

REFRI ❄️

**REFRIGERATION
PRODUCT RANGE**



INTRODUCTION

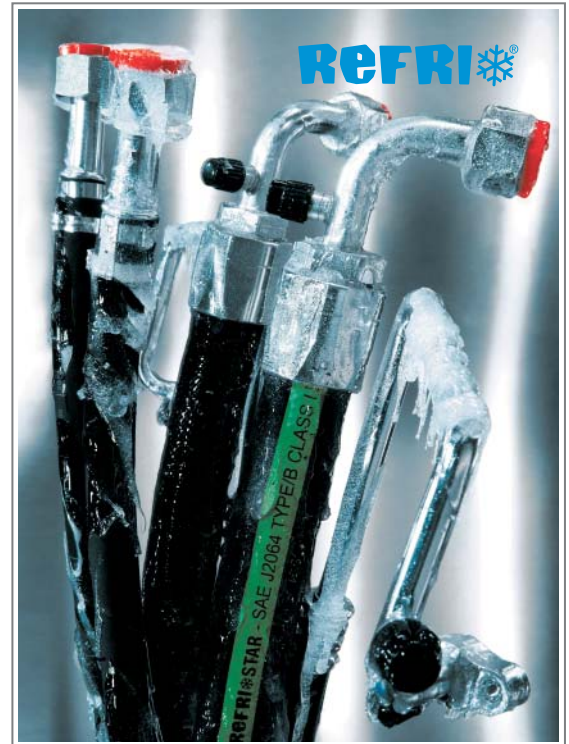
THE OFFER

Manuli Refrigeration offer consists of reinforced rubber hoses, fittings, hose assemblies and kits.

The Refrigeration **offer** is designed specifically to satisfy the most restricted requirements aimed to the development of:

- **bus air conditioning** and **mobile refrigeration** systems for "on-road industrial vehicles"
- **air conditioning systems** applied on off-highway industrial vehicles such as: agricultural machines, earth-moving machines, forestry machines, etc.

The above systems are supplied both directly to manufacturers which need significant product volumes and through specialised distributors operating as part of the Manuli Premier Distributors Network.



LA OFERTA

La oferta de Refrigeración consiste en las reconocidas mangueras de caucho reforzado Manuli, acoples, ensambles de mangueras y kits.

La **oferta** de Refrigeración está diseñada específicamente para satisfacer los requerimientos más estrictos enfocados al desarrollo de:

- **aire acondicionado para buses** y sistemas móviles de refrigeración para "vehículos industriales en movimiento"
- **sistemas de aire acondicionado** aplicado en vehículos industriales fuera de carretera como: máquinas para la agricultura, máquinas para mover tierra, máquinas cosechadoras, etc.

Los sistemas arriba mencionados son suministrados directamente a los fabricantes que necesitan volúmenes significativos de producto y a través de distribuidores especializados que operan como parte de la Red de Premier Distributors de Manuli.



Bus air conditioning
Aire acondicionado para buses



Off highway air conditioning
Aire acondicionado para vehículos fuera de carretera



Mobile refrigeration
Refrigeración móvil

Manuli Rubber Industries, which has always been committed to offering its customers the best possible service, has developed: a special “field-attachable” fitting technology allowing a convenient mounting and disassembly operation, in particular:

- Frigodic® fitting range technology
- Reusable fitting range technology.

A crimped fitting solution, which is completely integrated on all hose lines.

The following pages describe the main steps to correctly assembly our products.

- **Refrimaster with clamp**
- **Refrimaster mounting kit**
- **Refrimaster with ferrule**
- **Refristar with reusable fittings**
- **Refristar with crimped fittings**
- **Refrifast with one-piece crimped fittings**

Please browse through the above procedures before consulting our catalogue and selecting the most suitable product for your need.

Manuli Rubber Industries, que ha estado siempre comprometida a ofrecer a sus clientes el mejor servicio posible, ha desarrollado: una tecnología especial “acorde a la necesidad” permitiendo un montaje conveniente y operación de desensamblaje, en particular:

- tecnología para el rango de acoples Frigodic®
- tecnología para el rango de acoples reusables

Un acople crimpado de o que está completamente integrado con toda la línea de mangueras.

Las siguientes páginas describen los principales pasos para ensamblar correctamente nuestros productos.

- **Refrimaster con abrazadera**
- **Refrimaster kit de montaje/ensamble**
- **Refrimaster con ferrul**
- **Refristar con acoples reusable**
- **Refristar con acoples permanentes**
- **Refrifast con racor prensado en una pieza**

Por favor examine los procedimientos antes de consultar nuestro catálogo y seleccionar el producto más conveniente para sus necesidades.

ASSEMBLING INSTRUCTIONS - REFRIMASTER PROCEDURE

REFRIMASTER WITH CLAMP REFRIMASTER CON ABRAZADERA

The fitting operations are extremely simple, and consist of the following procedures:

Las operaciones de acople son extremadamente simples, y consisten en los siguientes procedimientos:



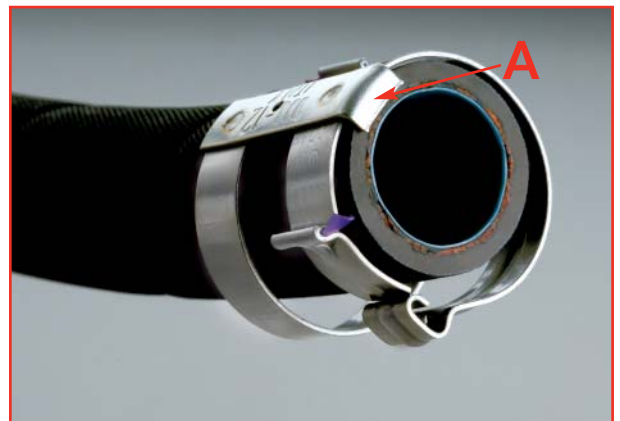
- 1** Check the dimensions of the components.
Verifique las dimensiones de los componentes.



- 2** Cut the end of the hose in a perpendicular direction, using the manual cutter.
Corte el extremo de la manguera en una dirección perpendicular, usando el cortador manual.



- 3** Verify the end of the hose to be cut in a perpendicular direction.
Verifique que el extremo de la manguera esté cortado en dirección perpendicular (a escuadra).



- 4** Place the double clamp on the flexible hose in such a way that the tooth of bar A comes contact with the end of the hose that has been cut.
Coloque la abrazadera doble en la manguera flexible de tal manera que el diente de la barra A entre en contacto con el extremo de la manguera que ha sido cortado.

ASSEMBLING INSTRUCTIONS - REFRIMASTER PROCEDURE



- 5** Lubricate the end of the coupling joint with the same oil used in the air conditioning system.
Lubrique el extremo del racor con el mismo aceite usado en el sistema de aire acondicionado.



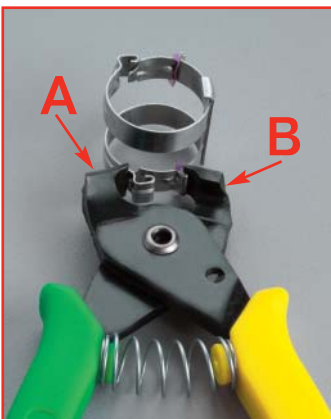
- 6** Find the correct orientation and insert completely the fitting into the hose.
Encuentre la orientación correcta e inserte completamente el acople dentro de la manguera.



- 7** **A** = round nose / nariz redonda
B = thin nose / nariz delgada

- 8 9 10** To fit the coupling in place, position the round nose of the pliers (A) at the hook shaped end of the clamp and the thin nose (B) at the end with the hooked teeth. Tighten the double clamp until the click using the special "CLIC" open-close pliers. To disassemble, just reverse the position of the ends of the pliers on the clamp.

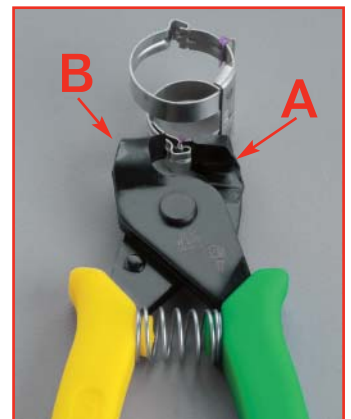
Para colocar el racor en su lugar, coloque la nariz redonda de los alicates (A) en la parte con gancho de la abrazadera y la parte delgada de la nariz (B) en el final con los dientes enganchados. Asegure la abrazadera doble hasta que cierre usando el "CLIC" especial de los alicates para abrir y cerrar. Para desensamblarlo, reverse la posición de las puntas de los alicates en la abrazadera.



- 8** Closing / Cierre



- 9**



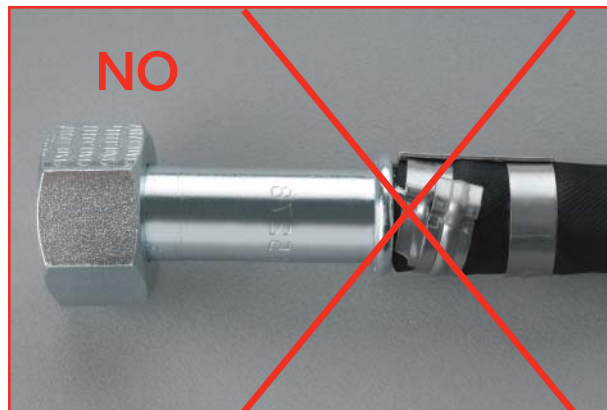
- 10** Opening / Apertura

WARNING: Do not reuse the clamp / **PRECAUCION:** No reutilice la abrazadera

ASSEMBLING INSTRUCTIONS - REFRIMASTER PROCEDURE



11 Verify the parallelism of the two clamps.
Verifique el paralelismo de las dos abrazaderas.



12 Pay attention in tightening clamp in the right way.
Preste atención a asegurar la abrazadera de la manera correcta.

13 14 15 16

WARNING: Position correctly the clamp / **PRECAUCION:** Coloque la abrazadera correctamente



13 Right / Correcto
Solution with brazed insert / Solución con inserto abrazado



14 Wrong / Incorrecto



15 Right / Correcto **15. Right / Correcto**
Solution with insert obtained by deformation / Solución con inserto obtenido por deformación



16 Right / Correcto

ASSEMBLING INSTRUCTIONS - REFRIMASTER PROCEDURE

REFRIMASTER MOUNTING KIT

REFRIMASTER KIT DE MONTAJE/ENSAMBLE



1 Mounting kit.
Kit de montaje.



2 Manual cutter.
Cortador manual.



3 "CLIC" open-close pliers.
Alicates de "CLIC" abrir-cerrar.

Manuli Rubber Industries is able to supply:

- a practical mounting kit containing all tools necessary for the correct assembly of the Frigodic[®] coupling
- the separate supply of hose in rolls, relevant couplings and complete kits according to customer specifications
- the packaging of all the Frigodic[®] in special black bags which guarantee the protection of the insert gaskets from outside light
- the possibility of servicing customers in all the most important countries (on the basis of minimum lot purchase order).

Manuli Rubber Industries tiene el agrado de suministrar:

- un práctico equipo de ensamble que contiene todas las herramientas necesarias para el ensamble correcto de los racores Frigodic[®]
- el suministro separado de manguera en rollos, acoples relacionados y kits completos de acuerdo con las especificaciones del cliente
- el empaque de todos los racores Frigodic[®] en bolsas negras especiales que garantizan la protección de las empaquetaduras de la luz exterior
- la posibilidad de servicio al cliente en todos los países más importantes (sobre la base de la orden de compra mínima).

ASSEMBLING INSTRUCTIONS - REFRIMASTER PROCEDURE

REFRIMASTER WITH FERRULE REFRIMASTER CON FERRUL



- 1** Check the dimensions of the components.
Verifique las dimensiones de los componentes.



- 3** Verify the end of the hose to be cut in a perpendicular direction.
Verifique que la punta de la manguera esté cortada en dirección perpendicular (a escuadra).



- 5** Lubricate the end of the coupling joint with the same oil used in the air conditioning system.
Lubrique la punta del racor con el mismo aceite usado en el sistema de aire acondicionado.



- 2** Cut the end of the hose in a perpendicular direction, using the manual cutter.
Corte la punta de la manguera en dirección perpendicular, usando el cortador manual.



- 4** Place the ferrule on the flexible hose in such a way that the tooth of the ferrule comes contact with the end of the hose that has been cut.
Coloque el ferrul en la manguera flexible de tal manera que el diente del ferrul haga contacto con la punta de la manguera que ha sido cortada.



- 6** Find the correct orientation and insert completely the fitting into the hose.
Encuentre la orientación correcta e inserte completamente el acople dentro de la manguera.

ASSEMBLING INSTRUCTIONS - REFRIMASTER PROCEDURE



7 Set up the crimping machine selecting the die set that is closed to the dimension specified. Crimp to the specified diameter (table a). Ensure the dies fully covers the ferrule length. Aliste la máquina crimpadora seleccionando el conjunto de dados que más se acerque a la dimensión especificada. Crimpe al diámetro específico (tabla a). Asegúrese que los dados cubran completamente la longitud del ferrul.



9 Inspect the crimping dimension using a calibrated vernier. Check the diameter at the centre of the ferrule following the values in table a. Verifique la dimensión de crimpado usando un vernier calibrado. Controle el diámetro en el centro del ferrul siguiendo los valores dados en la tabla a.

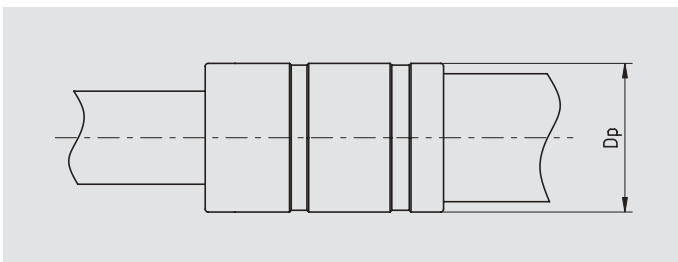


Table a / Tabla a



before / antes



after / después

Solution with insert obtained by deformation
Solución con inserto obtenido por deformación



before / antes



after / después

Solution with brazed insert
Solución con inserto ajustado

8 Pay attention in coupling insert and ferrule.
Preste atención al acoplamiento del inserto y el ferrul.

HOSE SIZE			Dp (±0,1 mm)
DN	Dash	Inch	mm
8	- 06	5/16"	16,9
10	- 08	13/32"	19,9
12	- 10	1/2"	21,8
16	- 12	5/8"	26,0

ASSEMBLING INSTRUCTIONS - REFRISTAR PROCEDURE

REFRISTAR WITH REUSABLE FITTINGS REFRISTAR CON ACOPLER REUSABLES



- 1** Check the dimensions of the components.
Verifique las dimensiones de los componentes.



- 4** Cut the hose by using a proper sharpened disc (see fig. 4), **do not use an abrasive disc.** The hose must be square and clean cut. Avoid cutting the hose not perpendicularly or cutting the hose causing damages on its wire braid (see fig. 2, 3) for a proper cutting hose operation. Clean the hose carefully from any cutting residue.
Corte la manguera usando un disco afilado apropiado (ver fig. 4), **no use un disco abrasivo.** La manguera debe estar cortada a escuadra y limpia. Evite cortar la manguera de manera no perpendicular o cortar la manguera causando daños en sus alambres trenzados (ver fig. 2,3) para un corte apropiado de la manguera. Limpie la manguera cuidadosamente de cualquier residuo del corte.



2

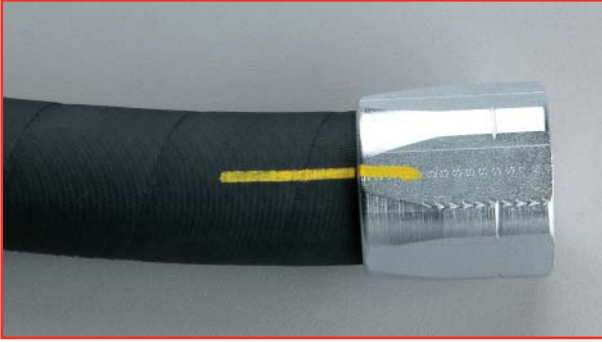


3



- 5** Secure in position the socket i.e. by using a benchvise. Screw the hose counterclockwise into the socket until it reaches the bottom. Unscrew 1/4 turn to prevent damage in screwing. Asegure en posición el socket, por ejemplo usando una prensa. Atornille la manguera en dirección de las agujas del reloj dentro del socket hasta que llegue al fondo. Destornille 1/4 de vuelta para prevenir daño.

ASSEMBLING INSTRUCTIONS - REFRISTAR PROCEDURE



- 6** Mark the socket and the hose using an indelible felt tip pen, to verify any absence of hose rotation inside the socket during the fittings crewing. Marque el socket y la manguera usando un lapicero de felpa con tinta indeleble, para verificar que la manguera no rote dentro del socket durante el proceso de inserción del racor.



- 8** Insert the fitting into the hose. Press slightly and screw by hand turning clockwise the first threads. Then by using an appropriate spanner or a screwspanner on the hexagon, screw the fitting into the socket with a continuous and constant rotation motion and verify any absence of hose rotation inside the socket during the fitting screwing. Complete the screwing until the fitting reaches the bottom against the socket. Never overtighten. Assembling is now finished. Inserte el racor dentro de la manguera. Presione ligeramente y atornille con la mano moviendo en dirección a las agujas del reloj los primeros filamentos. Luego usando una llave de tuercas apropiada sobre el hexágono, atornille el racor dentro del socket con un movimiento de rotación continuo y constante y verifique que la manguera no haya rotado dentro del socket durante el proceso de inserción. Complete el ajuste hasta que el racor llegue al fondo contra el socket. Nunca lo apriete demasiado. El ensamble está ahora terminado.



- 7** Position the hose complete with socket i.e. by using a bench vise. Lubricate by a generous amount of oil the threading and the taper of the fitting as well as the inside of hose. **WARNING: Use the same lubricant used in the A/C system.**

Coloque la manguera completa con el socket por ejemplo usando una prensa. Lubrique con una generosa cantidad de aceite la superficie del cono y del racor así como el interior de la manguera. **PRECAUCION: Utilice el mismo lubricante usado en el sistema de aire acondicionado.**



- 9** It's acceptable to leave a margin of max 3 mm between the hexagon of the fitting and the socket. Verify alignment. Es aceptable dejar un margen de máximo 3 mm entre el hexágono del racor y el socket. Verifique la alineación.

ASSEMBLING INSTRUCTIONS - REFRISTAR PROCEDURE

REFRISTAR WITH CRIMPED FITTINGS REFRISTAR CON ACOPLER PERMANENTES

It is important that hose assemblies for A/C Vehicles (for instance off highway), A/C Buses and Mobile Refrigeration using Manuli Hose, Ferrules & Fittings are manufactured to the procedures below:

Es importante que los ensambles de mangueras para aire acondicionado para vehículos (por ejemplo para equipos fuera de carretera), aire acondicionado para buses y refrigeración móvil usando Mangueras, Ferrules y Acoples/racores Manuli sean fabricados según los siguientes procedimientos:



- 1** Check the dimensions of the components.
Verifique las dimensiones de los componentes.



- 4** Cut the hose by using a proper sharpened disc (see fig. 4), **do not use an abrasive disc**. The hose must be square and clean cut. Avoid cutting the hose not perpendicularly or cutting the hose causing damages on its wire braid (see fig. 2, 3) for a proper cutting hose operation. Clean the hose carefully from any cutting residue.

Corte la manguera usando el disco afilado apropiado (ver fig. 4). **No use un disco abrasivo**. La manguera debe estar cortada a escuadra y limpia. Asegúrese que el corte de la manguera sea perpendicular y evite que el corte de la manguera cause daños en sus alambres (ver fig. 2,3) para una operación apropiada de corte de la manguera. Limpie cuidadosamente la manguera de cualquier residuo de corte.



2



3



- 5** Place the ferrule on the flexible hose in such a way that the tooth comes contact with the end of the hose that has been cut.

Coloque el ferrul en la manguera flexible de tal manera que los dientes hagan contacto con la punta de la manguera que ha sido cortada.

ASSEMBLING INSTRUCTIONS - REFRISTAR PROCEDURE



6 Lubricate the end of the coupling joint with the same oil used in the air conditioning system.
Lubrique la punta del racor con el mismo aceite usado en el sistema de aire acondicionado.



7 Find the correct orientation and insert completely the fitting into the hose.
Encuentre la orientación correcta e inserte completamente el racor en la manguera.



8 Set up the crimping machine selecting the dieset that is closed to the dimension specified. Crimp to the specified diameter. Ensure the dies fully covers the ferrule length.
Acondicione la máquina crimpadora seleccionando el conjunto de dados que más se acerque a la dimensión especificada. Crimpe al diámetro especificado. Asegúrese que los dados cubran totalmente la longitud del ferrul.



9 Inspect the crimping dimension using a calibrated vernier. Check the diameter at the centre of the ferrule following the values on the table b.
Inspeccione la dimensión de crimpado usando un vernier calibrado. Verifique el diámetro en el centro del ferrul siguiendo los valores de la tabla b.

