

REFRIGERATION



Fluid connectors, solid solutions

m manuli®
HYDRAULICS

INTRODUCTION - PRODUCT RANGE

GB

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 the sales service Manuli Hydraulics network.



*Bus air conditioning
Aire acondicionado para buses
Klimatisierung von Bussen
Aria condizionata per bus*

ES

La oferta de Refrigeración consiste en las reconocidas mangueras de caucho reforzado Manuli, acoplos, 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 la red de ventas y servicio Manuli Hydraulics.



*Off highway air conditioning
Aire acondicionado para vehículos fuera de carretera
Klimatisierung von Land-, Forst und Baumaschinen
Aria condizionata per applicazioni off highway*

D

Das Kältemittelschlauch-Angebot besteht aus den wohlbekannten Manuli Gummischläuchen mit Einlage, Armaturen, Schlauchleitungen und einem Kit für Klima- und mobile Kühlanlagen.

Das Kältemittelschlauch-**Angebot** wurde entwickelt um die härtesten Anforderungen zu erfüllen in folgenden Bereichen:

- **Klimatisierung von Bussen** und **mobile Kühlsysteme** für den Einsatz in Straßenfahrzeugen.
- **Klimaanlagen** für Nicht-Straßenfahrzeuge wie Land-, Forst- und Baumaschinen, etc.

Die oben genannten Komponenten werden sowohl direkt an Hersteller mit entsprechendem Bedarf als auch von unsere Verkauf und Service Netzwerk Manuli Hydraulics.



*Mobile refrigeration
Refrigeración móvil
Mobile Kühlanhänger
Refrigerazione mobile*

IT

L'offerta Refrigeration è composta dalla gamma di tubi in gomma rinforzati, raccordi, assenati flessibili e kit per applicazioni aria condizionata e refrigerazione mobile.

L'**offerta** Refrigeration è studiata per soddisfare le richieste più esigenti relative allo sviluppo di:

- **sistemi aria condizionata** per veicoli "on-road" (bus) e sistemi per la **refrigerazione mobile**
- **sistemi aria condizionata** per veicoli "offhighway" (macchine agricole, macchine movimento terra, macchine forestali, ecc.).

Tali sistemi vengono forniti sia direttamente ai costruttori che necessitano di volumi significativi di prodotto sia tramite la rete di vendita e di servizio Manuli Hydraulics.

INTRODUCTION - FITTINGS

(GB)

Manuli Hydraulics, 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:

- Frigoclic® fitting range technology
- Reusable fitting range technology

Furthermore crimped fitting solution is completely integrated on all hose lines.

The appendix describes the main steps to assemble correctly our products.

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

Manuli Hydraulics supplies also full-equipped fittings (you can order 1 code receiving the insert plus the correspondent clamp/ferrule).

On demand fitting for special application can be manufactured (codesign with the custode will be very appreciate).

(ES)

Manuli Hydraulics, 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 la gama de racors Frigoclic®
- tecnología para la gama de racors reusables

Además la solución de racores prensados está integrado en todas las líneas de manguera.

El apéndice describe los pasos principales para ensamblar correctamente nuestros productos.

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

Manuli Hydraulics suministra también racores completos (usted puede pedir 1 referencia, recibiendo la espiga y el correspondiente casquillo/abrazadera).

A solicitud racores para aplicaciones especiales pueden ser fabricados (el codiseno con el cliente sera muy apreciado).

(D)

Manuli Hydraulics die Ihren Kunden stets den optimalen Service bieten möchte, hat eine spezielle vor Ort anwendbare Armaturen-Technologie entwickelt, im Speziellen:

- Frigoclic® Armaturen Technologie
- wiederverwendbare Armaturen Technologie (Schraubar-maturen).

Für alle Anwendungen die eine Verpressung erfordern, steht eine eigene Armaturen-Reihe zur Verfügung, voll integriert mit unseren Schlauch-Reihen.

Im Anhang finden Sie die Anleitung für die korrekte Montage unserer Produkte.

Bitte lesen Sie diese Seiten aufmerksam durch, bevor Sie in der Produktübersicht die für Sie am besten geeigneten Produkte auswählen.

Manuli Hydraulics liefert auch Komplettarmaturen (mit nur einer Teilenummer erhalten Sie Nippel und zugehörige Fassung komplett).

Auf Anfrage sonderarmaturen nach Kundenwunsch auf Anfrage erältlich.

(IT)

Da sempre orientato a fornire al Cliente il miglior servizio possibile, Manuli Hydraulics ha sviluppato una speciale tecnologia di raccordi "field-attachable" che consentono di effettuare in modo semplice le operazioni di montaggio e smontaggio sul veicolo, in particolare:

- tecnologia con raccordi tipo Frigoclic®
- tecnologia con raccordi tipo recuperabili.

Per tutte le applicazioni che non necessitano di tale funzione, è disponibile una gamma mirata di raccordi a pressare totalmente integrata su ogni linea di tubi.

Nell'appendice sono descritti i principali passi necessari per effettuare le corrette operazioni di assemblaggio.

Vi invitiamo a visionare tali procedure prima di consultare il catalogo e scegliere il prodotto più rispondente alle vostre necessità. Manuli Hydraulics fornisce anche raccordi completi (ordinando 1 codice si riceve l'inserto e la corrispondente boccola o fascetta).

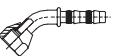
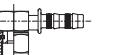
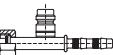
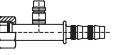
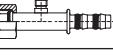
Su richiesta è possibile produrre raccordi per applicazioni speciali 8la progettazione in collaborazione col cliente è apprezzata).

HOSE	INSERT	CLAMP	FERRULE	ONE-PIECE
REFRIMASTER	FRIGOCЛИC (field attachable solution)	C01000	C00700	-
REFRIMASTER PLUS		C01050	C00750	-
REFRISTAR	STAR-FIT (reusable solution)	-	K00400	-
	STAR-CRIMP (crimped solution)	-	C00300	-
REFRIFAST	-	-	-	FAST-CRIMP (OPC serie)

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FRIGOCЛИC®

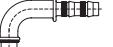
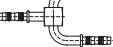
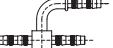
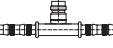
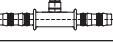
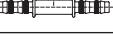
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C00750 	REFRIMASTER PLUS FERRULE CASQUILLO REFRIMASTER PLUS REFRIMASTER PLUS FASSUNG BOCCOLA REFRIMASTER PLUS	590
C01000 	REFRIMASTER CLAMP ABRAZADERA REFRIMASTER REFRIMASTER KLAMMER FASSETTA REFRIMASTER	590
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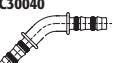
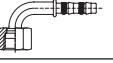
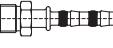
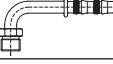
FITTINGS

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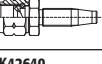
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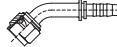
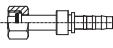
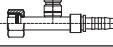
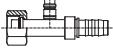
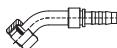
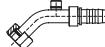
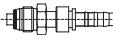
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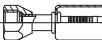
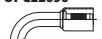
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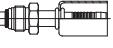
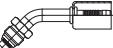
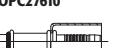
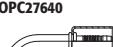
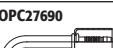
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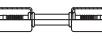
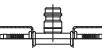
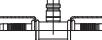
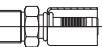
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PART. REF.	HOSE SIZE	O.D.	WORKING PRESSURE	BURST PRESSURE	MIN. BEND RADIUS	WEIGHT	REFRIMASTER FERRULE	REFRIMASTER CLAMP							
H09002008*	8	- 06	5/16"	12,7	0,50	35	500	250	3620	40,0	1,57	80	0,05	C00700-06	C01000-06
H09002010*	10	- 08	13/32"	16,0	0,63	35	500	250	3620	50,0	1,97	140	0,09	C00700-08	C01000-08
H09002013*	13	- 10	1/2"	18,1	0,71	35	500	150	2170	80,0	3,15	140	0,09	C00700-10	C01000-10
H09002016*	16	- 12	5/8"	21,7	0,85	35	500	150	2170	90,0	3,54	195	0,13	C00700-12	C01000-12

* See appendix, page 938 / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

	Universal hose, compatible with the most common refrigerants and compressor lubricants ■ Low permeability to refrigerant fluid ■ Compact dimensions ■ Low weight and high flexibility ■ 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 ■ Gama de raciones integrados con inserto Frigoclic® estandarizado	
Universalschlauch, kompatibel mit den gebräuchlichsten Kühlmitteln & Kompressorschmierstoffen ■ Geringe Kühlmittel-Durchlässigkeit ■ Kompakte Abmessungen ■ Geringes Gewicht und hohe Flexibilität ■ Zwei Alternativeinbindungen möglich, mit Schellen oder mit Pressfassung dank der Frigoclic® Armaturen	
Tubo universale, compatibile con i più comuni refrigeranti e lubrificanti per compressori ■ Bassa permeabilità a fluidi refrigeranti ■ Dimensioni compatte ■ Peso contenuto e flessibilità elevata ■ Disponibilità della doppia soluzione di raccordatura, con fascetta e con boccolla pressata, grazie ai raccordi Frigoclic®	

(GB)

MAIN APPLICATIONS: Air conditioning systems (Off-Highway machines, busses, ...). Mobile Refrigeration systems

CONTINUOUS WORKING TEMPERATURE:

-40°F / +257°F -40°C / +125°C

MAX. PEAK TEMPERATURE:

+284°F +140°C

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)

INSERT: FRIGOCPLIC®

TUBE: high temperature resistant thermoplastic (PA) veneer

REINFORCEMENT: one textile braid

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

SPECIFICATIONS: SAE J2064 Type E Class I

NOTE: Guaranteed performance only with Manuli fittings.

