2-11	53	53	60
HA9076-32-32	G2-11	G2-11	62	62	70

HA9080

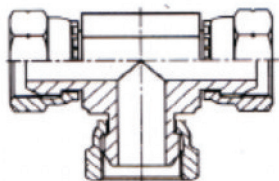
Male BSPP-Male BSPP-Male BSPP Tee
T-MBSPP-MBSPP-MBSPP



Code	B1, B2 (BSPP) In.	B3 (BSPP) In.	M1, M2 mm	M3 mm	Y FLATS mm
HA9080-02-02-02	G1/8-28	G1/8-28	19.8	19.8	11
HA9080-04-04-04	G1/4-19	G1/4-19	24.5	24.5	14
HA9080-06-06-06	G3/8-19	G1/2-14	27.5	27.5	16
HA9080-08-08-08	G1/2-14	G1/2-14	34.5	34.5	22
HA9080-10-10-10	G5/8-14	G5/8-14	35	35	22
HA9080-12-12-12	G3/4-14	G3/4-14	40	40	27
HA9080-16-16-16	G1-11	G1-11	46	46	33
HA9080-20-20-20	G1 1/4-11	G1 1/4-11	50.5	50.5	41
HA9080-24-24-24	G1 1/2-11	G1 1/2-11	57.5	57.5	48
HA9080-32-32-32	G2-11	G2-11	72.5	72.5	63

HA9085

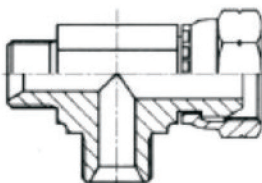
FBSPP Swivel Tee
FBSPP Te Tournant



Code	B1, B2, B3 (BSPP) In.	L1, L2, L3 mm	Y FLATS mm	C1, C2, C3 HEX mm
HA9085-02-02-02	G1/8-28	5.5	14	14
HA9085-04-04-04	G1/4-19	5.5	19	19
HA9085-06-06-06	G3/8-19	6.3	22	22
HA9085-08-08-08	G1/2-14	7.5	27	27
HA9085-10-10-10	G5/8-14	9.5	30	30
HA9085-12-12-12	G3/4-14	10.9	32	32
HA9085-16-16-16	G1-11	11.7	41	41
HA9085-20-20-20	G1 1/4-11	11	50	50
HA9085-24-24-24	G1 1/2-11	13	55	55
HA9085-32-32-32	G2-11	16	70	70

HA9090

**Male BSPP-FBSPP-
SWI X MBSPP Tee**
Te MBSPP/FBSPP Tournant X MBSPP



Code	B1, B2, B3 (BSPP) In.	M1, M2 mm	L2 mm	C2 HEX mm
HA9090-02-02-02	G1/8-28	19.8	5.5	14
HA9090-04-04-04	G1/4-19	25	5.5	19
HA9090-06-06-06	G3/8-19	27.5	6.3	22
HA9090-08-08-08	G1/2-14	34.5	7.5	27
HA9090-10-10-10	G5/8-14	34.5	9.5	30
HA9090-12-12-12	G3/4-14	40	10.9	32
HA9090-16-16-16	G1-11	46	11.7	41
HA9090-20-20-20	G1 1/4-11	50.5	11	50
HA9090-24-24-24	G1 1/2-11	57.5	13	55
HA9090-32-32-32	G2-11	72.5	16	70

ORFS ADAPTERS/ ADAPTATEURS ORFS

MALE-FEMALE UNIONS/UNIONS
MÂLE-FEMELLE.....207

BULKHEAD/CLOISONS.....210

ORB.....212

AORB.....213

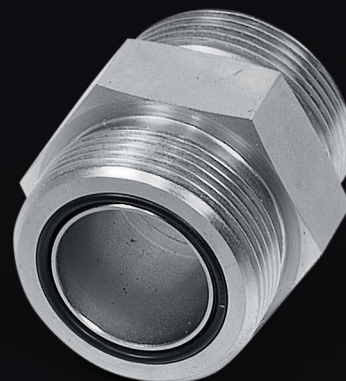
JIC.....215

NPT.....216

JIC 37°, JIC ORFS - FLANGES/
BRIDES-JIC 37°, JIC ORFS.....217

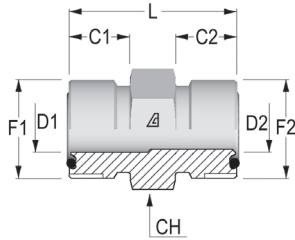
NUTS, PLUGS
BOULONS, BOUCHONS.....218

FLANGES/BRIDES.....220



HAF1204

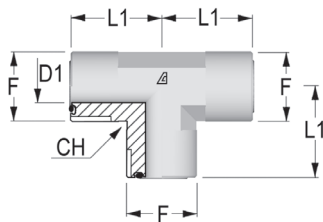
Straight Union ORFS Male
Adapteur Mâle ORFS -
Mâle ORFS



Code	F1	F2	L mm	C1 mm	C2 mm	CH mm
HAF1204-04-04	9/16-18	9/16-18	27	10	10	17
HAF1204-06-04	11/16-16	9/16-18	30	11	10	19
HAF1204-06-06	11/16-16	11/16-16	31	11	11	19
HAF1204-08-06	13/16-16	11/16-16	33,5	13	11	22
HAF1204-08-08	13/16-16	13/16-16	35,5	13	13	22
HAF1204-10-08	1-14	13/16-16	40	15,5	13	27
HAF1204-10-10	1-14	1-14	42,5	15,5	15,5	27
HAF1204-12-10	1 3/16-12	1-14	45,5	17	15,5	32
HAF1204-12-12	1 3/16-12	1 3/16-12	47	17	17	32
HAF1204-16-12	1 7/16-12	1 3/16-12	49,5	17,5	17	41
HAF1204-16-16	1 7/16-12	1 7/16-12	49,5	17,5	17,5	41
HAF1204-20-16	1 11/16-12	1 7/16-12	51,5	17,5	17,5	46
HAF1204-20-20	1 11/16-12	1 11/16-12	51,5	17,5	17,5	46
HAF1204-24-24	2-12	2-12	53	17,5	17,5	55

HAF1220

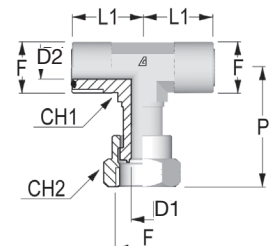
Branch Tee Union ORFS Male
TE Mâle ORFS - Mâle ORFS



Code	F	L1 mm	CH mm
HAF1220-04-04	9/16"-18	21,5	14
HAF1220-06-06	11/16"-16	25	17
HAF1220-08-08	13/16"-16	28	19
HAF1220-10-10	1"-14	33,5	27
HAF1220-12-12	1"3/16-12	37,5	27
HAF1220-16-16	1"7/16-12	42	36
HAF1220-20-20	1"11/16-12	45	41
HAF1220-24-24	2"-12	49	48

HAF1227

Branch Tee Union
ORFS Male - ORFS Female
TE mâle ORFS - Femelle
tournant ORFS

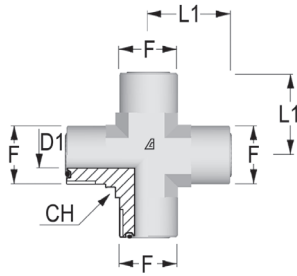


Code	F	L1 mm	P mm	CH1 mm	CH2 mm
HAF1227-04-04	9/16"-18	21,5	26,5	14	17
HAF1227-06-06	11/16"-16	25	29	17	22
HAF1227-08-08	13/16"-16	28	38	19	24
HAF1227-10-10	1"-14	33,5	41,5	27	30
HAF1227-12-12	1"3/16-12	37,5	46,5	27	36
HAF1227-16-16	1"7/16-12	41,5	53,5	36	41
HAF1227-20-20	1 11/16-12	44,5	58	41	50
HAF1227-24-24	2-12	49	61	48	60

ORFS - ORFS

HAF1229

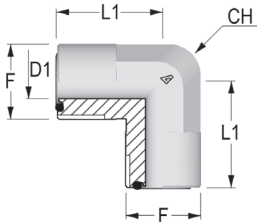
Union Croce ORFS Male
Croix Mâle ORFS



Code	F	L1 mm	CH mm
HAF1229-04-04	9/16"-18	21,5	14
HAF1229-06-06	11/16"-16	25	17
HAF1229-08-08	13/16"-16	28	19
HAF1229-10-10	1"-14	33,5	27
HAF1229-12-12	1"3/16-12	37,5	27
HAF1229-16-16	1"7/16-12	42	36
HAF1229-20-20	1"11/16-12	45	41
HAF1229-24-24	2"-12	49	48

HAF1234

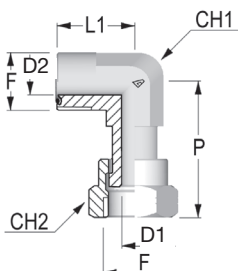
90° Union ORFS Male
Coude 90° Mâle ORFS -
Mâle ORFS



Code	F	L1 mm	CH mm
HAF1234-04-04	9/16"-18	21,5	14
HAF1234-06-06	11/16"-16	25	17
HAF1234-08-08	13/16"-16	28	19
HAF1234-10-10	1"-14	33,5	27
HAF1234-12-12	1"3/16-12	37,5	27
HAF1234-16-16	1"7/16-12	42	36
HAF1234-20-20	1"11/16-12	45	41
HAF1234-24-24	2"-12	49	48

HAF1236

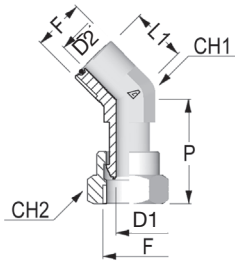
90° Union ORFS
Male - ORFS Female
Coude 90° mâle ORFS -
Femelle tournant ORFS



Code	F	L1 mm	P mm	CH1 mm	CH2 mm
HAF1236-04-04	9/16"-18	21,5	26,5	14	17
HAF1236-06-06	11/16"-16	25	29	17	22
HAF1236-08-08	13/16"-16	28	38	19	24
HAF1236-10-10	1"-14	33,5	41,5	27	30
HAF1236-12-12	1"3/16-12	37,5	46,5	27	36
HAF1236-16-16	1"7/16-12	41,5	53,5	36	41
HAF1236-20-20	1"11/16-12	44,5	58	41	50
HAF1236-24-24	2"-12	49	61	48	60

HAF1237

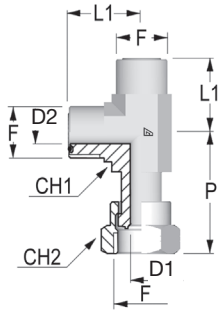
45° Union ORFS
 Male - ORFS Female
 Coude 45° mâle ORFS -
 Femelle ORFS



Code	F	L1 mm	P mm	CH1 mm	CH2 mm
HAF1237-04-04	9/16"-18	16	26,5	14	17
HAF1237-06-06	11/16"-16	19	25	17	22
HAF1237-08-08	13/16"-16	20,5	30	19	24
HAF1237-10-10	1"-14	23,5	36	27	30
HAF1237-12-12	1"3/16-12	26	41	27	36
HAF1237-16-16	1"7/16-12	30	45	36	41
HAF1237-20-20	1 11/16-12	32	45	41	50
HAF1237-24-24	2-12	37	47	48	60

HAF1248

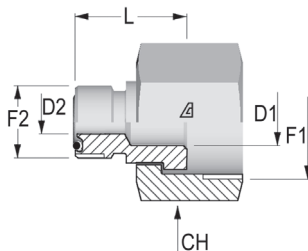
Run Tee Union
 ORFS Male - ORFS Female
 TE mâle renverse ORFS -
 Femelle tournant ORFS



Code	F	L1 mm	P mm	CH1 mm	CH2 mm
HAF1248-04-04	9/16"-18	21,5	26,5	14	17
HAF1248-06-06	11/16"-16	25	29	17	22
HAF1248-08-08	13/16"-16	28	38	19	24
HAF1248-10-10	1"-14	33,5	41,5	27	30
HAF1248-12-12	1"3/16-12	37,5	46,5	27	36
HAF1248-16-16	1"7/16-12	41,5	53,5	36	41
HAF1248-20-20	1 11/16-12	44,5	58	41	50
HAF1248-24-24	2-12	49	61	48	60

HAF3018

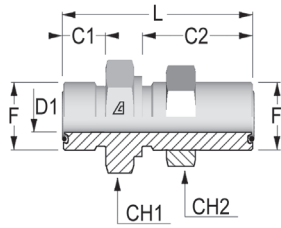
Straight Union ORFS Female -
 ORFS Male
 Adaptateur Femelle ORFS -
 Mâle ORFS



Code	F1	F2	L mm	CH mm
HAF3018-04-06	11/16"-16	9/16"-18	19,5	22
HAF3018-04-08	13/16"-16	9/16"-18	22	24
HAF3018-06-08	13/16-16	11/16"-16	23	24
HAF3018-04-10	1-14	9/16"-18	23	30
HAF3018-06-10	1-14	11/16"-16	24	30
HAF3018-08-10	1-14	13/16"-16	26	30
HAF3018-04-12	1 3/16-12	9/16"-18	25	36
HAF3018-06-12	1 3/16-12	11/16"-16	26	36
HAF3018-08-12	1 3/16-12	13/16"-16	28	36
HAF3018-10-12	1 3/16-12	1"-14	30,5	36
HAF3018-08-16	1 7/16-12	13/16"-16	29,5	41
HAF3018-10-16	1 7/16-12	1"-14	32	41
HAF3018-12-16	1 7/16-12	1"3/16-12	33	41
HAF3018-12-20	1 11/16-12	1"3/16-12	33,5	50
HAF3018-16-20	1 11/16-12	1"7/16-12	38,5	50
HAF3018-16-24	2-12	1"7/16-12	34	57
HAF3018-20-24	2-12	1"11/16-12	34	57

HAF1260LN

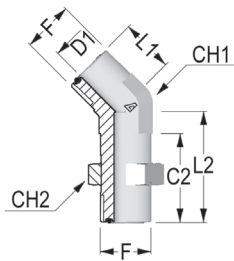
Straight Union ORFS bulkhead
Adapteur mâle ORFS - Mâle
ORFS TC



Code	F	L mm	C1 mm	C2 mm	CH1 mm	CH2 mm
HAF1260LN-04-04	9/16"-18	48	10	31,5	22	22
HAF1260LN-06-06	11/16"-16	53	11	34	27	27
HAF1260LN-08-08	13/16"-16	58	13	36,5	30	30
HAF1260LN-10-10	1"-14	66,5	15,5	40,5	36	36
HAF1260LN-12-12	1"3/16-12	69	17	41,5	41	41
HAF1260LN-16-16	1"7/16-12	70	17,5	42	46	46
HAF1260LN-20-20	1"11/16-12	70	17,5	42	50	50
HAF1260LN-24-24	2"-12	70	17,5	42	60	60

HAF1261LN

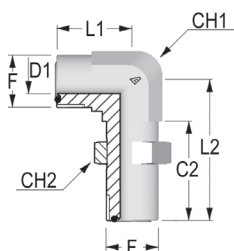
45° Union ORFS Bulkhead
Coude 45° ORFS TC



Code	F	L1 mm	L2 mm	C2 mm	CH1 mm	CH2 mm
HAF1261LN-04-04	9/16"-18	16	44	31,5	14	22
HAF1261LN-06-06	11/16"-16	19	48,5	34	17	27
HAF1261LN-08-08	13/16"-16	20,5	51	36,5	19	30
HAF1261LN-10-10	1"-14	23,5	56,5	40,5	27	36
HAF1261LN-12-12	1"3/16-12	26	60,5	41,5	27	41
HAF1261LN-16-16	1"7/16-12	30	65	42	36	46
HAF1261LN-20-20	1"11/16-12	32	67	42	41	50
HAF1261LN-24-24	2"-12	37	67	42	48	60

HAF1262LN

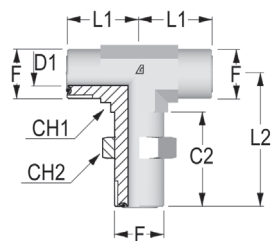
90° Union ORFS Bulkhead
Coude 90° Mâle ORFS - Mâle
ORFS TC



Code	F	L1 mm	L2 mm	C2 mm	CH1 mm	CH2 mm
HAF1262LN-04-04	9/16"-18	22,5	47	31,5	14	22
HAF1262LN-06-06	11/16"-16	26	52	34	17	27
HAF1262LN-08-08	13/16"-16	29	55,5	36,5	19	30
HAF1262LN-10-10	1"-14	34,5	63	40,5	27	36
HAF1262LN-12-12	1"3/16-12	38,5	67	41,5	27	41
HAF1262LN-16-16	1"7/16-12	42,5	71	42	36	46
HAF1262LN-20-20	1"11/16-12	45,5	75,5	42	41	50
HAF1262LN-24-24	2"-12	49,5	79,5	42	48	60

HAF1283LN

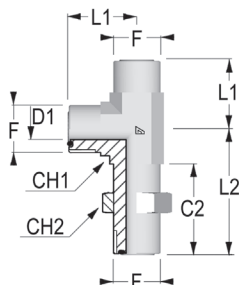
Branch Tee Union ORFS
Bulkhead
Union TE ORFS TC



Code	F	L1 mm	L2 mm	C2 mm	CH1 mm	CH2 mm
HAF1283LN-04-04	9/16"-18	22,5	47	31,5	14	22
HAF1283LN-06-06	11/16"-16	26	52	34	17	27
HAF1283LN-08-08	13/16"-16	29	55,5	36,5	19	30
HAF1283LN-10-10	1"-14	34,5	63	40,5	27	36
HAF1283LN-12-12	1"3/16-12	38,5	67	41,5	27	41
HAF1283LN-16-16	1"7/16-12	42,5	71	42	36	46
HAF1283LN-20-20	1"11/16-12	45,5	75,5	42	41	50
HAF1283LN-24-24	2"-12	49,5	79,5	42	48	60

HAF1284LN

Run Tee Union ORFS Bulkhead
TE mâle renverse ORFS - Mâle
ORFS TC



Code	F	L1 mm	L2 mm	C2 mm	CH1 mm	CH2 mm
HAF1284LN-04-04	9/16"-18	22,5	47	35	14	22
HAF1284LN-06-06	11/16"-16	26	52	39	17	27
HAF1284LN-08-08	13/16"-16	29	55,5	40	19	30
HAF1284LN-10-10	1"-14	34,5	63	43,5	27	36
HAF1284LN-12-12	1"3/16-12	38,5	67	44,5	27	41
HAF1284LN-16-16	1"7/16-12	42,5	71	46	36	46
HAF1284LN-20-20	1"11/16-12	45,5	75,5	46,5	41	50
HAF1284LN-24-24	2"-12	49,5	79,5	45	48	60