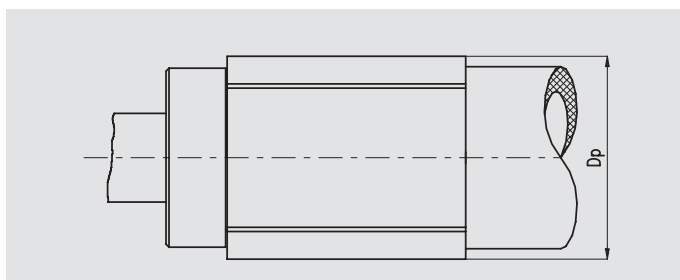


Table b / Tabla b

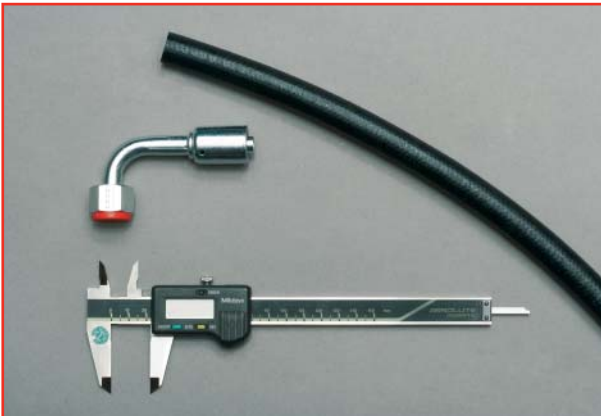
HOSE SIZE			Dp (± 0,1 mm)
DN	Dash	Inch	mm
5	- 04	3/16"	15,2
8	- 06	5/16"	20,2
10	- 08	13/32"	21,3
12	- 10	1/2"	26,0
16	- 12	5/8"	30,8
22	- 16	7/8"	34,4
28	- 20	1.1/8"	42,5

ASSEMBLING INSTRUCTIONS - REFRIFAST PROCEDURE

NEW

REFRIFAST WITH ONE-PIECE CRIMPED FITTINGS REFRIFAST CON RACOR PRENSADO EN UNA PIEZA

The fitting operations are extremely simple, and consist of the following procedures:
El montaje es extremadamente simple y consiste en los siguientes procedimientos:



- 1** Check the dimensions of the components.
Compruebe las dimensiones de los componentes.



- 2** Cut the end of the hose in a perpendicular direction, using the manual cutter.
Corte la manguera en dirección perpendicular, usando el cortador manual.

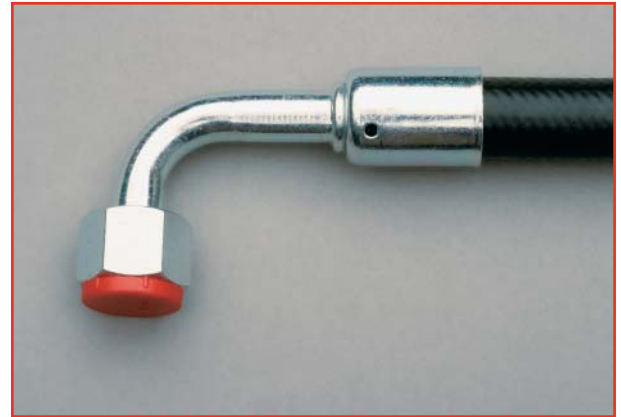


- 3** Verify the end of the hose to be cut in a perpendicular direction.
Verifique que la manguera ha sido cortada en dirección perpendicular.



- 4** Lubricate the end of the coupling joint with the same oil used in the air conditioning system.
Lubrique los extremos (mangueras y racores) con el mismo aceite usado en el sistema del aire acondicionado.

ASSEMBLING INSTRUCTIONS - REFRIFAST PROCEDURE



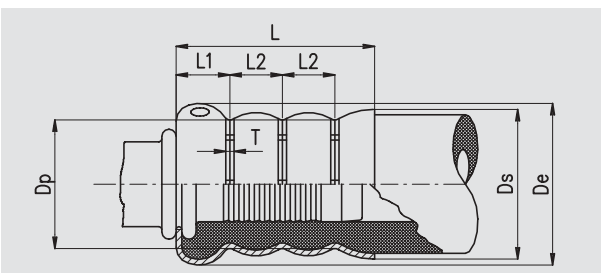
5 Find the correct orientation and insert completely the fitting into the hose.
 Compruebe la orientación correcta e inserte completamente el racor en la manguera.

6 Check the correct position of the hose through the proper hole in the ferrule.
 Compruebe la correcta posición de la manguera a través del orificio en el casquillo.



7 Set up the crimping machine selecting the die set that is closed to the dimension specified diameter. Place the fitting on the proper positioner to ensure that it is in the correct position (table c).
 Prepara la máquina seleccionando las mordazas adecuadas para prensar el diámetro especificado. Ponga el racor en la máquina y verifique que está en la posición correcta (tabla c).

8 Inspect the crimping dimension using the proper calibrated vernier. Check the dimensions following the values in table c.
 Inspeccione el diámetro de prensado usando el nonio el calibrado apropiado. Compruebe las dimensiones que siguiendo los valores en la tabla c.



HOSE SIZE			Dp ±0,2 mm	Ds ±0,5 mm	De 0/-1 mm	T ±0,1 mm	L ±0,5 mm	L1 0/±0,5 mm	L2 ±0,1 mm
DN	Dash	Inch	mm	mm	mm	mm	mm	mm	mm
8	- 06	5/16"	14,8	19,2	21,6	1,6	31,3	9,0	7,1
10	- 08	13/32"	16,3	20,6	21,9	1,6	30,5	9,0	7,1
13	- 10	1/2"	18,8	23,7	24,8	2,0	34,3	7,0	9,6
16	- 12	5/8"	21,1	26,0	26,7	2,0	34,9	7,0	9,6

Table c / Tabla c



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REFRIGERATION HOSES



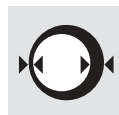
LEGEND OF SYMBOL



Inside Diameter (I.D.)
Diámetro interno (I.D.)



Outside Diameter (O.D.)
Diámetro externo (O.D.)



Max Wall Thickness Difference
Diferencia máxima de grosor de la pared



Working pressure
Presión de trabajo



Burst pressure
Presión de estallamiento



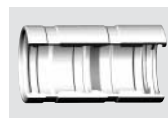
Weight
Peso



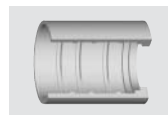
Minimum bend radius
Radio mínimo de curvatura



Refrimaster clamp
Abrazadera Refrimaster



Refrimaster ferrule
Ferrul Refrimaster



Crimp ferrule for Refristar
Ferrul para crimpar Refristar



Reusable ferrule for Refristar
Ferrul Reusable para Refristar



One piece fitting for Refrifast
Conexion en una pieza para Refrifast

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STANDARD PART. REF.	HOSE SIZE						
		I.D.	O.D.	WORKING PRESSURE	BURST PRESSURE	WEIGHT	MIN. BEND RADIUS

	DN	Dash	inch	mm	mm	bar	bar	g/m	mm
H090020080085	8	- 06	5/16"	8,0	12,7	35	> 250	90	40,0
H090020100085	10	- 08	13/32"	10,5	16,0	35	> 250	140	50,0
H090020130085	12	- 10	1/2"	13,0	18,1	35	> 150	160	80,0
H090020160085	16	- 12	5/8"	16,0	21,7	35	> 150	200	90,0

KEY PERFORMANCE CARACTERISTICAS ESPECIALES

Universal hose, compatible with the most common refrigerants and compressor lubricants • Low permeability to refrigerant fluid • Compact dimensions • Low weight and high flexibility • Low noise transmission • Field attachable and crimped solutions available with Frigoclic[®] insert

Manguera universal, compatible con los mas comunes refrigerantes y lubricantes para compresores • Baja permeabilidad al fluido refrigerante • Dimensiones compactas • Bajo peso, alta flexibilidad • Baja transmisión de ruido • Gama de racores integrados con inserto Frigoclic[®] estandarizado

SPECIFICATIONS: SAE J2064 Type E Class 1

MAIN APPLICATIONS: mobile refrigeration and air conditioning systems: bus, off highway equipment

CONSTRUCTION:

TUBE: high temperature resistant thermoplastic (PA) veneer

REINFORCEMENT: one textile braid

COVER: high temperature and environmental resistant synthetic rubber (EPDM)

REFRIGERANTS: compatibility with a wide range of refrigerants (eg. R134a, R404A, R407C)

LUBRICANTS: compatibility with the most common compressor lubricants (e.g. PAG, POE, Mineral Oils)

CONTINUOUS WORKING TEMPERATURE:

-40°C / +125°C -40°F / +257°F

MAX. PEAK TEMPERATURE: +140°C +284°F

ESPECIFICACIONES: SAE J2064 Tipo E Clase 1

PRINCIPALES APLICACIONES: refrigeración móvil y sistemas de aire acondicionado en: bus, equipo fuera de carretera

CONSTRUCCION:

TUBO: termoplástico resistente a las altas temperaturas (PA)

REFUERZO: una trenza textil

CUBIERTA: caucho sintético resistente a las altas temperaturas y al ambiente (EPDM)

REFRIGERANTES: compatibilidad con un amplio rango de refrigerantes (ej. R134a, R404A, R407C)

LUBRICANTES: compatibilidad con los lubricantes de compresores más comunes (ej. PAG, POE, Aceites Minerales)

TEMPERATURA DE TRABAJO CONTINUO:

-40°C / +125°C -40°F / +257°F

PICO MAXIMO DE TEMPERATURA: +140°C +284°F

HOSE SIZE			REFRIMASTER FERRULE	REFRIMASTER CLAMP
DN	DASH	INCH	CODE	CODE
8	- 06	5/16"	C00700-06	C01000-06
10	- 08	13/32"	C00700-08	C01000-08
12	- 10	1/2"	C00700-10	C01000-10
16	- 12	5/8"	C00700-12	C01000-12

Fittings compatible with Refrimaster Racores compatibles con Refrimaster

FRIGOCLIC[®] guarantee of sealing / garantía de sellado



**ONE insert
UN SOLO inserto**

*field attachable clamp
abrazadera instalable en campo*

*crimped ferrule
ferrul para crimpado*



**TWO coupling solutions for any applications
DOS soluciones de acoplado acorde a requerimientos**

Standard Packaging: wrapped coil

For information about alternative carton reel packagings, please visit Manuli web site or contact Manuli Sales Representatives.

Embalaje estándar: rollo envuelto

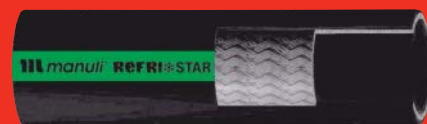
Para información sobre la alternativa de bobina de cartón, por favor visite la web de Manuli o contacte con el Representante Manuli.

NOTE: Guaranteed performance only with our fittings.

Comportamiento garantizado solamente con nuestras conexiones.

WARNING: Ask MRI about other refrigerants and lubricants

PRECAUCION: Pregunte a MRI acerca de otros refrigerantes y lubricantes



SAE J2064 TYPE B

STANDARD PART. REF.	HOSE SIZE						
		I.D.	O.D.	WORKING PRESSURE	BURST PRESSURE	WEIGHT	MIN. BEND RADIUS

	DN	Dash	inch	mm	mm	bar	bar	g/m	mm
H0110005M900	5	- 04	3/16"	4,8	13,0	35	> 150	210	85,0
H0110008M900	8	- 06	5/16"	8,0	17,2	35	> 150	320	85,0
H0110010M900	10	- 08	13/32"	10,5	19,3	35	> 150	370	95,0
H0110012M900	12	- 10	1/2"	12,7	23,4	35	> 150	530	115,0
H0110016M900	16	- 12	5/8"	16,0	27,3	35	> 150	675	135,0
H0110022M900	22	- 16	7/8"	22,0	31,2	35	> 150	705	155,0
H0110028M900	28	- 20	1.1/8"	28,0	38,0	35	> 150	930	190,0
H0110035M900	35	- 24	1.3/8"	35,0	45,0	35	> 150	980	230,0

KEY PERFORMANCE CARACTERISTICAS ESPECIALES

Low permeability • High flexibility • Compatible with the most common refrigerant and compressor lubricants

Baja permeabilidad • Alta flexibilidad • Compatible con los ms comunes refrigerantes y lubricantes para compresor

SPECIFICATIONS: SAE J2064 Type B Class 1

MAIN APPLICATIONS: bus and off equipments air conditioning systems

CONSTRUCTION:

TUBE: low permeability to the refrigerant fluid and wide compatibility with the most common compressor lubricant (IIR)

REINFORCEMENT: one steel wire braid

COVER: high temperature and environmental resistant syntetic rubber (CSM)

REFRIGERANTS: compatibility with a wide range of refrigerants (eg. R134a, R404A, R407C)

LUBRICANTS: compatibility with the most common compressor lubricants (e.g. PAG, POE, Mineral Oils)

CONTINUOUS WORKING TEMPERATURE:

-40°C / +125°C -40°F / +257°F

ESPECIFICACIONES: SAE J2064 Tipo B Clase 1

PRINCIPALES APLICACIONES: sistemas de aire acondicionado en buses y equipo fuera de carretera

CONSTRUCCION:

TUBO: Baja permeabilidad al fluido refrigerante y amplia compatibilidad con los ms comunes lubricantes para compresor (IIR)

FEFUERZO: una trenza de acero

CUBIERTA: caucho sintético resistente a las altas temperaturas y al ambiente (CSM)

REFRIGERANTES: compatibilidad con una amplia gama de refrigerantes (ej. R134a, R404A, R407C)

LUBRICANTES: compatibilidad con los lubricantes de compresores más comunes (ej. PAG, POE, Aceites Minerales)

TEMPERATURA DE TRABAJO CONTINUO:

-40°C / +125°C -40°F / +257°F

HOSE SIZE			STAR-FIT FERRULE (Reusable solution)	STAR-CRIMP FERRULE (Crimped solution)
DN	DASH	INCH	CODE	CODE
5	- 04	3/16"	K00400-04	C00300-04
8	- 06	5/16"	K00400-06	C00300-06
10	- 08	13/32"	K00400-08	C00300-08
12	- 10	1/2"	K00400-10	C00300-10
16	- 12	5/8"	K00400-12	C00300-12
22	- 16	7/8"	K00400-16	C00300-16
28	- 20	1.1/8"	K00400-20	C00300-20
35	- 24	1.3/8"	K00400-24	

WARNING: Ask MRI about other refrigerants and lubricants

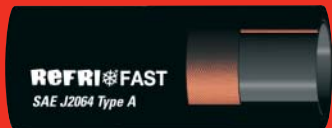
PRECAUCION: Pregunte a MRI acerca de otros refrigerantes y lubricantes

Standard Packaging: wrapped coil

Embalaje estándar: rolo envuelto

NOTE: Guaranteed performance only with our fittings.

Comportamiento garantizado solamente con nuestras conexiones.



STANDARD PART. REF.	HOSE SIZE						
		I.D.	O.D.	WORKING PRESSURE	BURST PRESSURE	WEIGHT	MIN. BEND RADIUS

	DN	Dash	inch	mm	mm	bar	bar	g/m	mm
H09068008IB99	8	6	5/16"	8,2	15,5	35	>150	165	30
H09068010IB99	10	8	13/32"	10,5	18,0	35	>150	200	50
H09068012IB99	13	10	1/2"	12,7	20,0	35	>150	250	60
H09068016IB99	16	12	5/8"	16	23,5	35	>150	290	80

KEY PERFORMANCE CARACTERISTICAS ESPECIALES

Higher compact dimensions within type A hoses and outside diameter comparable with reduced barrier hoses • Easy installation in space constraints • High flexibility and low bend radius • Compatible with a wide range of refrigerants and lubricants • Low refrigerants permeability and moisture ingress

Superior dimensión compacta en la manguera tipo A y diámetro exterior comparable con las mangueras compactas "barrier" • Fácil instalación en espacios reducidos • Alta flexibilidad y radio de curvatura • Compatible con una gama amplia de refrigerantes y lubricantes • Baja permeabilidad al refrigerante y al incremento de humedad

Specifications: SAE J2064 Type A Class 1

MAIN APPLICATIONS: off-highway vehicles, small/medium busses and special vehicles such as recreation vehicles, ambulances and military vehicles.

CONSTRUCTION:

TUBE: low refrigerant fluid permeability and wide compatibility with the most common compressor lubricant (IIR)

REINFORCEMENT: one textile braid

COVER: high temperature (max 125°C) and environmental (ozone resistance) resistant synthetic rubber (EPDM)

REFRIGERANTS: compatibility with a wide range of refrigerants, such as R134a, 404A, 407C

LUBRICANTS: compatibility with the most common compressor lubricants, such as PAG, POE and mineral oils

CONTINUOUS WORKING TEMPERATURE

-40°C / +125°C • -40°F / +257°F

ESPECIFICACIONES: SAE J2064 Tipo A Clase 1

APLICACIONES PRINCIPALES: vehículos en carretera, vehículos de recreación y especiales como ambulancias, buses, vehículos del ejército.

CONSTRUCCIÓN:

TUBO: Baja permeabilidad al refrigerante y compatible con el lubricante más común del compresor (IIR)

REFUERZO: una trenza textil

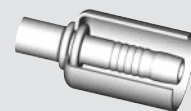
CUBIERTA: alta temperatura (max 125°C) y medioambiental (resistente al ozono). Caucho sintético resistente (EPDM)

REFRIGERANTE: compatible con una gama amplia de refrigerantes, como R134a, 404A, 407C,

LUBRICANTES: compatibilidad con el lubricante más común del compresor, como PAG, POE y aceites minerales.

TEMPERATURA DE TRABAJO CONTINUO:

-40°C / +125°C • -40°F / +257°F



HOSE SIZE			FERRULE EXTERNAL DIAMETER
DN	DASH	INCH	mm
8	- 06	5/16"	22,0
10	- 08	13/32"	22,0
12	- 10	1/2"	25,8
16	- 12	5/8"	28,4

WARNING: Ask MRI about other refrigerants and lubricants

PRECAUCION: Pregunte a MRI acerca de otros refrigerantes y lubricantes

Standard Packaging: carton reel

Embalaje estándar: bobina de cartón

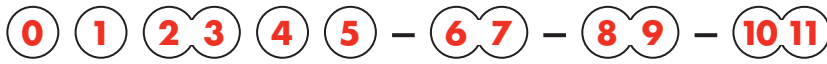
NOTE: Guaranteed performance only with our fittings.

Comportamiento garantizado solamente con nuestras conexiones.

FITTINGS - PART NUMBERING SYSTEM

TWO PIECES (CRIMPED AND CLAMP SOLUTIONS) & "HOSE TO HOSE" A/C AND REFRI CONNECTORS

DOS PIEZAS (SOLUCION DE CRIMPADO Y ABRAZADERA) Y CONECTORES REFRI PARA AIRE ACONDICIONADO Y REFRIGERACIÓN "MANGUERA A MANGUERA"



First tail size (insert)
Tamaño de primera terminación (inserto)

Termination end size or metric thread in mm / Second tail size
Tamaño de terminación de rosca métrico en mm / Tamaño de segunda terminación

Third tail size (only for 3-ways hose to hose connectors)

Tamaño de tercera terminación (solo para manguera de 3 vías a conectores de manguera)

DIGIT "0"

C Always / Siempre



DIGIT "1"

- 1 Male or "Hose to hose" Connectors type Star-crimp / Conectores macho o "Manguera a Manguera" tipo Star-crimp
- 2 Female or Flange type Star-crimp / Hembra o flange tipo Star-crimp
- 3 Male or "Hose to hose" Connectors type Frigoclic® / Conectores macho o "Manguera a Manguera" tipo Frigoclic®
- 4 Female or Flange type Frigoclic® / Hembra o flange tipo Frigoclic®



DIGIT "2-3"

The numbers stated in these positions refer to the termination end or to the second tail.

For the coding, see table "Termination Ends Type".

Los números establecidos en estas posiciones se refieren a la terminación final o a la segunda terminación. Para codificación, ver tabla "Tipo de Terminación Final".



DIGIT "4"

- 1 Straight / Recto
- 2 22,5° Swept / Curvado a 22,5°
- 3 30° Swept / Curvado a 30°
- 4 45° Swept / Curvado a 45°
- 6 60° Swept / Curvado a 60°
- 7 67,5° Swept / Curvado a 67,5°
- 8 Compact type / Tipo compacto
- 9 90° Swept / Curvado a 90°

H 3-ways connector with "h" configuration / Conector de 3 vías con configuración "h"

T 3-ways connector with "T" configuration / Conector de 3 vías con configuración "T"

Y 3-ways connector with "Y" configuration / Conector de 3 vías con configuración "Y"

S Pipe with more than one bend / Tubo con más de una curva



DIGIT "5"

- 0 No charge valve / Ninguna válvula de carga
- 2 1/4" SAE charge valve (thread 7/16"-20-UNF) / 1/4" SAE válvula de carga (cuerda 7/16"-20-UNF)
- 5 High Pressure charge valve / Válvula de carga de alta presión
- 6 Low Pressure charge valve / Válvula de carga de baja presión



FITTINGS - PART NUMBERING SYSTEM

PRIORITY OF THE TAILS FOR "HOSE TO HOSE" CONNECTORS

PRIORIDAD DE LAS TERMINALES PARA CONECTORES "MANGUERA A MANGUERA"

Double connectors

One tail takes priority respect to the other tail (different family) following this order:

- ONE PIECE tail → refer to ONE PIECE CODING
- REUSABLE tail → refer to REUSABLE CODING
- FRIGOCLIC® tail → refer to TWO PIECES CODING
- STAR-CRIMP tail → refer to TWO PIECES CODING

Conectores dobles

Un terminal tiene prioridad respecto al otro (familia diferente) siguiendo este orden:

- Terminal ONE PIECE → se refiere a CODIFICACION UNA PIEZA
- Terminal REUSABLE → se refiere a CODIFICACION REUSABLE
- Terminal FRIGOCLIC® → se refiere a CODIFICACION DE DOS PIEZAS
- Terminal STAR-CRIMP → se refiere a CODIFICACION DE DOS PIEZAS

RULES FOR THE SIZE INDICATION IN THE HOSE TO HOSE CONNECTORS

REGLAS PARA LA INDICACIÓN DEL TAMAÑO EN LOS CONECTORES MANGUERA A MANGUERA

In the double connectors, when the tails are part of the same family, the first size is the smallest. If the tails have the same size, this is repeated two times.