WARNING: Ask Manuli Hydraulics about other refrigerants and lubricants

(ES)

PRINCIPALES APPLICACIONES: Refrigeración móvil y sistemas de aire acondicionado en: bus, equipo fuera de carretera

TEMPERATURA DE TRABAJO CONTINUO:

-40°F / +257°F -40°C / +125°C

PICO MAXIMO DE TEMPERATURA:

+284°F +140°C

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)

ESPICA: FRIGOCPLIC®

TUBO: termoplástico resistente a las altas temperaturas (PA)

REFUERZO: una trenza textil

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

ESPECIFICACIONES: SAE J2064 Tipo E Clase I

NOTE: Comportamiento garantizado solamente con conexiones Manuli.

PRECAUCION: Pregunte a Manuli Hydraulics acerca de otros refrigerantes y lubricantes

(D)

HAUPTANWENDUNGEN: mobile Kühl- und Klimaanlagen in: Bussen, Baumaschinen

DAUERBETRIEBSTEMPERATUR:

-40°F / +257°F -40°C / +125°C

MAX. BETRIEBSTEMPERATUR (kurzzeitig):

+284°F +140°C

KÜHLMITTEL: beständig gegen ein weites Spektrum von Kühlmitteln (z.B. R134a, R404A, R407C)

SCHMIERMITTEL: beständig gegen die gebräuchlichsten Kompressorschmierstoffe (z.B. PAG, POE, Mineralöle)

NIPPEL: FRIGOCPLIC®

SEELE: hochtemperaturbeständiges Thermoplastik (PA)

DRUCKTRÄGER: ein Textilgeflecht

DECKE: Gegen hohe Temperaturen und Umwelteinflüsse beständiges, synthetisches Gummi (EPDM)

SPEZIFIKATIONEN: SAE J2064 Type E Class I

ANMERKUNG: Garantierte Performance nur mit unseren Armaturen.

WARNUNG: Bezuglich anderer Kühlmittel & Kompressorschmierstoffe fragen Sie bitte Manuli Hydraulics

(IT)

PRINCIPALI APPLICAZIONI: Refrigerazione mobile e impianti di A/C per autobus e macchine movimento terra (Off-Highway)

SPECTRO DI TEMPERATURA CONTINUA:

-40°F / +257°F -40°C / +125°C

PICCO DI TEMPERATURA MASSIMA:

+284°F +140°C

REFRIGERANTI: Compatibilità con un'ampia gamma di refrigeranti (e.g. R134a, R404A, R407C)

LUBRIFICANTI: Compatibilità con i più comuni lubrificanti per compressori, come PAG, POE e olii minerali

INSERTO: FRIGOCPLIC®

SOTTOSTRATO: termoplastico veneer (PA) resistente alle alte temperature

RINFORZO: una treccia tessile

COPERTURA: gomma sintetica resistente alle alte temperature (EPDM) e agli agenti ambientali

SPECIFICHE: SAE J2064 Type E Class I

NOTE: Prestazioni garantite solo con i raccordi Manuli.

AVVERTENZA: Chiedere a Manuli Hydraulics riguardo ad altri refrigeranti e lubrificanti



SAE J2064 TYPE E

PART. REF.	HOSE SIZE	O.D.	WORKING PRESSURE	BURST PRESSURE	MIN. BEND RADIUS	WEIGHT	REFRIMASTER PLUS FERRULE	REFRIMASTER PLUS CLAMP							
H09071013*	13	- 10	1/2"	20,4	0,80	35	500	150	2170	70,0	2,76	235	0,16	C00750-10	C01050-10
H09071016*	16	- 12	5/8"	23,8	0,94	35	500	150	2170	80,0	3,15	285	0,19	C00750-12	C01050-12
H09071022*	22	- 16	7/8"	31,0	1,22	35	500	150	2170	120,0	4,72	405	0,27	C00750-16	C01050-16

* See appendix, page 938 / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.



Universal hose, compatible with the most common refrigerants and compressor lubricants ■ Low permeability to refrigerant fluid
 ■ Field attachable and crimped solutions available with Frigoclic® insert ■ Small bending radius. Improved resistance to kinking effect

Manguera universal, compatible con los mas comunes refrigerantes y lubricantes para compresores ■ Baja permeabilidad al fluido refrigerante
 ■ Gama de racores integrados con inserto Frigoclic® estandarizado ■ Menor radio de curvatura. Mejor resistencia a la rotura por flexibilidad

Universalschlauch, kompatibel mit den gebräuchlichsten Kühlmitteln & Kompressorschmierstoffen ■ Geringe Kühlmittel Permeabilität ■ Zwei Alternativeinbindungen möglich, mit Schellen oder mit Pressfassung dank der Frigoclic® Armaturen ■ Kleiner Biegeradius. Verbesserter Knickeffektschutz

Tubo universale, compatibile con i più comuni refrigeranti e lubrificanti per compressori ■ Bassa permeabilità a fluidi refrigeranti ■ Disponibilità della doppia soluzione di raccordatura, con fascetta e con boccola pressata, grazie ai raccordi Frigoclic® ■ Ridotto raggio di curvatura: migliore resistenza allo schiacciamento

(GB)

MAIN APPLICATIONS: Air conditioning systems (Off-Highway machines, busses, ...). Mobile Refrigeration systems

CONTINUOUS WORKING TEMPERATURE:

-40°F / +257°F -40°C / +125°C

MAX. PEAK TEMPERATURE:

+284°F +140°C

REFRIGERANTS: Compatibility with a wide range of refrigerants (e.g. R134a, R404A, R407C)

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

INSERT: FRIGOCPLIC®

TUBE: high temperature resistant thermoplastic (PA) veneer

REINFORCEMENT: one textile braid

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

SPECIFICATIONS: SAE J2064 Type E Class I

NOTE: Guaranteed performance only with Manuli fittings.

WARNING: Ask Manuli Hydraulics about other refrigerants and lubricants

(ES)

PRINCIPALES APPLICACIONES: Refrigeración móvil y sistemas de aire acondicionado en: bus, equipo fuera de carretera

TEMPERATURA DE TRABAJO CONTINUO:

-40°F / +257°F -40°C / +125°C

PICO MAXIMO DE TEMPERATURA:

+284°F +140°C

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)

ESPICA: FRIGOCPLIC®

TUBO: termoplástico resistente a las altas temperaturas (PA)

REFUERZO: una trenza textil

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

ESPECIFICACIONES: SAE J2064 Tipo E Clase I

NOTE: Comportamiento garantizado solamente con conexiones Manuli.

PRECAUCION: Pregunte a Manuli Hydraulics acerca de otros refrigerantes y lubricantes

(D)

HAUPTANWENDUNGEN: Mobile Kühl- und Klimaanlagen in: Bussen, Baumaschinen

DAUERBETRIEBSTEMPERATUR:

-40°F / +257°F -40°C / +125°C

MAX. BETRIEBSTEMPERATUR (kurzzeitig):

+284°F +140°C

KÜHLMITTEL: Beständig gegen ein weites Spektrum von Kühlmitteln (z.B. R134a, R404A, R407C)

SCHMIERMITTEL: Beständig gegen die gebräuchlichsten Kompressorschmierstoffe (z.B. PAG, POE, Mineralöle)

NIPPEL: FRIGOCPLIC®

SEELE: hitzebeständige thermoplastische (PA) Umhüllung

DRUCKTRÄGER: Ein Textilgeflecht

DECKE: Gegen hohe Temperaturen und Umwelteinflüsse beständiges, synthetisches Gummi (EPDM)

SPEZIFIKATIONEN: SAE J2064 Typ E Class I

ANMERKUNG: Garantierte Performance nur mit unseren Armaturen.