TUYAUX
Hydraulique

TUYAUX
PTFE

RACCORDS
Standard

RACCORDS
Interlock

RACCORDS
Africrimp

Accessoires

RACCORDS en
Acier Inoxydable

ADAPTATEURS
Standard

ADAPTATEURS
ORFS

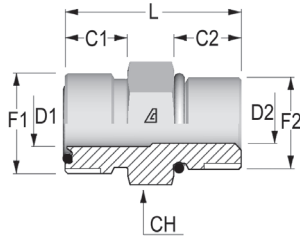
ADAPTATEURS
MÉTRIQUE-BSP

SERTISSEUSES

HAF1231

Straight Connector ORFS
Male SAE UNF/UN Male
with O-Ring

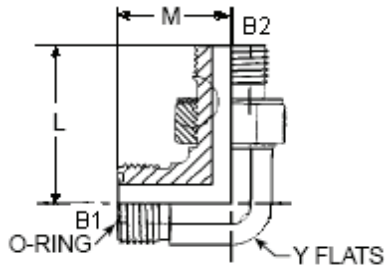
Adapteur mâle ORFS - Mâle
SAE + O-Ring



Code	F1	F2	L mm	C1 mm	C2 mm	CH mm
HAF1231-04-04	9/16"-18	7/16"-20	29	17,5	11	17
HAF1231-04-06	9/16"-18	9/16"-18	30,5	18,5	12	19
HAF1231-06-04	11/16"-16	7/16"-20	34	20	11	19
HAF1231-06-06	11/16"-16	9/16"-18	32	20	12	22
HAF1231-06-08	11/16"-16	3/4"-16	35	21	14	22
HAF1231-08-06	13/16"-16	9/16"-18	37,5	25,5	12	22
HAF1231-08-08	13/16"-16	3/4"-16	36,5	22,5	14	22
HAF1231-08-10	13/16"-16	7/8"-14	40,5	24,5	16	27
HAF1231-08-12	13/16"-16	1"1/16-12	44,5	24,5	18,5	32
HAF1231-10-08	1"-14	3/4"-16	45	31	14	27
HAF1231-10-10	1"-14	7/8"-14	43	27	16	27
HAF1231-10-12	1"-14	1"1/16-12	47	28,5	18,5	32
HAF1231-12-10	1"3/16-12	7/8"-14	50,5	30	16	32
HAF1231-12-12	1"3/16-12	1"1/16-12	48,5	30	18,5	32
HAF1231-12-16	1"3/16-12	1"5/16-12	50	31,5	18,5	41
HAF1231-12-20	1"3/16-12	1"5/8-12	50,5	31,5	18,5	46
HAF1231-16-12	1"7/16-12	1"1/16-12	54	37,5	18,5	41
HAF1231-16-16	1"7/16-12	1"5/16-12	50,5	32	18,5	41
HAF1231-16-20	1"7/16-12	1"5/8-12	52	34	18,5	46
HAF1231-20-16	1"11/16-12	1"5/16-12	58	34	18,5	46
HAF1231-20-20	1"11/16-12	1"5/8-12	52	34	18,5	46
HAF1231-20-24	1"11/16-12	1"7/8-12	54	34	18,5	55
HAF1231-24-24	2"-12	1"7/8-12	54	35,5	18,5	55

HAF1238

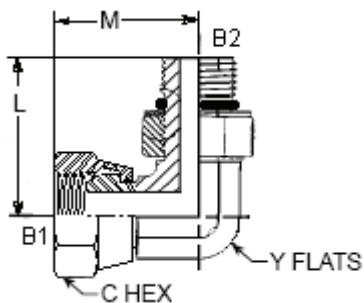
Adjustable MORFS-MOR Elbow 90°
Coude 90° MORFS-MOR Adjustable



Code	B1 (Male ORFS) In	B2 (Male ORB) In	M mm	L mm	Y FLATS mm
HAF1238-04-04	9/16-18	7/16-20	21.59	32.77	14.27
HAF1238-04-06	9/16-18	9/16-18	23.37	36.83	19.05
HAF1238-04-08	9/16-18	3/4-16	24.64	40.64	19.05
HAF1238-06-04	11/16-16	7/16-20	24.89	34.80	19.05
HAF1238-06-06	11/16-16	9/16-18	24.89	36.83	19.05
HAF1238-06-08	11/16-16	3/4-16	26.42	40.64	19.05
HAF1238-06-10	11/16-16	5/8-14	29.21	50.04	26.97
HAF1238-06-12	11/16-12	1 1/16-12	31.75	55.12	30.18
HAF1238-08-06	13/16-16	9/16-18	27.94	36.58	19.05
HAF1238-08-08	13/16-16	3/4-16	27.94	40.64	19.05
HAF1238-08-10	13/16-16	5/8-14	30.73	50.04	26.97
HAF1238-08-12	13/16-16	1 1/16-12	33.53	55.12	30.18
HAF1238-10-10	1-14	7/8-14	33.27	50.04	26.97
HAF1238-10-12	1-14	1 1/16-12	35.81	55.12	30.18
HAF1238-12-08	1 3/16-12	3/4-16	37.34	46.74	30.18
HAF1238-12-10	1 3/16-12	7/8-14	37.34	55.12	30.18
HAF1238-12-12	1 3/16-12	1 1/16-12	37.34	55.12	30.18
HAF1238-12-16	1 3/16-12	1 5/16-12	41.15	59.69	36.53
HAF1238-16-12	1 7/16-12	1 1/16-12	41.66	58.93	36.53
HAF1238-16-16	1 7/16-12	1 5/16-12	41.66	59.69	36.53
HAF1238-16-20	1 7/16-12	1 5/8-12	44.70	62.23	41.28
HAF1238-20-16	1 11/16-12	1 5/16-12	44.70	62.23	41.28
HAF1238-20-20	1 11/16-12	1 5/8-12	44.70	62.23	41.28
HAF1238-20-24	1 11/16-12	1 7/8-12	48.77	65.79	47.63
HAF1238-24-20	2-12	1 5/8-12	48.77	65.79	47.63
HAF1238-24-24	2-12	1 7/8-12	48.77	65.79	47.63

HAF1239

Adjustable FORFS-MORB Elbow 90°
Coude 90° FORFS-MORB Adjustable

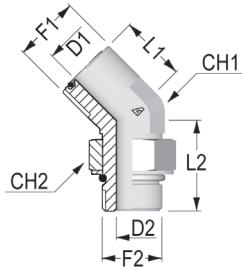


Code	B1 (Female ORFS Swivel) In	B2 (Male ORB) In	M mm	L mm	Y FLATS mm	C HEX mm
HAF1239-04-04	9/16-18	7/16-20	26.42	32.77	14.27	17.48
HAF1239-06-06	11/16-16	9/16-18	29.21	36.83	19.05	20.62
HAF1239-08-08	13/16-16	3/4-16	37.85	40.64	19.05	23.80
HAF1239-10-10	1-14	7/8-14	41.15	50.04	26.97	28.58
HAF1239-12-12	1 3/16-12	1 1/16-12	46.23	55.12	30.18	35.23
HAF1239-16-16	1 3/16-12	1 5/16-12	53.34	59.69	36.50	41.28

HAF1240

45° Adjustable Elbow

Connector ORFS

Male SAE UNF/UN Male with
O-RingCoude 45° mâle ORFS - Mâle
SAE + O-Ring

Code	F1	F2	L1 mm	L2 mm	CH1 mm	CH2 mm
HAF1240-04-04	9/16"-18	7/16"-20	16	30	14	16
HAF1240-04-06	9/16"-18	9/16"-18	17,5	33	14	19
HAF1240-06-04	11/16"-16	7/16"-20	19	31	17	16
HAF1240-06-06	11/16"-16	9/16"-18	19	33	17	19
HAF1240-06-08	11/16"-16	3/4"-16	19	36,5	19	24
HAF1240-08-06	13/16"-16	9/16"-18	20,5	32,5	19	19
HAF1240-08-08	13/16"-16	3/4"-16	20,5	36,5	19	24
HAF1240-08-10	13/16"-16	7/8"-14	21	45	22	27
HAF1240-10-08	1"-14	3/4"-16	23,5	40,5	27	24
HAF1240-10-10	1"-14	7/8"-14	23,5	45	27	27
HAF1240-10-12	1"-14	1"1/16-12	24,5	50	27	32
HAF1240-12-10	1"3/16-12	7/8"-14	26	46	30	27
HAF1240-12-12	1"3/16-12	1"1/16-12	26	50	30	32
HAF1240-12-16	1"3/16-12	1"5/16-12	29,5	52,5	36	41
HAF1240-16-12	1"7/16-12	1"1/16-12	30	51,5	33	32
HAF1240-16-16	1"7/16-12	1"5/16-12	30	52,5	36	41
HAF1240-16-20	1"7/16-12	1"5/8-12	32	53,5	41	50
HAF1240-20-20	1"11/16-12	1"5/8-12	32	53,5	41	50
HAF1240-24-24	2"-12	1"7/8-12	37	53,5	48	55

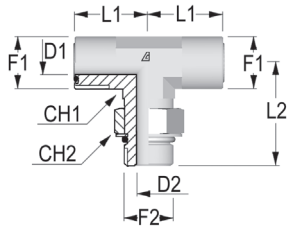
HAF1265

Branch Tee Adjustable Elbow

Connector ORFS Male SAE

UNF/UN Male with O-Ring

TE MORFS/ MORB Ajustable



Code	F1	F2	L1 mm	L2 mm	CH1 mm	CH2 mm
HAF1265-04-04	9/16"-18	7/16"-20	21,5	32,5	14	16
HAF1265-06-06	11/16"-16	9/16"-18	25	37	17	19
HAF1265-08-08	13/16"-16	3/4"-16	28	40,5	19	24
HAF1265-10-10	1"-14	7/8"-14	33,5	50	27	27
HAF1265-12-12	1"3/16-12	1"1/16-12	37,5	55	30	32
HAF1265-16-16	1"7/16-12	1"5/16-12	42	60	36	41
HAF1265-20-20	1"11/16-12	1"5/8-12	45	62	41	50
HAF1265-24-24	2"-12	1"7/8-12	49	66	48	55

HAF1266

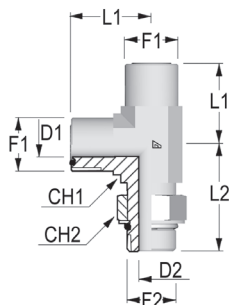
Run Tee Adjustable Elbow

Connector ORFS Male SAE

UNF/UN Male with O-Ring

TE mâle renverse ORFS -

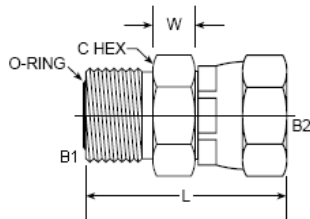
Mâle SAE + O-Ring



Code	F1	F2	L1 mm	L2 mm	CH1 mm	CH2 mm
HAF1266-04-04	9/16"-18	7/16"-20	21,5	32,5	14	16
HAF1266-06-06	11/16"-16	9/16"-18	25	37	17	19
HAF1266-08-08	13/16"-16	3/4"-16	28	40,5	19	24
HAF1266-10-10	1"-14	7/8"-14	33,5	50	27	27
HAF1266-12-12	1"3/16-12	1"1/16-12	37,5	55	30	32
HAF1266-16-16	1"7/16-12	1"5/16-12	42	60	36	41
HAF1266-20-20	1"11/16-12	1"5/8-12	45	62	41	50
HAF1266-24-24	2"-12	1"7/8-12	49	66	48	55

HAF1294

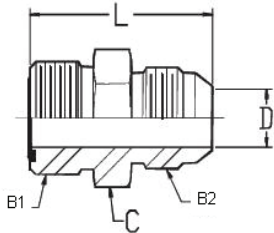
MORFS-F Straight JIC
MORFS-F JIC Droit



Code	B2 (female JIC swivel) in.	L mm	W mm	C HEX mm
HAF1294-04-04	7/16-20	34.29	34.29	15.88
HAF1294-06-06	9/16-18	39.12	39.12	19.05
HAF1294-08-08	3/4-16	43.69	43.69	22.23
HAF1294-10-10	7/8-14	50.80	50.80	26.97
HAF1294-12-12	1 1/16-12	57.15	57.15	31.75
HAF1294-16-16	1 7/16-12	60.33	60.33	38.10

HAF1295

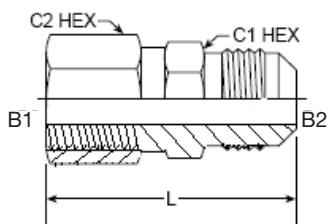
MORFS-MJ
MORFS-MJ



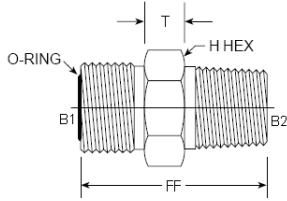
Code	B1 (male ORFS) in.	B2 (female JIC) in.	C HEX mm	L mm
HAF1295-04-04	9/16-18	7/16-20	15.88	31.75
HAF1295-06-06	11/16-16	9/16-18	19.05	34.29
HAF1295-08-08	13/16-16	3/4-16	22.23	39.37
HAF1295-10-10	1-14	7/8-14	26.99	46.48
HAF1295-12-12	1 3/16-12	1 1/16-12	31.75	52.07
HAF1295-16-16	1 7/16-12	1 5/16-12	38.10	54.86
HAF1295-20-20	1 11/16-12	1 5/8-12	44.45	57.15

HAF1296

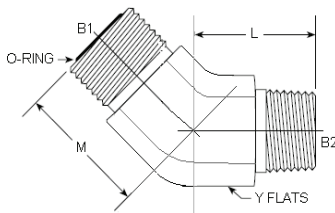
FORFS + MJIC Connector
Adapteur FORFS + MJIC



Code	B1 in.	B2 in.	L mm	C1 HEX mm	C2 HEX mm
HAF1296-04-04	9/16-18	7/16-20	38.10	12.70	17.48
HAF1296-06-06	11/16-16	9/16-18	44.70	15.88	20.62
HAF1296-08-04	13/16-16	7/16-20	64.11	19.05	23.80
HAF1296-08-08	13/16-16	3/4-16	48.26	20.62	23.80
HAF1296-10-04	1-14	7/16-20	67.82	22.35	28.58
HAF1296-10-10	1-14	7/8-14	58.42	23.80	28.58
HAF1296-12-04	1 3/16-12	7/16-20	74.07	28.70	34.93
HAF1296-16-04	1 3/16-12	7/16-20	79.12	34.93	41.28
HAF1296-16-16	1 7/16-12	1 5/16-12	68.58	34.93	41.28
HAF1296-20-20	1 11/16-12	1 11/16-12	85.09	42.88	47.63

ORFS - NPT**HAF1202**
MORFS-MP Connector
Adapteur MORFS-MP

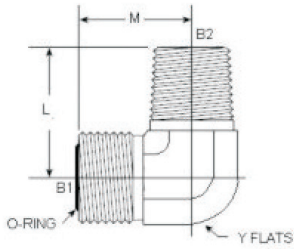
Code	B1 (male ORFS) in.	B2 (male PIPE) in.	FF mm	T mm	H HEX mm
HAF1202-04-02	9/16-18	1/8-27	27.18	6.86	15.88
HAF1202-04-04	9/16-18	1/4-18	32.00	6.86	15.88
HAF1202-04-06	9/16-18	3/8-18	33.53	6.86	19.05
HAF1202-04-08	9/16-18	1/2-14	38.10	6.86	22.23
HAF1202-06-04	11/16-16	1/4-18	31.75	7.87	19.05
HAF1202-06-06	11/16-16	3/8-18	34.04	7.87	19.05
HAF1202-06-08	11/16-16	1/2-14	39.37	7.87	22.23
HAF1202-08-04	13/16-16	1/4-18	37.59	8.89	22.23
HAF1202-08-06	13/16-16	3/8-18	37.59	8.89	22.23
HAF1202-08-08	13/16-16	1/2-14	41.66	8.89	22.23
HAF1202-08-12	13/16-16	3/4-14	42.93	10.41	28.58
HAF1202-10-08	1-14	1/2-14	46.23	10.41	26.97
HAF1202-10-12	1-14	3/4-14	46.23	10.41	28.58
HAF1202-10-16	1-14	1-11 1/2	49.53	9.65	34.93
HAF1202-12-08	1 3/16-12	1/2-14	49.02	10.41	31.75
HAF1202-12-12	1 3/16-12	3/4-14	49.02	10.41	31.75
HAF1202-12-16	1 3/16-12	1 11-1/2	54.10	10.41	34.93
HAF1202-16-12	1 7/16-12	3/4-14	50.80	10.41	38.10
HAF1202-16-16	1 7/16-12	1 11-1/2	55.63	10.41	38.10
HAF1202-16-20	1 7/16-12	1 1/4-11 1/2	58.42	15.75	42.88
HAF1202-16-24	1 7/16-12	1 1/2-11 1/2	54.61	11.30	50.80
HAF1202-20-16	1 11/16-12	1-11 1/2	58.42	16.38	44.45
HAF1202-20-20	1 11/16-12	11/4-11-1/2	60.96	10.41	44.45
HAF1202-24-24	2-12	11/2-11-1/2	0.00	10.41	53.98

HAF1206
MORFS-MP Elbow 45°
MORFS-MP Coude 45°

Code	B1 (male ORFS) in.	B2 (male PIPE) in.	L mm	M mm	Y FLATS mm
HAF2503-04-04	9/16-18	1/4-18	25.91	16.00	14.27
HAF2503-06-04	11/16-16	1/4-18	22.10	18.80	19.05
HAF2503-06-06	11/16-16	3/8-18	23.62	21.59	19.05
HAF2503-08-06	13/16-16	3/8-18	23.62	23.11	19.05
HAF2503-08-08	13/16-16	1/2-14	29.72	22.61	22.23
HAF2503-10-08	1-14	1/2-14	29.85	23.37	26.97
HAF2503-12-08	1 3/16-12	1/2-14	33.02	25.91	30.18
HAF2503-12-12	1 3/16-12	3/4-14	30.48	28.19	30.18
HAF2503-16-16	1 7/16-12	1-11 1/2	39.62	29.97	36.53
HAF2503-20-20	1 11/16-12	1 1/4-11 1/2	42.42	32.00	41.28