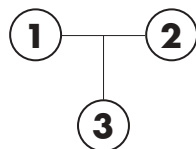
In the double connectors, when the tails are part of different families, the size sequence is the same of the tails sequence (the first size indicates the first tail, the second size indicates the second tail).

In the 3-ways connectors, tails in position "1" and "2" must be part of the same family. All the sizes are indicated following this order:

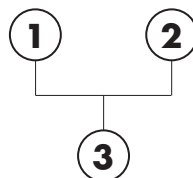
En los conectores dobles, cuando los terminales son parte de la misma familia, el primer tamaño es el más pequeño. Si las terminales tienen el mismo tamaño, esto se repite dos veces.

En los conectores dobles, cuando las terminales son parte de familias diferentes, la secuencia de tamaño es la misma de la secuencia de las terminales (el primer tamaño indica la primera Terminal, el Segundo tamaño indica la segunda terminal).

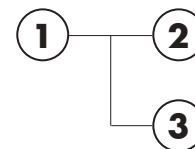
En los conectores de 3 vías, las terminales en la posición "1" y "2" deben ser parte de la misma familia. Todos los tamaños están indicados siguiendo este orden:



"T"
configuration
configuración



"Y"
configuration
configuración



"h"
configuration
configuración

CONNECTORS SUPPLIED WITH FERRULE OR CLAMP

CONECTORES SUMINISTRADOS CON FERRUL O ABRAZADERA



Connector supplied with ferrule or clamp
Conector suministrados con ferrul o abrazadera

For connectors supplied with ferrule or clamp, the second dash is replaced by a letter referring to the type of ferrule or clamp:

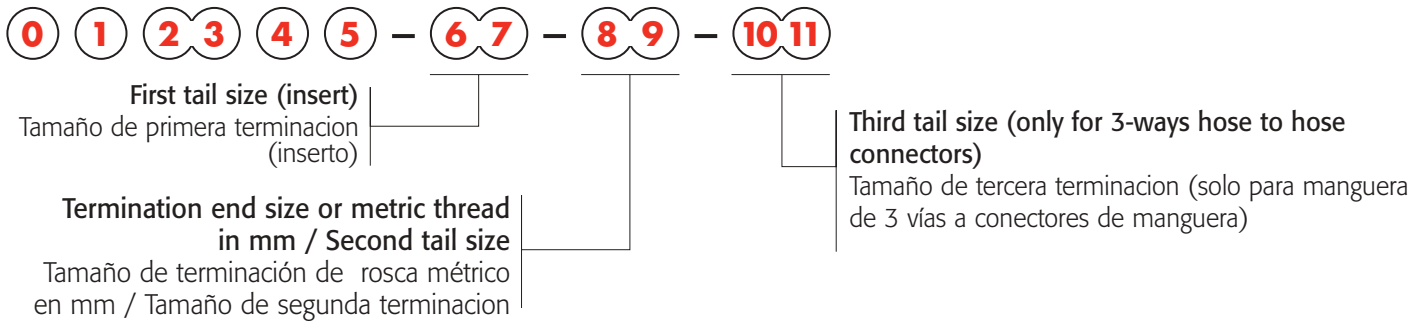
Para conectores suministrados con ferrul o abrazadera, el segundo numero guión es reemplazado por una letra para referirse al tipo de ferrul o abrazadera:

- A** Ferrule type C00700 / Ferrul tipo C00700
- C** Ferrule type C00300 / Ferrul tipo C00300
- R** Clamp type C01000 / Abrazadera tipo C01000

FITTINGS - PART NUMBERING SYSTEM

REUSABLE & "HOSE TO HOSE" CONNECTORS

CONECTORES REUSABLES Y "MANGUERA A MANGUERA"



DIGIT "0"

K Always / Siempre



DIGIT "1"

- 3 Male or "Hose to hose" Connectors (A/C and REFRI application)
Conectores macho o "Manguera a Manguera" (aplicación REFRI y aire acondicionado)
- 4 Female or Flange (A/C and REFRI application) / Hembra o flange (aplicación REFRI y aire acondicionado)



DIGIT "2-3"

The numbers stated in these positions refer to the termination end or to the second tail.

For the coding, see table "Termination Ends Type".

Los números establecidos en estas posiciones se refieren a la terminación final o a la segunda terminacion. Para codificación, ver tabla "Tipo de Terminación Final".



DIGIT "4"

- 1 Straight / Recto
- 2 22,5° Swept / Curvado a 22,5°
- 3 30° Swept / Curvado a 30°
- 4 45° Swept / Curvado a 45°
- 6 60° Swept / Curvado a 60°
- 7 67,5° Swept / Curvado a 67,5°
- 8 Compact type / Tipo compacto
- 9 90° Swept / Curvado a 90°
- H 3-ways connector with "h" configuration / Conector de 3 vías con configuración "h"
- T 3-ways connector with "T" configuration / Conector de 3 vías con configuración "T"
- Y 3-ways connector with "Y" configuration / Conector de 3 vías con configuración "Y"
- S Pipe with more than one bend / Tubo con más de una curvatura



DIGIT "5"

- 0 No charge valve / Ninguna válvula de carga
- 2 1/4" SAE charge valve (thread 7/16"-20-UNF) / 1/4" SAE válvula de carga (cuerda 7/16"-20-UNF)
- 5 High Pressure charge valve / Válvula de carga de alta presión
- 6 Low Pressure charge valve / Válvula de carga de baja presión



FITTINGS - PART NUMBERING SYSTEM

PRIORITY OF THE TAILS FOR "HOSE TO HOSE" CONNECTORS (A/C AND REFRI APPLICATION) PRIORIDAD DE LOS TERMINALES DE LOS CONECTORES "MANGUERA A MANGUERA" (APLICACIÓN PARA AIRE ACONDICIONADO Y REFRIGERACIÓN)

Double connectors

One tail takes priority respect to the other tail (different family) following this order:

- ONE PIECE tail → refer to ONE PIECE CODING
- REUSABLE tail → refer to REUSABLE CODING
- FRIGOCLIC® tail → refer to TWO PIECES CODING
- STAR-CRIMP tail → refer to TWO PIECES CODING

Conectores dobles

Un terminal tiene prioridad respecto al otro (familia diferente) siguiendo este orden:

- Terminal ONE PIECE → se refiere a CODIFICACION UNA PIEZA
- Terminal REUSABLE → se refiere a CODIFICACION REUSABLE
- Terminal FRIGOCLIC® → se refiere a CODIFICACION DE DOS PIEZAS
- Terminal STAR-CRIMP → se refiere a CODIFICACION DE DOS PIEZAS

RULES FOR THE SIZE INDICATION IN THE HOSE TO HOSE CONNECTORS REGLAS PARA LA INDICACIÓN DEL TAMAÑO EN LOS CONECTORES MANGUERA A MANGUERA

In the double connectors, when the tails are part of the same family, the first size is the smallest. If the tails have the same size, this is repeated two times.

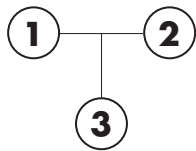
In the double connectors, when the tails are part of different families, the size sequence is the same of the tails sequence (the first size indicates the first tail, the second size indicates the second tail).

In the 3-ways connectors, tails in position "1" and "2" must be part of the same family. All the sizes are indicated following this order:

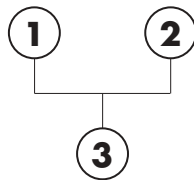
En los conectores dobles, cuando los terminales son parte de la misma familia, el primer tamaño es el más pequeño. Si las terminales tienen el mismo tamaño, esto se repite dos veces.

En los conectores dobles, cuando las terminales son parte de familias diferentes, la secuencia de tamaño es la misma de la secuencia de las terminales (el primer tamaño indica la primera Terminal, el Segundo tamaño indica la segunda terminal).

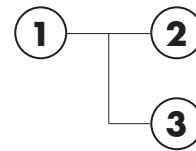
En los conectores de 3 vías, las terminales en la posición "1" y "2" deben ser parte de la misma familia. Todos los tamaños están indicados siguiendo este orden:



"T"
configuration
configuración



"Y"
configuration
configuración



"h"
configuration
configuración

CONNECTORS SUPPLIED WITH FERRULE (A/C AND REFRI APPLICATION) CONECTORES SUMINISTRADOS CON FERRUL (APLICACIÓN PARA A/C Y REFRI)



Connector supplied with ferrule
 Conector suministrados con ferrul

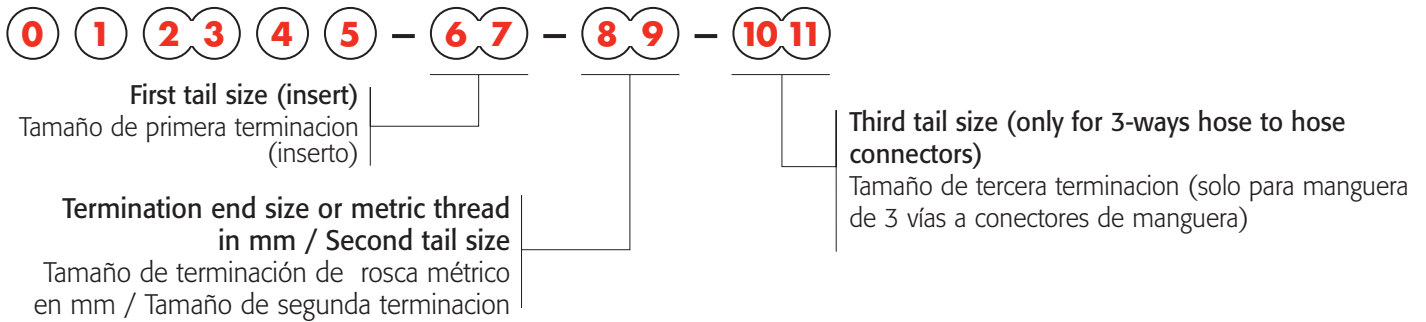
For connectors supplied with ferrule, the second dash is replaced by a letter referring to the type of ferrule or clamp:
 Para conectores suministrados con ferrul, el segundo numero guión es reemplazado por una letra para referirse al tipo de ferrul o abrazadera:

B Ferrule type K00400 / Ferrul tipo K00400

FITTINGS - PART NUMBERING SYSTEM

ONE PIECE & "HOSE TO HOSE" A/C AND REFRI CONNECTORS

UNA PIEZA Y "MANGUERA A MANGUERA" A/C Y REFRI CONECTORS



DIGIT "0"

OPC Always / Siempre



DIGIT "1"

- 1 Male or "Hose to hose" Connectors / Conectores macho o "Manguera a Manguera"
- 2 Female or Flange / Hembra o flange



DIGIT "2-3"

The numbers stated in these positions refer to the termination end or to the second tail.
 For the coding, see table "Termination Ends Type".

Los números establecidos en estas posiciones se refieren a la terminación final o a la segunda terminacion. Para codificación, ver tabla "Tipo de Terminación Final".



DIGIT "4"

- 1 Straight / Recto
- 2 22,5° Swept / Curvado a 22,5°
- 3 30° Swept / Curvado a 30°
- 4 45° Swept / Curvado a 45°
- 6 60° Swept / Curvado a 60°
- 7 67,5° Swept / Curvado a 67,5°
- 8 Compact type / Tipo compacto
- 9 90° Swept / Curvado a 90°
- H 3-ways connector with "h" configuration / Conector de 3 vías con configuración "h"
- T 3-ways connector with "T" configuration / Conector de 3 vías con configuración "T"
- Y 3-ways connector with "Y" configuration / Conector de 3 vías con configuración "Y"
- S Pipe with more than one bend / Tubo con más de una curvatura



DIGIT "5"

- 0 No charge valve / Ninguna válvula de carga
- 2 1/4" SAE charge valve (thread 7/16"-20-UNF) / 1/4" SAE válvula de carga (cuerda 7/16"-20-UNF)
- 5 High Pressure charge valve / Válvula de carga de alta presión
- 6 Low Pressure charge valve / Válvula de carga de baja presión



PRIORITY OF THE TAILS FOR "HOSE TO HOSE" CONNECTORS

PRIORIDAD DE LOS TERMINALES DE LOS CONECTORES "MANGUERA A MANGUERA"

Double connectors

One tail takes priority respect to the other tail (different family) following this order:

- ONE PIECE tail → refer to ONE PIECE CODING
- REUSABLE tail → refer to REUSABLE CODING
- FRIGOCLIC® tail → refer to TWO PIECES CODING
- STAR-CRIMP tail → refer to TWO PIECES CODING

Conectores dobles

Un terminal tiene prioridad respecto al otro (familia diferente) siguiendo este orden:

- Terminal ONE PIECE → se refiere a CODIFICACION UNA PIEZA
- Terminal REUSABLE → se refiere a CODIFICACION REUSABLE
- Terminal FRIGOCLIC® → se refiere a CODIFICACION DE DOS PIEZAS
- Terminal STAR-CRIMP → se refiere a CODIFICACION DE DOS PIEZAS

3-ways connectors

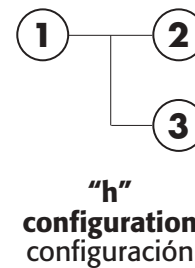
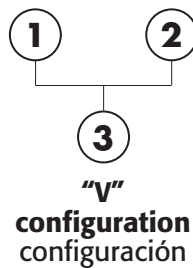
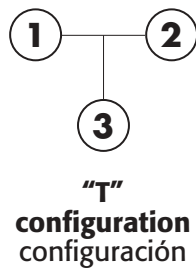
Two tails must be always part of the same family. The first tail refers to the family with two tails.

RULES FOR THE SIZE INDICATION IN THE HOSE TO HOSE CONNECTORS

REGLAS PARA LA INDICACIÓN DEL TAMAÑO EN LOS CONECTORES MANGUERA A MANGUERA

In the double connectors, when the tails are part of the same family, the first size is the smallest. If the tails have the same size, this is repeated two times. In the double connectors, when the tails are part of different families, the size sequence is the same of the tails sequence (the first size indicates the first tail, the second size indicates the second tail). In the 3-ways connectors, tails in position "1" and "2" must be part of the same family. All the sizes are indicated following this order:

En los conectores dobles, cuando los terminales son parte de la misma familia, el primer tamaño es el más pequeño. Si las terminales tienen el mismo tamaño, esto se repite dos veces. En los conectores dobles, cuando las terminales son parte de familias diferentes, la secuencia de tamaño es la misma de la secuencia de las terminales (el primer tamaño indica la primera Terminal, el Segundo tamaño indica la segunda terminal). En los conectores de 3 vías, las terminales en la posición "1" y "2" deben ser parte de la misma familia. Todos los tamaños están indicados siguiendo este orden:



HOSE TO HOSE CONNECTORS (DIFFERENT FAMILIES) WITH FERRULE OR CLAMP

MANGUERA A MANGUERA CONECTORES (DIFERENTES FAMILIAS) CON FERRUL O ABRAZADERA



Connector supplied with ferrule or clamp
Conector suministrados con ferrul o abrazadera

For hose to hose connectors, having at least one tail (different from one-piece tail) supplied with ferrule or clamp, the second dash is replaced by a letter referring to the type of ferrule or clamp:

- A Ferrule type C00700 / Ferrul tipo C00700
- B Ferrule type K00400 / Ferrul tipo K00400
- C Ferrule type C00300 / Ferrul tipo C00300
- R Clamp type C01000 / Abrazadera tipo C01000

FITTINGS - PART NUMBERING SYSTEM

TERMINATION ENDS TYPE

DIGIT	DESCRIPTION / DESCRIPCIÓN
00	Double connector (same tail in two-ends connectors) / No end (plug) Conector doble (mismo terminal en los conectores de dos puntas) / No final (tapón)
10	Metric Thread (60° cone superlight) Rosca métrico (asiento a 60° cono super ligero)
11	Male Metric Thread (24° cone light type) Rosca métrico macho (asiento a 24° super ligero)
15	Female Metric Thread (24° cone O-ring light type) Rosca métrico hembra (asiento a 24° tipo O-ring ligero)
24	ORFS type Tipo ORFS
25	JIC Thread (37° cone) Rosca JIC (asiento a 37°)
26	SAE Thread (45° cone) Rosca SAE (asiento a 45°)
27	JIC Thread double exag. 37° cone / ORFS type Bulkhead Rosca JIC doble hexágono 37° / tipo ORFS con manparó
37	Flange (A/C and Refri application) Flange (aplicación en aire acondicionado y refrigeración)
76	Expansion valve (A/C and Refri application) Válvula de expansión (aplicación en aire acondicionado y refrigeración)
79	Female O-ring and Fixed male O-ring seat (A/C and Refri application) O-ring hembra y asiento fijo O-ring macho (aplicación en aire acondicionado y refrigeración)
80	Male Swivel O-ring (A/C and Refri application) Macho giratorio con O-ring (aplicación en aire acondicionado y refrigeración)

"HOSE TO HOSE" CONNECTORS / CONECTORES "MANGUERA A MANGUERA"

C1	"STAR-CRIMP" tail (A/C and Refri application) Terminal STAR-CRIP (aplicación en aire acondicionado y refrigeración)
C3	"FRIGOCLIC®" tail (A/C and Refri application) Terminal FRIGOCLIC® (aplicación en aire acondicionado y refrigeración)
K3	"REUSABLE" tail (A/C and Refri application) Terminal REUSABLE (aplicación en aire acondicionado y refrigeración)

FITTINGS - PART NUMBERING SYSTEM – SPECIAL SUFFIX

The special suffix allows the identification of special features not included in the standard coding and must be placed at the end of the code.

El sufijo especial permite la identificación de aditamentos especiales no incluidos en la codificación estándar y debe estar colocado al final del código.

SPECIAL SUFFIX SUFIJO ESPECIAL

- O O O** DROP OF THE ELBOW (in mm)
LONGITUD DEL CODO (en mm)
- S C** SOLID CONE (for special termination ends generally supplied with O-ring)
ASIEN TO SOLIDO (para terminal especial generalmente suministrado con O-ring)
- Q** SPECIAL QUADRING GASKET (only refrigeration)

SIZE DETERMINATION

DETERMINACIÓN DEL TAMAÑO

The first two digits identify the connection size, the second two digits identify the flexible hose size.

Los primeros dos dígitos identifican el tamaño de la conexión, los segundos dos dígitos identifican el tamaño de la manguera flexible.

CONNECTION SIZE TAMAÑO DE LA CONEXION

DASH	SAE	SAE 45° FLARE FITTING THREAD	JIC 37° FLARE FITTING THREAD	FEMALE O'RING AND MALE O'RING SEAT FITTING THREAD	MALE O'RING FITTING THREAD	O'RING METRIC FITTING THREAD	ORS FACE SEAL FITTING	DIN 3901/3902 FITTING THREAD
- 04	1/4"	7/16"-20-UNF	7/16"-20-UNF	-	-	-	9/16"-18-UNF	-
- 06	3/8"	5/8"-18-UNF	9/16"-18-UNF	5/8"-18-UNF	5/8"-18-UNF	-	11/16"-16-UN	-
- 08	1/2"	3/4"-16-UNF	3/4"-16-UNF	3/4"-16-UNF	3/4"-18-UNS	M20x1.5	13/16"-16-UN	-
- 10	5/8"	7/8"-14-UNF	7/8"-14-UNF	7/8"-14-UNF	7/8"-18-UNS	M24x1.5	1"-14-UNS	M22x1.5
- 11	-	-	-	1"-14-UNS	-	-	-	-
- 12	3/4"	1.1/16"-14-UNS	1.1/16"-12-UNF	1.1/16"-14-UNS	1.1/16"-16-UN	M27x2	1.1/16"-14-UN	M26x1.5
- 16	1"	1.5/16"-14-UNF	1.5/16"-12-UNF	1.5/16"-14-UNF	-	-	1.7/16"-12-UN	M30x2
- 18	-	-	-	-	-	-	-	M36x2
- 20	1.1/4"	-	1.5/8"-12-UN	-	-	-	1.11/16"-12-UN	-
- 22	-	-	-	-	-	-	-	M45x2
- 24	1.1/2"	-	1.7/8"-12-UN	-	-	-	-	-

NOTE: The size for expansion valve fittings and for SDB compressor fittings is replaced by the bulge diameter: 14 and 23 for expansion valve; 26 and 30 for SDB compressor.

NOTA: El tamaño para los racores para válvula de expansion y para compresores SDB están reemplazados por el diámetro entrante: 14 y 23 para válvula de expansión, 26 y 30 para compresor SDB.