WARNUNG: Bezuglich anderer Kühlmittel & Kompressorschmierstoffe fragen Sie bitte Manuli Hydraulics

(IT)

PRINCIPALI APPLICAZIONI: Refrigerazione mobile e impianti di A/C per autobus e macchine movimento terra (Off-Highway)

SPECTRO DI TEMPERATURA CONTINUA:

-40°F / +257°F -40°C / +125°C

PICCO DI TEMPERATURA MASSIMA:

+284°F +140°C

REFRIGERANTI: Compatibilità con un'ampia gamma di refrigeranti (e.g. R134a, R404A, R407C)

LUBRIFICANTI: Compatibilità con i più comuni lubrificanti per compressori, come PAG, POE e olii minerali

INSERTO: FRIGOCPLIC®

SOTTOSTRATO: termoplastico veneer (PA) resistente alle alte temperature

RINFORZO: una treccia tessile

COPERTURA: gomma sintetica resistente alle alte temperature e agli agenti ambientali (EPDM)

SPECIFICHE: SAE J2064 Type E Class I

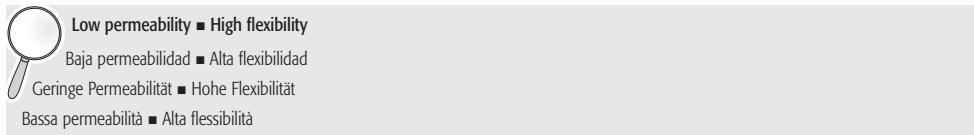
NOTE: Prestazioni garantite solo con i raccordi Manuli.

AVVERTENZA: Chiedere a Manuli Hydraulics riguardo ad altri refrigeranti e lubrificanti



PART. REF.	HOSE SIZE	O.D.	WORKING PRESSURE	BURST PRESSURE	MIN. BEND RADIUS	WEIGHT	STAR-FIT FERRULE (REUSABLE)	STAR-CRIMP FERRULE (CRIMPED)							
H01110005*	5	- 04	3/16"	13,0	0,51	35	500	150	2170	85	3,35	215	0,14	K00400-04	C00300-04
H01110008*	8	- 06	5/16"	17,2	0,68	35	500	150	2170	85	3,35	325	0,22	K00400-06	C00300-06
H01110010*	10	- 08	13/32"	19,3	0,76	35	500	150	2170	95	3,74	380	0,26	K00400-08	C00300-08
H01110012*	13	- 10	1/2"	23,4	0,92	35	500	150	2170	115	4,53	520	0,35	K00400-10	C00300-10
H01110016*	16	- 12	5/8"	27,3	1,07	35	500	150	2170	135	5,31	660	0,44	K00400-12	C00300-12
H01110022*	22	- 16	7/8"	31,2	1,23	35	500	150	2170	155	6,10	670	0,45	K00400-16	C00300-16
H01110028*	28	- 20	1.1/8"	38,0	1,50	35	500	150	2170	190	7,48	870	0,58	K00400-20	C00300-20
H01110035*	35	- 24	1.3/8"	44,8	1,76	35	500	150	2170	230	9,06	1200	0,81	K00400-24	

* See appendix, page 938 / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.



(GB)

MAIN APPLICATIONS: Bus and off-highway equipments air conditioning systems
CONTINUOUS WORKING TEMPERATURE: -40°F / +257°F -40°C / +125°C
REFRIGERANTS: R134a
LUBRICANTS: PAG, POE
 Ask Manuli Hydraulics about other refrigerants and lubricants

INSERT: star-fit (Patent pending); star-crimp
TUBE: (IIR) low permeability to refrigerant fluid and compatibility with the most common compressor lubricant
REINFORCEMENT: one steel wire braid
COVER: high temperature and environmental resistant synthetic rubber (CSM)
SPECIFICATIONS: SAE J2064 Type B Class I
TYPE APPROVALS: GOST-R

NOTE: Guaranteed performance only with Manuli fittings.

(ES)

PRINCIPALES APPLICACIONES: Sistemas de aire acondicionado en buses y equipo fuera de carretera
TEMPERATURA DE TRABAJO CONTINUO: -40°F / +257°F -40°C / +125°C
REFRIGERANTES: R134a
LUBRICANTES: PAG, POE
 Pregunte a Manuli Hydraulics acerca de otros refrigerantes y lubricantes

ESPIGA: star-fit (Patent pending); star-crimp
TUBO: (IIR) baja permeabilidad al fluido refrigerante y compatibilidad con los ms comunes lubricantes para compresor
REFUERZO: una trenza de acero
CUBIERTA: caucho sintético resistente a las altas temperaturas y al ambiente (CSM)
ESPECIFICACIONES: SAE J2064 Tipo B Clase I
APROBACIONES: GOST-R

NOTE: Comportamiento garantizado solamente con nuestras Manuli conexiones.

(D)

HAUPTANWENDUNGEN: Klimaanlagen in Bussen und Baumaschinen
DAUERBETRIEBSTEMPERATUR:
 -40°F / +257°F -40°C / +125°C
KÜHLMITTEL: R134a
SCHMIERMITTEL: PAG, POE
 Bezüglich anderer Kühlmittel & Kompressorschmierstoffe fragen Sie bitte Manuli Hydraulics

NIPPEL: star-fit (Patent angemeldet); star-crimp
SEELE: (IIR) geringe Kühlmittel-Durchlässigkeit, kompatibel mit den gebräuchlichsten Kühlmitteln & Kompressorschmierstoffen
DRUCKTRÄGER: ein Stahldrahtgeflecht
DECKE: Gegen hohe Temperaturen und Umwelteinflüsse beständiges, synthetisches Gummi (EPDM)
SPEZIFIKATIONEN: SAE J2064 Type B Class I
ZULASSUNGEN: GOST-R

ANMERKUNG: Garantierte Performance nur mit unseren Armaturen.

(IT)

PRINCIPALI APPLICAZIONI: Impianti di A/C per grandi bus e macchine movimento terra
SPECTRO DI TEMPERATURA CONTINUA:
 -40°F / +257°F -40°C / +125°C
REFRIGERANTI: R134a
LUBRIFICANTI: PAG, POE
 Chiedere a Manuli Hydraulics riguardo ad altri refrigeranti e lubrificanti

INSERTO: star-fit (Patent pending); star-crimp
SOTTOSTRATO: (IIR) bassa permeabilità ai fluidi refrigeranti e compatibilità con i più comuni lubrificanti per compressori
RINFORZO: una treccia in acciaio
COPERTURA: gomma sintetica resistente alle alte temperature e agli agenti ambientali (CSM)
SPECIFICHE: SAE J2064 Type B Class I
OMOLOGAZIONI: GOST-R

NOTE: Prestazioni garantite solo con i raccordi Manuli.



PART. REF.	HOSE SIZE	O.D.	WORKING PRESSURE	BURST PRESSURE	MIN. BEND RADIUS	WEIGHT	FITTING							
H09068008*	8	- 06	5/16"	15,5	0,61	35	500	150	2170	30	1,18	165	0,11	OPC-06
H09068010*	10	- 08	13/32"	18,0	0,71	35	500	150	2170	50	1,97	200	0,13	OPC-08
H09068012*	13	- 10	1/2"	20,0	0,79	35	500	150	2170	60	2,36	230	0,15	OPC-10
H09068016*	16	- 12	5/8"	23,5	0,93	35	500	150	2170	80	3,15	295	0,20	OPC-12

* See appendix, page 938 / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.



Higher compact dimensions within type A hoses and outside diameter comparable with reduced barrier hoses ■ Low weight ■ Easy installation in space constraints ■ High flexibility and low bend radius ■ Low refrigerants permeability and moisture ingressions

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 ■ Baja permeabilidad al refrigerante y al incremento de humedad

Sehr kompakte Abmessung innerhalb der Klimaschlüche Typ A und Außendurchmesser vergleichbar mit den Barrier-Schlüche mit geringerem Durchmesser ■ geringeres Gewicht ■ Einfachere Installation in engen Räumen ■ Hohe Flexibilität und geringer Biegeradius ■ Niedrige Durchlässigkeit gegenüber Kühlmittel und Feuchtigkeit

Dimensioni molto compatte all'interno della categoria dei tubi Type A e diametro esterno paragonabile a quello dei tubi barrier a sezione ridotta ■ Peso contenuto ■ Facilità di installazione in spazi ristretti ■ Flessibilità elevata e raggio di curvatura ridotto ■ Bassi valori di permeabilità ai refrigeranti e di ingresso dell'umidità

(GB)

MAIN APPLICATIONS: A/C system for off-highway vehicles, small/medium busses and special vehicles such as recreation vehicles and military vehicles.

CONTINUOUS WORKING TEMPERATURE:

-40°F / +257°F -40°C / +125°C

REFRIGERANTS: R134a

LUBRICANTS: PAG, POE

Ask Manuli Hydraulics about other refrigerants and lubricants

INSERT: fast-crimp

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

REINFORCEMENT: one textile braid

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

SPECIFICATIONS: SAE J2064 Type A Class I

NOTE: Guaranteed performance only with Manuli fittings.

(ES)

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

TEMPERATURA DE TRABAJO CONTINUO:

-40°F / +257°F -40°C / +125°C

REFRIGERANTES: R134a

LUBRICANTES: PAG, POE

Pregunte a Manuli Hydraulics acerca de otros refrigerantes y lubricantes

ESPICA: fast-crimp

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

REFUERZO: una trenza textil

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

ESPECIFICACIONES: SAE J2064 Tipo A Clase I

NOTE: Comportamiento garantizado solamente con nuestras Manuli conexiones.