HAF1208

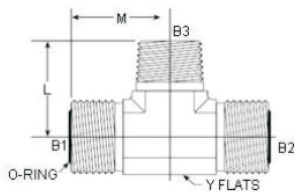
MORFS-MP Elbow 90°
MORFS-MP Coude 90°



Code	B1 (male ORFS) in.	B2 (male PIPE) in.	L mm	M mm	Y FLATS mm
HAF1208-04-02	9/16-18	7/16-20	20.32	21.59	14.27
HAF1208-04-04	9/16-18	1/2-20	28.45	21.59	14.27
HAF1208-04-06	9/16-18	9/16-18	30.99	24.64	19.05
HAF1208-06-04	11/16-16	1/2-20	27.69	24.89	19.05
HAF1208-06-06	11/16-16	9/16-18	30.99	24.89	19.05
HAF1208-06-08	11/16-16	3/4-16	37.34	29.21	22.23
HAF1208-08-04	13/16-16	7/8-14	30.99	27.94	19.05
HAF1208-08-06	13/16-16	3/4-16	30.99	27.94	19.05
HAF1208-08-08	13/16-16	3/4-16	37.34	27.94	22.23
HAF1208-08-12	13/16-16	7/8-14	37.34	33.53	26.97
HAF1208-10-08	1-14	11/16-12	37.34	33.27	26.97
HAF1208-10-12	1-14	3/4-16	40.39	35.81	26.97
HAF1208-12-08	1 3/16-12	7/8-14	40.39	37.34	30.18
HAF1208-12-12	1 3/16-12	11/16-12	40.39	37.34	30.18
HAF1208-12-16	1 3/16-12	3/4-16	50.04	41.15	33.32
HAF1208-16-12	1 7/16-12	7/8-14	45.21	41.66	36.53
HAF1208-16-16	1 7/16-12	11/16-12	50.04	41.66	36.53
HAF1208-16-20	1 7/16-12	15/16-12	60.45	44.70	41.28
HAF1208-20-16	1 11/16-12	13/16-12	59.69	44.70	41.28
HAF1208-20-20	1 11/16-12	11/16-12	60.45	44.70	41.28
HAF1208-24-24	2-12	17/8-12	67.06	48.77	47.63

HAF1221

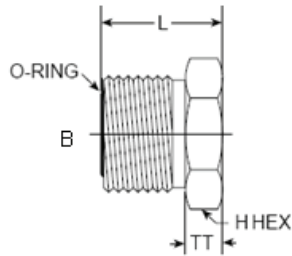
MORFS-MORFS-MP
Branch Tee
TE MORFS-MORFS-MP



Code	B1 (male ORFS) in.	B2 (male ORFS) in.	B3 (male PIPE) in.	M mm	L mm	Y FLATS mm
HAF1221-06-06-04	11/16-16	11/16-16	1/4-18	24.89	27.69	19.05
HAF1221-06-06-06	11/16-16	11/16-16	3/8-18	24.89	30.99	19.05
HAF1221-08-08-06	13/16-16	13/16-16	3/8-18	27.94	30.99	19.05
HAF1221-08-08-08	13/16-16	13/16-16	1/2-14	27.94	37.34	22.23
HAF1221-12-12-12	1 3/16-12	1 3/16-12	3/4-14	37.34	40.39	30.18
HAF1221-16-16-16	1 7/16-12	1 7/16-12	1 11/16-12	41.66	50.04	36.53
HAF1221-20-20-20	1 11/16-12	1 11/16-12	1 1/4-11 1/2	44.70	60.45	41.28

HAF1254

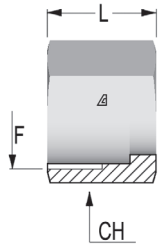
MORFS Plug
Bouchon MORFS



Code	B (male ORFS) in.	L mm	TT mm	H HEX mm
HAF1254-04	9/16-18	16.66	6.86	15.88
HAF1254-06	11/16-16	19.08	7.87	19.05
HAF1254-08	13/16-16	21.69	8.89	22.23
HAF1254-10	1-14	25.91	10.41	26.97
HAF1254-12	1 3/16-12	27.43	10.41	31.75
HAF1254-16	1 7/16-12	27.91	10.41	38.10
HAF1254-20	1 11/16-12	27.91	10.41	44.45
HAF1254-24	2-12	27.91	10.41	53.98

HAF1311

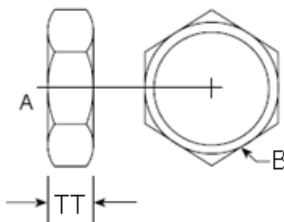
Nut ORFS
Ecrou



Code	F1	L mm	CH mm
HAF1311-040000	9/16"-18	14,5	19
HAF1311-060000	11/16"-16	17	22
HAF1311-080000	13/16"-16	21	27
HAF1311-100000	1"-14	23,5	30
HAF1311-120000	1"3/16-12	26	36
HAF1311-160000	1"7/16-12	28	41
HAF1311-200000	1"11/16-12	28	50
HAF1311-240000	2"-12	28	57

HAF1332

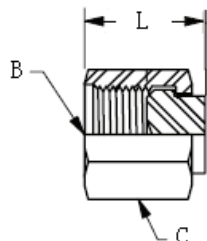
ORFS Bulkhead Locknut
ORFS BOULON /CLOISON



Code	A THD	B mm	TT mm
HAF1332-04	9/16-18	20.62	6.86
HAF1332-06	11/16-16	25.40	7.87
HAF1332-08	13/16-16	28.58	8.89
HAF1332-10	1-14	33.32	10.41
HAF1332-12	1 3/16-12	38.10	10.41
HAF1332-16	1 7/16-12	44.45	10.41
HAF1332-20	1 11/16-12	50.80	10.41
HAF1332-24	2-12	60.33	10.41

HAFS3019

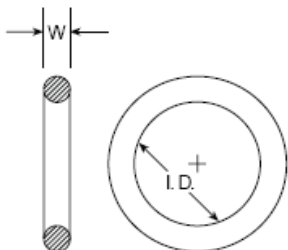
ORFS Cap Nut
Bouchon



Code	B (female ORFS Swivel) In.	L mm	IC HEX mm
HAFS3019-04	9/16-18	8.64	17.48
HAFS3019-06	11/16-16	9.40	20.62
HAFS3019-08	13/16-16	11.94	23.83
HAFS3019-10	1-14	11.94	28.58
HAFS3019-12	1 3/16-12	13.46	34.93
HAFS3019-16	1 7/16-12	14.99	41.28
HAFS3019-20	1 11/16-12	14.99	47.63
HAFS3019-24	2-12	14.99	57.15

HAF3030

Buna-N Durometer OEFS
O-Ring
Joint



Code	W mm	I.D. mm
HAF3030-04	1.78	7.65
HAF3030-06	1.78	9.25
HAF3030-08	1.78	12.42
HAF3030-10	1.78	15.60
HAF3030-12	1.78	18.77
HAF3030-16	1.78	23.52
HAF3030-20	1.78	29.87
HAF3030-24	2"-12	28

TUYAUX
Hydraulique

TUYAUX
PTFE

RACCORDS
Standard

RACCORDS
Interlock

RACCORDS
Afacriimp

Accessoires

RACCORDS en
Acier Inoxydable

ADAPTATEURS
Standard

ADAPTATEURS
ORFS

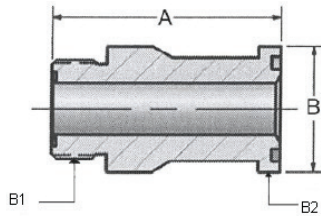
ADAPTATEURS
MÉTRIQUE-BSP

SERTISSEUSES

ORFS - FLANGES

HAF1700

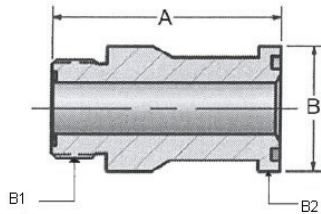
ORFS M-Flange Straight
ORFS M-Bride Droit



Code	B1 (male ORFS) in.	B2 (code61 flange head) in.	A mm	B DIA mm
HAF1700-12-12	1 3/16-12	1-1/16-12	69.85	38.10
HAF1700-12-16	1 3/16-12	1-1/16-12	71.12	44.45
HAF1700-16-12	1 7/16-12	1-5/16-12	69.85	38.10
HAF1700-16-16	1 7/16-12	1-5/16-12	71.12	44.45
HAF1700-16-20	1 7/16-12	1-5/16-12	71.37	50.80
HAF1700-20-16	1 11/16-12	1-5/8-12	71.37	44.45
HAF1700-20-20	1 11/16-12	1-5/8-12	71.12	50.80
HAF1700-20-24	1 11/16-12	1-5/8-12	88.90	60.32
HAF1700-24-20	2-12	1-7/8-12	88.90	50.80
HAF1700-24-24	2-12	1-7/8-12	88.90	60.32
HAF1700-24-32	2-12	1-7/8-12	84.58	71.42

HAF1800

ORFS M-Flange Straight
ORFS M-Bride Droit

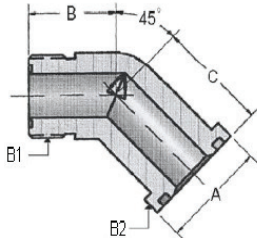


Code	B1 (male ORFS) in.	B2 (code62 flange head) in.	A mm	B DIA mm
HAF1800-08-08	13/16-16	1/2	65.53	31.75
HAF1800-12-12	1 3/16-12	3/4	69.85	41.28
HAF1800-12-16	1 3/16-12	1	71.37	47.63
HAF1800-16-12	1 7/16-12	3/4	71.37	41.28
HAF1800-16-16	1 7/16-12	1	96.77	47.63
HAF1800-16-20	1 7/16-12	1 1/4	77.47	53.97
HAF1800-20-16	1 11/16-12	1	81.53	47.63
HAF1800-20-20	1 11/16-12	1 1/4	77.72	53.97
HAF1800-20-24	1 11/16-12	1 1/2	88.90	63.50
HAF1800-24-20	2-12	1 1/4	84.07	53.97
HAF1800-24-24	2-12	1 1/2	88.90	63.50
HAF1800-24-32	2-12	2	65.53	53.97

ORFS - BRIDES

HAF1703

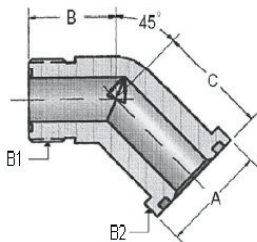
90° Flange SAE
J518 code 61 ORFS Male
Low Pressure
MORFS/Bride Code 61 90°



Code	F	Flange size	L1 mm	T mm	A mm	B mm	C mm	MAX WP psi
HAF1703-06-08	11/16"-16	1/2"	37	17	38,1	17,48	9	5000
HAF1703-08-08	13/16"-16	1/2"	39	17	38,1	17,48	9	5000
HAF1703-10-08	1"-14	1/2"	40	20	38,1	17,48	9	5000
HAF1703-10-12	1"-14	3/4"	44	20	47,63	22,23	11	5000
HAF1703-12-12	1"3/16-12	3/4"	45	25	47,63	22,23	11	5000
HAF1703-12-16	1"3/16-12	1"	48	25	52,37	26,19	11	5000
HAF1703-16-16	1"7/16-12	1"	49	31	52,37	26,19	11	5000
HAF1703-16-20	1"7/16-12	1"1/4	55	31	58,72	30,18	11,5	4000
HAF1703-20-20	1"11/16-12	1"1/4	55	31	58,72	30,18	11,5	4000
HAF1703-20-24	1"11/16-12	1"1/2	59	31	69,85	35,71	13,5	4000
HAF1703-24-24	2"-12	1"1/2	61	37	69,85	35,71	13,5	3000

HAF1803

90° Flange SAE J518 code 62
ORFS Male High Pressure
MORFS/Bride Code 62 90°

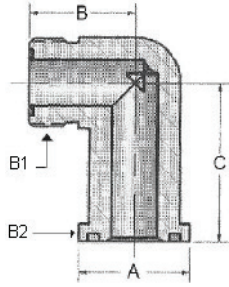


Code	F	Flange size	L1 mm	T mm	A mm	B mm	C mm	MAX WP psi
HAF1803-06-08	11/16"-16	1/2"	37	17	40,49	18,24	9	6000
HAF1803-08-08	13/16"-16	1/2"	39	17	40,49	18,24	9	6000
HAF1803-10-08	1"-14	1/2"	40	20	40,49	18,24	9	6000
HAF1803-10-12	1"-14	3/4"	44	20	50,8	23,8	11	6000
HAF1803-12-12	1"3/16-12	3/4"	45	25	50,8	23,8	11	6000
HAF1803-12-16	1"3/16-12	1"	48	25	57,15	27,76	13	6000
HAF1803-16-16	1"7/16-12	1"	49	31	57,15	27,76	13	6000
HAF1803-16-20	1"7/16-12	1"1/4	55	31	66,68	31,75	15	6000
HAF1803-20-20	1"11/16-12	1"1/4	55	31	66,68	31,75	15	6000
HAF1803-20-24	1"11/16-12	1"1/2	59	37	79,38	36,5	17	6000
HAF1803-24-24	2"-12	1"1/2	61	37	79,38	36,5	17	6000

ORFS - FLANGES

HAF1704

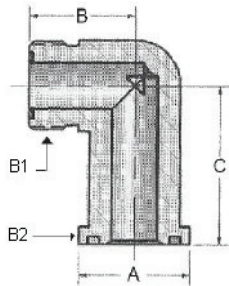
ORFS - Flange 90° Code 61
ORFS - Bride 90° Code 61



Code	TUBE OD in.	B1(male ORFS) in.	B2 (code61 flange head) in.	A DIA mm	B mm	C mm
HAF1704-12-12	3/4	1 3/16-12	3/4	38.10	42.16	54.10
HAF1704-12-16	3/4	1 3/16-12	1	44.45	41.91	60.20
HAF1704-16-12	1	1 7/16-12	3/4	38.10	44.45	54.86
HAF1704-16-16	1	1 7/16-12	1	44.45	45.97	60.20
HAF1704-16-20	1	1 7/16-12	1 1/4	50.80	52.32	66.55
HAF1704-20-16	1 1/4	1 11/16-12	1	44.45	46.99	60.20
HAF1704-20-20	1 1/4	1 11/16-12	1 1/4	50.80	52.32	66.55
HAF1704-20-24	1 1/4	1 11/16-12	1 1/2	60.32	59.18	80.01
HAF1704-24-20	1 1/2	2-12	1 1/4	50.80	52.32	66.55
HAF1704-24-24	1 1/2	2-12	1 1/2	60.32	59.18	80.01
HAF1704-24-32	1 1/2	2-12	2	71.42	tba	tba

HAF1804

ORFS - Flange 90° Code 62
ORFS - Bride 90° Code 62



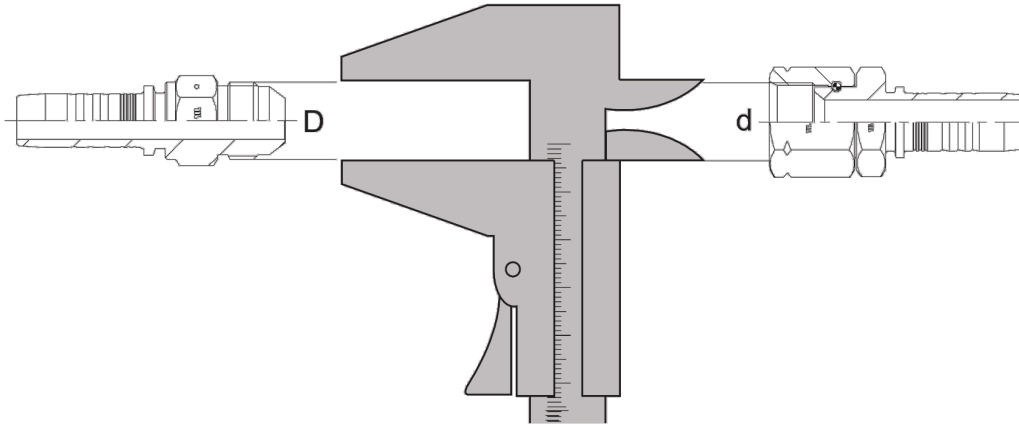
Code	TUBE OD in.	B1(male ORFS) in.	B2 (code61 flange head) in.	A DIA mm	B mm	C mm
HAF1804-12-08	3/4	1 3/16-12	1/2	31.75	41.91	54.36
HAF1804-12-12	3/4	1 3/16-12	3/4	41.28	42.16	54.10
HAF1804-12-16	3/4	1 3/16-12	1	47.63	44.45	60.20
HAF1804-16-12	1	1 7/16-12	3/4	41.28	41.91	53.85
HAF1804-16-16	1	1 7/16-12	1	47.63	44.45	60.20
HAF1804-16-20	1	1 7/16-12	1 1/4	53.97	53.33	69.85
HAF1804-20-16	1 1/4	1 11/16-12	1	47.63	44.45	60.20
HAF1804-20-20	1 1/4	1 11/16-12	1 1/4	53.87	52.32	70.10
HAF1804-20-24	1 1/4	1 11/16-12	1 1/2	63.50	59.18	80.01
HAF1804-24-20	1 1/2	2-12	1 1/4	53.87	52.32	70.10
HAF1804-24-24	1 1/2	2-12	1 1/2	64.50	59.18	80.01
HAF1804-24-32	1 1/2	2-12	2	79.38	tba	tba

POUR MESURER LE FILETAGE D'UN RACCORD

Pour déterminer le filetage d'un raccord, prendre le diamètre extérieur du filetage mâle (D) ou le diamètre intérieur du filetage femelle (d). Retrouvez la mesure obtenue sous la colonne MM et vous obtiendrez la mesure du filetage correspondant.

END-THREAD FITTING MEASUREMENT

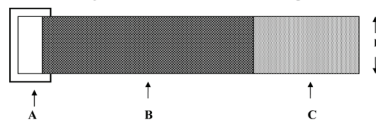
To identify thread size of a fitting, measure the exterior male thread diameter (D) or the interior female thread diameter (d), then match the measurement obtained in column MM., it will then give you the thread size correspondent.