FLEXIBLE HOSE SIZE / TAMAÑO MANGUERA FLEXIBLE

HOSE SIZE			SAE
DN	DASH	INCH	
5	- 04	3/16"	1/4"
8	- 06	5/16"	3/8"
10	- 08	13/32"	1/2"
(12) 13	- 10	1/2"	5/8"
16	- 12	5/8"	3/4"
22	- 16	7/8"	1"
28	- 20	1.1/8"	1.1/4"
35	- 24	1.3/8"	1.1/2"



ON REQUEST

fittings for special applications can be manufactured (codesign with the customer will be very appreciate)

A SOLICITUD

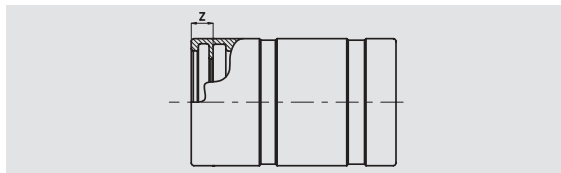
Racores para aplicaciones especiales pueden ser fabricados (el co-diseño con el cliente será muy apreciado)



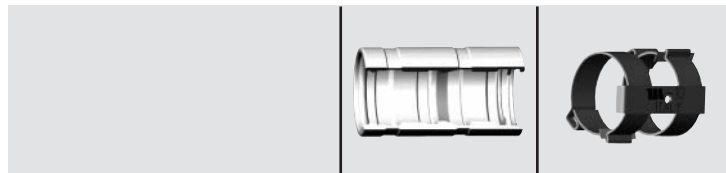


SAE J2064 TYPE E

FRIGOCLIC® WITH FERRULE CUT-OFF DIMENSION

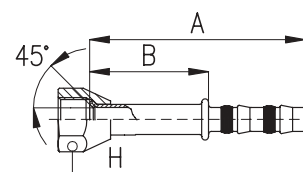


HOSE SIZE			DIMENSIONS mm
DN	DASH	Inch	Z
8	- 06	5/16"	9,0±0,1
10	- 08	13/32"	10,0±0,1
12	- 10	1/2"	12,5±0,1
16	- 12	5/8"	11,5±0,1

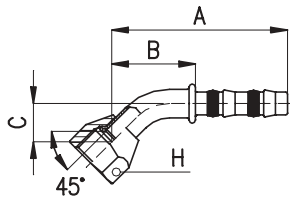


HOSE SIZE			REFRIMASTER FERRULE	REFRIMASTER CLAMP
DN	DASH	Inch	CODE	CODE
8	- 06	5/16"	C00700-06	C01000-06
10	- 08	13/32"	C00700-08	C01000-08
12	- 10	1/2"	C00700-10	C01000-10
16	- 12	5/8"	C00700-12	C01000-12

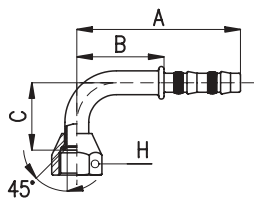
45° SAE STRAIGHT FEMALE HEMBRA 45° SAE RECTO



INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5		H
C42610-06-04	8	- 06	5/16"	7/16"-20-UNF-2B	78,5	39,9		14
C42610-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	77,8	39,2		19
C42610-08-06	10	- 08	13/32"	5/8"-18-UNF-2B	78,0	39,4		19
C42610-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	86,1	47,5		22
C42610-10-08	12	- 10	1/2"	3/4"-16-UNF-2B	84,0	45,4		22
C42610-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	86,3	47,7		27
C42610-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	87,0	48,4		27

SAE J2064 TYPE E

45° SAE FEMALE - 45° ELBOW
HEMBRA RECTA SAE 45°

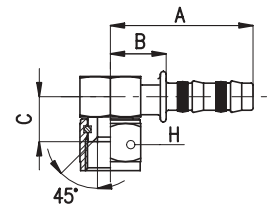
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C42640-06-04	8	-06	5/16"	7/16"-20-UNF-2B	82,5	43,9	18,0	14
C42640-06-06	8	-06	5/16"	5/8"-18-UNF-2B	83,6	45,0	14,0	19
C42640-08-08	10	-08	13/32"	3/4"-16-UNF-2B	91,3	52,7	16,0	22
C42640-10-10	12	-10	1/2"	7/8"-14-UNF-2B	102,3	63,7	16,0	27
C42640-12-10	16	-12	5/8"	7/8"-14-UNF-2B	100,5	61,9	16,0	27
C42640-12-12	16	-12	5/8"	1.1/16"-14-UNS-2B	90,5	51,9	26,5	32


45° SAE FEMALE - 90° ELBOW
HEMBRA 45° SAE - CODO 90°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C42690-06-04	8	-06	5/16"	7/16"-20-UNF-2B	70,5	31,9	33,0	14
C42690-06-06	8	-06	5/16"	5/8"-18-UNF-2B	81,8	43,2	26,0	19
C42690-08-06	10	-08	13/32"	5/8"-18-UNF-2B	77,0	38,4	26,0	19
C42690-08-08	10	-08	13/32"	3/4"-16-UNF-2B	82,7	44,1	34,0	22
C42690-10-08	12	-10	1/2"	3/4"-16-UNF-2B	86,0	47,4	34,0	22
C42690-10-10	12	-10	1/2"	7/8"-14-UNF-2B	103,1	64,5	37,0	27
C42690-12-10	16	-12	5/8"	7/8"-14-UNF-2B	99,0	60,4	37,0	27
C42690-12-12	16	-12	5/8"	1.1/16"-14-UNS-2B	80,0	41,4	53,0	32

SAE J2064 TYPE E

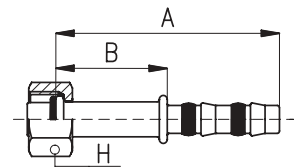
SHORT VERSION 45° SAE FEMALE - 90° ELBOW HEMBRA 45° SAE TIPO CORTO - CODO 90°



INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H

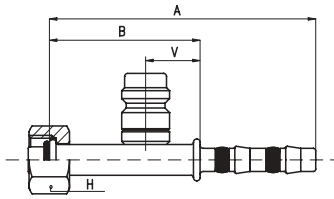
C42680-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	65,0	27,0	20,0	27
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STRAIGHT O-RING FEMALE HEMBRA O-RING RECTO



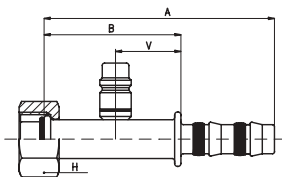
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	H	

C47910-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	68,9	30,3	19	
C47910-06-08	8	- 06	5/16"	3/4"-16-UNF-2B	83,5	44,9	22	
C47910-08-06	10	- 08	13/32"	5/8"-18-UNF-2B	74,0	35,4	19	
C47910-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	85,0	46,4	22	
C47910-08-08105	10	- 08	13/32"	3/4"-16-UNF-2B	10,5	66,4	22	
C47910-08-11	10	- 08	13/32"	1"-14-UNS-2B	83,0	44,4	25	
C47910-10-08	12	- 10	1/2"	3/4"-16-UNF-2B	103,0	64,4	22	
C47910-10-08103	12	- 10	1/2"	3/4"-16-UNF-2B	103,0	64,4	22	
C47910-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	85,0	46,5	27	
C47910-10-11	12	- 10	1/2"	1"-14-UNS-2B	82,4	43,8	29	
C47910-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	87,6	49,0	27	
C47910-12-11	16	- 12	5/8"	1"-14-UNS-2B	86,0	47,4	29	
C47910-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	94,2	55,6	32	



STRAIGHT O-RING FEMALE WITH HIGH PRESSURE VALVE
HEMBRA O-RING RECTO CON VALVULA DE ALTA PRESION

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	H	V ^{±1}
C47915-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	88,9	50,3	19	18,1
C47915-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	95,0	56,5	22	24,0
C47915-08-11	10	- 08	13/32"	1"-14-UNS-2B	86,0	47,4	29	26,9
C47915-10-08	12	- 10	1/2"	3/4"-16-UNF-2B	97,0	58,4	22	26,0
C47915-12-10	16	- 10	5/8"	7/8"-14-UNF-2B	94,0	55,4	27	26,0

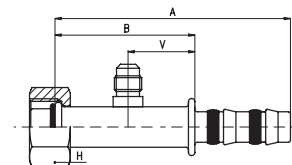


STRAIGHT O-RING FEMALE WITH LOW PRESSURE VALVE
HEMBRA O-RING RECTO CON VALVULA DE BAJA PRESION

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	H	V ^{±1}
C47916-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	95,0	56,4	27	27,0
C47916-10-11	12	- 10	1/2"	1"-14-UNS-2B	82,4	43,8	29	22,3
C47916-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	94,0	55,4	27	26,0

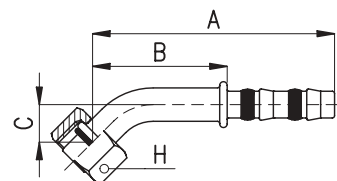
SAE J2064 TYPE E

STRAIGHT O-RING FEMALE 1/4" SAE CHARGE VALVE HEMBRA O-RING RECTO CON VALVULA DE CARGA 1/4" SAE



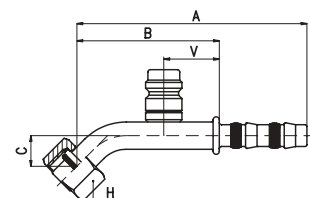
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C47912-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	95,0	56,4	27,0	27

O-RING FEMALE - 45° ELBOW HEMBRA O-RING - CODO 45°

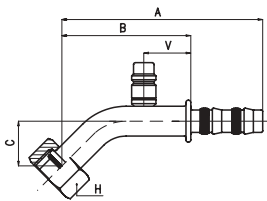


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C47940-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	84,9	46,3	12,5	19
C47940-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	91,3	52,7	13,5	22
C47940-08-11	10	- 08	13/32"	1"-14-UNS-2B	106,0	67,4	22,0	25
C47940-10-08	12	- 10	1/2"	3/4"-16-UNF-2B	87,0	48,4	13,5	22
C47940-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	107,7	69,1	24,0	27
C47940-10-11	12	- 10	1/2"	1"-14-UNS-2B	107,2	68,6	39,0	29
C47940-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	108,5	69,9	24,0	27
C47940-12-11	16	- 12	5/8"	1"-14-UNS-2B	106,5	67,9	22,0	29
C47940-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	115,9	77,3	27,0	32

O-RING FEMALE - 45° ELBOW WITH HIGH PRESSURE VALVE HEMBRA O-RING - CODO 45° CON VÁLVULA DE ALTA PRESION

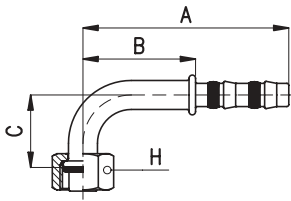


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H	V ± 1
C47945-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	101,3	62,7	13,5	22	24,4



O-RING FEMALE - 45° ELBOW WITH LOW PRESSURE VALVE
HEMBRA O-RING - CODO 45° CON VÁLVULA DE BAJA PRESION

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	H	V ^{±1}
C47946-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	107,7	69,1	24,0	27	25,2
C47946-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	108,5	69,9	24,0	27	26,0

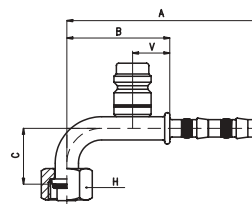


O-RING FEMALE - 90° ELBOW
HEMBRA O-RING - CODO 90°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	H
C47990-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	72,9	34,3	24,0	19
C47990-06-08	8	- 06	5/16"	3/4"-16-UNF-2B	88,0	49,4	30,0	22
C47990-08-06	10	- 08	13/32"	5/8"-18-UNF-2B	79,0	40,4	24,0	19
C47990-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	85,6	47,0	30,0	22
C47990-08-08037	10	- 08	13/32"	3/4"-16-UNF-2B	89,1	50,5	36,5	22
C47990-08-11	10	- 08	13/32"	1"-14-UNS-2B	84,0	45,4	39,0	25
C47990-10-08	12	- 10	1/2"	3/4"-16-UNF-2B	90,5	51,9	36,5	22
C47990-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	104,0	65,4	45,0	27
C47990-10-11	12	- 10	1/2"	1"-14-UNS-2B	107,2	68,6	39,0	29
C47990-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	101,0	62,4	45,0	27
C47990-12-11	16	- 12	5/8"	1"-14-UNS-2B	99,1	60,5	39,0	29
C47990-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	104,9	66,3	54,5	32

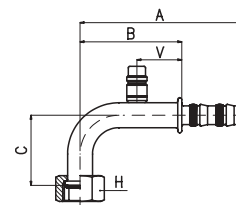
SAE J2064 TYPE E

O-RING FEMALE - 90° ELBOW WITH HIGH PRESSURE VALVE HEMBRA O-RING - CODO 90° CON VÁLVULA DE ALTA PRESION



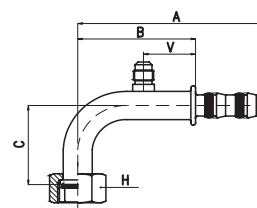
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H	V ± 1
C47995-06-06	8	-06	5/16"	5/8"-18-UNF-2B	82,9	44,3	24,0	19	16,0
C47995-08-08	10	-08	13/32"	3/4"-16-UNF-2B	89,1	50,5	36,5	22	24,5
C47995-10-08	12	-10	1/2"	3/4"-16-UNF-2B	90,5	51,9	39,5	22	26,0

O-RING FEMALE - 90° ELBOW WITH LOW PRESSURE VALVE HEMBRA O-RING - CODO 90° CON VALVULA DE BAJA PRESION

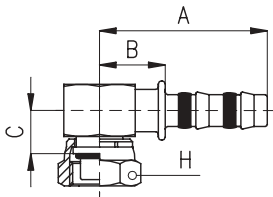


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H	V ± 1
C47996-10-10	12	-10	1/2"	7/8"-14-UNF-2B	103,9	65,3	45,0	27	28,8
C47996-12-10	16	-12	5/8"	7/8"-14-UNF-2B	101,0	62,4	45,0	27	26,0

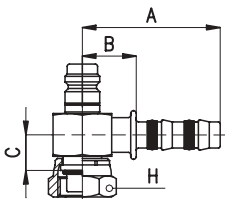
O-RING FEMALE - 90° ELBOW WITH 1/4" SAE CHARGE VALVE HEMBRA O-RING - CODO 90° CON VÁLVULA DE CARGA 1/4" SAE



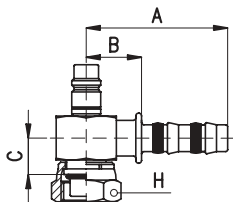
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H	V ± 1
C47992-08-08	8	-08	13/32"	3/4"-16-UNF-2B	89,1	50,5	36,5	22	24,6
C47992-10-10	12	-10	1/2"	7/8"-14-UNF-2B	103,8	65,2	45,0	27	28,8


SHORT VERSION O-RING FEMALE - 90° ELBOW
HEMBRA O-RING TIPO CORTO - CODO 90°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C47980-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	56,0	18,0	16,0	22
C47980-08-11	10	- 08	13/32"	1"-14-UNS-2B	59,5	21,5	16,4	29
C47980-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	58,5	20,5	16,4	27
C47980-10-11	12	- 10	1/2"	1"-14-UNS-2B	59,5	21,5	16,4	29
C47980-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	65,0	26,5	16,4	27
C47980-12-11	16	- 12	5/8"	1"-14-UNS-2B	65,0	26,5	24,2	29


SHORT VERSION O-RING FEMALE - 90° ELBOW
WITH HIGH PRESSURE VALVE
HEMBRA O-RING TIPO CORTO - CODO 90°
CON VALVULA DE ALTA PRESION

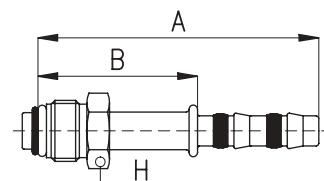
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C47985-08-11	10	- 08	13/32"	1"-14-UNS-2B	59,5	21,5	16,4	29


SHORT VERSION O-RING FEMALE - 90° ELBOW
WITH LOW PRESSURE VALVE
HEMBRA O-RING TIPO CORTO - CODO 90°
CON VALVULA DE BAJA PRESION

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C47986-10-11	12	- 10	1/2"	1"-14-UNS-2B	59,5	21,5	16,4	29
C47986-12-11	16	- 12	5/8"	1"-14-UNS-2B	65,0	26,5	24,2	25

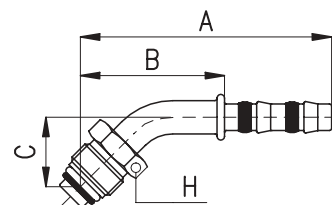
SAE J2064 TYPE E

STRAIGHT O-RING MALE MACHO O-RING RECTO



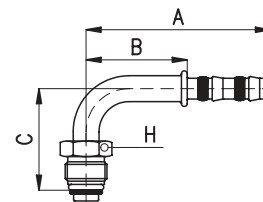
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch		A ± 2.5	B ± 2.5	H
C38010-06-06	8	-06	5/16"	5/8"-18-UNF-2A	70,2	31,6	17
C38010-08-06	10	-08	13/32"	5/8"-18-UNF-2A	74,0	35,4	17
C38010-08-08	10	-08	13/32"	3/4"-18-UNS-2A	89,4	50,8	22
C38010-10-10	12	-10	1/2"	7/8"-18-UNS-2A	91,6	53,0	22
C38010-12-10	16	-12	5/8"	7/8"-18-UNS-2A	86,0	47,4	22

O-RING MALE - 45° ELBOW MACHO O-RING - CODO 45°

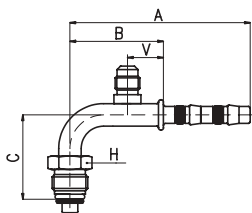


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C38040-06-06	8	-06	5/16"	5/8"-18-UNF-2A	92,7	54,1	21,5	17
C38040-08-06	10	-08	13/32"	5/8"-18-UNF-2A	94,0	55,4	21,4	17
C38040-08-08	10	-08	13/32"	3/4"-18-UNS-2A	100,9	62,3	25,0	22
C38040-10-10	12	-10	1/2"	7/8"-18-UNS-2A	112,4	73,8	28,5	22
C38040-12-10	16	-12	5/8"	7/8"-18-UNS-2A	113,0	74,4	28,5	22
C38040-12-12	16	-12	5/8"	1.1/16"-16-UN-2A	123,0	84,3	33,4	27

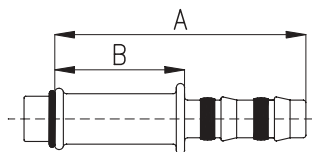
O-RING MALE - 90° ELBOW MACHO O-RING - CODO 90°



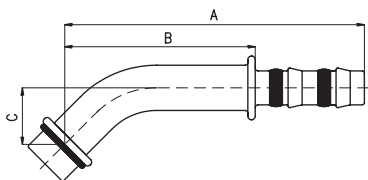
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C38090-06-06	8	-06	5/16"	5/8"-18-UNF-2A	80,6	42,0	37,5	17
C38090-08-06	10	-08	13/32"	5/8"-18-UNF-2A	77,0	38,4	37,5	17
C38090-08-08	10	-08	13/32"	3/4"-18-UNS-2A	83,0	44,4	47,0	22
C38090-10-10	12	-10	1/2"	7/8"-18-UNS-2A	100,9	62,3	54,5	22
C38090-12-10	16	-12	5/8"	7/8"-18-UNS-2A	99,0	60,4	54,5	22


O-RING MALE - 90° ELBOW WITH 1/4" SAE CHARGE VALVE
MACHO O-RING - CODO 90° CON VALVULA DE CARGA 1/4" SAE

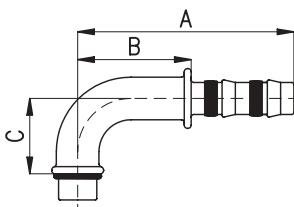
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	H	V ^{±1}
C38092-06-06	8	-06	5/16"	5/8"-18-UNF-2A	80,2	41,6	37,5	17	16,0


STRAIGHT FITTING FOR EXPANSION VALVE
RACOR RECTO PARA VALVULA DE EXPANSIÓN

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	H	V ^{±1}
C47610-06-06	8	-06	5/16"		77,9	39,3			
C47610-08-06	10	-08	13/32"		84,1	45,5			
C47610-10-12	12	-10	1/2"		92,0	53,4			
C47610-12-12	16	-12	5/8"		92,0	53,4			


FITTING FOR EXPANSION VALVE 45° ELBOW
RACOR PARA VALVULA DE EXPANSION CODO 45°

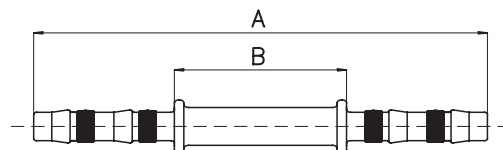
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	H	V ^{±1}
C47640-06-06	8	-06	5/16"		105,0	66,4	14,0		
C47640-10-12	12	-10	1/2"		106,0	86,0	20,0		


FITTING FOR EXPANSION VALVE 90° ELBOW
RACOR PARA VALVULA DE EXPANSION CODO 90°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	H	V ^{±1}
C47690-06-06	8	-06	5/16"		93,9	55,3	22,0		
C47690-10-12	12	-10	1/2"		104,3	65,7	41,5		
C47690-12-12	16	-12	5/8"		99,0	60,4	41,5		