(D)

HAUPTANWENDUNGEN: A/C Anlagen für Erdbewegungsmaschinen, kleine und mittlere Busse, Militärfahrzeuge

DAUERBETRIEBSTEMPERATUR:

-40°F / +257°F -40°C / +125°C

KÜHLMITTEL: R134a

SCHMIERMITTEL: PAG, POE

Bezüglich anderer Kühlmittel & Kompressorschmierstoffe fragen Sie bitte Manuli Hydraulics

NIPPEL: fast-crimp

SEELE: (IIR) geringe Kühlmittel-Durchlässigkeit, kompatibel mit den gebräuchlichsten Kühlmitteln und Kompressorschmierstoffen

DRUCKTRÄGER: ein Textilgeflecht

DECKE: Gegen hohen Temperaturen (max 125°C) und Umwelteinflüsse (Ozon) beständiges, synthetisches Gummi (EPDM)

SPEZIFAKATIONEN: SAE J2064 Type A Class I

ANMERKUNG: Garantierte Performance nur mit unseren Armaturen.

(IT)

PRINCIPALI APPLICAZIONI: impianti di A/C per macchine movimento terra, bus di piccole e medie dimensioni, veicoli speciali come veicoli per il tempo libero e veicoli militari.

SPIETTO DI TEMPERATURA CONTINUA:

-40°F / +257°F -40°C / +125°C

REFRIGERANTI: R134a

LUBRIFICANTI: PAG, POE

Chiedere a Manuli Hydraulics riguardo ad altri refrigeranti e lubrificanti

INSERTO: fast-crimp

SOTTOSTRATO: (IIR) bassa permeabilità ai refrigeranti e compatibilità con i più comuni lubrificanti per compressori

RINFORZO: una treccia tessile

COPERTURA: gomma sintetica (EPDM) resistente alle alte temperature (max 125°C) e agli agenti ambientali (resistenza all'ozono)

SPECIFICHE: SAE J2064 Type A Class I

NOTE: Prestazioni garantite solo con i raccordi Manuli.

FRIGOCЛИC® FITTINGS

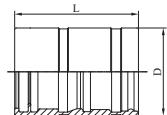
SAE J2064 TYPE E

REFRI[®] MASTER

REFRI[®] MASTER PLUS

C00700

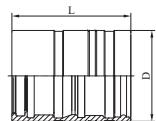
REFRIMASTER FERRULE
CASQUILLO REFRIMASTER
REFRIMASTER FASSUNG
BOCCOLA REFRIMASTER



PART. REF.	HOSE BORE				DIMENSIONS mm			
	DN	Dash	inch		D	L		
C00700-06	8	- 06	5/16"		19,5	39,6		
C00700-08	10	- 08	13/32"		22,5	40,3		
C00700-10	13	- 10	1/2"		25,0	40,3		
C00700-12	16	- 12	5/8"		29,0	41,0		

C00750

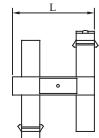
REFRIMASTER PLUS FERRULE
CASQUILLO REFRIMASTER PLUS
REFRIMASTER PLUS FASSUNG
BOCCOLA REFRIMASTER PLUS



PART. REF.	HOSE BORE				DIMENSIONS mm			
	DN	Dash	inch		D	L		
C00750-10	13	- 10	1/2"		27,5	40,3		
C00750-12	16	- 12	5/8"		31,3	41,0		
C00750-16	22	- 16	7/8"		38,0	48,5		

C01000

REFRIMASTER CLAMP
ABRAZADERA REFRIMASTER
REFRIMASTER KLAMMER
FASCETTA REFRIMASTER



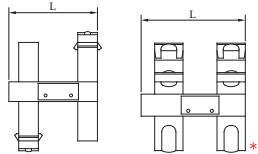
PART. REF.	HOSE BORE				DIMENSIONS mm			
	DN	Dash	inch		L			
C01000-06	8	- 06	5/16"		27,5			
C01000-08	10	- 08	13/32"		27,5			
C01000-10	13	- 10	1/2"		27,5			
C01000-12	16	- 12	5/8"		27,5			

REFRIMASTER®

REFRIMASTER® PLUS

FRIGOCЛИC® FITTINGS

SAE J2064 TYPE E

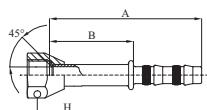


C01050

REFRIMASTER PLUS CLAMP
ABRAZADERA REFRIMASTER PLUS
REFRIMASTER PLUS KLAMMER
FASCETTA REFRIMASTER PLUS

PART. REF.	HOSE BORE			DIMENSIONS mm				
	DN	Dash	inch	L				
C01050-10	13	- 10	1/2"	27,5				
C01050-12	16	- 12	5/8"	27,5				
C01050-16	22	- 16	7/8"	33,1				

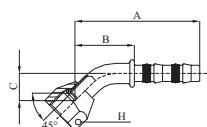
* For C01050-16 only / Solo para el código C01050-16 / Nur für C01050-16 / Valida solo per il codice C01050-16.



C42610

45° SAE STRAIGHT FEMALE
HEMBRA 45° SAE RECTO
45° SAE DICHTKOPF GERADE
FEMMINA 45° SAE - DRITTO

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	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	13	- 10	1/2"	3/4"-16-UNF-2B	84,0	45,4		22
C42610-10-10	13	- 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



C42640

45° SAE FEMALE 45° ELBOW
HEMBRA RECTA SAE CODO 45°
45° SAE DICHTKOPF - 45° BOGEN
FEMMINA 45° SAE - CURVA 45°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	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	13	- 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	95,7	57,1	26,5	32

FRIGOCЛИC® FITTINGS

REFRI[®] MASTER

REFRI[®] MASTER PLUS

SAE J2064 TYPE E

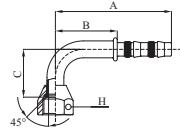
C42690

45° SAE FEMALE 90° ELBOW

HEMbra 45° SAE CODO 90°

45° SAE DICTKOPF - 90° BOGEN

FEMMINA 45° SAE - CURVA 90°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm		
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	DN	Dash	Inch	T	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	13	- 10	1/2"	3/4"-16-UNF-2B	86,0	47,4	34,0	22
C42690-10-10	13	- 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	85,1	46,5	53,0	32

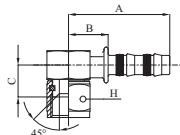
C42680

SHORT VERSION 45° SAE FEMALE 90° ELBOW

HEMbra 45° SAE TIPO CORTO CODO 90°

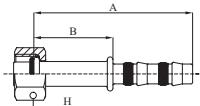
45° SAE DICTKOPF KURZE VERSION - 90° BOGEN

FEMMINA 45° SAE - TIPO CORTO - CURVA 90°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm		
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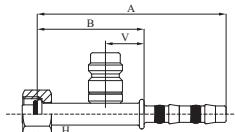
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H
C42680-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	63,0	24,5	20,0	27

**C47910**

STRAIGHT O-RING FEMALE
HMBRA O-RING RECTO
DICHTKOPF O-RING GERADE
FEMMINA O-RING - DRITTO

PART. REF.	HOSE SIZE		THREAD	DIMENSIONS mm		
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PART. REF.	DN	Dash	Inch	T	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	105,0	66,4	22
C47910-08-11	10	- 08	13/32"	1"-14-UNS-2B	86,0	44,4	25
C47910-10-08	13	- 10	1/2"	3/4"-16-UNF-2B	103,0	64,4	22
C47910-10-08103	13	- 10	1/2"	3/4"-16-UNF-2B	103,0	64,4	22
C47910-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	85,0	46,5	27
C47910-10-11	13	- 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
C47910-16-12	22	- 16	7/8"	1 1/16"-14-UNS-2B	104,5	58,4	32

**C47915**

STRAIGHT O-RING FEMALE WITH HIGH PRESSURE VALVE
HMBRA O-RING RECTO CON VÁLVULA DE ALTA PRESIÓN
DICHTKOPF O-RING GERADE MIT HOCHDRUCKVENTIL
FEMMINA O-RING - DRITTO CON VALVOLA ALTA PRESSIONE

PART. REF.	HOSE SIZE		THREAD	DIMENSIONS mm		
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PART. REF.	DN	Dash	Inch	T	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	13	- 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

FRIGOCЛИC® FITTINGS

SAE J2064 TYPE E

REFRI[®] MASTER

REFRI[®] MASTER PLUS

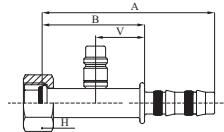
C47916

STRAIGHT O-RING FEMALE WITH LOW PRESSURE VALVE

HEMBA O-RING RECTO CON VÁLVULA DE BAJA PRESIÓN

DICHTKOPF O-RING GERADE MIT NIEDERDRUCKVENTIL

FEMMINA O-RING - DITTO CON VALVOLA BASSA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
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PART. REF.	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	H	V ^{±1}
C47916-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	95,0	56,4	27	27,0
C47916-10-11	13	- 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