MALE D.	MM.	FEMELLE FEMALE d.	MALE D.	MM.	FEMELLE FEMALE d.	MALE D.	MM.	FEMELLE FEMALE d.
	8.7	1/8 - 28	20 x 1.5	19.9		36 x 2	35.8	
1/8 - 27	9.5			20.4	7/8 - 14	36 x 1.5	35.9	
1/8 - 28	9.6		13/16 - 16	20.5	22 x 1.5		36.5	38 x 1.5
10 x 1	9.8		1/2 - 14	20.8		38 x 1.5	37.9	
	9.9	7/16 - 20		20.9	5/8 - 14		38.8	1-5/8 - 12
	10.5	12 x 1.5	22 x 1.5	21.9			39.4	1-1/4 - 11
7/16 - 20	11.0		7/8 - 14	22.1			39.8	42 x 2
	11.4	1/2 - 20		22.5	24 x 1.5	1-1/4 - 11.5	40.2	
	11.6	1/4 - 19	5/8 - 14	22.8			40.5	42 x 1.5
12 x 1.5	11.9		24 x 1.5	23.9		1-5/8 - 12	41.1	
1/4 - 18	12.5			24.5	3/4 - 14	1-1/4 - 11	41.7	
	12.5	14 x 1.5		24.8	1-1/16 - 12	42 x 2	41.8	
1/2 - 20	12.6		3/4 - 14	25.1			42.4	45 x 2
	12.9	9/16 - 18		24.4	26 x 1.5		43.3	45 x 1.5
1/4 - 19	13.0		26 x 1.5	25.9		45 x 2	44.8	
14 x 1.5	13.9		3/4 - 14	26.3		45 x 1.5	44.9	
9/16 - 18	14.2		1-1/16 - 12	26.8			45.1	1-7/8 - 12
	14.5	5/8 - 18		27.9	1-3/16 - 12		45.2	1-1/2 - 11
	14.5	16 x 1.5		28.0	30 x 2	1-1/2 - 11.5	46.3	
	15.1	3/8 - 19		28.5	30 x 1.5	1-7/8 - 12	47.5	
5/8 - 18	15.7		30 x 2	29.8		1-1/2 - 11	47.7	
16 x 1.5	15.8		30 x 1.5	29.9			49.6	52 x 2
3/8 - 18	15.9		1-3/16 - 12	30.1			50.3	52 x 1.5
	16.5	18 x 1.5		30.7	1 - 11	52 x 2	51.8	
3/8 - 19	16.6			31.2	1-5/16 - 12	52 x 1.5	51.9	
	17.5	3/4 - 16	1 - 11.5	31.4			57.4	2 - 11
18 x 1.5	17.9			31.5	33 x 1.5	2 - 11.5	58.3	
	18.4	20 x 1.5	1 - 11	33.1		2 - 11	59.4	
3/4 - 16	18.8		1-5/16 - 12	33.2			61.1	2-1/2 - 12
	18.8	1/2 - 14		34.0	36 x 2		62.5	65 x 2
	19.8			34.5	36 x 1.5	2-1/2 - 12	63.3	

SAFE-STRIP

www.safeplast.com



SAFE-STRIP bundles hydraulic hoses together and can be used again and again. It is made of polypropylene and has Velcro® brand fasteners. The buckle is stainless steel. This product is also available with a mounting hole.

	A Buckle	B Strap	C Gripper	D Width	ID mm	ID in
Code	STAINLESS STEEL (in)	POLYPROPYLENE (in)	VELCRO®			
STP11	7/8 x 1 3/4	8	3	1 1/2	68.58	2.7
STP16	7/8 x 1 3/4	11 1/2	4 1/4	1 1/2	99.06	3.9
STP20	7/8 x 1 3/4	16	4 1/4	1 1/2	124.46	4.9
STP25	7/8 x 1 3/4	21	4 1/4	1 1/2	154.94	6.1
STP30	7/8 x 1 3/4	25	4 1/4	1 1/2	177.79	7.0

HOSE GUARD/ PLASTIC PROTECTIVE FLAT COIL SLEEVE

Application: Hoses, cables and bundle protection. Flexible, elastic, smooth, solution against abrasion and shocks. VERY GOOD UV/Ozone, Oil/Water resistance.

Material: HDPE (halogen-free, recyclable)
Temperature Range: -40°C +100°C
Pack QTY: 25 or 50m



BLACK

Item	Part No.	Canadian Part No.	ID mm	ID in.	OD mm	OD in.	THICKNESS T mm	PITCH P mm	RECOMMENDED HOSE OD RANGE mm	WEIGHT kg/m	PACK q.ty m mm
1902552	RLS1000-009	1	10	0.39	12	0.47	1.2	10	8-12	0.04	25
1902554	RLS1000-013	1	13	0.51	16	0.63	1.3	12	11-15	0.06	25
1902555	RLS1000-015	1	16	0.63	20	0.79	2.0	20	14-19	0.10	25
1902556	RLS1000-020	1	20	0.79	24	0.94	2.2	21	18-26	0.15	50
1901067	RLS1000-025	1	27	1.06	32	1.26	2.5	22	25-34	0.20	50
1902051	RLS1000-030	1	35	1.38	40	1.57	2.7	24	33-42	0.30	25
1901076	RCS1000-040	1	43	1.69	50	1.97	3.4	30	41-54	0.40	25
1902520	RJS1AG0-0550000	1	55	2.17	62	2.44	3.7	37	53-65	0.65	25
1901142	RJS1AG0-0660000	1	66	2.60	75	2.95	4.4	42	64-79	0.75	25
1901089	RCS1000-089	1	80	3.15	90	3.54	4.9	45	78-99	1.20	25
1902560	RCS1000-110	1	100	3.94	111	4.37	5.5	50	98-120	1.75	25
1902521	RJS1AG0-1270000	1	127	5.00	140	5.51	6.5	55	120-150	2.50	25

YELLOW

Item	Part No.	Canadian Part No.	ID mm	ID in.	OD mm	OD in.	THICKNESS T mm	PITCH P mm	RECOMMENDED HOSE OD RANGE mm	WEIGHT kg/m	PACK q.ty m mm
1902551	RJS1KG0-0100000	1	10	0.39	12	0.47	1.2	10	8-12	0.04	25
1902553	RJS1KG0-0130000	1	13	0.51	16	0.63	1.3	12	11-15	0.06	25
1901057	SPT0408Y	1	16	0.63	20	0.79	2.0	20	14-19	0.10	25
1901060	SPT0810Y	1	20	0.79	24	0.94	2.2	21	18-26	0.15	50
1902557	SPT1016Y	1	27	1.06	32	1.26	2.5	22	25-34	0.20	50
1903210	SPT1620Y	1	35	1.38	40	1.57	2.7	24	33-42	0.30	25
1901077	SPT2024Y	1	43	1.69	50	1.97	3.4	30	41-54	0.40	25
1903212	SPT2432Y	1	55	2.17	62	2.44	3.7	37	53-65	0.65	25
1901141	SPT3240Y	1	66	2.60	75	2.95	4.4	42	64-79	0.75	25
1902558	SPT4850Y	1	80	3.15	90	3.54	4.9	45	78-99	1.20	25
1902559	SPT6470Y	1	100	3.94	111	4.37	5.5	50	98-120	1.75	25

N.B. Further versions (ex: MSHA and FRAS) not included in this document are available on request.

FIRE PROTECTION SLEEVE

Woven mineral fibre flame protection sleeve with silicon external coating.
Used to protect hoses and fittings from extreme temperatures.

To be fixed with hose clamps or crimped rings.
Temperature: +250 °C (482 °F)
intermittent to 1500 °C (2732 °F)



Item Code	Part Number	d mm
1901772	RLYGAS0-0130000	13
1901103	RLYGAS0-0160000	16
1901774	RLYGAS0-0190000	19
1901775	RLYGAS0-0220000	22
1901771	RLYGAS0-0250000	25
1901151	RLYGAS0-0290000	29
1901770	RLYGAS0-0320000	32
1901110	RLYGAS0-0380000	38
1901773	RLYGAS0-0510000	51
1901114	RLYGAS0-0640000	64
2600094	RLYGAS0-0760000	76

MSHA TEXTILE SLEEVE

Polyester sleeve to protect the hose from abrasion,
weathering and high temperature.
MSHA IC-152/18 approval.

Temperature: -40 °C +150 °C (-40 °F +300 °F)



Part Number	ID mm	ID inch
RTY0G0A-01700M00	17	0,67
RTY0G0A-02000M00	20	0,79
RTY0G0A-02300M00	23	0,91
RTY0G0A-02500M00	25	0,98
RTY0G0A-02700M00	27	1,06
RTY0G0A-03100M00	31	1,22
RTY0G0A-03600M00	36	1,42
RTY0G0A-04000M00	40	1,57
RTY0G0A-04400M00	44	1,73
RTY0G0A-04700M00	47	1,85
RTY0G0A-05500M00	55	2,17
RTY0G0A-06600M00	66	2,60
RTY0G0A-07600M00	76	2,99

HOSE PROTECTION

STEEL PROTECTIVE COIL SPRING - SRS

Application: Protects hose cover and reinforcement from abrasion and accidental damage.



Length: 13'-1 1/2" (4m)

Part Number	DIN SAE ID		1SN R1AT FZP2 Alfatech 3000		2SN R2AT		4SP R12		4SH Alfatech 4000 R15 Alfatech 6000*		R13 Alfatech 5000 Alfatech 6000*	
	in.	mm	DN	Size	DN	Size	DN	Size	DN	Size	DN	Size
R1S0033-0154	0.61	15.5	6	-04								
R1S0033-0174	0.67	17.0	8	-05	6	-04						
R1S0033-0194	0.75	19.0	10	-06	8	-05						
R1S0033-0234	0.91	23.0	12	-08	10	-06	10	-06				
R1S0033-0264	1.02	26.0	16	-10	12	-08	12	-08				
R1S0033-0294	1.14	29.0	20	-12								
R1S0033-0344	1.34	34.0			16	-10	16	-10	20*	-12	20	-12
R1S0055-0414	1.61	41.0	25	-16	25	2.20	25	-16	25*	-16	25	-16
R1S0055-0484	1.89	48.0				2.60			32	-20		
R1S0055-0544	2.13	54.0	32	-20	32	3.20					32*	-20
R1S0055-0604	2.36	60.0			40	5.00			40	-24	40*	-24

*Alfatech 6000 only.

STEEL PROTECTIVE FLAT COIL SLEEVE - SSF

Application: For use where hose lines are subjected to excessive abrasion, kinking, or accidental damage.



Length: 13'-1 1/2" (4m)

Part Number	DIN SAE ID		1SN R1AT FZP2 Alfatech 3000		2SN R2AT		4SP R12		4SH Alfatech 4000 R15 Alfatech 6000*		R13 Alfatech 5000 Alfatech 6000*	
	in.	mm	DN	Size	DN	Size	DN	Size	DN	Size	DN	Size
R1S1017-0134	0.51	13.0										
R1S1017-0154	0.61	15.5	6	-04								
R1S1017-0174	0.67	17.0	8	-05	6	-04						
R1S1017-0194	0.75	19.0	10	-06	8	-05						
R1S1017-0224	0.87	22.0	12	-08	10	-06	10	-06				
R1S1017-0264	1.02	26.0	16	-10	12	-08	12	-08				
R1S1017-0284	1.10	28.0			20	-12		-12				
R1S1017-0304	1.18	30.0	20	-12	16	-10						
R1S1017-0344	1.34	34.0			20	-12	16	-10	20*	-12	20	-12
R1S1017-0414	1.61	41.0	25	-16	25	-16	25	-16	25*	-16	25	-16
R1S1017-0484	1.89	48.0							32	-20		
R1S1017-0544	2.13	54.0	32	-20	32	-20					32*	-20
R1S1017-0604	2.36	60.0			40	-24			40	-24	40*	-24

*Alfatech 6000 only.

WHIP CHAIN

Whip Chains are a reliable retaining system made of strong cables used for the safe holding of assemblies, should they accidentally separate.

Alfagomma can offer a wide range of Whip Chains for:

- Hoses attached with port adaptors
- Hoses using flange-style connections

Whip Chains to be used in combination with the specific hose band, depending on diameter.



for SAE Flange fitting 3000/6000 psi

Part Number	Description	RELATED FITTING	Additional description	Pack q.ty
R1YCCF1-0850300	RETAINING SYS FL. ID08.5 L300	FLANGE 3000 and 6000 1/2"	STOPFUSAE 085 PACK	10
R1YCCF1-1050450	RETAINING SYS FL. ID10.5 L450	FLANGE 3000 3/4"-1"-1"1/4 and 6000 3/4"	STOPFUSAE 105 PACK	5
R1YCCF1-1250450	RETAINING SYS FL. ID12.5 L450	FLANGE 3000 1"1/2-2"-2"1/2 and 6000 1"	STOPFUSAE 125 PACK	5
R1YCCF1-1450450	RETAINING SYS FL. ID14.5 L450	FLANGE 6000 1"1/4	STOPFUSAE 145 PACK	5
R1YCCF1-1650450	RETAINING SYS FL. ID16.5 L450	FLANGE 3000 3"-3"1/2-4"-5" and 6000 1"1/2	STOPFUSAE 165 PACK	5
R1YCCF1-2050450	RETAINING SYS FL. ID20.5 L450	FLANGE 6000 2"	STOPFUSAE 205 PACK	5

for other fitting

Part Number	Description	RELATED FITTING	Additional description	Pack q.ty
R1YCCV1-1300450	RETAINING SYS FL. ID13 L450	SLING FOR GENERIC FITTING	STOPFUVARIE PACK	5

WHIP SOCK

Safety retaining sock for various hose types, with tie-on device for retrofitting existed hose lines without disconnecting hose fittings.



Type	for hose O/D in mm	SHH0-63-0002 15-25	SHH0-63-0003 20-40	SHH0-63-0001 30-50	SHH0-63-0004 50-65	SHH0-63-0005 60-80
R13	DN				31, 40	51
R15	DN			25, 31	40	
4SH	DN		19	25,31	38	51
4SP	DN	6, 10	12, 16,19	25		
2SN	DN	6, 8, 10, 12	16, 19, 25	31	38	51
1SN	DN	8, 10, 12, 16	19, 25	31	38	51
241T	DN	8, 10, 12, 16	19, 25			
1SC	DN	10, 12, 16	19, 25			
2SC	DN	8, 10, 12, 16	19, 25			

Tube Hangers

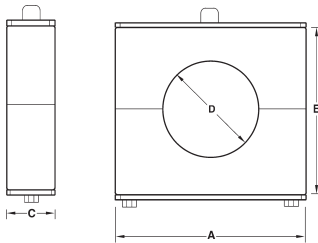
Block Tube Hangers with hang plate - B24**HAP

Polypropylene (PP)

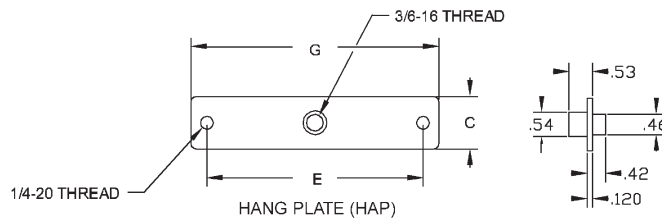
- maximum temperature: 212°F

Santoprene (SP)

- FDA approved material
- maximum temperature: 302°F



Tube OD	Dimensions			<i>Polypropylene Block</i>	<i>Santoprene Block</i>
	A	B	C	Part #	Part #
1/2"	1.880	1.380	1.190	B24PPHAP-G50	B24SPHAP-G50
3/4"	1.880	1.380	1.190	B24PPHAP-G75	B24SPHAP-G75
1"	3.340	2.630	1.190	B24PPHAP-G100	B24SPHAP-G100
1 1/2"	3.340	2.630	1.190	B24PPHAP-G150	B24SPHAP-G150
2"	3.340	2.630	1.190	B24PPHAP-G200	B24SPHAP-G200
2 1/2"	5.000	4.380	1.190	B24PPHAP-G250	B24SPHAP-G250
3"	5.000	4.380	1.190	B24PPHAP-G300	B24SPHAP-G300
4"	5.770	4.800	1.190	B24PPHAP-G400	B24SPHAP-G400



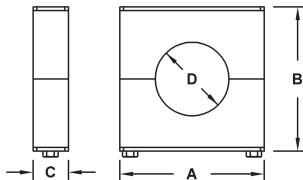
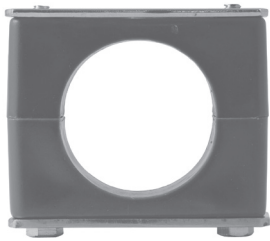
Block Tube Hangers with standard weld plate - B24**STW

Polypropylene (PP)

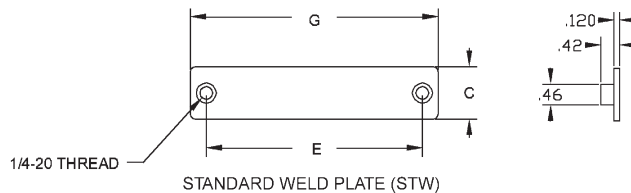
- maximum temperature: 212°F

Santoprene (SP)

- FDA approved material
- maximum temperature: 302°F

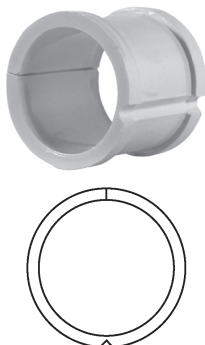


Tube OD	Dimensions			<i>Polypropylene Block</i>	<i>Santoprene Block</i>
	A	B	C	Part #	Part #
1/2"	1.880	1.380	1.190	B24PPSTW-G50	B24SPSTW-G50
3/4"	1.880	1.380	1.190	B24PPSTW-G75	B24SPSTW-G75
1"	3.340	2.630	1.190	B24PPSTW-G100	B24SPSTW-G100
1 1/2"	3.340	2.630	1.190	B24PPSTW-G150	B24SPSTW-G150
2"	3.340	2.630	1.190	B24PPSTW-G200	B24SPSTW-G200
2 1/2"	5.000	4.380	1.190	B24PPSTW-G250	B24SPSTW-G250
3"	5.000	4.380	1.190	B24PPSTW-G300	B24SPSTW-G300
4"	5.770	4.800	1.190	B24PPSTW-G400	B24SPSTW-G400