SAE J2064 TYPE E

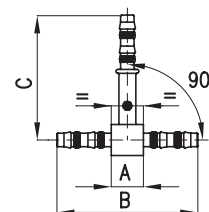
STRAIGHT CONNECTION FITTINGS RACORES PARA CONEXION RECTOS



INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
	DN	Dash	Inch	A ± 2.5	B ± 2.5		
C30010-06-06	8	-06	5/16"	124,0	46,8		
C30010-08-08	10	-08	13/32"	124,0	47,0		
C30010-10-10	12	-10	1/2"	124,0	47,0		
C30010-12-12	16	-12	5/8"	124,0	47,0		

3 WAYS CONNECTION FITTINGS RACORES PARA CONEXION DE 3 VIAS

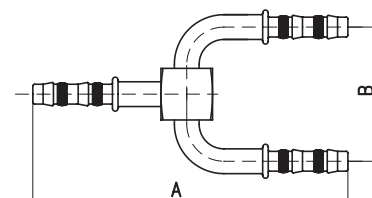
! For clamp solution only
Unicamente para uso con abrazadera



INSERT CODE ONLY	HOSE SIZE 1			HOSE SIZE 2			HOSE SIZE 3			DIMENSIONS mm		
	DN	Dash	Inch	DN	Dash	Inch	DN	Dash	Inch	A ± 2.5	B ± 2.5	C ± 2
C300T0-06-06-06	08	-06	5/16"	08	-06	5/16"	08	-06	5/16"	22,8	100,0	85,5
C300T0-06-06-08	08	-06	5/16"	08	-06	5/16"	08	-06	5/16"	22,8	100,0	85,5
C300T0-08-08-08	08	-06	5/16"	08	-06	5/16"	08	-06	5/16"	22,8	100,0	86,5
C300T0-08-08-10	10	-08	13/32"	10	-08	13/32"	12	-10	1/2"	22,8	100,0	86,5
C300T0-08-10-10	12	-10	1/2"	10	-08	13/32"	10	-08	13/32"	22,8	100,0	86,5
C300T0-08-10-12	10	-08	13/32"	10	-08	13/32"	16	-12	5/8"	22,8	100,0	86,5
C300T0-10-10-10	12	-10	1/2"	12	-10	1/2"	12	-10	1/2"	22,8	100,0	86,5
C300T0-10-10-12	12	-10	1/2"	12	-10	1/2"	16	-12	5/8"	22,8	100,0	86,5
C300T0-10-12-12	16	-12	5/8"	12	-10	1/2"	16	-12	5/8"	22,8	100,0	86,5
C300T0-12-12-12	16	-12	5/8"	16	-12	5/8"	16	-12	5/8"	22,8	100,0	86,5

"Y" CONNECTION FITTINGS RACORES EN "Y"

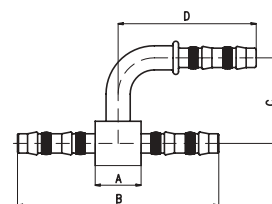
! For clamp solution only
Unicamente para uso con abrazadera



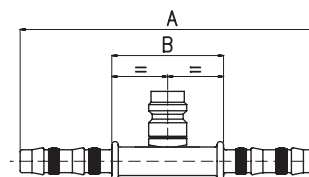
INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
	DN	Dash	Inch	A ± 2.5	B ± 2.5		
C300Y0-08-08-08	8	-08	13/32"	152,5	65,0		
C300Y0-12-12-12	16	-12	5/8"	152,0	83,0		

"h" CONNECTION FITTINGS
 RACORES EN "h"

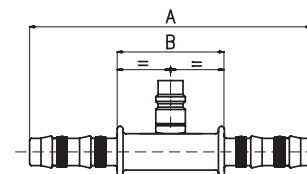

For clamp solution only
 Únicamente para uso con abrazadera



INSERT CODE ONLY	HOSE SIZE 1			HOSE SIZE 2			HOSE SIZE 3			DIMENSIONS mm			
	DN	Dash	Inch	DN	Dash	Inch	DN	Dash	Inch	A ± 2.5	B ± 2.5	C ± 2	D
C300h0-06-06-10	08	-06	5/16"	08	-06	5/16"	12	-10	1/2"	22,8	100,0	62,5	78,0
C300h0-08-08-08	10	-08	13/32"	10	-08	13/32"	10	-08	13/32"	22,8	100,0	42,5	123,5
C300h0-08-08-06	10	-08	13/32"	10	-08	13/32"	08	-06	5/16"	22,8	100,0	42,5	72,0
C300h0-06-10-06	12	-10	1/2"	08	-06	5/16"	08	-06	5/16"	22,8	100,0	48,5	65,0
C300h0-10-10-06	12	-10	1/2"	12	-10	1/2"	08	-06	5/16"	22,8	100,0	48,5	65,0
C300h0-10-10-12	12	-10	1/2"	12	-10	1/2"	16	-12	5/8"	22,8	100,0	62,5	75,0
C300h0-10-12-10	16	-12	5/8"	12	-10	1/2"	12	-10	1/2"	22,8	100,0	62,5	78,0
C300h0-12-12-10	16	-12	5/8"	16	-12	5/8"	12	-10	1/2"	22,8	100,0	42,5	68,5
C300h0-12-12-12	16	-12	5/8"	16	-12	5/8"	16	-12	5/8"	22,8	100,0	62,5	75,0

STRAIGHT CONNECTION FITTING WITH HIGH PRESSURE VALVE
 RACORES RECTOS CON VALVULA DE ALTA PRESION


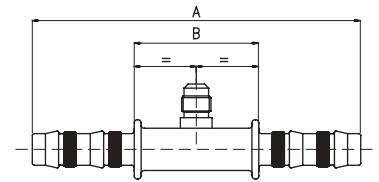
INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
	DN	Dash	Inch	A ± 2.5	B ± 2.5		
C30015-06-06	8	-06	5/16"	124,0	46,8		
C30015-08-08	10	-08	13/32"	124,0	47,0		
C30015-10-10	12	-10	1/2"	124,0	47,0		
C30015-12-12	16	-12	5/8"	124,0	47,0		

STRAIGHT CONNECTION FITTING WITH LOW PRESSURE VALVE
 RACORES RECTOS CON VALVULA DE BAJA PRESION


INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
	DN	Dash	Inch	A ± 2.5	B ± 2.5		
C30016-10-10	12	-10	1/2"	124,0	47,0		
C30016-12-12	16	-12	5/8"	124,0	47,0		

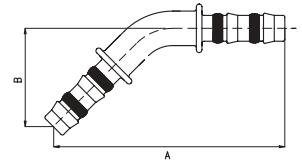
SAE J2064 TYPE E

STRAIGHT CONNECTION FITTING 1/4" SAE CHARGE VALVE RACOR RECTO CON VALVULA DE CARGA 1/4" SAE



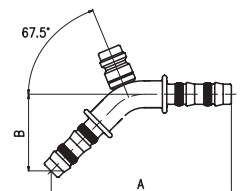
INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
	DN	Dash	Inch	A±2.5	B±2.5		
C30012-06-06	8	-06	5/16"	120,0	43,0		
C30012-08-08	10	-08	13/32"	124,0	47,0		
C30012-10-10	12	-10	1/2"	124,0	47,0		
C30012-12-12	16	-12	5/8"	124,0	47,0		

CONNECTION FITTING - 45° ELBOW RACOR - CODO 45°



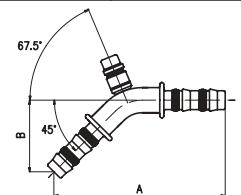
INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
	DN	Dash	Inch	A±2.5	B±2.5		
C30040-06-06	8	-06	5/16"	113,5	47,0		
C30040-08-08	10	-08	13/32"	121,0	50,0		
C30040-10-10	12	-10	1/2"	118,5	69,5		
C30040-12-12	16	-12	5/8"	106,0	44,0		

CONNECTION FITTING - 45° ELBOW WITH HIGH PRESSURE VALVE RACOR - CODO 45° CON VALVULA DE ALTA PRESION

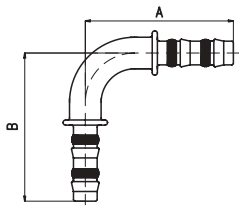


INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
	DN	Dash	Inch	A±2.5	B±2.5		
C30045-08-08	10	-08	13/32"	121,0	50,0		

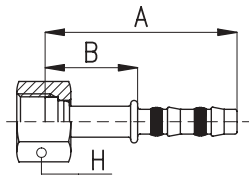
CONNECTION FITTING - 45° ELBOW WITH LOW PRESSURE VALVE RACOR - CODO 45° CON VALVULA DE BAJA PRESION



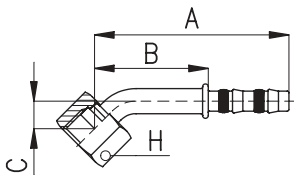
INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
	DN	Dash	Inch	A±2.5	B±2.5		
C30046-10-10	12	-10	1/2"	118,5	69,5		


CONNECTION FITTING - 90° ELBOW
RACOR - CODO 90°

INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
	DN	Dash	Inch	A ± 2.5	B ± 2.5		
C30090-06-06	8	-06	5/16"	70,0	70,0		
C30090-08-08	10	-08	13/32"	75,0	75,0		
C30090-10-10	12	-10	1/2"	75,0	75,0		
C30090-12-12	16	-12	5/8"	75,0	75,0		


STRAIGHT ORS FLAT SEAL FEMALE
HEMBRA ORS ASIENTO PLANO RECTO

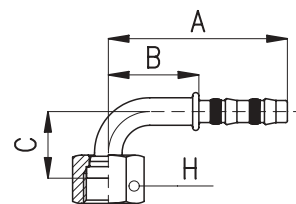
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	H	
C42410-06-04	8	-06	5/16"	9/16"-18-UNF-2B	72,0	33,4	19	
C42410-06-06	8	-06	5/16"	11/16"-16-UN-2B	70,0	31,4	22	
C42410-08-08	10	-08	13/32"	13/16"-16-UN-2B	74,5	35,9	27	
C42410-10-08	10	-08	13/32"	13/16"-16-UN-2B	74,5	35,9	27	
C42410-10-10	12	-10	1/2"	1"-14-UNS-2B	85,0	46,4	30	
C42410-12-12	16	-12	5/8"	1.3/16"-12-UN-2B	85,0	46,4	36	


ORS FLAT SEAL FEMALE - 45° ELBOW
HEMBRA ORS ASIENTO PLANO - CODO 45°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C42440-06-04	8	-06	5/16"	9/16"-18-UNF	64,0	25,4	10,0	19
C42440-06-06	8	-06	5/16"	11/16"-16-UN-2B	65,0	26,4	10,5	22
C42440-08-08	10	-08	13/32"	13/16"-16-UN-2B	93,0	54,4	13,0	27
C42440-10-08	10	-10	1/2"	13/16"-16-UN	93,0	54,4	13,0	27
C42440-10-10	12	-10	1/2"	1"-14-UNS-2B	82,0	43,4	18,0	30
C42440-12-12	16	-12	5/8"	1.3/16"-12-UN-2B	94,0	55,4	30,5	36

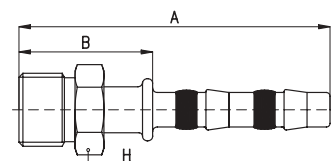
SAE J2064 TYPE E

ORS FLAT SEAL FEMALE - 90° ELBOW HEMBRA ORS ASIENTO PLANO - CODO 90°



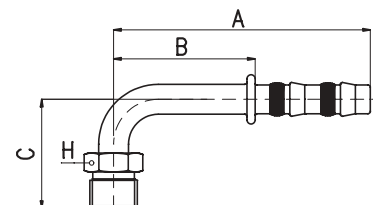
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
C42490-06-04	8	-06	5/16"	9/16"-18-UNF-2B	61,5	22,9	22,5	19
C42490-06-06028	8	-06	5/16"	11/16"-16-UN-2B	72,0	33,4	27,5	22
C42490-06-08	8	-06	5/16"	13/16"-16-UN-2B	81,0	42,2	29,0	27
C42490-08-08	10	-08	13/32"	13/16"-16-UN-2B	78,0	39,4	29,0	27
C42490-10-08	12	-10	1/2"	13/16"-16-UN-2B	78,0	34,9	29,0	27
C42490-10-10	12	-10	1/2"	1"-14-UNS-2B	75,0	36,4	36,0	30
C42490-12-10	16	-12	5/8"	1"-14-UNS-2B	75,0	36,4	36,0	30
C42490-12-12	16	-12	5/8"	1.3/16"-12-UN-2B	84,0	45,4	45,0	36

STRAIGHT MALE WITH O-RING SEAT MACHO RECTO CON O-RING



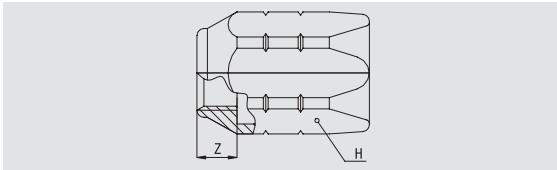
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	H	
C37910-06-06	8	-06	5/16"	5/8"-18-UNF-2A	67,7	29,1	17	
C37910-08-10	10	-08	13/32"	7/8"-14-UNF-2A	75,0	36,4	24	
C37910-10-10	12	-10	1/2"	7/8"-14-UNF-2A	77,8	36,6	24	

MALE WITH O-RING SEAT - 90° ELBOW MACHO CON O-RING - CODO 90°

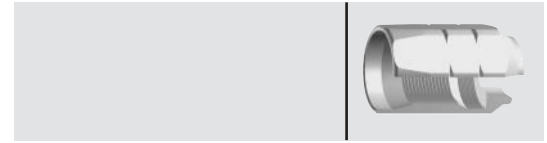


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
C37990-08-06	10	-08	13/32"	5/8"-18-UNF-2A	86,0	47,4	36,5	17
C37990-10-08	12	-10	1/2"	3/4"-16-UNF-2A	87,0	48,4	41,5	22

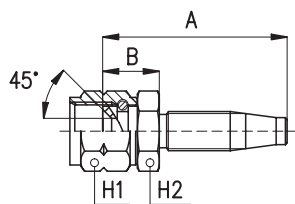
CUT-OFF DIMENSION



HOSE SIZE			DIMENSIONS mm	
DN	DASH	INCH	Z	H
5	- 04	3/16"	9,0±0,1	16
8	- 06	5/16"	10,0±0,1	21
10	- 08	13/32"	12,5±0,1	24
12	- 10	1/2"	9,0±0,1	28
16	- 12	5/8"	11,5±0,1	32
22	- 16	7/8"	10,0±0,1	38
28	- 20	1.1/8"	10,0±0,1	46
35	- 24	1.3/8"	10,0±0,1	50



HOSE SIZE			STAR-FIT FERRULE (reusable solution)
DN	DASH	INCH	CODE
5	- 04	3/16"	K00400-04
8	- 06	5/16"	K00400-06
10	- 08	13/32"	K00400-08
12	- 10	1/2"	K00400-10
16	- 12	5/8"	K00400-12
22	- 16	7/8"	K00400-16
28	- 20	1.1/8"	K00400-20
35	- 24	1.3/8"	K00400-24



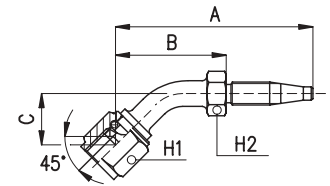
45° SAE STRAIGHT FEMALE HEMBRA 45° SAE - RECTO

INSERT CODE ONLY	HOSE SIZE	THREAD	DIMENSIONS mm
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	DN	Dash	Inch		A±2.5	B±2.5	H1	H2
K42610-04-04	5	- 04	3/16"	7/16"-20-UNF-2B	41,0	14,0	15	15
K42610-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	50,5	15,5	19	19
K42610-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	59,0	18,0	22	22
K42610-10-08	12	- 10	1/2"	3/4"-16-UNF-2B	64,0	18,0	22	22
K42610-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	65,0	19,0	27	27
K42610-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	68,5	19,0	27	27
K42610-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	91,0	41,5	32	24
K42610-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	67,5	29,5	32	32
K42610-16-16	22	- 16	7/8"	1.5/16"-14-UNS-2B	61,5	14,5	38	38

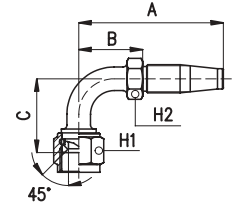
SAE J2064 TYPE B

45° SAE FEMALE - 45° ELBOW
HEMBRA 45° SAE - CODO 45°

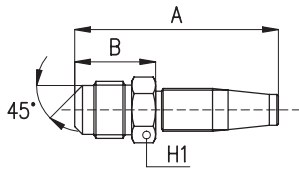


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	H1	H2
K42640-04-04	5	-04	3/16"	7/16"-20-UNF-2B	68,5	41,5	16,0	15	12
K42640-06-06	8	-06	5/16"	5/8"-18-UNF-2B	88,0	53,3	16,5	19	15
K42640-08-08	10	-08	13/32"	3/4"-16-UNF-2B	94,7	53,7	16,5	22	18
K42640-10-10	12	-10	1/2"	7/8"-14-UNF-2B	94,5	48,5	23,5	27	21
K42640-12-08	16	-12	5/8"	3/4"-16-UNF-2B	113,0	63,5	26,5	22	24
K42640-12-10	16	-12	5/8"	7/8"-14-UNF-2B	99,5	50,0	23,5	27	24
K42640-12-12	16	-12	5/8"	1.1/16"-14-UNS-2B	104,5	55,0	26,5	32	24
K42640-16-10	22	-16	7/8"	7/8"-14-UNF-2B	97,0	50,0	23,5	27	30
K42640-16-12	22	-16	7/8"	1.1/16"-14-UNS-2B	101,5	54,5	26,5	32	30
K42640-16-16	22	-16	7/8"	1.5/16"-14-UNS-2B	115,0	68,0	32,5	38	30

45° SAE FEMALE - 90° ELBOW
HEMBRA 45° SAE - CODO 90°

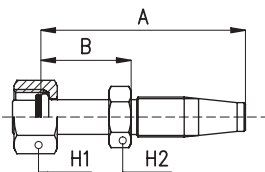


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	H1	H2
K42690-04-04	5	-04	3/16"	7/16"-20-UNF-2B	55,0	28,0	25,5	15	12
K42690-06-06	8	-06	5/16"	5/8"-18-UNF-2B	72,5	37,5	30,5	19	15
K42690-08-06	10	-08	13/32"	5/8"-18-UNF-2B	73,5	32,5	37,5	19	18
K42690-08-08	10	-08	13/32"	3/4"-16-UNF-2B	73,5	32,5	37,5	22	18
K42690-10-08	12	-10	1/2"	3/4"-16-UNF-2B	79,5	33,5	42,5	22	21
K42690-10-10	12	-10	1/2"	7/8"-14-UNF-2B	83,5	37,5	46,5	27	21
K42690-12-08	16	-12	5/8"	3/4"-16-UNF-2B	84,0	34,5	42,5	22	24
K42690-12-10	16	-12	5/8"	7/8"-14-UNF-2B	89,0	39,5	46,5	27	24
K42690-12-12	16	-12	5/8"	1.1/16"-14-UNS-2B	94,0	44,5	53,0	32	24
K42690-16-10	22	-16	7/8"	7/8"-14-UNF-2B	86,5	39,5	46,5	27	30
K42690-16-12	22	-16	7/8"	1.1/16"-14-UNS-2B	90,5	43,5	53,0	32	30
K42690-16-16	22	-16	7/8"	1.5/16"-14-UNS-2B	101,5	54,5	66,5	38	30



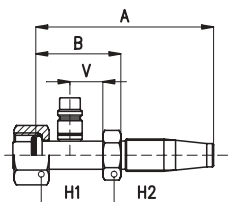
STRAIGHT 45° SAE FLARE MALE
MACHO ABOCINADO 45° SAE - RECTO

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	H1
K32610-04-04	5	-04	3/16"	7/16"-20-UNF-2B	47,5	18,7	12
K32610-06-06	8	-06	5/16"	5/8"-18-UNF-2B	57,7	22,7	16
K32610-08-08	10	-08	13/32"	3/4"-16-UNF-2B	68,0	27,0	19
K32610-10-10	12	-10	1/2"	7/8"-14-UNF-2B	78,4	32,4	24
K32610-12-12	16	-12	5/8"	1.1/16"-14-UNS-2B	85,9	36,4	27
K32610-16-16	22	-16	7/8"	1.5/16"-14-UNS-2B	85,0	39,0	36



STRAIGHT O-RING FEMALE
HEMBRA O-RING - RECTO

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	H1	H2
K47910-06-06	8	-06	5/16"	5/8"-18-UNF-2B	69,0	34,0	19	14
K47910-08-06	10	-08	13/32"	5/8"-18-UNF-2B	76,5	35,5	19	18
K47910-08-08	10	-08	13/32"	3/4"-16-UNF-2B	85,5	44,5	22	18
K47910-10-10	12	-10	1/2"	7/8"-14-UNF-2B	96,0	50,0	27	21
K47910-12-10	16	-12	5/8"	7/8"-14-UNF-2B	101,5	52,0	27	24
K47910-12-12	16	-12	5/8"	1.1/16"-14-UNS-2B	110,0	60,5	32	24
K47910-16-12	22	-16	7/8"	1.1/16"-14-UNS-2B	107,5	60,5	32	30