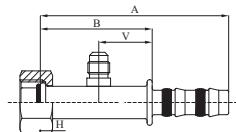
C47912

STRAIGHT O-RING FEMALE 1/4" SAE CHARGE VALVE

HEMBA O-RING RECTO CON VÁLVULA DE CARGA 1/4" SAE

DICHTKOPF O-RING GERADE MIT 1/4" SAE FÜLLVENTIL

FEMMINA O-RING - DITTO CON VALVOLA DI CARICA 1/4" SAE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
C47912-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	95,0	56,4	27,0	27

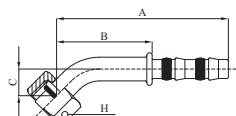
C47940

O-RING FEMALE 45° ELBOW

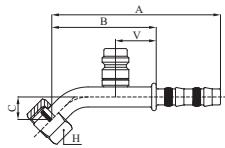
HEMBA O-RING CODO 45°

DICHTKOPF O-RING - 45° BOGEN

FEMMINA O-RING - CURVA 45°



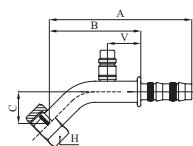
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
C47940-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	84,9	46,3	12,5	19
C47940-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	91,3	52,7	13,5	22
C47940-08-11	10	- 08	13/32"	1"-14-UNS-2B	106,0	67,4	22,0	25
C47940-10-08	13	- 10	1/2"	3/4"-16-UNF-2B	87,0	48,4	13,5	22
C47940-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	107,7	69,1	24,0	27
C47940-10-11	13	- 10	1/2"	1"-14-UNS-2B	105,2	67,3	22,0	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
C47940-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	124,9	78,8	27,0	32



C47945

O-RING FEMALE 45° ELBOW WITH HIGH PRESSURE VALVE
HEMbra O-RING CODO 45° CON VÁLVULA DE ALTA PRESIÓN
DICHTKOPF O-RING - 45° BOGEN MIT HOCHDRUCKVENTIL
FEMMINA O-RING - CURVA 45° CON VALVOLA ALTA PRESSIONE

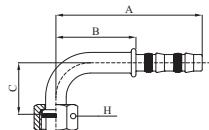
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H	V ^{±1}
C47945-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	101,3	62,7	13,5	22	24,4



C47946

O-RING FEMALE 45° ELBOW WITH LOW PRESSURE VALVE
HEMbra O-RING CODO 45° CON VÁLVULA DE BAJA PRESIÓN
DICHTKOPF O-RING - 45° BOGEN MIT NIEDERDRUCKVENTIL
FEMMINA O-RING - CURVA 45° CON VALVOLA BASSA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H	V ^{±1}
C47946-10-10	13	- 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



C47990

O-RING FEMALE 90° ELBOW
HEMbra O-RING CODO 90°
DICHTKOPF O-RING - 90° BOGEN
FEMMINA O-RING - CURVA 90°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	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	13	- 10	1/2"	3/4"-16-UNF-2B	90,5	51,9	36,5	22
C47990-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	104,0	65,4	45,0	27
C47990-10-11	13	- 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
C47990-16-10	22	- 16	7/8"	7/8"-14-UNF-2B	109,5	63,4	45,0	27

FRIGOCЛИC® FITTINGS

SAE J2064 TYPE E

REFRI[®] MASTER

REFRI[®] MASTER PLUS

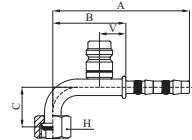
C47995

O-RING FEMALE 90° ELBOW WITH HIGH PRESSURE VALVE

HEMBA O-RING CODO 90° CON VÁLVULA DE ALTA PRESIÓN

DICHTKOPF O-RING - 90° BOGEN MIT HOCHDRUCKVENTIL

FEMMINA O-RING - CURVA 90° CON VALVOLA ALTA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	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	13	- 10	1/2"	3/4"-16-UNF-2B	90,5	51,9	36,5	22	26,0

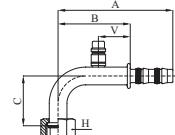
C47996

O-RING FEMALE 90° ELBOW WITH LOW PRESSURE VALVE

HEMBA O-RING CODO 90° CON VÁLVULA DE BAJA PRESIÓN

DICHTKOPF O-RING - 90° BOGEN MIT NIEDERDRUCKVENTIL

FEMMINA O-RING - CURVA 90° CON VALVOLA BASSA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H	V ^{±1}
C47996-10-10	13	- 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

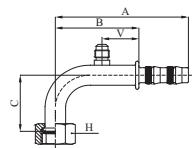
C47992

O-RING FEMALE 90° ELBOW WITH 1/4" SAE CHARGE VALVE

HEMBA O-RING CODO 90° CON VÁLVULA DE CARGA 1/4" SAE

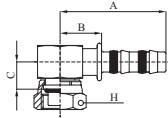
DICHTKOPF O-RING - 90° BOGEN MIT 1/4" SAE FULLVENTIL

FEMMINA O-RING - CURVA 90° CON VALVOLA DI CARICA 1/4" SAE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H	V ^{±1}
C47992-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	89,1	50,5	36,5	22	24,6
C47992-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	103,8	65,2	45,0	27	28,8

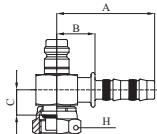
C47980



SHORT VERSION O-RING FEMALE 90° ELBOW
HEMbra O-RING TIPO CORTO CODO 90°
DICHTKOPF O-RING KURZE VERSION - 90° BOGEN
FEMMINA O-RING TIPO CORTO - CURVA 90°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H
C47980-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	61,5	23,0	16,0	22
C47980-08-11	10	- 08	13/32"	1"-14-UNS-2B	63,5	25,0	16,4	29
C47980-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	62,0	23,5	16,4	27
C47980-10-11	13	- 10	1/2"	1"-14-UNS-2B	63,0	24,5	16,4	29
C47980-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	63,0	24,5	16,4	27
C47980-12-11	16	- 12	5/8"	1"-14-UNS-2B	63,5	25,0	24,2	29

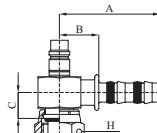
C47985



SHORT VERSION O-RING FEMALE 90° ELBOW WITH HIGH PRESSURE VALVE
HEMbra O-RING TIPO CORTO CODO 90° CON VÁLVULA DE ALTA PRESIÓN
DICHTKOPF O-RING KURZE VERSION - 90° BOGEN MIT HOCHDRUCKVENTIL
FEMMINA O-RING TIPO CORTO - CURVA 90° CON VALVOLA ALTA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H
C47985-08-11	10	- 08	13/32"	1"-14-UNS-2B	63,5	25,0	16,4	29

C47986



SHORT VERSION O-RING FEMALE 90° ELBOW WITH LOW PRESSURE VALVE
HEMbra O-RING TIPO CORTO CODO 90° CON VÁLVULA DE BAJA PRESIÓN
DICHTKOPF O-RING KURZE VERSION - 90° BOGEN MIT NIEDERDRUCKVENTIL
FEMMINA O-RING TIPO CORTO - CURVA 90° CON VALVOLA BASSA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H
C47986-10-11	13	- 10	12"	1"-14-UNS-2B	63,0	24,5	16,4	29
C47986-12-11	16	- 12	5/8"	1"-14-UNS-2B	63,5	25,0	24,2	25

FRIGOCЛИC® FITTINGS

SAE J2064 TYPE E

REFRI[®] MASTER

REFRI[®] MASTER PLUS

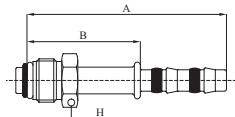
C38010

STRAIGHT O-RING MALE

MACHO O-RING RECTO

AUSSENGEWINDE O-RING GERADE

MASCHIO O-RING - DITTO



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch	T	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	13	- 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
C38010-16-10	22	- 16	7/8"	7/8"-18-UNS-2A	94,5	48,4	22

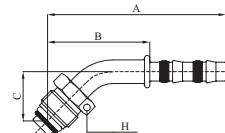
C38040

O-RING MALE 45° ELBOW

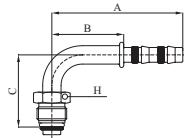
MACHO O-RING CODO 45°

AUSSENGEWINDE O-RING - 45° BOGEN

MASCHIO O-RING - CURVA 45°

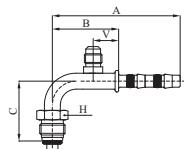


PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}
C38040-06-06	8	- 06	5/16"	5/8"-18-UNF-2A	92,7	54,1	21,5
C38040-08-06	10	- 08	13/32"	5/8"-18-UNF-2A	94,0	55,4	21,4
C38040-08-08	10	- 08	13/32"	3/4"-18-UNS-2A	100,9	62,3	25,0
C38040-10-10	13	- 10	1/2"	7/8"-18-UNS-2A	112,4	73,8	28,5
C38040-12-10	16	- 12	5/8"	7/8"-18-UNS-2A	113,0	74,4	28,5
C38040-12-12	16	- 12	5/8"	1.1/16"-16-UN-2A	123,0	84,3	33,4