ABS Sleeves - 13PS

- maximum temperature: 230°F



Size	Part #	Size	Part #
1/2"	13PS-50	2 1/2"	13PS-250
3/4"	13PS-75	3"	13PS-300
1"	13PS-100	4"	13PS-400
1 1/2"	13PS-150	6"	13PS-600
2"	13PS-200	8"	13PS-800

HAMMER LUG UNIONS - FIG.100

NPT THREADED - 3 Pieces (female/male/nut)



Item Code	PART #	NPT Thread in	Material
I1TC66C6-051051		2	ASTM A-105 FORGED CARBON STEEL
I1TC66C6-076076		3	ASTM A-105 FORGED CARBON STEEL
I1TC66C6-102102	2303955	4	ASTM A-105 FORGED CARBON STEEL
I1TC66C6-127127	2303956	5	ASTM A-105 FORGED CARBON STEEL
I1TC66C6-152152	2303957	6	ASTM A-105 FORGED CARBON STEEL

HAMMER LUG UNIONS - FIG.200

NPT THREADED - 3 Pieces (female/male/nut)



Item Code	Part #	NPT Thread in	Material
I1TC96C9-051051	2303958	2	ASTM A-105 FORGED CARBON STEEL
I1TC96C9-076076	2306567	3	ASTM A-105 FORGED CARBON STEEL
I1TC96C9-102102	2306568	4	ASTM A-105 FORGED CARBON STEEL
I1TC96C9-152152	2306569	6	ASTM A-105 FORGED CARBON STEEL

HAMMER LUG UNIONS - FIG.602

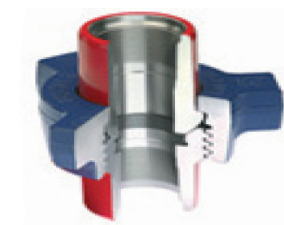
NPT THREADED - 3 Pieces (female/male/nut)



Item Code	Part #	NPT Thread in	Material
I1TE26E2-025025	2306573	1	ALOY STEEL AISI 4130
I1TE26E2-051051		2	ALOY STEEL AISI 4130
I1TE26E2-076076		3	ALOY STEEL AISI 4130
I1TE26E2-102102		4	ALOY STEEL AISI 4130

HAMMER LUG UNIONS - FIG.1502

NPT THREADED - 3 Pieces (female/male/nut)



Item Code	Part #	NPT Thread in	Material
I1TE16E1-051051	2306257	2	ALOY STEEL AISI 4130
I1TE16E1-076076		3	ALOY STEEL AISI 4130
I1TE16E1-102102		4	ALOY STEEL AISI 4130

HAMMER LUG UNIONS

HAMMER LUG UNIONS - FIG.1502

With Solid Integral Hose Tail

This Alfagomma one piece integral FIG. 1502 system, provides a reliable and cost effective solution

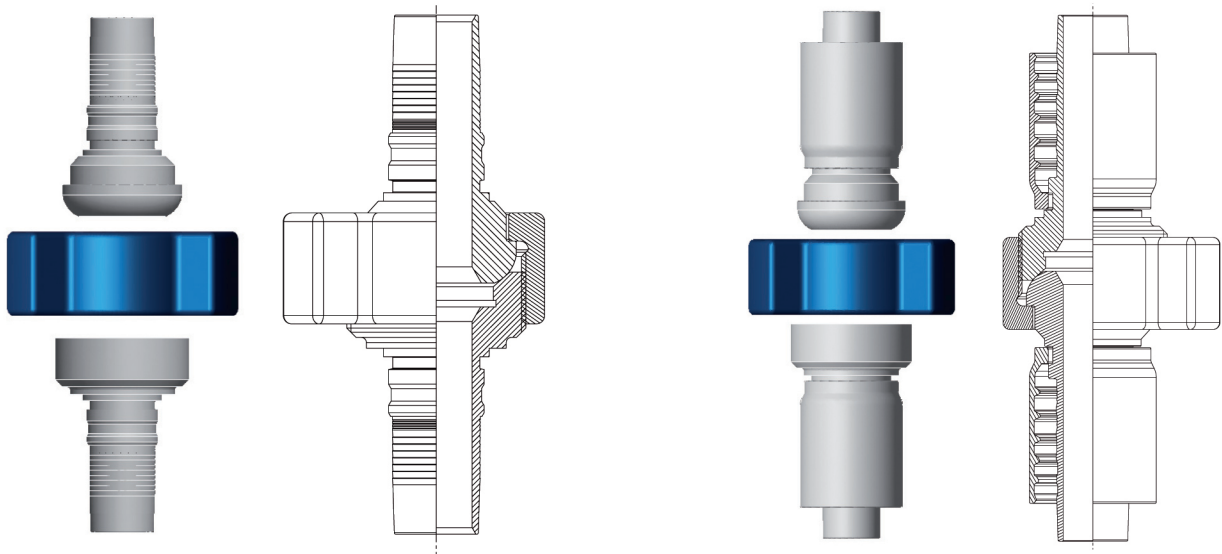
Quality advantage: The assembly reliability is no longer based on thread or a welded interface between the hose shank and the FIG. 1502 adaptor, but on the complete body system

Time saving: easy and fast hose connection, avoiding the standard adaptor-fitting-adaptor line

The interlock fitting is available with separate interlock ferrule or with a pre-crimped ferrule

Use: Recommended for cementing applications up to 10000 psi with a 2,25:1 safety factor

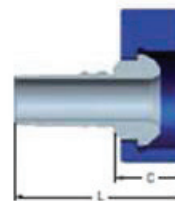
Complete material traceability available on demand
Hardness tested.



FOR FLEXOR R13, FLEXOR 4SH, ALFATECH 5000, ALFABIOTECH 5000 AND FLEXOR RIG™ MINETUFF AND SUPERTUFF COVERS

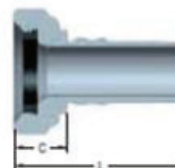
Male Hammer Union Fig. 1502 integral fitting with Lug Nut

Part Number	Hose ID In	Hose ID mm	DASH	C CUT-OFF mm	L Overall Length mm	Weight kg
H1413F13-323200	2	51	32	55,3	152	6,40



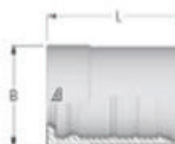
Female Hammer Union Fig. 1502 integral fitting with Rubber Ring

Part Number	Hose ID In	Hose ID mm	DASH	C CUT-OFF mm	L Overall Length mm	Weight kg
H1423F10-323200	2	51	32	51,5	148,5	2,30



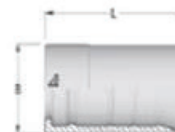
**Interlock ferrule H1400301
Flexor R13, Alfatech 5000, Alfabitech 5000 and Flexor Rig™**

Part Number	Hose ID	Hose ID	DASH	B mm	L mm	Weight kg
H1400301-320000	2	51	32	68	99	1,50



**Interlock ferrule H1400200
Flexor 4SH**

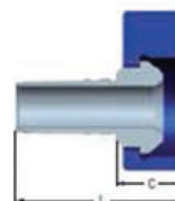
Part Number	Hose ID	Hose ID	DASH	B mm	L mm	Weight kg
H1400200-320000	2	51	32	78	99,1	0,95



FOR ALFATECH 6000, FLEXOR R13 AND FLEXOR RIG™ MINETUFF AND SUPERTUFF COVERS

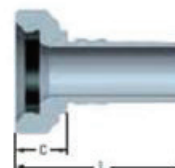
Male Hammer Union Fig. 1502 integral fitting with Lug Nut

Part Number	Hose ID In	Hose ID mm	DASH	C CUT-OFF mm	L Overall Length mm	Weight kg
H1T13F13-323200	2	51	32	55,9	162,2	6,60



Female Hammer Union Fig. 1502 integral fitting with Rubber Ring

Part Number	Hose ID In	Hose ID mm	DASH	C CUT-OFF mm	L Overall Length mm	Weight kg
H1T23F10-323200	2	51	32	52,4	159,7	2,60



Interlock ferrule H1T00600

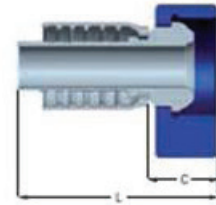
Part Number	Hose ID	Hose ID	DASH	B mm	L mm	Weight kg
H1T00600-320000	2	51	32	68,1	108,2	1,50



**FOR FLEXOR R13, ALFATECH 5000, ALFABIOTECH 5000 AND FLEXOR RIG™
MINETUFF AND SUPERTUFF COVERS**

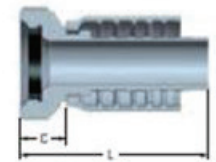
Male Hammer Union Fig. 1502 integral fitting with Lug Nut

Part Number	Hose ID in	Hose ID mm	DASH	C CUT-OFF mm	L Overall Length mm	Weight kg
C12R13F13-32320	2	51	32	60	185,5	6,60



Female Hammer Union Fig. 1502 integral fitting with Rubber Ring

Part Number	Hose ID in	Hose ID mm	DASH	C CUT-OFF mm	L Overall Length mm	Weight kg
C12R23F10-32320	2	51	32	56,5	182	2,50

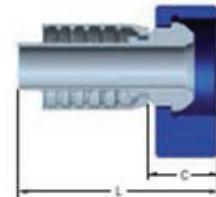


FOR FLEXOR 4SH

MINETUFF AND SUPERTUFF COVERS

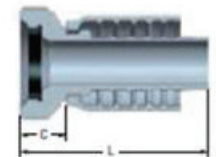
Male Hammer Union Fig. 1502 integral fitting with Lug Nut

Part Number	Hose ID in	Hose ID mm	DASH	C CUT-OFF mm	L Overall Length mm	Weight kg
C12H13F13-32320	2	51	32	60	185,5	6,60



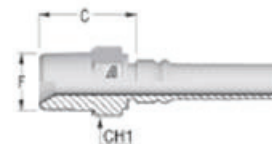
Female Hammer Union Fig. 1502 integral fitting with Rubber Ring

Part Number	Hose ID in	Hose ID mm	DASH	C CUT-OFF mm	L Overall Length mm	Weight kg
C12H23F10-32320	2	51	32	56,5	182	2,50



H141281Z

Firesafe 5000 hose
2 pc. male API interlock
extra long hexagon

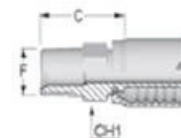


Part Number	Hose ID In	Hose ID mm	DASH	F Thread In-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
H141281Z-161600	1	25,4	16	1-11	16	81,0	36
H141281Z-202000	1 1/4	31,8	20	1 1/4-11	20	68,8	46
H141281Z-242400	1 1/2	38,1	24	1 1/2-11	24	75,5	50
H141281Z-323200	2	50,8	32	2-11	32	95,5	65

STAINLESS STEEL VERSION AVAILABLE ON REQUEST

C1261281Z

Flexor Rig hose
1 pc. male API
extra long hexagon



Part Number	Hose ID In	Hose ID mm	DASH	F Thread In-TPI	F Thread DASH	C CUT-OFF Factor	CH1 mm
C1261281Z-12120	3/4	19	12	3/4-14	12	67,5	36
C1261281Z-16160	1	25,4	16	1-11	16	74,6	46
C1261281Z-20200	1 1/4	31,8	20	1 1/4-11	20	83,0	50
C1261281Z-24240	1 1/2	38,1	24	1 1/2-11	24	114,5	65
C1261281Z-32320	2	50,8	32	2-11	32		

STAINLESS STEEL VERSION AVAILABLE ON REQUEST

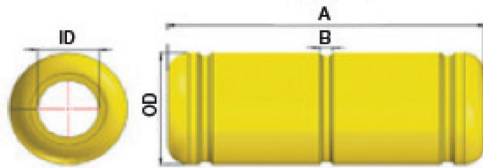
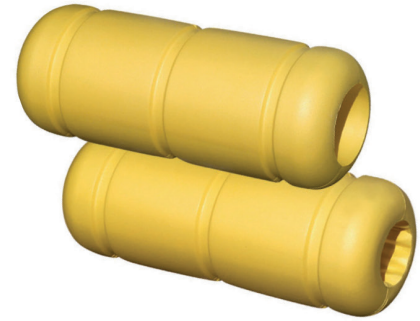
HOSE FLOATS

HOSE FLOATS

Hose flotation devices are used in various fields of marine activities, such as offshore oil and gas industry and port facilities.

Material: Low density ethylene vinyl acetate

Feature: High buoyancy and excellent resistance to deforming or breaking



Part #	Item #	Hose DN	ID mm	OD mm	A Length mm	B Groove mm	Weight kg	Buoyancy kg
2303992	RMYGFLK-1000600	76	100	235	600	28	2,24	17
2303993	RMYGFLK-1200600	102	120	235	600	28	2,07	15
2303994	RMYGFLK-1450600	127	145	240	600	28	2,07	15
2306474		127	145	280	750	32	2,24	22

CRIMPERS/SERTISSEUSES



HOSE ASSEMBLY EQUIPMENT

ALFAGOMMA

TUYAUX
Hydraulique

TUYAUX
PTFE

RACCORDS
Standard

RACCORDS
Interlock

RACCORDS
Affacrimp

Accessoires

RACCORDS en
Acier Inoxydable

ADAPTATEURS
Standard

ADAPTATEURS
ORFS

ADAPTATEURS
MÉTRIQUE-BSP

SERTISSEUSES

CRIMPERS/SERTISSEUSES

VERTICAL CRIMPERS

AG62-064



Hose	Max Hose Dia	Swage Force Tonne	Dimensions L x W x H	Weight KG	Electric Motor	QC Die Rack & Stand	QC Die Tool	Foot Pedal
2 Wire Hyd	DN32	62	357 x 279 x 597	23	n/a	Optional	n/a	n/a
4 Wire Hyd	DN32		Air Over Hydraulic					
6 Wire Hyd	DN25		Voltage Available in : 110V / 230V					
Industrial	n/a		Controller Options : Micrometer					

AG160-102



Hose	Max Hose Dia	Swage Force Tonne	Dimensions L x W x H	Weight KG	Electric Motor	QC Die Rack & Stand	QC Die Tool	Foot Pedal
2 Wire Hyd	DN50	160	952 x 737 x 813	193	1.0 / 2.0	Optional	n/a	n/a
4 Wire Hyd	DN32		Voltage Available in : 110V / 230V					
6 Wire Hyd	DN32		Controller Options : Micrometer					
Industrial	n/a							

BENCH TOP CRIMPERS

AG155-125



Hose	Max Hose Dia	Swage Force Tonne	Dimensions L x W x H	Weight KG	Electric Motor	QC Die Rack & Stand	QC Die Tool	Foot Pedal
2 Wire Hyd	DN50	155	457 x 597 x 521	116	1.0 / 2.0	Included	Included	Included
4 Wire Hyd	DN32		Voltage Available in : 12VDC / 24VDC / 110V / 230V / 440V					
6 Wire Hyd	DN32		Controller Options : Micrometer					
Industrial	n/a							

AG240-120



*Micrometer Shown

Hose	Max Hose Dia	Swage Force Tonne	Dimensions L x W x H	Weight KG	Electric Motor	QC Die Rack & Stand	QC Die Tool	Foot Pedal
2 Wire Hyd	DN50	240	737 x 508 x 711	215	5.0 / 7.5	Included	Included	Included
4 Wire Hyd	DN38		Voltage Available in : 12VDC / 24VDC / 230V / 380V / 440V					
6 Wire Hyd	DN32		Controller Options : Micrometer and Digital					
Industrial	n/a							

AG340-160



*Micrometer Shown

Hose	Max Hose Dia	Swage Force Tonne	Dimensions L x W x H	Weight KG	Electric Motor	QC Die Rack & Stand	QC Die Tool	Foot Pedal
2 Wire Hyd	DN50	340	800 x 530 x 670	208	5.0 / 7.5	Included	Included	Included
4 Wire Hyd	DN50		Voltage Available in : 12VDC / 24VDC / 380V / 440V					
6 Wire Hyd	DN50		Controller Options : Micrometer and Digital					
Industrial	DN76							

PRODUCTION CRIMPERS

AG310-243



*Micrometer Shown

Hose	Max Hose Dia	Swage Force Tonne	Dimensions L x W x H	Weight KG	Electric Motor	QC Die Rack & Stand	QC Die Tool	Foot Pedal
2 Wire Hyd	DN68	310	711 x 1219 x 1422	952	5.0 / 7.5	Included	Included	Included
4 Wire Hyd	DN68							
6 Wire Hyd	DN50							
Industrial	DN100							

Voltage Available in : 380V / 440V
Controller Options : Micrometer and Digital

AG350-286



*Digital Shown

Hose	Max Hose Dia	Swage Force Tonne	Dimensions L x W x H	Weight KG	Electric Motor	QC Die Rack & Stand	QC Die Tool	Foot Pedal
2 Wire Hyd	DN50	350	1219 x 1372 x 1575	2041	5.0 / 7.5	Included	Included	Included
4 Wire Hyd	DN50							
6 Wire Hyd	DN68							
Industrial	DN150							

Voltage Available in : 380V / 440V
Controller Options : Micrometer and Digital

AG485-350



Hose	Max Hose Dia	Swage Force Tonne	Dimensions L x W x H	Weight KG	Electric Motor	QC Die Rack & Stand	QC Die Tool	Foot Pedal
2 Wire Hyd	DN76	485	1219 x 914 x 1880	2721	5.0 / 7.5	Included	Included	Included
4 Wire Hyd	DN76							
6 Wire Hyd	DN68							
Industrial	DN254							

Voltage Available in : 380V / 440V
Controller Options : Digital

AG485-432



Hose	Max Hose Dia	Swage Force Tonne	Dimensions L x W x H	Weight KG	Electric Motor	QC Die Rack & Stand	QC Die Tool	Foot Pedal
2 Wire Hyd	DN76	485	1219 x 914 x 1448	2721	5.0 / 7.5	Included	Included	Included
4 Wire Hyd	DN76							
Industrial	DN356							

Voltage Available in : 380V / 440V
Controller Options : Digital

CRIMPERS/SERTISSEUSES

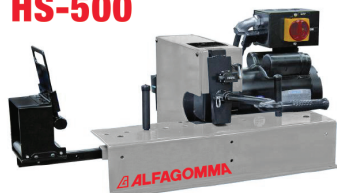
CUT OFF SAWS

HS-150



Dimensions L x W x H	Weight KG	Electric Motor
406 x 381 x 419	50	1.0
Cuts up to - DN40 Braided - DN32 Multispiral		Voltage Available in : 110V / 230V Blade Size : 254mm

HS-500



Dimensions L x W x H	Weight KG	Electric Motor
607 x 457 x 533	79	7.5
Cuts up to - DN50 Multispiral		Voltage Available in : 230V / 440V Blade Size : 305mm

PUSHER

AG-FP10



Dimensions L x W x H	Weight KG	Electric Motor
737 x 508 x 813	119	n/a
Max Hose Diameter - Hyd DN50 - Ind DN300		Voltage Available in: 110V / 230V

PRODUCT CODE LEGEND

CRIMPERS

	1 - 2	3 - 4 - 5	-	6 - 7 - 8	-	9	10 - 11	12 - 13 - 14			
	Crimp Force - Tons			Opening Diameter mm		Control Options		Phase		Power Key	Power
AG	062	-	064	-	M	-	-	-	AOH	AIR/HYDRAULIC	
	160	-	102	-	M	DC	1P	3P	012	12 VDC	
	155	-	125	-	M	D	DC	1P	024	24 VDC	
	240	-	120	-	M	D	DC	1P	110	110V 1PH AC	
	310	-	243	-	M	D		1P	230	230V 1PH / 3PH AC	
	340	-	160	-	M	D	DC	1P	380	380V 3PH AC	
	350	-	286	-	M	D		1P	440	440V 3PH AC	
	485	-	320	-	M	D		1P			
	485	-	432	-	M	D		1P			

M= Micrometer D= Digital

DIE SETS

Crimper	Standard Die Set Code	SDS - Die Range mm	Max Die Size Available
AG62-064	AGSDS-62-064-V	16 - 50	50
AG160-102	AGSDS-160-102-V	16 - 69	69
AG155-125	AGSDS-155-125-B	12 - 57	69
AG240-120	AGSDS-240-120-B	12 - 57	69
AG340-160	AGSDS-340-160-B	12 - 69	69
AG310-243	AGSDS-310-243-P	12 - 78	92
AG350-286	AGSDS-350-286-P	12 - 78	190
AG485-350	AGSDS-485-350-P	12 - 78	190
AG485-432	AGSDS-485-432-P	12 - 78	381

V= Vertical crimper B= Benchtop crimper P= Production crimper D= Digital

FITTING IDENTIFICATION

DASH NUMBERS

Most fluid piping system sizes are measured by dash numbers. These are universally used abbreviations for the size of component expressed as the numerator of the fraction with the denominator always being 16. For example, a -04 port is 4/16 or 1/4 inch. Dash numbers are usually nominal (in name only) and are abbreviations that make ordering of

components easier. There are few coupling systems used for hydraulic connections. They are identified as:

American, British, French, German, Japanese

This section lists the origin and coupling style.