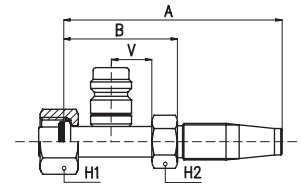


STRAIGHT O-RING FEMALE WITH LOW PRESSURE VALVE
HEMBRA O-RING - RECTO CON VALVULA DE BAJA PRESION

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	V ^{±1}	H1	H2
K47916-12-10	16	-12	5/8"	7/8"-14-UNF-2B	101,5	52,0	16,0	27	24
K47916-16-12	22	-16	7/8"	1.1/16"-14-UNF-2B	107,5	60,5	16,0	32	30

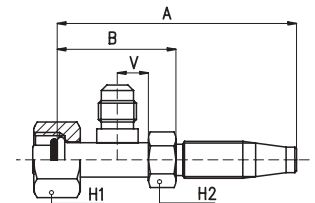
SAE J2064 TYPE B

STRAIGHT O-RING FEMALE WITH HIGH PRESSURE VALVE HEMBRA O-RING - RECTOCON VALVULA DE ALTA PRESION



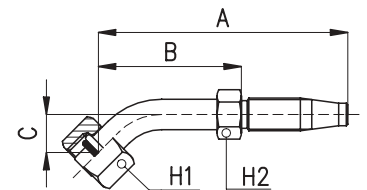
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	V ± 1	H1	H2
K47915-08-08	10	-08	13/32"	3/4"-16-UNF-2B	85,5	44,5	16,0	22	18

STRAIGHT O-RING FEMALE WITH 1/4" SAE CHARGE VALVE HEMBRA O-RING - RECTO CON VALVULA DE CARGA 1/4" SAE

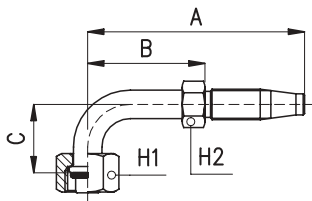


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	H	H1	H2
K47912-06-06	8	-06	5/16"	5/8"-18-UNF-2B	67,3	32,3	9,0	19	14

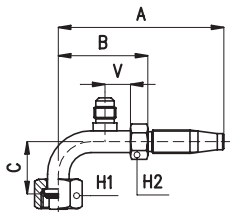
O-RING FEMALE - 45° ELBOW HEMBRA O-RING - CODO 45°



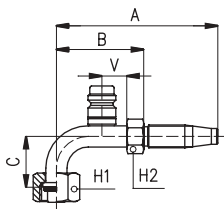
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	H	H1	H2
K47940-06-06	8	-06	5/16"	5/8"-18-UNF-2B	82,0	47,0	12,5	19	14
K47940-08-08	10	-08	13/32"	3/4"-16-UNF-2B	90,5	49,5	13,5	22	18
K47940-10-08	12	-10	1/2"	3/4"-16-UNF-2B	95,5	49,5	13,5	22	21
K47940-10-10	12	-10	1/2"	7/8"-14-UNF-2B	117,0	71,0	24,0	27	21
K47940-10-11	12	-10	1/2"	1"-14-UNF-2B	115,0	69,0	22,0	29	21
K47940-12-10	16	-12	5/8"	7/8"-14-UNF-2B	122,5	73,0	24,0	27	24
K47940-12-11	16	-12	5/8"	1"-14-UNS-2B	120,5	71,0	22,0	29	24
K47940-12-12	16	-12	5/8"	1.1/16"-14-UNS-2B	130,5	81,0	27,0	32	24
K47940-16-12	22	-16	7/8"	1.1/16"-14-UNS-2B	128,0	81,0	27,0	32	30

SAE J2064 TYPE B

O-RING FEMALE - 90° ELBOW
HEMBRA O-RING - CODO 90°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	H		
K47990-06-06	8	-06	5/16"	5/8"-18-UNF-2B	74,0	39,0	24,0	19	14
K47990-08-06	10	-08	13/32"	5/8"-18-UNF-2B	81,5	40,5	24,0	19	18
K47990-08-08	10	-08	13/32"	3/4"-16-UNF-2B	89,5	48,5	30,0	22	18
K47990-10-10	12	-10	1/2"	7/8"-14-UNF-2B	109,5	63,5	45,0	27	21
K47990-12-10	16	-12	5/8"	7/8"-14-UNF-2B	115,0	65,5	45,0	27	24
K47990-12-12	16	-12	5/8"	1.1/16"-14-UNS-2B	119,5	70,0	54,5	32	24
K47990-16-10	22	-16	7/8"	7/8"-14-UNF-2B	112,5	65,5	45,0	27	30
K47990-16-12	22	-16	7/8"	1.1/16"-14-UNS-2B	117,0	70,0	54,5	32	30
K47990-20-12	28	-20	1.1/8"	1.1/16"-14-UNS-2B	115,0	69,0	54,5	32	36


O-RING FEMALE - 90° ELBOW WITH 1/4" SAE CHARGE VALVE
HEMBRA O-RING - CODO 90° CON VÁLVULA DE CARGA 1/4" SAE

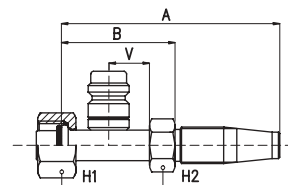
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm					
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	V ^{±1}	H1	H2
K47992-16-12	22	-16	7/8"	1.1/16"-14-UNS-2B	117,0	70,0	54,5	16,0	32	30


O-RING FEMALE - 90° ELBOW WITH HIGH PRESSURE VALVE
HEMBRA O-RING - CODO 90° CON VÁLVULA DE ALTA PRESION

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm					
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	V ^{±1}	H1	H2
K47995-08-08	10	-08	13/32"	3/4"-16-UNF-2B	94,0	53,0	36,5	16,0	22	18

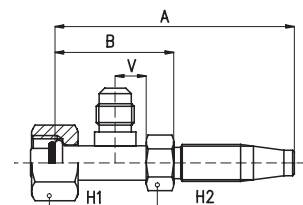
SAE J2064 TYPE B

STRAIGHT O-RING FEMALE WITH HIGH PRESSURE VALVE HEMBRA O-RING - RECTO CON VALVULA DE ALTA PRESION



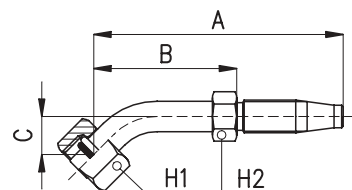
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm					
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	V ± 1	H1	H2
K47996-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	109,5	63,5	45,0	16,0	27	21
K47996-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	115,0	65,5	45,0	16,0	27	24
K47996-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	116,0	69,0	54,5	16,0	32	30

STRAIGHT O-RING FEMALE WITH 1/4" SAE CHARGE VALVE HEMBRA O-RING - RECTO CON VALVULA DE CARGA 1/4" SAE

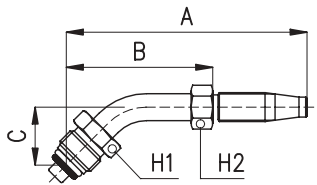


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm					
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	V ± 1	H1	H2
K47945-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	106,8	65,3	13,5	16,0	22	18

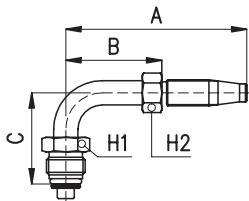
O-RING FEMALE - 45° ELBOW HEMBRA O-RING - CODO 45°



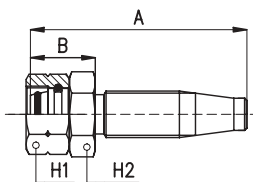
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
K38010-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	69,4	34,4	17	14
K38010-08-08	10	- 08	13/32"	3/4"-18-UNS-2B	85,5	44,5	22	18
K38010-10-10	12	- 10	1/2"	7/8"-18-UNS-2B	94,5	48,5	22	21

SAE J2064 TYPE B

O-RING MALE - 45° ELBOW
MACHO O-RING - CODO 45°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	H1	H2
K38040-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	89,5	54,5	21,5	17	14
K38040-08-08	10	- 08	13/32"	3/4"-18-UNS-2B	106,5	65,5	25,0	22	18
K38040-10-10	12	- 10	1/2"	7/8"-18-UNS-2B	121,5	75,5	28,5	22	21


O-RING MALE - 90° ELBOW
MACHO O-RING - CODO 90°

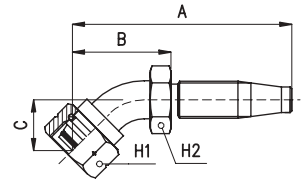
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	H1	H2
K38090-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	74,5	39,5	37,5	17	14
K38090-08-08	10	- 08	13/32"	3/4"-18-UNS-2B	89,5	48,5	47,0	22	18
K38090-10-10	12	- 10	1/2"	7/8"-18-UNS-2B	109,0	63,0	54,5	22	21


STRAIGHT 24° DIN FLARE O-RING OGIVAL FEMALE
HEMBRA O-RING OGIVA 24° DIN ABOCINADO - RECTO

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	H1	H2
K41510-12-26	16	- 12	5/8"	M 26x1.5	92,0	42,5	32	27	
K41510-12-30	16	- 12	5/8"	M 30x2	94,5	45,0	36	24	
K41510-16-30	22	- 16	7/8"	M 30x2	74,0	27,0	36	36	
K41510-16-36	22	- 16	7/8"	M 36x2	75,8	28,8	41	36	
K41510-20-36	28	- 20	1.1/8"	M 36x2	76,8	30,8	41	41	

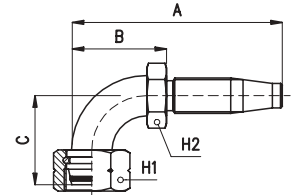
SAE J2064 TYPE B

24° DIN FLARE O-RING OGIVAL FEMALE - 45° ELBOW HEMBRA O-RING OGIVA 24° DIN ABOCINADO - CODO 45°



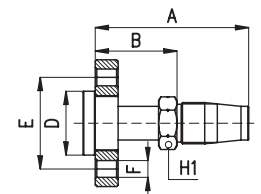
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H1	H2
K41540-12-26	16	- 12	5/8"	M 26x1.5	107,0	57,2	28,7	32	24
K41540-12-30	16	- 12	5/8"	M 30x2	107,0	57,5	29,0	36	34
K41540-16-30	22	- 16	7/8"	M 30x2	104,0	57,1	29,4	36	30
K41540-16-36	22	- 16	7/8"	M 36x2	117,0	69,9	30,0	41	30
K41540-20-36	28	- 20	1.1/8"	M 36x2	115,0	68,9	34,0	41	36

24° DIN FLARE O-RING OGIVAL FEMALE - 90° ELBOW HEMBRA O-RING OGIVA 24° DIN ABOCINADO - CODO 90°



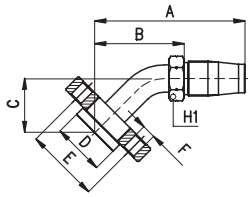
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H1	H2
K41590-08-26	10	- 08	13/32"	M 26x1.5	86,5	45,5	60,0	32	24
K41590-12-26	16	- 12	5/8"	M 26x1.5	94,0	44,5	56,0	32	24
K41590-12-30	16	- 12	5/8"	M 30x2	91,0	41,5	56,5	36	30
K41590-16-30	22	- 16	7/8"	M 30x2	91,0	43,5	56,5	36	30
K41590-16-36	22	- 16	7/8"	M 36x2	101,5	54,5	69,3	41	30
K41590-20-30	28	- 20	1.1/8"	M 30x2	89,4	43,5	48,5	36	36
K41590-20-36	28	- 20	1.1/8"	M 36x2	101,0	54,5	69,3	41	36

STRAIGHT FLANGE FITTING FLANGE RECTO



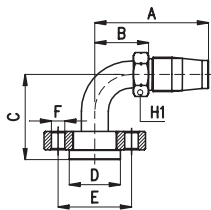
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm					
	DN	Dash	Inch		A ± 2.5	B ± 2.5	D	E	F	H1
K43710-16-16	22	- 16	7/8"		108,5	61,5	41,8	60,0	Ø 11,0	30
K43710-20-16	28	- 20	1.1/8"		102,5	56,5	41,8	60,0	Ø 11,0	36

SAE J2064 TYPE B



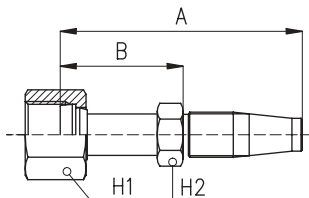
FLANGE FITTING - 45° ELBOW
FLANGE - CODO 45°

INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm						
	DN	Dash	Inch	A ± 2.5	B ± 2.5	C ± 2	D	E	F	H1
K43740-16-16	22	- 16	7/8"	119,0	72,0	44,0	41,8	60,0	Ø 11,0	30
K43740-20-16	28	- 20	1.1/8"	122,5	76,5	44,0	41,8	60,0	Ø 11,0	36



FLANGE FITTING - 90° ELBOW
FLANGE - CODO 90°

INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm						
	DN	Dash	Inch	A ± 2.5	B ± 2.5	C ± 2	D	E	F	H1
K43790-16-16	22	- 16	7/8"	90,5	43,5	79,5	41,8	60,0	Ø 11,0	30
K43790-20-16	28	- 20	1.1/8"	100,5	54,5	88,5	41,8	60,0	Ø 11,0	36

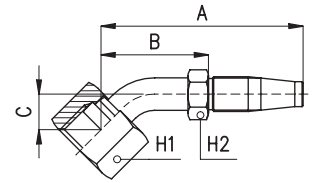


STRAIGHT ORS FLAT SEAL FEMALE
HEMBRA ASIENTO PLANO ORS - RECTO

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	H1	H2
K42410-04-04	5	- 04	3-16"	9/16"-18-UNF-2B	61,0	34,0	19	12
K42410-06-06	8	- 06	5-16"	11-16"-UN-2B	69,0	34,0	22	14
K42410-08-08	10	- 08	13/32"	13/16"-16-UN-2B	78,0	37,0	27	18
K42410-10-10	12	- 10	1/2"	1"-14-UNS-2B	93,5	47,5	30	21
K42410-12-12	16	- 12	5/8"	1.3/16"-12-UN-2B	99,0	49,5	36	24
K42410-12-16	16	- 12	5/8"	1.7/16"-12-UNF-2B	52,5	102,0	41	27
K42410-12-16078	16	- 12	5/8"	1.7/16"-12-UNF-2B	29,0	78,5	41	24
K42410-16-16	22	- 16	7/8"	1.7/16"-12-UN-2B	117,5	70,5	41	30
K42410-16-20	22	- 16	7/8"	1.11/16"-UN-2B	69,5	116,5	50	30
K42410-20-20	28	- 20	1.1/8"	1.11/16"-12-UN-2B	114,5	68,5	50	36
K42410-24-24	35	- 24	1.3/8"	2"-12-UN	115,5	70,5	60	46

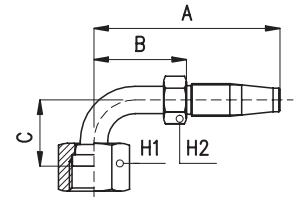
SAE J2064 TYPE B

ORS FLAT SEAL FEMALE - 45° ELBOW HEMBRA ASIEN TO PLANO ORS - CODO 45°

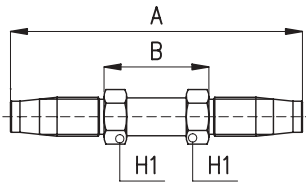


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H1	H2
K42440-04-04	5	-04	3/16"	9/16"-18-UNF-2B	52,2	25,2	10,0	19	12
K42440-06-06	8	-05	5/16"	11/16"-16-UN-2B	62,3	27,3	10,5	22	14
K42440-08-08	10	-08	13/32"	13/16"-16-UN-2B	96,5	55,5	13,0	27	18
K42440-10-10	12	-10	1/2"	1"-14-UNS-2B	86,5	40,5	16,0	30	21
K42440-12-12	16	-12	5/8"	1.3/16"-12-UN-2B	115,0	65,5	17,0	36	24
K42440-16-16	22	-16	7/8"	1.7/16"-12-UN-2B	115,5	68,5	40,5	41	30
K42440-20-20	28	-20	1.1/8"	1.11/16"-12-UN-2B	111,5	66,5	27,0	50	36
K42440-24-24	35	-24	1.3/8"	2"-12-UN	115,5	70,5	29,0	60	46

ORS FLAT SEAL FEMALE - 90° ELBOW HEMBRA ASIEN TO PLANO ORS - CODO 90°



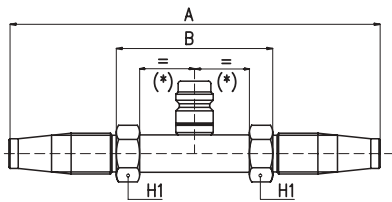
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H1	H2
K42490-04-04	5	-04	3/16"	9/16"-18-UNF-2B	50,5	23,5	22,5	19	12
K42490-06-06	8	-06	5/16"	11/16"-16-UN-2B	62,5	27,5	25,5	22	14
K42490-08-08	10	-08	13/32"	13/16"-16-UN-2B	81,5	40,5	29,0	27	18
K42490-10-10	12	-10	1/2"	1"-14-UNS-2B	83,5	37,5	36,0	30	21
K42490-12-12	16	-12	5/8"	1.3/16"-12-UN-2B	98,0	48,5	45,0	36	24
K42490-16-16	22	-16	7/8"	1.7/16"-12-UN-2B	117,5	70,5	48,0	41	30
K42490-20-20	28	-20	1.1/8"	1.11/16"-12-UN-2B	104,5	58,5	56,0	50	36



STRAIGHT CONNECTION FITTING
RACOR RECTO

INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
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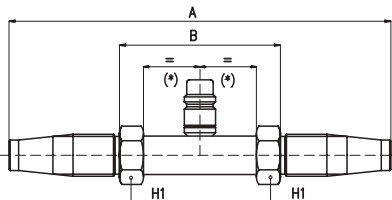
	DN	Dash	Inch		A ± 2.5	B ± 2.5	H1
K30010-04-04	5	-04	3/16"		89,0	35,0	12
K30010-06-06	8	-06	5/16"		115,0	45,0	14
K30010-08-08	10	-08	13/32"		128,0	46,0	18
K30010-10-10	12	-10	1/2"		141,0	49,0	21
K30010-12-12	16	-12	5/8"		154,5	55,5	24
K30010-16-16	22	-16	7/8"		145,0	51,0	30
K30010-20-20	28	-20	1.1/8"		163,0	71,0	36



STRAIGHT CONNECTION FITTING WITH HIGH PRESSURE VALVE
RACOR RECTO CON VALVULA DE ALTA PRESION

INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
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	DN	Dash	Inch		A ± 2.5	B ± 2.5	H1
K30015-08-08	10	-08	13/32"		150,0	68,0	18
K30015-10-10	12	-10	1/2"		159,0	67,0	21



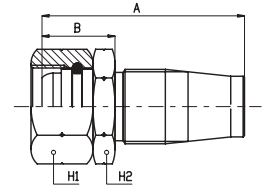
STRAIGHT CONNECTION FITTING WITH LOW PRESSURE VALVE
RACOR RECTO CON VALVULA DE BAJA PRESION

INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
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	DN	Dash	Inch		A ± 2.5	B ± 2.5	H1
K30016-10-10	12	-10	1/2"		159,0	67,0	21
K30016-12-12	16	-12	5/8"		181,0	82,0	24

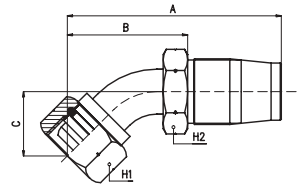
SAE J2064 TYPE B

STRAIGHT METRIC OGIVAL FEMALE HEMBRA METRICO A OGIVA - RECTO



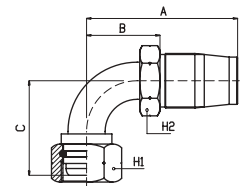
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	H1	H2
K41510-16-30 SC	22	- 16	7/8"	M 30x2	73,5	26,5	36	36
K41510-16-36 SC	22	- 16	7/8"	M 36x2	115,0	68,0	41	30
K41510-20-36 SC	28	- 20	1.1/8"	M 36x2	73,5	27,5	41	41

METRIC OGIVAL FEMALE - 45° ELBOW HEMBRA METRICO A OGIVA - CODO 45°



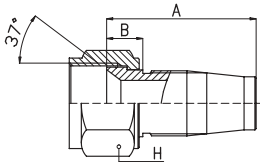
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H1	H2
K41540-16-30 SC	22	- 16	7/8"	M 30x2	103,0	56,0	28,5	36	30
K41540-16-36 SC	22	- 16	7/8"	M 36x2	114,5	67,5	28,0	41	30
K41540-20-30 SC	28	- 20	1.1/8"	M 30x2	105,0	59,0	32,0	36	36
K41540-20-36 SC	28	- 20	1.1/8"	M 36x2	113,5	67,5	32,9	41	36