**C38090**

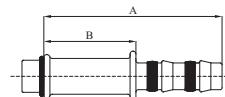
O-RING MALE 90° ELBOW
 MACHO O-RING CODO 90°
 AUSSENGEWINDE O-RING - 90° BOGEN
 MASCHIO O-RING - CURVA 90°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	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	13	- 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
C38090-16-10	22	- 16	7/8"	7/8"-18-UNS-2A	109,0	62,9	54,5	22

**C38092**

O-RING MALE 90° ELBOW WITH 1/4" SAE CHARGE VALVE
 MACHO O-RING CODO 90° CON VÁLVULA DE CARGA 1/4" SAE
 AUSSENGEWINDE O-RING - 90° BOGEN MIT 1/4" SAE FÜLLVENTIL
 MASCHIO O-RING - CURVA 90° CON VALVOLA DI CARICA 1/4" SAE

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

C47610

STRAIGHT FITTING FOR EXPANSION VALVE
 CONEXIÓN RECTA PARA VÁLVULA DE EXPANSIÓN
 ANSCHLUSS FÜR EXPANSIONSVENTIL GERADE
 RACCORDO DIRETTO PER VALVOLA D'ESPANSIONE

PART. REF.	HOSE SIZE				DIMENSIONS mm			
	DN	Dash	Inch		A ^{±2,5}	B ^{±2,5}		
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	13	- 10	1/2"		92,0	53,4		
C47610-12-12	16	- 12	5/8"		92,0	53,4		

FRIGOCЛИC® FITTINGS

SAE J2064 TYPE E

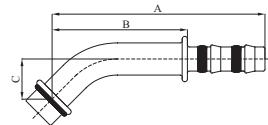
REFRI[®] MASTER

REFRI[®] MASTER PLUS

C47640

FITTING FOR EXPANSION VALVE 45° ELBOW

CONEXION PARA VÁLVULA DE EXPANSIÓN CODO 45°
ANSCHLUSS FÜR EXPANSIONVENTIL 45° BOGEN
RACCORDO PER VALVOLA D'ESPANSIONE CURVA 45°

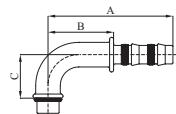


PART. REF.	HOSE SIZE				DIMENSIONS mm		
	DN	Dash	Inch		A ^{±2,5}	B ^{±2,5}	C ^{±2}
C47640-06-06	8	- 06	5/16"		105,0	66,4	14,0
C47640-10-12	13	- 10	1/2"		106,0	86,0	20,0
C47640-12-12	16	- 12	5/8"		115,9	77,3	27,0

C47690

FITTING FOR EXPANSION VALVE 90° ELBOW

CONEXION PARA VÁLVULA DE EXPANSIÓN CODO 90°
ANSCHLUSS FÜR EXPANSIONVENTIL 90° BOGEN
RACCORDO PER VALVOLA D'ESPANSIONE CURVA 90°



PART. REF.	HOSE SIZE				DIMENSIONS mm		
	DN	Dash	Inch		A ^{±2,5}	B ^{±2,5}	C ^{±2}
C47690-06-06	8	- 06	5/16"		93,9	55,3	22,0
C47690-10-10	13	- 10	1/2"		103,8	65,2	45,0
C47690-10-12	13	- 10	1/2"		104,3	65,7	41,5
C47690-12-12	16	- 12	5/8"		99,0	60,4	41,5

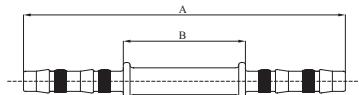
C30010

STRAIGHT CONNECTION FITTINGS

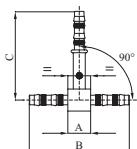
RACORES PARA CONEXION RECTOS

GERADER VERBINDE

GIUNZIONE DRTTA



PART. REF.	HOSE SIZE				DIMENSIONS mm		
	DN	Dash	Inch		A ^{±2,5}	B ^{±2,5}	
C30010-06-06	8	- 06	5/16"		120,0	42,8	
C30010-08-08	10	- 08	13/32"		124,0	47,0	
C30010-10-10	13	- 10	1/2"		124,0	47,0	
C30010-12-12	16	- 12	5/8"		124,0	47,0	
C30010-16-16	22	- 16	7/8"		151,0	58,8	



C300T0

3 WAYS CONNECTION FITTINGS

RACORES PARA CONEXION DE 3 VIAS

3 - WEGE VERBINDER

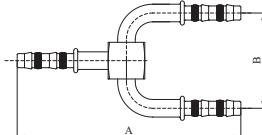
GIUNZIONE A TRE VIE

PART. REF.	HOSE SIZE 1			HOSE SIZE 2			HOSE SIZE 3			DIMENSIONS mm		
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PART. REF.	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"	13	- 10	1/2"	22,8	100,0	86,5
C300T0-08-10-10	13	- 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	13	- 10	1/2"	13	- 10	1/2"	13	- 10	1/2"	22,8	100,0	86,5
C300T0-10-10-12	13	- 10	1/2"	13	- 10	1/2"	16	- 12	5/8"	22,8	100,0	86,5
C300T0-10-12-12	16	- 12	5/8"	13	- 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	88,5



For clamp solution only / Unicamente para uso con abrazadera / Nur zur Anwendung mit Klemmen / Solo per applicazione fascetta



C300Y0

"Y" CONNECTION FITTING

CONEXION EN "Y"

„Y“ VERBINDER

GIUNZIONE A "Y"

PART. REF.	HOSE SIZE						DIMENSIONS mm		
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PART. REF.	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	



For clamp solution only / Unicamente para uso con abrazadera / Nur zur Anwendung mit Klemmen / Solo per applicazione fascetta

FRIGOCЛИC® FITTINGS

SAE J2064 TYPE E

REFRI[®] MASTER

REFRI[®] MASTER PLUS

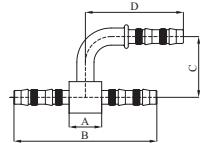
C300HO

"H" CONNECTION FITTINGS

CONEXION EN "H"

"H" VERBINDER

GIUNZIONE AD "H"



PART. REF.	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 ^{±2,5}
C300ho-06-06-10	08	- 06	5/16"	08	- 06	5/16"	13	- 10	1/2"	22,8	100,0	62,5	78,0
C300ho-08-08-08	10	- 08	13/32"	10	- 08	13/32"	10	- 08	13/32"	22,8	100,0	42,5	68,0
C300ho-08-08-06	10	- 08	13/32"	10	- 08	13/32"	08	- 06	5/16"	22,8	100,0	42,5	72,0
C300ho-06-10-06	13	- 10	1/2"	08	- 06	5/16"	08	- 06	5/16"	22,8	100,0	48,5	65,0
C300ho-10-10-06	13	- 10	1/2"	13	- 10	1/2"	08	- 06	5/16"	22,8	100,0	48,5	65,0
C300ho-10-10-12	13	- 10	1/2"	13	- 10	1/2"	16	- 12	5/8"	22,8	100,0	62,5	75,0
C300ho-10-12-10	16	- 12	5/8"	13	- 10	1/2"	13	- 10	1/2"	22,8	100,0	62,5	78,0
C300ho-12-12-10	16	- 12	5/8"	16	- 12	5/8"	13	- 10	1/2"	22,8	100,0	42,5	68,5
C300ho-12-12-12	16	- 12	5/8"	16	- 12	5/8"	16	- 12	5/8"	22,8	100,0	62,5	75,0

⚠ For clamp solution only / Unicamente para uso con abrazadera / Nur zur Anwendung mit Klemmen / Solo per applicazione fascetta

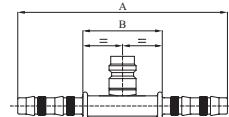
C30015

STRAIGHT CONNECTION FITTING WITH HIGH PRESSURE VALVE

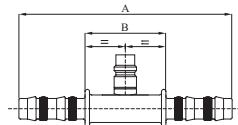
CONEXION RECTA CON VÁLVULA DE ALTA PRESIÓN

GERADER VERBINDER MIT HOCHDRUCKVENTIL

GIUNZIONE DRTTA CON VALVOLA DI ALTA PRESSIONE



PART. REF.	HOSE SIZE							DIMENSIONS mm			
	DN	Dash	Inch					A ^{±2,5}	B ^{±2,5}	C	
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	13	- 10	1/2"					124,0	47,0		
C30015-12-12	16	- 12	5/8"					124,0	47,0		

**C30016**

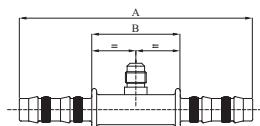
STRAIGHT CONNECTION FITTING WITH LOW PRESSURE VALVE