Descriptions and dimensional data follows each coupling style.

AMERICAN THREAD TYPES

NPTF - (National Pipe Tapered Fuel)

This is a dryseal thread, the National pipe tapered thread for fuels. This is used for both male and female ends. This connection is still widely used in fluid power systems, even though it is not recommended by the National Fluid Power Association (N.F.P.A.) for use in hydraulic applications. The NPTF male will mate with the NPTF, NPSF or NPSM female.

The NPTF male has tapered threads and a 30° inverted seat. The NPTF female has tapered threads and no seat. The seal takes place by deformation of the threads. The NPSM female has straight threads and a 30° inverted seat. The seal takes place on the 30° seat.

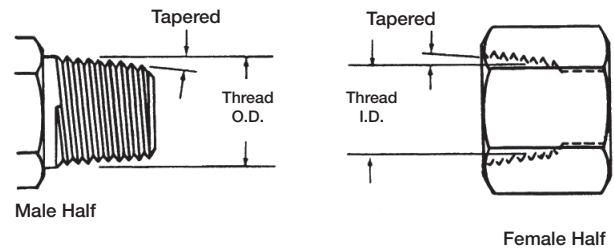
The NPTF connector is similar to, but not interchangeable with, the BSPT connector. The thread pitch is different in most sizes. Also, the thread angle is 60° instead of the 55° angle found on BSPT threads.

NPSF - (National Pipe Straight Thread for Fuels)

The National pipe straight thread for fuels. This is sometimes used for female ends and properly mates with the NPTF male end. However, the SAE recommends the NPTF thread in preference to the NPSF for female ends.

NPSM - (National Pipe Straight Mechanical)

National pipe straight thread for mechanical joint. This is used on the female swivel nut of iron pipe swivel adapters. The leak-resistant joint is not made by the sealing fit of threads, but by a tapered seat in the coupling end. This connection is sometimes used in fluid power systems.



Thread Identification Table
National Pipe Straight Mechanical (NPSM)
National Pipe Tapered for Fuels (NPTF)

Dash Size	Inch Size (in)	Thread Size (in-TPI)	Female Thread I.D.		Male Thread O.D.	
			(mm)	(in)	(mm)	(in)
-2	1/8	1/8-27	8.7	0.34	10.3	0.41
-4	1/4	1/4-18	11.9	0.47	14.3	0.56
-6	3/8	3/8-18	15.1	0.59	17.5	0.69
-8	1/2	1/2-14	18.3	0.72	21.4	0.84
-12	3/4	3/4-14	23.8	0.94	27.0	1.06
-16	1	1-11.1/2	30.2	1.19	33.3	1.31
-20	1.1/4	11/4-11.1/2	38.9	1.53	42.9	1.69
-24	1.1/2	11/2-11.1/2	44.5	1.75	48.4	1.91
-32	2	2-11.1/2	57.2	2.25	60.3	2.38

FITTINGS GUIDELINES

FITTING IDENTIFICATION

DASH NUMBERS

Most fluid piping system sizes are measured by dash numbers. These are universally used abbreviations for the size of component expressed as the numerator of the fraction with the denominator always being 16. For example, a -04 port is 4/16 or 1/4 inch. Dash numbers are usually nominal (in name only) and are abbreviations

that make ordering of components easier. There are many coupling systems used for hydraulic connections. They are identified as:

American, British, French, German, Japanese

This section lists the origin and coupling style.

Descriptions and dimensional data follows each coupling

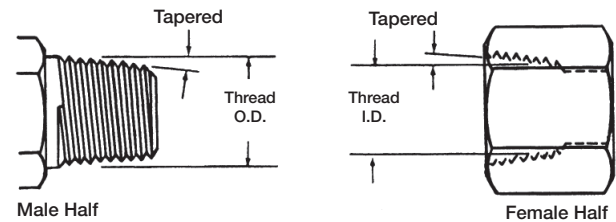
AMERICAN THREAD TYPES

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This is a dryseal thread, the National pipe tapered thread for fuels. This is used for both male and female ends. This connection is still widely used in fluid power systems, even through it is not recommended by the National Fluid Power Association (N.F.P.A.) for use in hydraulic applications. The NPTF male will mate with the NPTF, NPSF or NPSM female.

The NPTF male has tapered threads and a 30° inverted seat. The NPTF female has tapered threads and no seat. The seal takes place by deformation of the threads. The NPSM female has straight threads and a 30° inverted seat. The seal takes place on the 30° seat.

The NPTF connector is similar to, but not interchangeable with, the BSPT connector. The thread pitch is different in most sizes. Also, the thread angle is 60° instead of the 55° angle found on BSPT threads.



NPSF - (National Pipe Straight Thread for Fuels)

The National pipe straight thread for fuels. This is sometimes used for female ends and properly mates with the NPTF male end. However, the SAE recommends the NPTF thread in preference to the NPSF for female ends.

NPSM - (National Pipe Straight Mechanical)

National pipe straight thread for mechanical joint. This is used on the female swivel nut of iron pipe swivel adapters. The leak-resistant joint is not made by the sealing fit of threads, but by a tapered seat in the coupling end. This connection is sometimes used in fluid power systems.

Thread Identification Table

National Pipe Straight Mechanical (NPSM)

National Pipe Tapered for Fuels (NPTF)

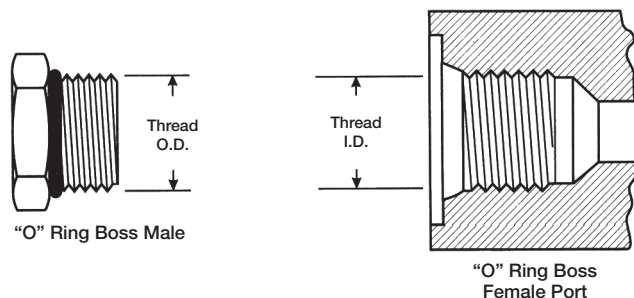
Tube Size Dash	Tube Size (in)	Thread Size (in-TPI)	Female Thread I.D. (mm)	Female Thread I.D. (in)	Male Thread O.D. (mm)	Male Thread O.D. (in)
-2	1/8	1/8-27	8.7	0.34	10.3	0.41
-4	1/4	1/4-18	11.9	0.47	14.3	0.56
-6	3/8	3/8-18	15.1	0.59	17.5	0.69
-8	1/2	1/2-14	18.3	0.72	21.4	0.84
-12	3/4	3/4-14	23.8	0.94	27.0	1.06
-16	1	1-11.1/2	30.2	1.19	33.3	1.31
-20	1.1/4	11/4-11.1/2	38.9	1.53	42.9	1.69
-24	1.1/2	11/2-11.1/2	44.5	1.75	48.4	1.91
-32	2	2 - 11.1/2	57.2	2.25	60.3	2.38

SAE J514 Straight Thread O-Ring Boss (ORB)

This port connection is recommended by the N.F.P.A. for optional leakage control in medium and high pressure hydraulic systems. The O'ring boss male will mate with an O'ring boss female only.

The female is generally found on ports.

SAE Straight Thread O-Ring Boss



Thread Identification Table
SAE J514 Straight Thread O-Ring Boss

Dash Size	Inch Size (in)	Thread Size (in-TPI)	Female Thread I.D.		Male Thread O.D.	
			(mm)	(in)	(mm)	(in)
-2	1/8	5/16-24	6.9	0.27	7.8	0.31
-3	3/16	3/8-24	8.5	0.34	9.4	0.37
-4	1/4	7/16-20	9.9	0.39	11.2	0.44
-5	5/16	1/2-20	11.5	0.45	12.6	0.49
-6	3/8	9/16-18	12.9	0.51	14.1	0.56
-8	1/2	3/4-16	17.5	0.69	18.9	0.74
-10	5/8	7/8-14	20.5	0.81	22.1	0.87
-12	3/4	1.1/16-12	24.9	0.98	26.9	1.06
-14	7/8	1.3/16-12	28.1	1.11	30.3	1.18
-16	1	1.5/16-12	31.3	1.23	33.1	1.31
-20	1.1/4	1.5/8-12	39.2	1.54	41.1	1.62
-24	1.1/2	1.7/8-12	45.6	1.79	47.4	1.87
-32	2	2.1/2-12	61.4	2.42	63.3	2.49

The male has straight threads and an O'ring. The female has straight threads and a sealing face. The seal is made at the O'ring on the male and the sealing face on the female. The threads hold the connection mechanically.

SAE J514 37° (JIC)

The Society of Automotive Engineers (SAE) specifies a 37° angle flare or seat be used with high pressure hydraulic tubing. These are commonly called JIC couplings.

The JIC 37° flare male will mate with a JIC female only.

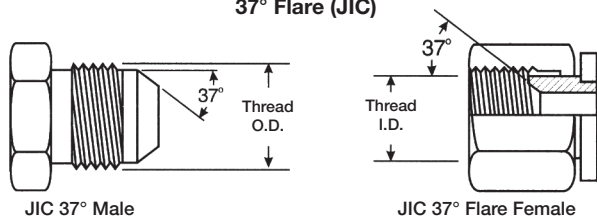
The JIC male has straight threads and a 37° flare seat.

The JIC female has straight threads and a 37° flare seat.

The seal is made on the 37° flare seat by establishing a line contact between the male flare and the female cone seat.

The threads hold the connection mechanically.

37° Flare (JIC)



Thread Identification Table
SAE J514 37° Flare (JIC)

Tube Size Dash	Tube Size Inch	Thread Size (in-TPI)	Female Thread I.D.		Male Thread O.D.	
			(mm)	(in)	(mm)	(in)
-2	1/8	5/16-24	6.9	0.27	7.8	0.31
-3	3/16	3/8-24	8.5	0.34	9.4	0.37
-4	1/4	7/16-20	9.9	0.39	11.2	0.44
-5	5/16	1/2-20	11.5	0.45	12.6	0.49
-6	3/8	9/16-18	12.9	0.51	14.1	0.56
-8	1/2	3/4-16	17.5	0.69	18.9	0.74
-10	5/8	7/8-14	20.5	0.81	22.1	0.87
-12	3/4	1.1/16-12	24.9	0.98	26.9	1.06
-14	7/8	1.3/16-12	28.1	1.11	30.3	1.18
-16	1	1.5/16-12	31.3	1.23	33.1	1.31
-20	1.1/4	1.5/8-12	39.2	1.54	41.1	1.62
-24	1.1/2	1.7/8-12	45.6	1.79	47.4	1.87
-32	2	2.1/2-12	61.4	2.42	63.3	2.49

CAUTION: In the -02, -03, -04, -05, -08 and -10 sizes, the threads of the SAE 45° flare and the SAE 37° flare are the same. However, the sealing surface angles are not the same. Carefully measure the seat angle to differentiate.

SAE J512 45°

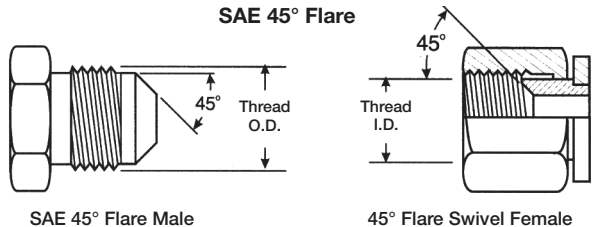
A term usually applied to fittings having a 45° angle flare or seat. Soft copper tubing is generally used in such applications as it is easily flared to the 45° angle. These are for low pressure applications - commonly used in refrigeration, automotive and truck piping systems. The SAE 45° flare male will mate with an SAE 45° flare female only.

The SAE male has straight threads and a 45° flare seat.

The SAE female has straight threads and a 45° flare seat.

The seal is made on the 45° flare seat.

SAE 45° Flare



Thread Identification Table
SAE J512 45°

Tube Size Dash	Tube Size Inch	Thread Size (in-TPI)	Female Thread I.D.		Male Thread O.D.	
			(mm)	(in)	(mm)	(in)
-2	1/8	5/16-24	6.9	0.27	7.9	0.31
-3	3/16	3/8-24	8.6	0.34	9.6	0.38
-4	1/4	7/16-20	9.9	0.39	11.2	0.44
-5	5/16	1/2-20	11.4	0.45	12.7	0.50
-6	3/8	5/8-18	14.2	0.56	15.7	0.62
-7	7/16	11/16-16	15.7	0.62	17.3	0.68
-8	1/2	3/4-16	17.0	0.68	19.0	0.75
-10	5/8	7/8-14	20.3	0.80	22.3	0.88
-12	3/4	1.1/16-14	25.1	0.99	26.9	1.06
-14	7/8	1.1/4-12	29.5	1.16	31.7	1.25
-16	1	1.3/8-12	32.5	1.28	35.0	1.38

The threads hold the connection mechanically.

CAUTION: In the -02, -03, -04, -05, -08 and -10 sizes, the threads of the SAE 45° flare and the SAE 37° flare are the same. However, the sealing surface angles are not the same. Carefully measure the seat angle to differentiate.

SAE J518/ISO - DIS 6162/JIS B8363 O-Ring Flange

This connection is commonly used in fluid power system. There are two pressure ratings. Code 61 Form R, PN 35/350 bar, Type I, is referred to as the “standard” series and Code 62 Form S, PN 415 bar, Type II, is the “heavy duty” “6000 psi” series. The design concept for both series is the same, but the bolt hole spacing and flanged head diameters are larger for the higher pressure, Code 62 connection.

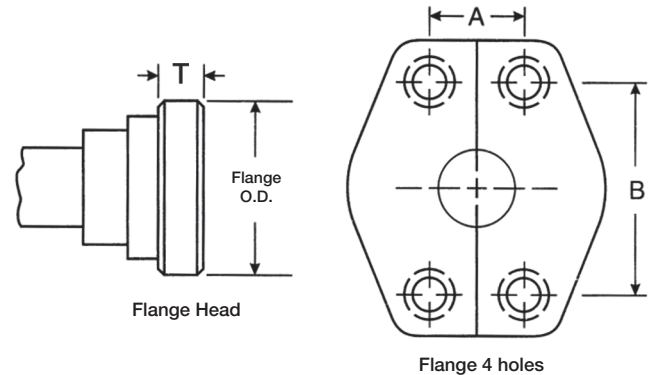
The female (port) is an unthreaded hole with four bolt holes in a rectangular pattern around the port.

The male consists of a flanged head, grooved for an O-Ring, and either a captive flange or split flange halves with bolt holes to match the port. The seal take place on the O-Ring, which is compressed between the flange head and the flat surface surrounding the port. The threaded bolts hold the connection together.

SAE J518, DIN 20066, ISO/DIS 6162 and JIS B 8363 are interchangeable, except for bolt sizes.

*All Code 61 flange head hose couplings meet or exceed SAE J518 Code 61 requirements for hydraulic split flange connections. The Code 61 flange head design can withstand a maximum operating pressure of 3000 to 5000 psi depending on size.