METRIC OGIVAL FEMALE - 90° ELBOW HEMBRA METRICO A OGIVA - CODO 90°



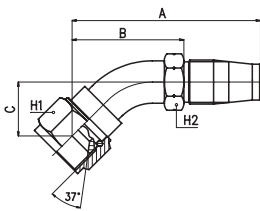
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H1	H2
K41590-12-30 SC	16	- 12	5/8"	M 30x2	112,0	62,5	74,0	36	24
K41590-16-30 SC	22	- 16	7/8"	M 36x2	90,5	73,5	56,0	36	30
K41590-16-36 SC	28	- 20	1.1/8"	M 30x2	117,0	70,0	122,0	41	30
K41590-20-30 SC	28	- 20	1.1/8"	M 36x2	89,5	43,5	56,0	36	36
K41590-20-36 SC	28	- 20	1.1/8"	M 36x2	100,5	54,5	66,0	41	36

SAE J2064 TYPE B



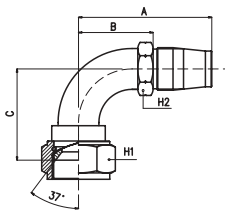
JIC 37° STRAIGHT FEMALE FITTING
HEMBRA JIC 37° - RECTO

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	H1	H2
K42510-16-12	22	- 16	7/8"	1.1/16"-12-UNF-2B	78,5	31,5	32,0	30
K42510-16-16	22	- 16	7/8"	1.5/16"-12-UNF-2B	62,0	15,0	38,0	



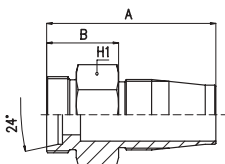
JIC 37° FEMALE FITTING - 45° ELBOW
HEMBRA JIC 37° - CODO 45°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H1	H2
K42540-16-16	22	- 16	7/8"	1.5/16"-12-UNF-2B	115,5	68,5	33,0	38	30



JIC 37° FEMALE FITTING - 90° ELBOW
HEMBRA JIC 37° - CODO 90°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H1	H2
K42590-16-16	22	- 16	7/8"	1.5/16"-12-UNF-2B	101,5	54,5	67,5	38	30
K42590-20-20	28	- 20	1.1/8"	1.5/8"-12-UNF-2B	104,5	58,5	71,5	50	36



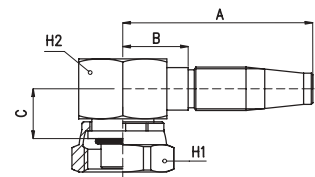
STRAIGHT 24° MALE DIN
MACHO 24° DIN - RECTO

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	H1	H2
K31110-16-30	22	- 16	7/8"	M 30x2	71,0	24,0	32	

SAE J2064 TYPE B

SHORT VERSION O-RING FEMALE - 90° ELBOW

HEMBRA O-RING TIPO CORTO - CODO 90°



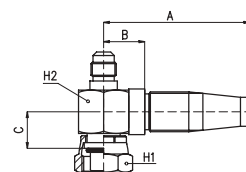
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A \pm 2.5	B \pm 2.5	C \pm 2	H1	H2
K47980-08-11	10	- 08	13/32"	1"-14-UNF-2B	62,5	21,5	16,4	29	29
K47980-10-11	12	- 10	1/2"	1"-14-UNS-2B	67,5	21,5	16,4	29	29
K47980-12-11	16	- 12	5/8"	1"-14-UNS-2B	75,5	26,0	24,2	29	25

SHORT VERSION O-RING FEMALE - 90° ELBOW

WITH 1/4" SAE CHARGE VALVE

HEMBRA O-RING TIPO CORTO - CODO 90°

CON VÁLVULA DE CARGA 1/4" SAE



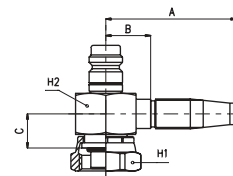
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A \pm 2.5	B \pm 2.5	C \pm 2	H1	H2
K47982-10-08	12	- 10	1/2"	3/4"-16-UNF-2B	64,0	18,0	16,0	22	22
K47982-10-11	12	- 10	1/2"	1"-14-UNS-2B	67,5	21,5	16,4	29	29
K47982-12-08	16	- 12	5/8"	3/4"-16-UNF-2B	52,5	102,0	16,0	22	22
K47982-16-10	22	- 16	7/8"	7/8"-14-UNF-2B	101,5	54,5	16,4	27	27
K47982-16-11	22	- 16	7/8"	1"-14-UNS-2B	54,0	101,0	24,2	29	25

SHORT VERSION O-RING FEMALE - 90° ELBOW

WITH HIGH PRESSURE VALVE

HEMBRA O-RING TIPO CORTO - CODO 90°

CON VÁLVULA DE ALTA PRESION



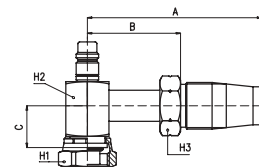
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A \pm 2.5	B \pm 2.5	C \pm 2	H1	H2
K47985-08-11	10	- 08	13/32"	1"-14-UNS-2B	21,5	62,5	16,4	29	29
K47985-12-11	16	- 12	5/8"	1"-14-UNS-2B	24,0	75,5	24,2	29	25

SHORT VERSION O-RING FEMALE - 90° ELBOW

WITH LOW PRESSURE VALVE

HEMBRA O-RING TIPO CORTO - CODO 90°

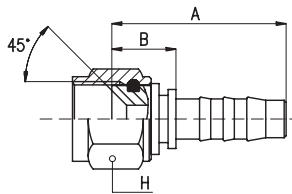
CON VÁLVULA DE BAJA PRESION



INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A \pm 2.5	B \pm 2.5	C \pm 2	H1	H2
K47986-12-11	16	- 12	5/8"	1"-14-UNS-2B	24,0	75,5	24,2	29	25
K47986-16-11	22	- 16	7/8"	1"-14-UNS-2B	54,0	101,0	24,2	29	25

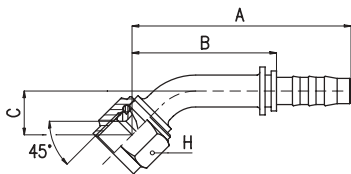


HOSE SIZE			STAR-CRIMP FERRULE (crimped solution)
DN	DASH	INCH	CODE
5	-04	3/16"	C00300-04
8	-06	5/16"	C00300-06
10	-08	13/32"	C00300-08
12	-10	1/2"	C00300-10
16	-12	5/8"	C00300-12
22	-16	7/8"	C00300-16
28	-20	1.1/8"	C00300-20



45° SAE STRAIGHT FEMALE
HEMBRA 45° SAE - RECTO

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}		H
C22610-04-04	5	-04	3/16"	7/16"-20-UNF-2B	34,2	14,5		15
C22610-06-06	8	-06	5/16"	5/8"-18-UNF-2B	42,0	16,0		19
C22610-08-08	10	-08	13/32"	3/4"-16-UNF-2B	44,3	16,3		22
C22610-10-10	12	-10	1/2"	7/8"-14-UNF-2B	50,3	17,3		27
C22610-12-12	16	-12	5/8"	1.1/16"-14-UNS-2B	50,3	18,8		32

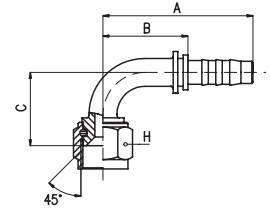


45° SAE FEMALE - 45° ELBOW
HEMBRA 45° SAE - CODO 45°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	H
C22640-04-04	5	-04	3/16"	7/16"-20-UNF-2B	68,2	48,5	12,0	15
C22640-06-06	8	-06	5/16"	5/8"-18-UNF-2B	73,7	47,7	15,5	19
C22640-08-08	10	-08	13/32"	3/4"-16-UNF-2B	82,3	54,3	16,5	22
C22640-10-10	12	-10	1/2"	7/8"-14-UNF-2B	95,3	62,3	19,5	27
C22640-12-12	16	-12	5/8"	1.1/16"-14-UNS-2B	97,0	65,5	20,5	32

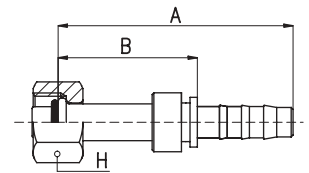
SAE J2064 TYPE B

45° SAE FEMALE - 90° ELBOW
HEMBRA 45° SAE - CODO 90°



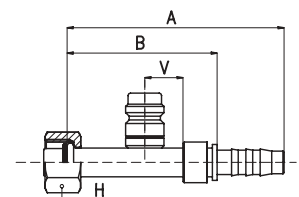
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C22690-04-04	5	-04	3/16"	7/16"-20-UNF-2B	52,2	32,5	26,0	15
C22690-06-06	8	-06	5/16"	5/8"-18-UNF-2B	57,0	31,0	29,5	19
C22690-08-08	10	-08	13/32"	3/4"-16-UNF-2B	64,5	36,5	31,5	22
C22690-10-10	12	-10	1/2"	7/8"-14-UNF-2B	74,5	41,5	38,5	27
C22690-12-12	16	-12	5/8"	1.1/16"-14-UNS-2B	78,5	47,0	49,5	32

STRAIGHT O-RING FEMALE
HEMBRA O-RING - RECTO

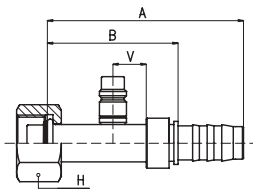


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	H	
C27910-06-06	8	-06	5/16"	5/8"-18-UNF-2B	64,0	38,0	19	
C27910-08-08	10	-08	13/32"	3/4"-16-UNF-2B	76,0	48,0	22	
C27910-10-10	12	-10	1/2"	7/8"-14-UNF-2B	86,5	53,5	27	
C27910-12-12	16	-12	5/8"	1.1/16"-14-UNS-2B	94,5	63,0	32	
C27910-16-12	22	-16	7/8"	1.1/16"-14-UNS-2B	97,5	64,5	32	

STRAIGHT O-RING FEMALE WITH HIGH PRESSURE VALVE
HEMBRA O-RING RECTA CON VALVULA DE ALTA PRESION

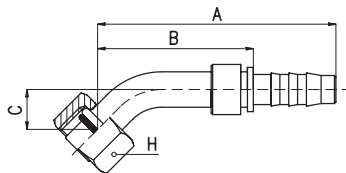


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	V ± 1	H
C27915-08-08	10	-08	13/32"	3/4"-16-UNF-2B	90.8	62.8	16,0	22
C27915-08-11	10	-08	13/32"	1"-14-UNS-2B	78.0	50.0	16,0	29
C27915-12-12	16	-12	5/8"	1.1/16"-14-UNS-2B	94.5	63.0	16,0	32



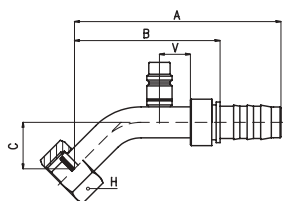
STRAIGHT O-RING FEMALE WITH LOW PRESSURE VALVE
HEMBRA O-RING - RECTO CON VALVULA DE BAJA PRESION

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	V ^{±1}	H
C27916-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	97,5	64,5	16,0	32



O-RING FEMALE - 45° ELBOW
HEMBRA O-RING - CODO 45°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	H
C27940-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	77,0	51,0	12,5	19
C27940-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	81,0	53,0	13,5	22
C27940-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	107,0	74,0	24,0	27
C27940-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	106,5	75,0	24,0	27
C27940-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	114,5	83,0	27,0	32
C27940-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	118,0	85,0	27,0	32

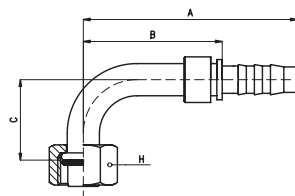


O-RING FEMALE - 45° ELBOW WITH LOW PRESSURE VALVE
HEMBRA O-RING - CODO 45° CON VÁLVULA DE BAJA PRESION

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	H1	H2
C27946-12-10	12	- 12	5/8"	7/8"-14-UNF-2B	106,5	75,0	24,0	16,0	27

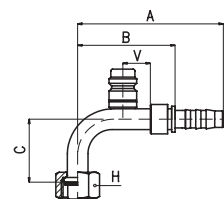
SAE J2064 TYPE B

O-RING FEMALE - 90° ELBOW HEMBRA O-RING - CODO 90°



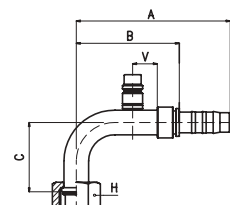
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C27990-06-06	8	-06	5/16"	5/8"-18-UNF-2B	69,0	43,0	24,0	19
C27990-06-06035	8	-06	5/16"	5/8"-18-UNF-2B	74,0	48,0	35,5	19
C27990-06-06060	8	-06	5/16"	5/8"-18-UNF-2B	68,8	42,8	60,0	19
C27990-08-08	10	-08	13/32"	3/4"-16-UNF-2B	80,0	52,0	30,0	22
C27990-10-10	12	-10	1/2"	7/8"-14-UNF-2B	100,0	67,0	45,0	27
C27990-12-10	16	-12	5/8"	7/8"-14-UNF-2B	99,5	68,0	45,0	27
C27990-12-12	16	-12	5/8"	1.1/16"-14-UNS-2B	104,0	72,5	54,5	32
C27990-16-10	22	-16	7/8"	7/8"-14-UNF-2B	104,0	70,0	45,0	27
C27990-16-12	22	-16	7/8"	1.1/16"-14-UNS-2B	107,0	74,0	54,5	32

O-RING FEMALE - 90° ELBOW WITH HIGH PRESSURE VALVE HEMBRA O-RING - CODO 90° CON VÁLVULA DE ALTA PRESION



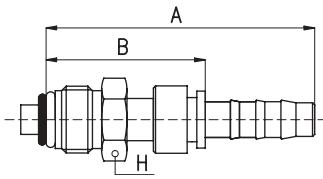
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	V ± 1	H
C27995-08-08	10	-08	13/32"	3/4"-16-UNF-2B	84,5	56,5	36,5	16,0	22
C27995-08-11	10	-08	13/32"	1"-14-UNS-2B	92,8	64,8	39,0	16,0	29

O-RING FEMALE - 90° ELBOW WITH LOW PRESSURE VALVE HEMBRA O-RING - CODO 90° CON VÁLVULA DE BAJA PRESION



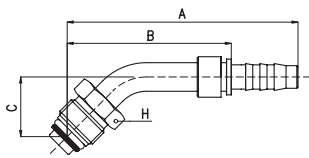
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	V ± 1	H
C27996-10-10	12	-10	1/2"	7/8"-14-UNF-2B	99,8	67,0	45,0	16,0	27

SAE J2064 TYPE B



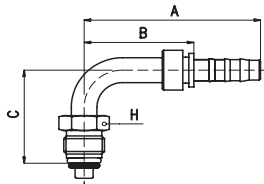
STRAIGHT O-RING MALE
MACHO O-RING - RECTO

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5		H
C18010-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	63,8	38,0		17
C18010-16-10	22	- 16	7/8"	7/8"-14-UNF-2B	85,0	54,5		22



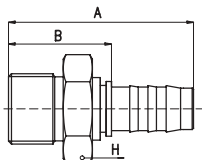
O-RING MALE - 45° ELBOW
MACHO O-RING - CODO 45°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C18040-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	83,5	57,5	21,5	17
C18040-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	11,5	78,5	28,5	22



O-RING MALE - 90° ELBOW
MACHO O-RING - CODO 90°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C18090-06-06	8	- 06	5/16"	5/8"-18-UNF-2A	69,0	43,0	37,5	17
C18090-06-06060	8	- 06	5/16"	5/8"-18-UNF-2A	69,0	42,8	60,0	17
C18090-10-10	12	- 10	1/2"	7/8"-14-UNF-2A	99,5	66,5	54,5	22
C18090-16-10	22	- 16	7/8"	7/8"-14-UNF-2A	102,0	69,0	54,5	22
C18090-16-10072	22	- 16	7/8"	7/8"-14-UNF-2A	102,0	69,0	72,0	22

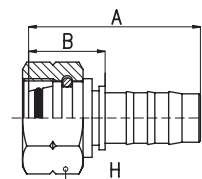


STRAIGHT MALE WITH O-RING SEAT
MACHO CON ASIENTO O-RING - RECTO

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5		H
C17910-06-06	8	- 06	5/16"	5/8"-18-UNF-2A	50,5	24,5		17
C17910-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2A	71,0	39,5		30

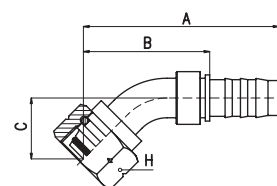
SAE J2064 TYPE B

STRAIGHT 24° DIN FLARE O-RING OGIVAL FEMALE HEMBRA O-RING OGIVA 24° DIN ABOCINADO - RECTO



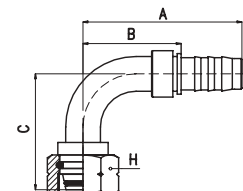
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5		H
C21510-16-30	22	- 16	7/8"	M 30x2	61,0	28,0		36
C21510-20-36	28	- 20	1.1/8"	M 36x2	74,5	30,5		41

24° DIN FLARE O-RING OGIVAL FEMALE - 45° ELBOW HEMBRA O-RING OGIVA 24° DIN ABOCINADO - CODO 45°



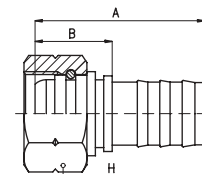
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C21540-16-30	22	- 16	7/8"	M 30x2	95,0	62,0	29,0	36
C21540-20-36	28	- 20	1.1/8"	M 36x2	118,5	74,5	34,5	41

24° DIN FLARE O-RING OGIVAL FEMALE - 90° ELBOW HEMBRA O-RING OGIVA 24° DIN ABOCINADO - CODO 90°

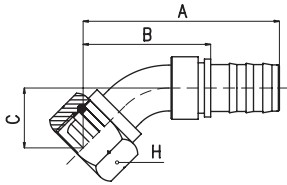


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C21590-16-30	22	- 16	7/8"	M 30x2	81,5	48,5	56,5	36
C21590-20-36	28	- 20	1.1/8"	M 36x2	105,0	61,0	69,5	41

STRAIGHT METRIC OGIVAL FEMALE HEMBRA METRICA A OGIVA - RECTO

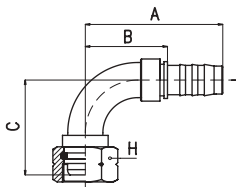


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5		H
C21510-12-26SC	16	- 12	5/8"	M 26x1.5	76,5	45,0		32
C21510-16-30SC	22	- 16	7/8"	M 30x2	60,0	27,5		36
C21510-20-36SC	28	- 20	1.1/8"	M 36x2	70,0	27,0		41



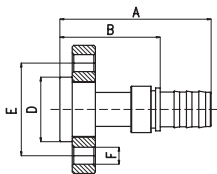
METRIC OGIVAL FEMALE - 45° ELBOW
HEMBRA METRICA A OGIVA - CODO 45°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C21540-12-26SC	16	- 12	5/8"	M 26x1.5	90,0	58,5	27,0	32
C21540-16-30SC	22	- 16	7/8"	M 30x2	94,0	61,0	28,5	36
C21540-20-36SC	28	- 20	1.1/8"	M 36x2	118,0	74,0	32,0	41



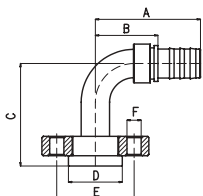
METRIC OGIVAL FEMALE - 90° ELBOW
HEMBRA METRICA A OGIVA - CODO 90°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C21590-12-26SC	16	- 12	5/8"	M 26x1.5	78,5	47,0	54,0	32
C21590-16-30SC	22	- 16	7/8"	M 30x2	81,5	48,5	56,0	36
C21590-20-36SC	28	- 20	1.1/8"	M 36x2	105,0	61,0	66,0	41



STRIGHT FLANGE FITTNG
FLANGE RECTO

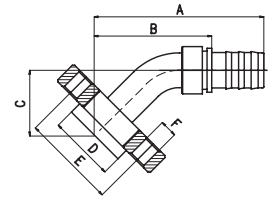
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	D	E	F
C23710-16-16	22	- 16	7/8"		98,0	65,0	41,8	60,0	Ø 11,0
C23710-20-16	28	- 20	1.1/8"		115,0	71,0	41,8	60,0	Ø 11,0



FLANGE FITTNG - 90° ELBOW
FLANGE - CODO 90°

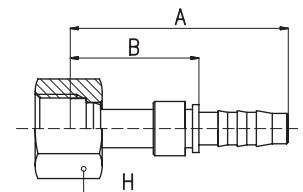
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm					
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	V ± 1	H1	H2
C23790-16-16	22	- 16	7/8"		81,5	48,5	79,5	41,8	60,0	Ø 11,0
C23790-20-16	28	- 20	1.1/8"		105,0	61,0	88,5	41,8	60,0	Ø 11,0

SAE J2064 TYPE B



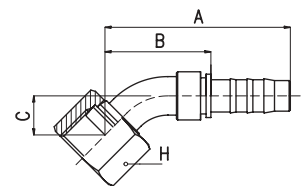
FLANGE FITTING - 45° ELBOW FLANGE - CODO 45°