CONEXION RECTA CON VÁLVULA DE BAJA PRESIÓN

GERADER VERBINDER MIT NIEDERDRUCKVENTIL

GIUNZIONE DRTTA CON VALVOLA DI BASSA PRESSIONE

PART. REF.	HOSE SIZE			DIMENSIONS mm		
	DN	Dash	Inch	A ^{±2,5}	B ^{±2,5}	
C30016-10-10	13	- 10	1/2"	124,0	47,0	
C30016-12-12	16	- 12	5/8"	124,0	47,0	

**C30012**

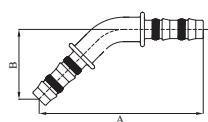
STRAIGHT CONNECTION FITTING 1/4" SAE CHARGE VALVE

CONEXION RECTA CON VÁLVULA DE CARGA 1/4" SAE

GERADER VERBINDER MIT 1/4" SAE FÜLLVENTIL

GIUNZIONE DRTTA CON VALVOLA DI CARICA 1/4" SAE

PART. REF.	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	13	- 10	1/2"	124,0	47,0	
C30012-12-12	16	- 12	5/8"	124,0	47,0	

**C30040**

CONNECTION FITTING 45° ELBOW

CONEXION CODO 45

VERBINDER - 45° BOGEN

GIUNZIONE - CURVA 45°

PART. REF.	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	13	- 10	1/2"	118,5	49,0	
C30040-12-12	16	- 12	5/8"	106,0	44,0	

FRIGOCЛИC® FITTINGS

SAE J2064 TYPE E

REFRI[®] MASTER

REFRI[®] MASTER PLUS

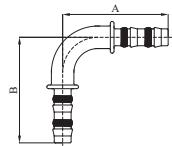
C30090

CONNECTION FITTING 90° ELBOW

CONEXION CODO 90°

VERBINDER - 90° BOGEN

GIUNZIONE - CURVA 90°



PART. REF.	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	13	- 10	1/2"		75,0	75,0	
C30090-12-12	16	- 12	5/8"		75,0	75,0	
C30090-16-16	22	- 16	7/8"		93,5	93,5	

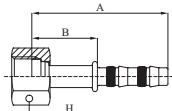
C42410

STRAIGHT ORS FLAT SEAL FEMALE

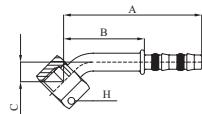
HEMBRA ORS ASIENTO PLANO RECTO

ORS DICHTKOPF FLACHDICHTEND

FEMMINA TENUTA FRONTALE ORS

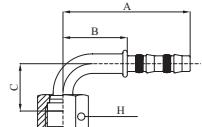


PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch		A ^{±2,5}	B ^{±2,5}	H
C42410-06-04	8	- 06	5/16"	9/16"-18-UNF-2B	72,0	33,4	19
C42410-06-06	8	- 06	5/16"	11/16"-16-UN-2B	70,0	31,4	22
C42410-08-08	10	- 08	13/32"	13/16"-16-UN-2B	74,5	35,9	27
C42410-10-08	10	- 08	13/32"	13/16"-16-UN-2B	74,5	35,9	27
C42410-10-10	13	- 10	1/2"	1"-14-UNS-2B	85,0	46,4	30
C42410-12-12	16	- 12	5/8"	1.5/16"-12-UN-2B	85,0	46,4	36
C42410-16-16	22	- 16	7/8"	1.7/16"-12-UN-2B	105,5	59,4	41

**C42440**

ORS FLAT SEAL FEMALE 45° ELBOW
HEMbra ORS ASIENTO PLANO CODO 45°
ORS DICHTKOPF FLACHDICHTEND - 45° BOGEN°
FEMMINA TENUTA FRONTALE ORS - CURVA 45°

PART. REF.	HOSE SIZE		THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	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	13	- 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

**C42490**

ORS FLAT SEAL FEMALE 90° ELBOW
HEMbra ORS ASIENTO PLANO CODO 90°
ORS DICHTKOPF FLACHDICHTEND - 90° BOGEN°
FEMMINA TENUTA FRONTALE ORS - CURVA 90°

PART. REF.	HOSE SIZE		THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	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	13	- 10	1/2"	13/16"-16-UN-2B	78,0	34,9	29,0	27
C42490-10-10	13	- 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
C42490-16-16	22	- 16	7/8"	1.7/16"-12-UN-2B	120,5	74,4	48,0	41

FRIGOCЛИC® FITTINGS

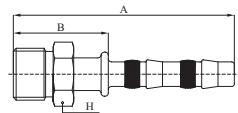
SAE J2064 TYPE E

REFRI[®] MASTER

REFRI[®] MASTER PLUS

C37910

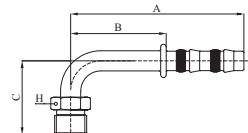
STRAIGHT MALE WITH O-RING SEAT
MACHO RECTO CON O-RING
AUSSENGEWINDE MIT O-RING SITZ GERADE
MASCHIO SEDE O-RING - DRITTO



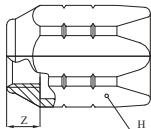
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	H
C37910-06-06	8	- 06	5/16"	5/8"-18-UNF-2A	67,7	29,1	17
C37910-08-10	10	- 08	13/32"	7/8"-14-UNF-2A	75,0	36,4	24
C37910-10-10	13	- 10	1/2"	7/8"-14-UNF-2A	77,8	36,6	24

C37990

MALE WITH O-RING SEAT 90° ELBOW
MACHO CON O-RING CODO 90°
AUSSENGEWINDE MIT O-RING SITZ - 90° BOGEN
MASCHIO SEDE O-RING - CURVA 90°



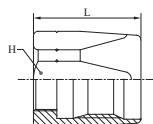
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	
C37990-08-06	10	- 08	13/32"	5/8"-18-UNF-2A	86,0	47,4	36,5	17
C37990-10-08	13	- 10	1/2"	3/4"-16-UNF-2A	87,0	48,4	41,5	22



CUT-OFF DIMENSION

HOSE BORE		DIMENSIONS mm	
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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



K00400

STAR-FIT FERRULE
STAR-FIT CASQUILLO
STAR-FIT FASSUNG
BOCCOLA STAR-FIT

PART. REF.	HOSE BORE			DIMENSIONS mm				
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	DN	Dash	inch		H	L			
K00400-04	5	- 04	3/16"		16	27,5			
K00400-06	8	- 06	5/16"		21	33,0			
K00400-08	10	- 08	13/32"		24	42,0			
K00400-10	13	- 10	1/2"		28	46,0			
K00400-12	16	- 12	5/8"		32	49,5			
K00400-16	22	- 16	7/8"		38	46,0			
K00400-20	28	- 20	1.1/8"		46	47,0			
K00400-24	35	- 24	1.3/8"		50	46,0			

STAR-FIT FITTINGS

REFRI[®] STAR

SAE J2064 TYPE B

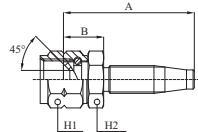
K42610

45° SAE STRAIGHT FEMALE

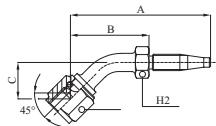
HEMBRA 45° SAE RECTO

45° SAE DICHTKOPF GERADE

FEMMINA 45° SAE - DRITTO



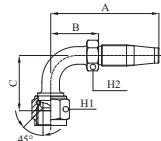
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	H ₁	H ₂
K42610-04-04	5	- 04	3/16"	7/16"-20-UNF-2B	41,0	14,0	15	15
K42610-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	50,5	15,5	19	19
K42610-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	59,0	18,0	22	22
K42610-10-08	13	- 10	1/2"	3/4"-16-UNF-2B	64,0	18,0	22	22
K42610-10-10	13	- 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
K42610-16-16H00	22	- 16	7/8"	1.5/16"-14-UNS-2B	61,5	14,5	38	


K42640

45° SAE FEMALE 45° ELBOW
HEMBRA 45° SAE CODO 45°
45° SAE DICHTKOPF - 45° BOGEN
FEMMINA 45° SAE - CURVA 45°

PART. REF.	HOSE SIZE		THREAD	DIMENSIONS mm			
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PART. REF.	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H ₁	H ₂
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	13	- 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


K42690

45° SAE FEMALE 90° ELBOW
HEMBRA 45° SAE CODO 90°
45° SAE DICHTKOPF - 90° BOGEN°
FEMMINA 45° SAE - CURVA 90°

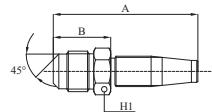
PART. REF.	HOSE SIZE		THREAD	DIMENSIONS mm			
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PART. REF.	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H ₁	H ₂
K42690-04-04	5	- 04	3/16"	7/16"-20-UNF-2B	55,0	28,0	25,5	15	12
K42690-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	72,5	37,5	30,5	19	15
K42690-08-06	10	- 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	13	- 10	1/2"	3/4"-16-UNF-2B	79,5	33,5	42,5	22	21
K42690-10-10	13	- 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

SAE J2064 TYPE B

K32610

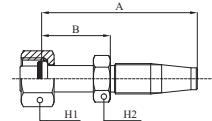
Straight 45° SAE Flare Male
 Macho Cónico 45° SAE Recto
 45° SAE Aussengewinde Gerade
 Maschio SVASATO 45° SAE - DRITTO