SAE Code 61 and Code 62
flange 4 holes



Flange Dash Size	SAE Cod 61 FORM R - PN 35/350 - TYPE I								SAE Cod 62 FORM S - PN 415 - TYPE II								CATERPILLAR								
	Flange Head Size		Flange Head T		A		B		Flange Head Size		Flange Head T		A		B		Flange Head Size		Flange Head T		A		B		
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
-8	1.19	30.2	.265	6.7	.69	17.5	1.50	38.1	1.25	31.8	.305		.71	18.2	1.59	40.5									
-10*	1.34	34.0	.265	6.7	.78	19.8	1.69	42.9																	
-12	1.50	38.1	.265	6.7	.87	22.2	1.89	47.6	1.63	41.3	.345	8.7	.94	23.8	2.00	50.8	1.63	41.3	.56	14.2	.94	23.8	2.00	50.8	
-16	1.75	44.5	.315	8.0	1.03	26.2	2.05	52.4	1.88	47.6	.375	9.5	1.10	27.8	2.25	57.2	1.88	47.6	.56	14.2	1.10	27.8	2.25	57.2	
-20	2.00	50.8	.315	8.0	1.19	30.2	2.31	58.7	2.13	54.0	.405	10.3	1.26	31.8	2.63	66.7	2.13	54.0	.56	14.2	1.26	31.8	2.63	66.7	
-24	2.38	60.3	.315	8.0	1.41	35.7	2.75	69.9	2.50	63.5	.495	12.6	1.44	36.6	3.13	79.4	2.50	63.5	.56	14.2	1.44	36.6	3.13	79.4	
-32	2.81	71.4	.375	9.5	1.69	42.9	3.06	77.8	3.13	79.4	.495	12.6	1.73	44.4	3.81	96.8	3.13	79.4	.56	14.2	1.73	44.4	3.81	96.8	
-40	3.31	84.1	.375	9.5	2.00	50.8	3.50	88.9																	

T = Thickness

-10 is a non SAE size flange

How to measure

Four Bolt Flange - First measure the port hole diameter using the caliper. Next, measure the longest bolt hole spacing from centre-to-centre (Dimension “A”) or measure the flanged head diameter. O.D.

There are three exceptions:

1. The size -10, which is common outside of North America is not an SAE Standard size.
2. Caterpillar flanges, which are the same flange O.D. as SAE Code 62, have a thicker flange head.
3. Poclairn flanges, which are completely different from SAE flanges.

BRITISH CONNECTIONS

British Standard Pipe Parallel (BSPP)

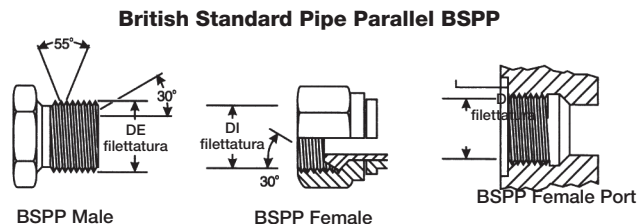
Popular couplings British Standard Pipe (BSP) threads, also known as Whitworth threads.

The BSPP (parallel) male will mate with a BSPP (parallel) female or a female port.

The BSPP male has straight threads and a 30° seat.

The BSPP female has straight threads and a 30° seat.

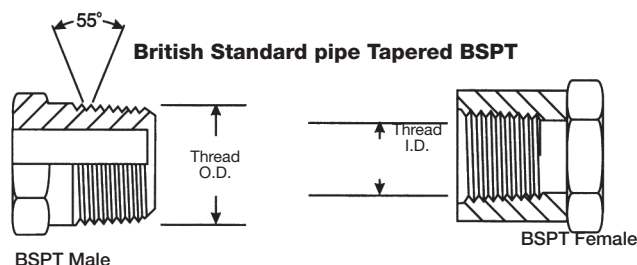
The female port has straight threads and a spotface. The seal on the port is made with an O-Ring or soft metal washer on the male. The BSPP (parallel) connector is similar to, but not interchangeable with, the NPSM connector. The thread pitch is different in most sizes, and the thread angle is 55° instead of the 60° angle found on NPSM threads. The female swivel BSPP has a tapered nose which seals on the cone seat of the male.



British Standard Pipe Tapered (BSPT)

The BSPT (tapered) male will mate with a BSPT (tapered) female, or a BSPP (parallel) female. The BSPT male has tapered threads. When mating with either the BSPT (tapered) female or the BSPP (parallel) female port, the seal is made on the threads accomplished by thread distortion. A thread sealant is recommended.

The BSPT connector is similar to, but not interchangeable with, the NPTF connector. The thread pitch is different in most cases, and the thread angle is 55° instead of the 60° angle found on NPTF threads.



Thread Identification Table

BSPP - (British Standard Pipe Parallel)

BSPT - (British Standard Pipe Tapered)

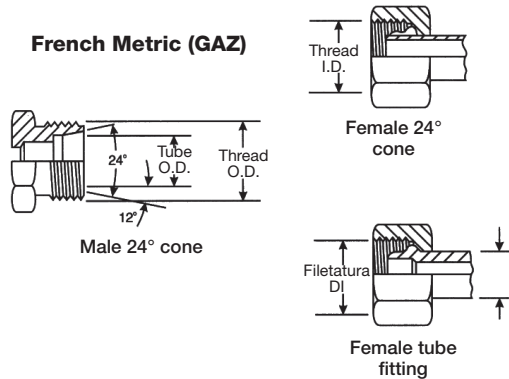
Dash Size	Inch Size (in)	Filetto Size (in-TPI)	Female Thread I.D.		Male Thread O.D.	
			(mm)	(in)	(mm)	(in)
-2	1/8	1/8-27	8.7	0.34	9.5	0.38
-4	1/4	1/4-18	11.1	0.44	13.5	0.56
-6	3/8	3/8-18	15.1	0.59	16.7	0.66
-8	1/2	1/2-14	18.3	0.72	20.6	0.81
-10	5/8	5/8-14	20.6	0.81	23.0	0.91
-12	3/4	3/4-14	23.8	0.94	26.2	1.03
-16	1	1-11	30.2	1.19	33.3	1.31
-20	1-1/4	1.1/4-11	38.9	1.53	41.1	1.66
-24	1-1/2	1.1/2-11	45.2	1.78	47.6	1.88
-32	2	2-11	56.4	2.22	59.5	2.34

FRENCH CONNECTIONS

French GAZ have a 24° seat and metric threads. These are similar to German DIN couplings, but the threads are different in some sizes, the French use fine threads in all sizes. French flanges are different than SAE, they have a lip that protrudes from the flange face. These are Poclairn style flanges.

Millimétrique and GAZ 24°

This connection consists of a common male and two different females. The French Metric (GAZ) male will mate with the female 24° cone or the female tube fitting. The male has a 24° seat and straight metric threads. The female has a 24° seat or a tubing sleeve and straight metric threads. The Millimétrique Series is used with whole number metric O.D. tubing and the GAZ Series is used with fractional number metric O.D. pipe size tubing.



Thread Identification Table French Metric Millimétrique

Metric Thread (dia x pitch)	Female Thread I.D.		Male Thread O.D.		Tubo O.D.	
	(mm)	(in)	(mm)	(in)	(mm)	(in)
M12 X 1.0	11.0	0.43	12.0	0.47	6	0.24
M14 X 1.5	12.5	0.49	14.0	0.55	8	0.31
M16 X 1.5	14.5	0.57	16.0	0.63	10	0.39
M18 X 1.5	16.5	0.65	18.0	0.71	12	0.47
M20 X 1.5	18.5	0.73	20.0	0.79	14	0.55
M22 X 1.5	20.5	0.81	22.0	0.87	15	0.59
M24 X 1.5	22.5	0.89	24.0	0.94	16	0.63
M27 X 1.5	25.5	1.00	27.0	1.06	18	0.71
M30 X 1.5	28.5	1.12	30.0	1.18	22	0.87
M33 X 1.5	31.5	1.24	33.0	1.30	25	0.98
M36 X 1.5	34.5	1.36	36.0	1.42	28	1.10
M39 X 1.5	37.5	1.48	39.0	1.54	30	1.18
M42 X 1.5	40.5	1.59	42.0	1.65	32	1.26
M45 X 1.5	43.5	1.71	45.0	1.77	35	1.38
M48 X 1.5	46.5	1.83	48.0	1.89	38	1.50
M52 X 1.5	50.5	1.99	52.0	2.05	40	1.57
M54 X 2.0	51.9	2.04	54.0	2.13	45	1.77

Thread Identification Table French Metric GAZ 24° Cone

Dash Size (dash)	Metric Thread (filetti per pollice)	Female Thread I.D.		Male Thread O.D.		Tube O.D. 60° cone	
		(mm)	(in)	(mm)	(in)	(mm)	(in)
-6	M20 X 1.5	18.5	0.73	20.0	0.78	13.25	0.52
-8	M24 X 1.5	22.5	0.89	24.0	0.94	16.75	0.66
-10	M30 X 1.5	28.5	1.12	30.0	1.18	21.25	0.83
-12	M36 X 1.5	34.5	1.36	36.0	1.41	26.75	1.05
-16	M45 X 1.5	43.5	1.71	45.0	1.77	33.50	1.32
-20	M52 X 1.5	50.5	1.99	52.0	2.04	42.25	1.66

GAZ Poclairn 24° Flange

The Poclairn (French GAZ) 24° high pressure flange is usually found on Poclairn equipment. The male flange will mate with a female flange or a port. The seal is made on the 24° seat.

Nominal Size (in)	A		B		E	
	(mm)	(in)	(mm)	(in)	(mm)	(in)
1/2	39.9	1.57	18.3	.72	14	.55
5/8	39.9	1.57	18.3	.72	14	.55
3/4	50.8	2	23.9	.94	18	.71

GERMAN DIN CONNECTIONS

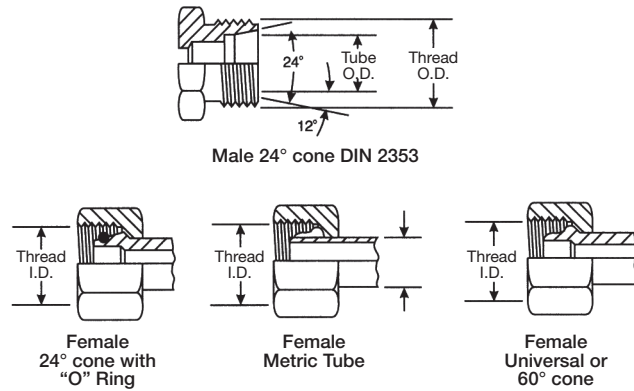
A coupling referred to as metric, usually means a DIN coupling. Flanges are standard Code 61 or Code 62.

DIN 2353 24° Cone

The DIN 24° cone male will mate with any of the three females shown below.

The male has a 24° seat, straight metric threads, and a recessed counterbore which matches the tube O.D. used with it. The mating female may be a 24° cone with O'ring, (DKO type) a metric tube fitting or a universal 24° or 60° cone.

DIN 24° Male and Mating Females



Thread Identification Table DIN 24° Cone

Metric Thread (dia x pitch)	Female Thread I.D.		Male Thread O.D.		Tube O.D.			
	(mm)	(in)	(mm)	(in)	Light Series		Heavy Series	
					(mm)	(in)	(mm)	(in)
M12 X 1.5	10.5	0.41	12	0.47	6	0.24		
M14 X 1.5	12.5	0.49	14	0.55	8	0.31	6	0.24
M16 X 1.5	14.5	0.57	16	0.63	10	0.39	8	0.31
M18 X 1.5	16.5	0.65	18	0.71	12	0.47	10	0.39
M20 X 1.5	18.5	0.73	20	0.79			12	0.47
M22 X 1.5	20.5	0.81	22	0.87	15	0.59	14	0.55
M24 X 1.5	22.5	0.89	24	0.94			16	0.63
M26 X 1.5	24.5	0.96	26	1.02	18	0.71		
M30 X 2.0	27.9	1.10	30	1.18	22	0.87	20	0.79
M36 X 2.0	33.9	1.33	36	1.42	28	1.10	25	0.98
M42 X 2.0	39.9	1.57	42	1.65			30	1.18
M45 X 2.0	42.9	1.69	45	1.77	35	1.38		
M52 X 2.0	49.9	1.96	52	2.05	42	1.65	38	1.50

There is a light and heavy series DIN coupling. Proper identification is made by measuring both the thread size and the tube O.D. (The heavy series has a smaller tube O.D. than the light, but has a thicker wall section).

DIN 3863 60° Cone

This connection is frequently used in hydraulic systems. The DIN 60° cone male will mate with the female universal 24° or 60° cone only.

The male has a 60° seat and straight metric threads. The female has a 24° and 60° universal seat and straight metric threads. The seal takes place by contact between the cone of the male and the nose of the flareless swivel. The threads hold the connection mechanically.

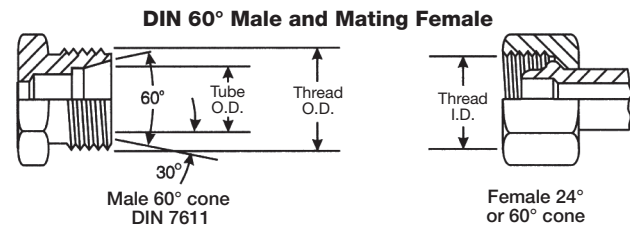


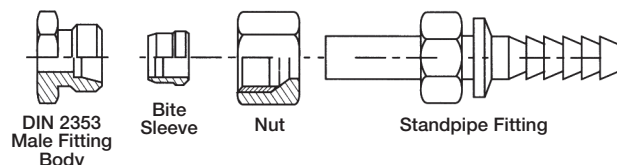
Tabella di identificazione della filettatura DIN 60°

Metric Thread (filetti per pollice)	Female Thread I.D.		Male Thread O.D.		Tube O.D. 60° cone	
	(mm)	(in)	(mm)	(in)	(mm)	(in)
M12 X 1.5	10.5	0.41	12	0.47	6	0.24
M14 X 1.5	12.5	0.49	14	0.55	8	0.31
M16 X 1.5	14.5	0.57	16	0.63	10	0.39
M18 X 1.5	16.5	0.65	18	0.71	12	0.47
M22 X 1.5	20.5	0.81	22	0.87	15	0.59
M26 X 1.5	24.5	0.96	26	1.02	18	0.71
M30 X 1.5	28.5	1.12	30	1.18	22	0.87
M38 X 1.5	36.5	1.44	38	1.50	28	1.10
M45 X 1.5	43.5	1.71	45	1.77	35	1.38
M52 X 1.5	50.5	1.99	52	2.05	42	1.65

Metric Standpipe

A metric standpipe is comprised of three components attached to a male fitting. The components are: a Standpipe, Bite Sleeve and Metric Nut. The nut is placed over the Standpipe, followed by the Bite Sleeve (see illustration below). For DIN light assemblies, a DIN light metric nut is used. For DIN heavy assemblies, a DIN heavy metric nut is used. The Bite Sleeve and Standpipe are selected on the basis of tube O.D.

Metric Standpipe Assembly



Tube O.D. (mm)	Metric Nut Thread	
	Light	Heavy
6	M12 x 1.5	
8	M14 x 1.5	M16 x 1.5
10	M16 x 1.5	M18 x 1.5
12	M18 x 1.5	M20 x 1.5
15	M22 x 1.5	
16		M24 x 1.5
18	M26 x 1.5	
20		M30 x 2.0
22	M30 x 1.5	
25		M36 x 2.0
28	M36 x 2.0	
30		M42 x 2.0
35	M45 x 2.0	
38		M52 x 2.0
42	M52 x 2.0	

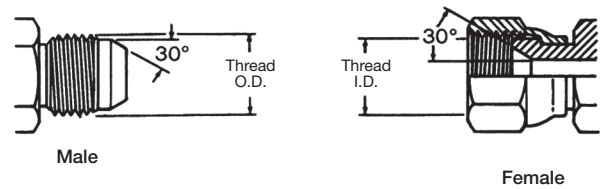
FITTINGS GUIDELINES

JAPANESE CONNECTIONS

Japanese equipment uses JIS (Japanese Industrial Standard) couplings with a 30° seat and British Standard Pipe Parallel threads. All flanges are Code 61 or Code 62 (except -10).

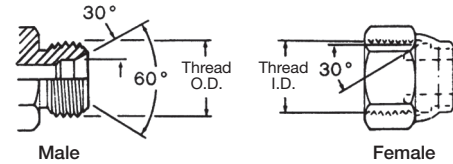
JIS 30° Flare Parallel Pipe Threads - JIS B 0202

These Japanese 30° flare male coupling will mate with a Japanese 30° flare female only. The male and female have straight threads and a 30° seat. The seal is made on the 30° seat. The threads on the Japanese 30° flare connector conform to JIS B 0202, the same as the BSPP threads. Both the British and Japanese connectors have a 30° seat, but they are not interchangeable, because the British seat is inverted.



JIS 30° Inverted Seat, Parallel Pipe Threads - JIS B 0202

The JIS parallel is similar to the BSPP connection. The JIS parallel thread and the BSPP connection are interchangeable.



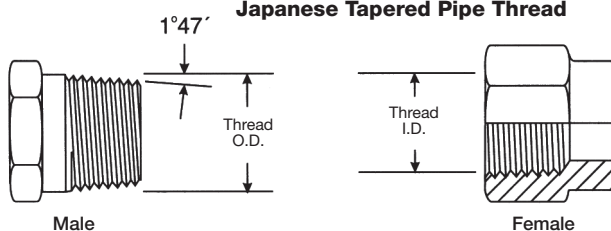
JIS Tapered Pipe Thread (PT) - JIS B 0203

The JIS tapered pipe thread connection is similar to the BSPT connection and fully interchangeable. The Japanese connection does not have a 30° Flare, and will not mate with the BSPP female. The thread conform to JIS B 0203, same as BSPT threads. The seal on the JIS tapered pipe thread connection is made on the threads.

Thread Identification Table

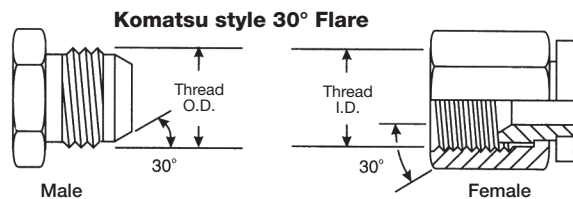
Dash Size (dash)	Inch Size (in)	Thread Size (in-TPI)	Female Thread I.D.		Male Thread O.D.	
			(mm)	(in)	(mm)	(in)
-2	1/8	1/8-27	8.7	0.34	9.5	0.38
-4	1/4	1/4-18	11.1	0.44	13.5	0.56
-6	3/8	3/8-18	15.1	0.59	16.7	0.66
-8	1/2	1/2-14	18.3	0.72	20.6	0.81
-10	5/8	5/8-14	20.6	0.81	23.0	0.91
-12	3/4	3/4-14	23.8	0.94	26.2	1.03
-16	1	1-11	30.2	1.19	33.3	1.31
-20	1-1/4	1-1/4-11	38.9	1.53	41.1	1.66
-24	1-1/2	1-1/2-11	45.2	1.78	47.6	1.88
-32	2	2-11	56.4	2.22	59.5	2.34

Japanese Tapered Pipe Thread



Komatsu Style 30° Flare Parallel Threads

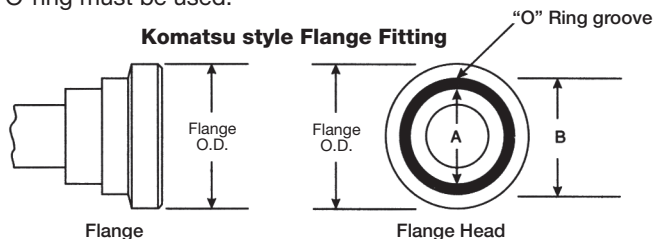
The Komatsu style 30° Flare Parallel thread coupling is identical to the Japanese 30° Flare parallel except for the threads. The Komatsu uses Metric fine threads which conform to JIS B 0207. The Komatsu connector seals on the 30° Flare.