INSERT CODE ONLY	HOSE SIZE				DIMENSIONS mm					
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	D	E	F
C23740-16-16	22	- 16	7/8"		107,1	74,6	41,7	41,8	60,0	Ø 11,0
C23740-20-16	28	- 20	1.1/8"		126,4	82,9	44,3	41,8	60,0	Ø 11,0



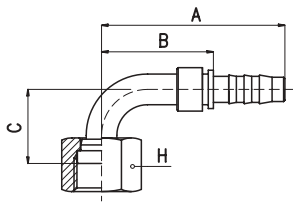
STRAIGHT ORS FLAT SEAL FEMALE HEMBRA ASIEN TO PLANO ORS - RECTO

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5		H
C22410-10-08	12	- 10	1/2"	13/16"-16-UN-2B	73,4	41,3		27
C22410-10-10	12	- 10	1/2"	1"-14-UNS-2B	84,0	51,0		30
C22410-16-16	22	- 16	7/8"	1.7/16"-12-UN-2B	108,5	75,5		41
C22410-20-20	28	- 20	1.1/8"	1.11/16"-12-UN-2B	119,0	75,0		50



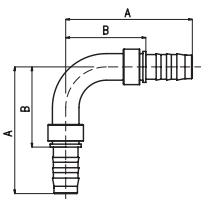
ORS FLAT SEAL FEMALE - 45° ELBOW HEMBRA ASIEN TO PLANO ORS - CODO 45°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
C22440-10-10	12	- 10	1/2"	1"-14-UNS-2B	77,0	44,0	16,0	30
C22440-16-16	22	- 16	7/8"	1.7/16"-12-UN-2B	106,5	73,5	40,5	41
C22440-20-20	28	- 20	1.1/8"	1.11/16"-12-UN-2B	115,0	71,0	25,5	50



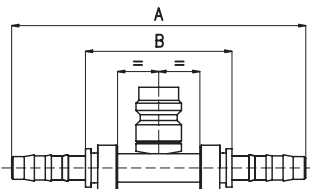
ORS FLAT SEAL FEMALE - 90° ELBOW
HEMBRA ASIENTO PLANO ORS - CODO 90°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	H
C22490-16-16	22	- 16	7/8"	1.7/16"-12-UN-2B	108,5	75,5	48,0	41
C22490-20-20	28	- 20	1.1/8"	1.11/16"-12-UN-2B	109,0	65,0	56,0	50



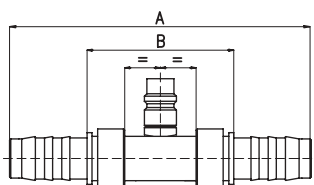
CONNECTION - 90° ELBOW
ACOPLE - CODO 90°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}		
C10090-06-06	8	- 06	5/16"		74,8	48,8		
C10090-16-16	22	- 16	7/8"		91,0	58,5		



STRAIGHT CONNECTION FITTING WITH HIGH PRESSURE VALVE
ACOPLE RECTO CON VALVULA DE ALTA PRESION

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}		
C10015-12-12	16	- 12	5/8"		122,0	57,5		

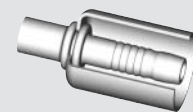


STRAIGHT CONNECTION FITTING WITH LOW PRESSURE VALVE
ACOPLE RECTO CON VALVULA DE BAJA PRESION

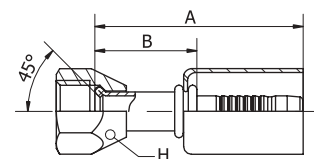
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}		
C10016-16-16	22	- 16	7/8"		142,5	76,0		

SAE J2064 TYPE A

HOSE SIZE			FERRULE EXTERNAL DIAMETER
DN	DASH	INCH	mm
8	- 06	5/16"	22,0
10	- 08	13/32"	22,0
12	- 10	1/2"	25,8
16	- 12	5/8"	28,4

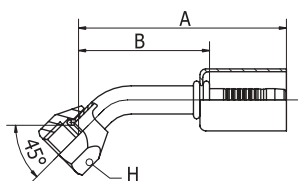


45° SAE STRAIGHT FEMALE HEMBRA 45° SAE RECTO



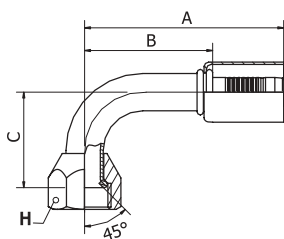
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch		A ± 2.5	B ± 2.5	H
OPC22610-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	53,2	26,0	19
OPC22610-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	58,7	28,5	22
OPC22610-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	60,7	30,0	27
OPC22610-12-12	16	- 12	5/8"	1.1/16"-14-UNS	94,3	59,5	32

SAE J2064 TYPE A



45° SAE FEMALE - 45° ELBOW
HEMBRA SAE 45° - CODO 45°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
OPC22640-06-06	8	-06	5/16"	5/8"-18-UNF-2B	73,7	46,5	12,5	19
OPC22640-08-08	10	-08	13/32"	3/4"-16-UNF-2B	84,7	54,5	15,0	22
OPC22640-10-10	12	-10	1/2"	7/8"-14-UNF-2B	114,5	83,8	26,5	27

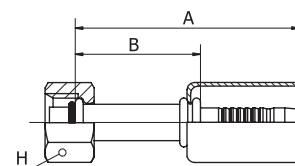


45° SAE FEMALE - 90° ELBOW
HEMBRA 45° SAE - CODO 90°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
OPC22690-06-06	8	-06	5/16"	5/8"-18-UNF-2B	69,2	42,0	26,0	19
OPC22690-08-08	10	-08	13/32"	3/4"-16-UNF-2B	75,2	45,0	35,0	22
OPC22690-10-10	12	-10	1/2"	7/8"-14-UNF-2B	85,7	55,0	41,0	27

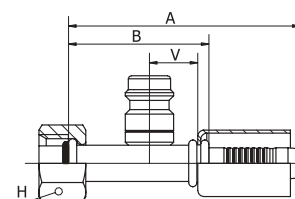
SAE J2064 TYPE A

STRAIGHT O-RING FEMALE HEMBRA O-RING RECTO



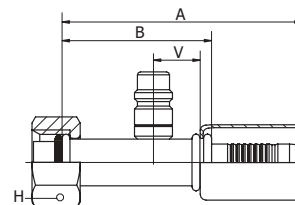
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch		A ± 2.5	B ± 2.5	H
OPC27910-06-06	8	-06	5/16"	5/8"-18-UNF-2B	61,2	34,0	19
OPC27910-08-08	10	-08	13/32"	3/4"-16-UNF-2B	66,2	36,0	22
OPC27910-08-11	10	-08	13/32"	1"-14-UNS-2B	65,7	35,5	29
OPC27910-10-10	12	-10	1/2"	7/8"-14-UNF-2B	67,7	37,0	27
OPC27910-10-10078	12	-10	1/2"	7/8"-14-UNF-2B	77,7	47,0	27
OPC27910-10-11	12	-10	1/2"	1"-14-UNS-2B	56,2	25,5	29
OPC27910-10-11076	12	-10	1/2"	1"-14-UNS-2B	76,2	45,5	29
OPC27910-12-10	16	-12	5/8"	7/8"-14-UNF-2B	68,96	39,6	27
OPC27910-12-10079	16	-12	5/8"	7/8"-14-UNF-2B	78,9	46,9	27
OPC27910-12-11	16	-12	5/8"	1"-14-UNS-2B	51,2	16,4	29
OPC27910-12-12	16	-12	5/8"	1.1/16"-14-UNS	67,8	33,0	32

STRAIGHT O-RING FEMALE WITH HIGH PRESSURE VALVE HEMBRA O-RING RECTO CON VALVULA DE ALTA PRESION

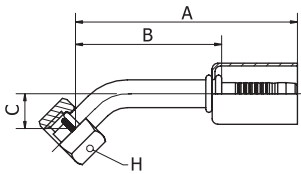


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	V ± 1	H
OPC27915-06-06	8	-06	5/16"	5/8"-18-UNF-2B	70,7	43,5	16,0	19
OPC27915-08-08	10	-08	13/32"	3/4"-16-UNF-2B	76,7	46,5	16,0	22
OPC27915-08-11	10	-08	13/32"	1"-14-UNS-2B	82,7	52,5	16,0	29

STRAIGHT O-RING FEMALE WITH LOW PRESSURE VALVE HEMBRA O-RING RECTO CON VALVULA DE BAJA PRESION

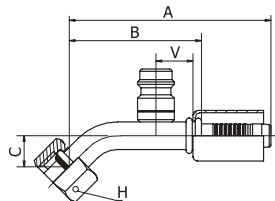


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	V ± 1	H
OPC27916-10-10	12	-10	1/2"	7/8"-14-UNF-2B	81,7	51	16,0	27
OPC27916-10-11	12	-10	1/2"	1"-14-UNS-2B	78,7	48	16,0	29



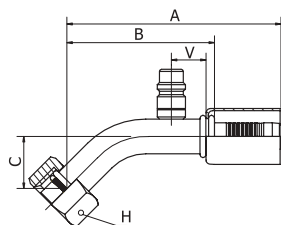
O-RING FEMALE - 45° ELBOW
HEMBRA O-RING - CODO 45°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	H
OPC27940-06-06	8	-06	5/16"	5/8"-18-UNF-2B	79,7	52,5	12,5	19
OPC27940-08-08	10	-08	13/32"	3/4"-16-UNF-2B	87,7	57,5	13,5	22
OPC27940-08-11	10	-08	13/32"	1"-14-UNS-2B	84,7	54,5	14,0	29
OPC27940-10-10	12	-10	1/2"	7/8"-14-UNF-2B	98,7	68,0	24,0	27
OPC27940-10-11	12	-10	1/2"	1"-14-UNS-2B	97,7	67,0	22,0	29
OPC27940-12-10	16	-12	5/8"	7/8"-14-UNF-2B	98,7	66,7	24,0	27



O-RING FEMALE WITH HIGH PRESSURE VALVE - 45° ELBOW
HEMBRA O-RING CON VÁLVULA DE ALTA PRESION - CODO 45°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	V ^{±1}	H
OPC27945-06-06	8	-06	5/16"	5/8"-18-UNF-2B	79,7	52,5	12,5	16,0	19
OPC27945-08-08	10	-08	13/32"	3/4"-16-UNF-2B	87,7	57,5	13,5	16,0	22
OPC27945-08-11	10	-08	13/32"	1"-14-UNS-2B	84,7	54,5	14,0	16,0	29

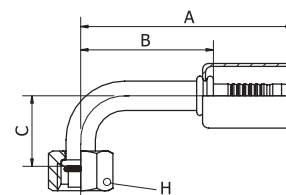


O-RING FEMALE WITH LOW PRESSURE VALVE - 45° ELBOW
HEMBRA O-RING CON VÁLVULA DE BAJA PRESION - CODO 45°

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ^{±2.5}	B ^{±2.5}	C ^{±2}	V ^{±1}	H
OPC27946-10-10	12	-10	1/2"	7/8"-14-UNF-2B	98,7	68,0	24,0	16,0	27
OPC27946-10-11	12	-10	1/2"	1"-14-UNS-2B	97,7	67,0	22,0	16,0	29

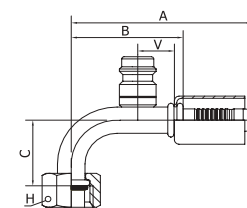
SAE J2064 TYPE A

O-RING FEMALE - 90° ELBOW HEMBRA O-RING - CODO 90°



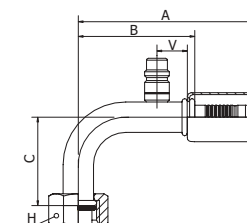
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
OPC27990-06-06	8	-06	5/16"	5/8"-18-UNF-2B	72,2	45	24,0	19
OPC27990-08-08	10	-08	13/32"	3/4"-16-UNF-2B	78,7	48,5	30,0	22
OPC27990-08-11	10	-08	13/32"	1"-14-UNS-2B	77,7	47,5	33,0	29
OPC27990-10-10	12	-10	1/2"	7/8"-14-UNF-2B	91,7	61,0	46,5	27
OPC27990-10-11	12	-10	1/2"	1"-14-UNS-2B	92,7	62,0	39,0	29
OPC27990-12-10	16	-12	5/8"	7/8"-14-UNF-2B	88,7	56,7	45,0	27
OPC27990-12-11	16	-12	5/8"	1"-14-UNS-2B	92,2	60,2	38,0	29
OPC27990-12-12	16	-12	5/8"	1.1/16"-14-UNS	102,8	68,0	54,5	32

O-RING FEMALE WITH HIGH PRESSURE VALVE - 90° ELBOW HEMBRA O-RING CON VÁLVULA DE ALTA PRESION - CODO 90°

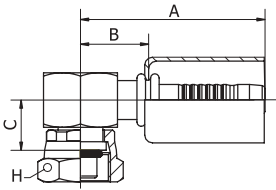


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	V ± 1	H
OPC27995-06-06	8	-06	5/16"	5/8"-18-UNF-2B	72,2	45,0	24,0	16,0	19
OPC27995-08-08	10	-08	13/32"	3/4"-16-UNF-2B	78,8	48,5	30,0	16,0	22
OPC27995-08-11	10	-08	13/32"	1"-14-UNS-2B	79,2	49,0	32,0	16,0	29

O-RING FEMALE WITH LOW PRESSURE VALVE - 90° ELBOW HEMBRA O-RING CON VÁLVULA DE BAJA PRESION - CODO 90°

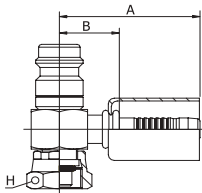


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	V ± 1	H
OPC27996-10-10	12	-10	1/2"	7/8"-14-UNF-2B	91,7	61,0	46,5	16,0	27
OPC27996-10-11	12	-10	1/2"	1"-14-UNS-2B	92,7	62,0	39,0	16,0	29



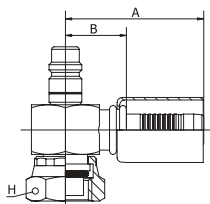
SHORT VERSION O-RING FEMALE HEMBRA O-RING TIPO CORTO

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
OPC27980-06-06	8	-06	5/16"	5/8"-18-UNF-2B	47,0	17,5	12,9	19
OPC27980-08-08	10	-08	13/32"	3/4"-16-UNF-2B	52,0	19,0	16,0	22
OPC27980-08-11	10	-08	13/32"	1"-14-UNS-2B	55,5	22,5	16,4	29
OPC27980-10-10	12	-10	1/2"	7/8"-14-UNF-2B	55,0	21,5	16,4	27
OPC27980-10-11	12	-10	1/2"	1"-14-UNS-2B	56,0	22,5	16,4	29
OPC27980-12-11	16	-12	5/8"	1"-14-UNS-2B	56,3	21,5	24,2	29



SHORT VERSION O-RING FEMALE WITH HIGH PRESSURE VALVE HEMBRA O-RING TIPO CORTO CON VÁLVULA DE ALTA PRESION

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
OPC27985-06-06	8	-06	5/16"	5/8"-18-UNF-2B	47,0	17,5	12,9	19
OPC27985-08-08	10	-08	13/32"	3/4"-16-UNF-2B	52,0	19,0	16,0	22
OPC27985-08-11	10	-08	13/32"	1"-14-UNS-2B	55,5	22,5	16,4	29

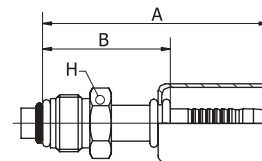


SHORT VERSION O-RING FEMALE WITH LOW PRESSURE VALVE HEMBRA O-RING TIPO CORTO CON VÁLVULA DE BAJA PRESION

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
OPC27986-10-10	12	-10	1/2"	7/8"-14-UNF-2B	55,0	21,5	16,4	27
OPC27986-10-11	12	-10	1/2"	1"-14-UNS-2B	56,0	22,5	16,4	29
OPC27986-12-11	16	-12	5/8"	1"-14-UNS-2B	56,3	21,5	24,2	29

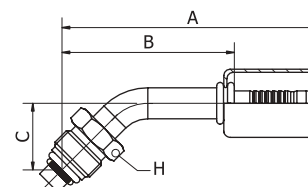
SAE J2064 TYPE A

STRAIGHT O-RING MALE MACHO O-RING RECTO



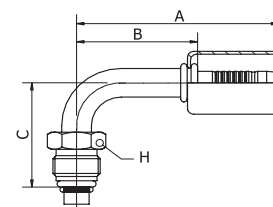
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch		A ± 2.5	B ± 2.5	H1
OPC18010-06-06	8	-06	5/16"	5/8"-18-UNF-2A	62,7	35,5	17
OPC18010-08-08	10	-08	13/32"	3/4"-18-UNS-2A	82,2	52,0	22
OPC18010-10-10	12	-10	1/2"	7/8"-18-UNS-2A	74,2	43,5	22
OPC18010-12-10	16	-12	5/8"	7/8"-18-UNS-2A	69,7	37,7	22

O-RING MALE - 45° ELBOW MACHO O-RING - CODO 45°

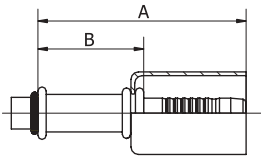


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
OPC18040-06-06	8	-06	5/16"	5/8"-18-UNF-2A	82,7	55,5	21,5	17
OPC18040-08-08	10	-08	13/32"	3/4"-18-UNS-2A	96,7	66,5	25,0	22
OPC18040-10-10	12	-10	1/2"	7/8"-18-UNS-2A	102,2	71,5	30,0	22
OPC18040-12-10	16	-12	5/8"	7/8"-18-UNS-2A	132,2	100,2	27,0	22

O-RING MALE - 90° ELBOW MACHO O-RING - CODO 90°

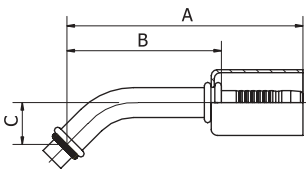


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2	H
OPC18090-06-06	8	-06	5/16"	5/8"-18-UNF-2A	67,7	40,5	36,5	17
OPC18090-08-08	10	-08	13/32"	3/4"-18-UNS-2A	78,7	48,5	48,0	22
OPC18090-10-10	12	-10	1/2"	7/8"-18-UNS-2A	86,7	56,0	54,5	22



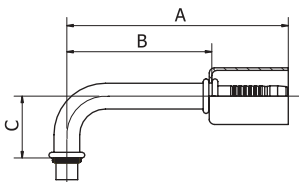
STRAIGHT FITTING FOR EXPANSION VALVE
RACOR RECTO PARA VALVULA DE EXPANSIÓN

INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm		
	DN	Dash	Inch	A ± 2.5	B ± 2.5	
OPC27610-06-14	8	- 06	5/16"	55,2	28,0	
OPC27610-10-23	12	- 10	1/2"	56,7	26,0	



FITTING FOR EXPANSION VALVE - 45° ELBOW
RACOR PARA VALVULA DE EXPANSION - CODO 45°

INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm		
	DN	Dash	Inch	A ± 2.5	B ± 2.5	C ± 2
OPC27640-06-14	8	- 06	5/16"	78,7	51,5	14,0
OPC27640-10-23	12	- 10	1/2"	98,7	68,0	18,5
OPC27640-12-23	16	- 12	5/8"	96,2	64,2	18,5

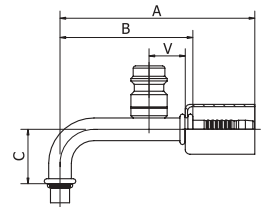


FITTING FOR EXPANSION VALVE - 90° ELBOW
RACOR PARA VALVULA DE EXPANSION - CODO 90°

INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm		
	DN	Dash	Inch	A ± 2.5	B ± 2.5	C ± 2
OPC27690-06-14	8	- 06	5/16"	85,7	58,5	24,0
OPC27690-10-23	12	- 10	1/2"	94,2	63,5	42,5

SAE J2064 TYPE A

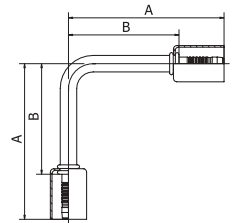
**FITTING FOR EXPANSION VALVE
WITH LOW PRESSURE VALVE - 90° ELBOW**
RACOR PARA VALVULA DE EXPANSION
CON VÁLVULA DE BAJA PRESION - CODO 90°



INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
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	DN	Dash	Inch		A±2.5	B±2.5	C±2	V±1
OPC27695-06-14	8	-06	5/16"		85,7	58,5	24,0	16,0

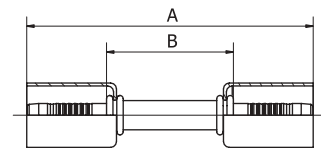
CONNECTION FITTING - 90° ELBOW
RACOR - CODO 90°



INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
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	DN	Dash	Inch		A±2.5	B±2.5	
OPC10090-06-06	8	-06	5/16"		94,3	67,1	
OPC10090-08-08	10	-08	13/32"		93,7	63,5	
OPC10090-10-10	12	-10	1/2"		98,1	67,4	

CONNECTION FITTING
RACOR



INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
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	DN	Dash	Inch		A±2.5	B±2.5	
OPC10010-06-06	8	-06	5/16"		97,4	43,0	
OPC10010-08-08	10	-08	13/32"		99,4	39,0	
OPC10010-10-10	12	-10	1/2"		101,4	40,0	
OPC10010-12-12	16	-12	5/8"		105,4	41,4	