Flange Dash Size	Normal Size (In.)	Normal Size (mm)	Metric Thread Size	Male Thread O.D. (mm)	B Thread I.D. (mm)
-6	3/8	9.5	M18x1.5	18	16.4
-8	1/2	13	M22x1.5	22	20.4
-10	5/8	16	M24x1.5	24	22.4
-12	3/4	19	M30x1.5	30	28.4
-16	1	25	M33x1.5	33	31.4
-20	1-1/4	32	M36x1.5	36	34.4
-24	1-1/2	38	M42x1.5	42	40.4

Komatsu Flange Fitting

The Komatsu Flange fitting is nearly identical to and fully interchangeable with the SAE Code 61 flange fitting. In all sizes the O-ring dimensions are different. When replacing a Komatsu flange with an SAE style flange, an SAE style O-ring must be used.

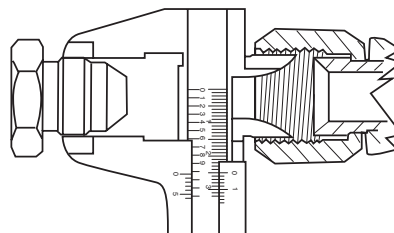


Flange Dash Size	Normal Size (In.)	Normal Size (mm)	Flange Size (In.)	A (In.)	B (In.)
8	1/2	12.7	1.19	.73	.98
10*	5/8	15.9	1.34	.73	1.10
12	3/4	19.1	1.50	.85	1.22
16	1	25.4	1.75	1.12	1.50
20	1-1/4	31.8	2.00	1.36	1.73
24	1-1/2	38.1	2.38	1.75	2.12
32	2	50.8	2.81	2.22	2.56

*is a non SAE size flange

HOW TO DETERMINE THE THREAD TYPE USING CALLIPERS

By measuring with a callipers the outside diameter of the thread of a male or the inside diameter of the thread of a female you will get a measure in mm. By finding this value in mm on the below table, you'll be able to find the relevant thread type.

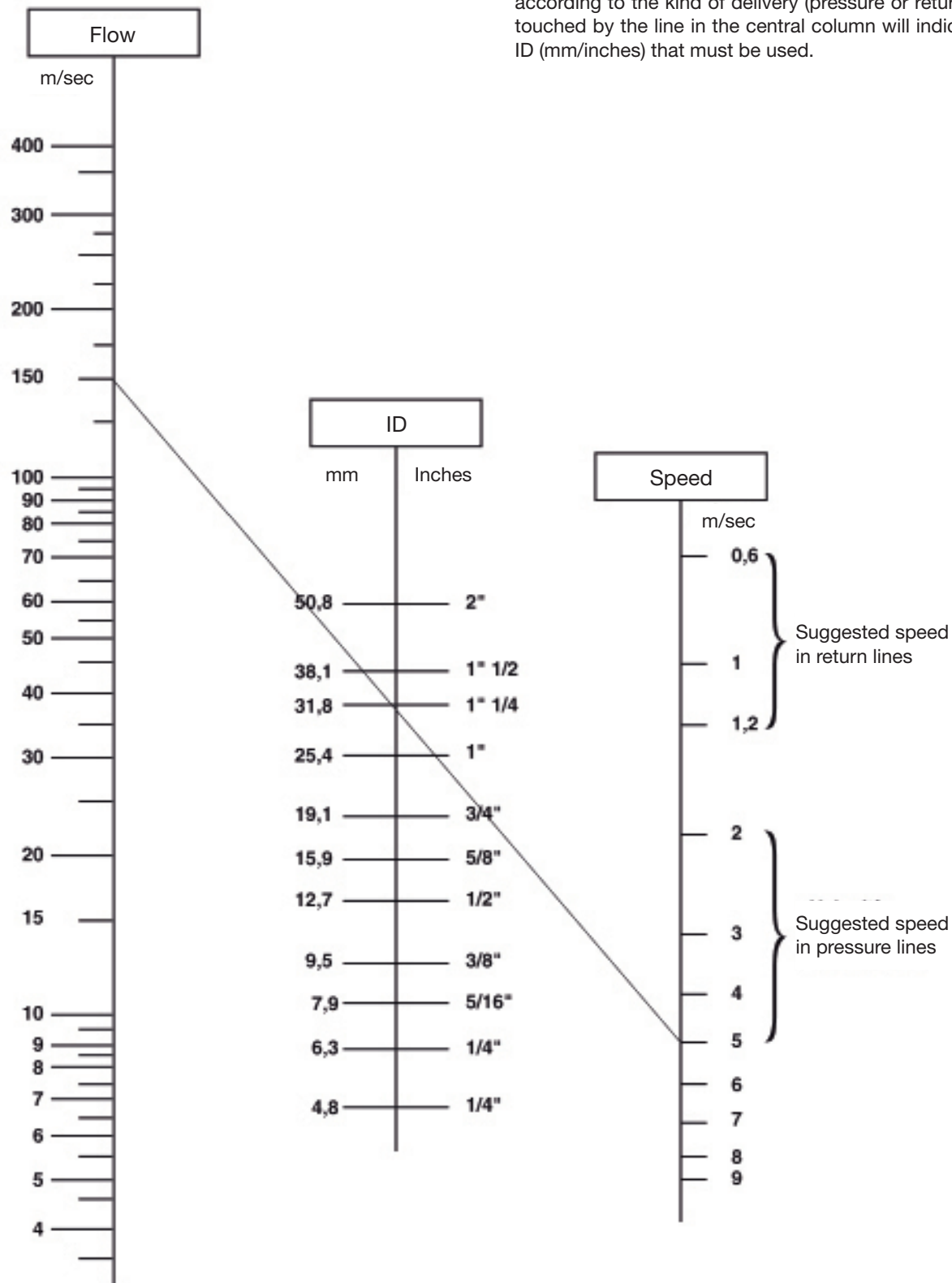


Male OD	mm	Female ID	Male OD	mm	Female ID
	8,7	G1/8" BSP		27,9	1 3/16" – 12 JIC
1/8" – 27 NPTF	9,5			28,0	M 30 x 2
G1/8" BSP	9,6			28,5	30 x 1,5 DKF
M 10 x 1	9,8		M 30 x 2	29,8	
	9,9	7/16" – 20 JIC	30 x 1,5 CEF	29,9	
	10,5	M 12 x 1,5	1 3/16" – 12 JIC	30,1	
7/16" – 20 JIC	11,0			30,7	G1" BSP
	11,4	1/2" – 20 SAE		31,2	1 5/16" – 12 JIC
	11,6	G1/4" BSP	1" – 11 1/2 NPTF	31,4	
M 12 x 1,5	11,9			31,5	M 33 x 1,5
1/4" – 18 NPTF	12,5		G1" BSP	33,1	
	12,5	M 14 x 1,5	1 5/16" – 12 JIC	33,2	
1/2" – 20 SAE	12,6			34,0	M 36 x 2
	12,9	9/16" – 18 JIC		34,5	36 x 1,5 DKF
G1/4" BSP	13,0		M 36 x 2	35,8	
M 14 x 1,5	13,9		36 x 1,5 CEF	35,9	
9/16" – 18 JIC	14,2			36,5	M 36 x 1,5
	14,5	M 16 x 1,5	M 38 x 1,5	37,9	
	15,1	G3/8" BSP		38,8	1 5/8" – 12 JIC
M 16 x 1,5	15,8			39,4	G1 1/4" BSP
3/8" – 18 NPTF	15,9			39,8	M 42 x 2
	16,5	M 18 x 1,5	1 1/4" – 11 1/2 NPTF	40,2	
G3/8" BSP	16,6			40,5	M 42 x 1,5
	17,5	3/4" – 16 JIC	1 5/8" – 12 JIC	41,1	
M 18 x 1,5	17,9		1 1/4" – 11 BSP	41,7	
	18,4	20 x 1,5 DKF	M 42 x 2	41,8	
3/4" – 16 JIC	18,8			42,4	M 45 x 2
	18,8	G1/2" BSP		43,3	45 x 1,5 DKF
1/2" – 14 NPT	19,8		M 45 x 2	44,8	
20 x 1,5 CEF	19,9		45 x 1,5 CEF	44,9	
	20,4	7/8" – 14 SAE		45,1	1 7/8" – 12 JIC
	20,5	M 22 x 1,5		45,2	G1 1/2" BSP
G1/2" BSP	20,8		1 1/2" – 11 1/2 NPTF	46,3	
	20,9	G5/8" BSP	1 7/8" – 12 JIC	47,5	
M 22 x 1,5	21,9		G1 1/2" BSP	47,7	
7/8" – 14 SAE	22,1			49,6	M 52 x 2
	22,5	24 x 1,5 DKF		50,3	52 x 1,5 DKF
G5/8" BSP	22,8		M 52 x 2	51,8	
24 x 1,5 CEF	23,9		52 x 1,5 CEF	51,9	
	24,5	G3/4" BSP		57,4	G2" BSP
	24,8	1 1/16" – 12 JIC	2" – 11 1/2 NPTF	58,3	
3/4" – 14 NPTF	25,1		G2" BSP	59,4	
	25,5	M 26 x 1,5		61,1	2 1/2" – 12 JIC
M 26 x 1,5	25,9			62,5	M 65 x 2
G3/4" BSP	26,3		2 1/2" – 12 JIC	63,3	
1 1/16" – 12 JIC	26,8				

TECHNICAL INFORMATION – NORMOGRAM OF THE FLOW

The normogram herewith is pivotal to help you find the hose diameter by knowing the liquid flow and speed.

In order to find the correct diameter you should trace a line between the flow value (l/min) and the suggested speed (m/sec) according to the kind of delivery (pressure or return). The value touched by the line in the central column will indicate the hose ID (mm/inches) that must be used.



SUGGESTED COUPLING CLAMP FOR THE INSTALLATION OF FITTINGS AND ADAPTERS

SAE J514 37° CONE (JIC)

Dash	Filetto	Lb.ft		N.m	
		Min	Max	Min	Max
-4	7/16-20	11	12	15	16
-5	1/2-20	14	15	19	21
-6	9/16-18	18	20	24	28
-8	3/4-16	36	39	49	53
-10	7/8-14	57	63	77	85
-12	1 1/16-12	79	88	107	119
-14	1 3/16-12	94	103	127	140
-16	1 5/16-12	108	113	147	154
-20	1 5/8-12	127	133	172	181
-24	1/78-12	158	167	215	226
-32	2 1/2-12	245	258	332	350

BSPB without O-Ring

Dash	Filetto	Lb.ft	N.m
-2	1/8-28	7	10
-4	1/4-19	15	20
-6	3/8-19	26	35
-8	1/2-14	44	60
-10	5/8-14	52	70
-12	3/4-14	85	115
-16	1-11	103	140
-20	1 1/4-11	155	210
-24	1 1/2-11	214	290
-32	2-11	295	400

SAE J1453 O-Ring Face Seal (ORFS)

Dash	Filetto	Lb.ft		N.m	
		Min	Max	Min	Max
-4	9/16-18	10	12	14	16
-6	11/16-16	18	20	24	27
-8	13/16-16	32	35	43	47
-10	1-14	46	50	60	68
-12	1 3/16-12	65	70	90	95
-16	1 7/16-12	92	100	125	135
-20	1 11/16-12	125	140	170	190
-24	2-12	150	165	200	225

BSPB with O-Ring

Dash	Filetto	Lb.ft	N.m
-2	1/8-28	N/A	N/A
-4	1/4-19	15	20
-6	3/8-19	26	35
-8	1/2-14	37	50
-10	5/8-14	44	60
-12	3/4-14	63	85
-16	1-11	85	115
-20	1 1/4-11	140	190
-24	1 1/2-11	177	240
-32	2-11	221	300

SAE Flange J518 Code 61

Dash	Filetto	Lb.ft		N.m	
		Min	Max	Min	Max
-8	1/2	15	19	20	25
-12	3/4	21	29	28	40
-16	1	27	35	37	48
-20	1 1/4	35	46	48	62
-24	1 1/2	46	58	62	79
-32	2	54	66	73	90
-40	2 1/2	79	91	107	124
-48	3	137	149	186	203

JIS (B8363)

Dash	Filetto	Lb.ft	N.m
-4	1/4-19	19	25
-6	3/8-19	25	34
-8	1/2-14	49	64
-10	5/8-14	100	132
-12	3/4-14	100	132
-16	1-11	149	196
-20	1 1/4-11	171	225
-24	1 1/2-11	194	255
-32	2-11	240	316

SAE J518 Code 62

Dash	Filetto	Lb.ft		N.m	
		Min	Max	Min	Max
-8	1/2	15	19	20	25
-12	3/4	21	29	28	40
-16	1	27	35	37	48
-20	1 1/4	35	46	48	62
-24	1 1/2	46	58	62	79
-32	2	54	66	73	90

Metric

Filetto	Lb.ft		N.m	
	Min	Max	Min	Max
M12x1,5	8	11	15	20
M14x1,5	13	18	25	30
M16x1,5	19	26	35	40
M18x1,5	22	30	40	45
M20x1,5	24	33	45	50
M22x1,5	32	44	60	70
M24x1,5	41	55	75	85
M26x1,5	46	63	85	95
M30x2	57	77	105	120
M36x2	74	100	135	150
M42x2	111	151	205	230
M45x2	136	184	250	280
M52x2	147	199	270	300

PRESSURE CONVERSION TABLES

Metric to psi (1 kPa = .145 psi)

Kilo Pascal (kPa)	Mega Pascal (MPa)	Bar (Bar)	Pounds per Square Inch (psi)
100	0,1	1	14,5
200	0,2	2	29,0
300	0,3	3	43,5
400	0,4	4	58,0
500	0,5	5	72,5
600	0,6	6	87,0
700	0,7	7	101,5
800	0,8	8	116,0
900	0,9	9	130,5
1000	1	10	145,0
2000	2	20	290,1
3000	3	30	435,1
4000	4	40	580,2
5000	5	50	725,5
6000	6	60	870,2
7000	7	70	1015
8000	8	80	1160
9000	9	90	1305
10000	10	100	1450
20000	20	200	2901
30000	30	300	4351
40000	40	400	5802
50000	50	500	7252
60000	60	600	8702
70000	70	700	10153
80000	80	800	11603
90000	90	900	13053
100000	100	1000	14504
200000	200	2000	29008
300000	300	3000	43511

psi to metric (1 psi = 6,89 kPa)

Pounds per Square Inch (psi)	Kilo Pascal (kPa)	Mega Pascal (MPa)	Bar (Bar)
10	68,9	0,07	0,7
20	137,9	0,14	1,4
30	206,8	0,21	2,1
40	275,8	0,28	2,8
50	344,7	0,34	3,4
60	413,7	0,41	4,1
70	482,6	0,48	4,8
80	551,6	0,55	5,5
90	620,5	0,62	6,2
100	689	0,70	6,9
200	1379	1,4	13,8
300	2068	2,1	20,7
400	2758	2,8	27,6
500	3447	3,4	34,5
600	4137	4,1	41,4
700	4826	4,8	48,3
800	5516	5,5	55,2
900	6205	6,2	62,1
1000	6895	6,9	68,9
2000	13790	13,8	147,9
3000	20684	20,7	206,8
4000	27579	27,6	275,8
5000	34474	34,5	344,7
6000	41369	41,4	413,7
7000	48263	48,3	482,6
8000	55158	55,2	551,6
9000	62053	62,1	620,5
10000	68948	68,9	689
20000	137895	147,9	1379
30000	206843	206,8	2068
40000	275790	275,8	2758

CONVERSION TABLES FROM IMPERIAL SYSTEM TO METRIC SYSTEM

Inches		mm
1/64	.0156	.397
1/32	.0312	.794
3/64	.0468	1.191
1/16	.0625	1.588
5/64	.0781	2.381
3/32	.0937	2.381
7/64	.1093	2.778
1/8	.1250	3.175
9/64	.1406	3.572
5/32	.1562	3.969
11/64	.1718	4.366
3/16	.1875	4.763
13/64	.2031	5.159
7/32	.2187	5.556
15/64	.2343	5.953
1/4	.2500	6.350

Inches		mm
17/64	.2656	6.747
9/32	.2812	7.144
19/64	.2968	7.541
15/16	.3125	7.938
21/64	.3281	8.334
11/32	.3437	8.731
23/64	.3593	9.128
3/8	.3750	9.525
25/64	.3906	9.922
13/32	.4062	10.319
27/64	.4218	10.716
7/16	.4375	11.113
29/64	.4531	11.509
15/32	.4687	11.906
31/64	.4843	12.303
1/2	.5000	12.700

Inches		mm
33/64	.5156	13.097
17/32	.5312	13.494
35/64	.5468	13.891
9/16	.5625	14.288
37/64	.5781	14.684
19/32	.5937	15.081
39/64	.6093	15.478
5/8	.6250	15.875
41/64	.6406	16.272
21/32	.6562	16.669
43/64	.6718	17.066
11/16	.6875	17.463
45/64	.7031	17.859
23/32	.7187	18.256
47/64	.7343	18.653
3/4	.7500	19.050

Inches		mm
49/64	.7656	19.447
25/32	.7812	19.844
51/64	.7968	20.241
13/16	.8125	20.638
53/64	.8281	21.034
27/32	.8437	21.431
55/64	.8593	21.828
7/8	.8750	22.225
57/64	.8906	22.622
29/32	.9062	23.019
59/64	.9218	23.416
15/16	.9375	23.813
61/64	.9531	24.209
31/32	.9687	24.606
63/64	.9843	25.003
1	1.000	25.400

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SAE 100 R7 - EN 855 R7	15
Non-Conductive Hydraulic Hose also available on request. Red Cover	
Tuyau hydraulique-Non-conducteur aussi disponible sur demande. Couvert Rouge	
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MORFS/Bride Code 61 90°

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MORFS/Bride Code 62 90°

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