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	H ₁
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	13	- 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

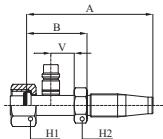
K47910

Straight O-Ring Female
 Hembra O-Ring Recto
 Dichtkopf O-Ring Gerade
 Femmina O-Ring - DRITTO



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

SAE J2064 TYPE B

**K47916**

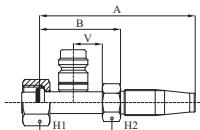
STRAIGHT O-RING FEMALE WITH LOW PRESSURE VALVE

HEMbra O-RING RECTO CON VÁLVULA DE BAJA PRESIÓN

DICHTKOPF O-RING GERADE MIT NIEDERDRUCKVENTIL

FEMMINA O-RING - DRITTO CON VALVOLA BASSA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	V ^{±1}	H ₁	H ₂
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

**K47915**

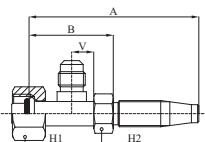
STRAIGHT O-RING FEMALE WITH HIGH PRESSURE VALVE

HEMbra O-RING RECTO CON VÁLVULA DE ALTA PRESIÓN

DICHTKOPF O-RING GERADE MIT HOCHDRUCKVENTIL

FEMMINA O-RING - DRITTO CON VALVOLA ALTA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	V ^{±1}	H ₁	H ₂
K47915-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	85,5	44,5	16,0	22	18

**K47912**

STRAIGHT O-RING FEMALE WITH 1/4" SAE CHARGE VALVE

HEMbra O-RING RECTO CON VÁLVULA DE CARGA 1/4" SAE

DICHTKOPF O-RING GERADE MIT 1/4" SAE FÜLLVENTIL

FEMMINA O-RING - DRITTO CON VALVOLA DI CARICA 1/4" SAE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	V ^{±1}	H ₁	H ₂
K47912-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	67,3	32,3	9,0	19	14

SAE J2064 TYPE B

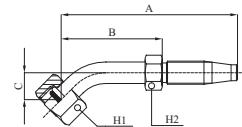
K47940

O-RING FEMALE 45° ELBOW

HEMBRA O-RING CODO 45°

DICHTKOPF O-RING - 45° BOGEN

FEMMINA O-RING - CURVA 45°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±0,10}	B ^{±0,10}	C ^{±0,08}	H ₁	H ₂
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	13	- 10	1/2"	3/4"-16-UNF-2B	95,5	49,5	13,5	22	21
K47940-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	117,0	71,0	24,0	27	21
K47940-10-11	13	- 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

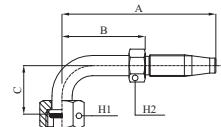
K47990

O-RING FEMALE 90° ELBOW

HEMBRA O-RING CODO 90°

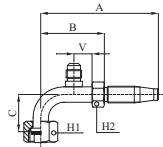
DICHTKOPF O-RING - 90° BOGEN

FEMMINA O-RING - CURVA 90°



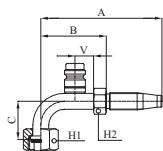
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±0,10}	B ^{±0,10}	C ^{±0,08}	H ₁	H ₂
K47990-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	74,0	39,0	24,0	19	14
K47990-08-06	10	- 08	13/32"	5/8"-18-UNF-2B	81,5	40,5	24,0	19	18
K47990-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	89,5	48,5	30,0	22	18
K47990-10-10	13	- 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

SAE J2064 TYPE B

**K47992**

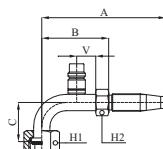
O-RING FEMALE 90° ELBOW WITH 1/4" SAE CHARGE VALVE
 HEMBRA O-RING CODO 90° CON VÁLVULA DE CARGA 1/4" SAE
 DICHTKOPF O-RING - 90° BOGEN MIT 1/4" SAE FÜLLVENTIL
 FEMMINA O-RING - CURVA 90° CON VALVOLA DI CARICA 1/4" SAE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm					
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	V ^{±1}	H ₁	H ₂
K47992-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	117,0	70,0	54,5	16,0	32	30

**K47995**

O-RING FEMALE 90° ELBOW WITH HIGH PRESSURE VALVE
 HEMBRA O-RING CODO 90° CON VÁLVULA DE ALTA PRESION
 DICHTKOPF O-RING - 90° BOGEN MIT HOCHDRUCKVENTIL
 FEMMINA O-RING - CURVA 90° CON VALVOLA ALTA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm					
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	V ^{±1}	H ₁	H ₂
K47995-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	94,0	53,0	36,5	16,0	22	18

**K47996**

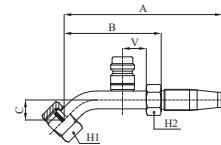
O-RING FEMALE 90° ELBOW WITH LOW PRESSURE VALVE
 HEMBRA O-RING CODO 90° CON VÁLVULA DE BAJA PRESION
 DICHTKOPF O-RING - 90° BOGEN MIT NIEDERDRUCKVENTIL
 FEMMINA O-RING - CURVA 90° CON VALVOLA BASSA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm					
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	V ^{±1}	H ₁	H ₂
K47996-10-10	13	- 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

SAE J2064 TYPE B

K47945

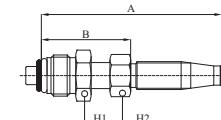
O-RING FEMALE 45° ELBOW WITH HIGH PRESSURE VALVE
 HEMBRA O-RING CODO 45° CON VÁLVULA DE ALTA PRESIÓN
 DICHTKOPF O-RING - 45° BOGEN MIT HOCHDRUCKVENTIL
 FEMMINA O-RING - CURVA 45° CON VALVOLA ALTA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm					
	DN	Dash	Inch		A ^{±2,5}	B ^{±2,5}	C ^{±2}	V ^{±1}	H ₁	H ₂
K47945-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	106,8	65,3	13,5	16,0	22	18

K38010

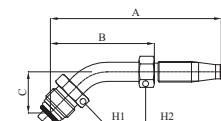
STRAIGHT O-RING MALE
 MACHO O-RING RECTO
 AUSSENGEWINDE O-RING GERADE
 MASCHIO O-RING - DRITTO



PART. REF.	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	13	- 10	1/2"	7/8"-18-UNS-2B	94,5	48,5	22	21		

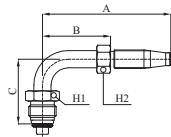
K38040

O-RING MALE 45° ELBOW
 MACHO O-RING CODO 45°
 AUSSENGEWINDE O-RING - 45° BOGEN
 MASCHIO O-RING - CURVA 45°



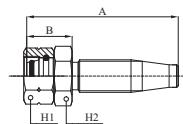
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm					
	DN	Dash	Inch		A ^{±2,5}	B ^{±2,5}	C ^{±2}	H ₁	H ₂	
K38040-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	89,5	54,5	21,5	17	14	
K38040-08-08	10	- 08	13/32"	3/4"-18-UNS-2B	106,5	65,5	25,0	22	18	
K38040-10-10	13	- 10	1/2"	7/8"-18-UNS-2B	121,5	75,5	28,5	22	21	

SAE J2064 TYPE B

**K38090**

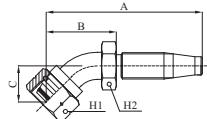
O-RING MALE 90° ELBOW
 MACHO O-RING CODO 90°
 AUSSENGEWINDE O-RING - 90° BOGEN
 MASCHIO O-RING - CURVA 90°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H ₁	H ₂
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	13	- 10	1/2"	7/8"-18-UNS-2B	109,0	63,0	54,5	22	21

K41510

STRAIGHT 24° DIN FLARE O-RING OGIVAL FEMALE
 HEMBRA O-RING OGIVA 24° DIN CÓNICO RECTO
 DICHTKOPF 24° DIN KONUS MIT O-RING GERADE
 FEMMINA O-RING OGIVA 24° DIN - DRITTO

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H ₁	H ₂
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	

K41540

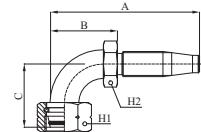
24° DIN FLARE O-RING OGIVAL FEMALE 45° ELBOW
 HEMBRA O-RING OGIVA 24° DIN CÓNICO CODO 45°
 DICHTKOPF 24° DIN KONUS MIT O-RING - 45° BOGEN°
 FEMMINA O-RING OGIVA 24° DIN - CURVA 45°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H ₁	H ₂
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

SAE J2064 TYPE B

K41590

24° DIN FLARE O-RING OGIVAL FEMALE 90° ELBOW
 HEMBRA O-RING OGIVA 24° DIN CÓNICO CODO 90°
 DICHTKOPF 24° DIN KONUS MIT O-RING 90° BOGEN°
 FEMMINA O-RING OGIVA 24° DIN - CURVA 90°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
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	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H ₁	H ₂
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

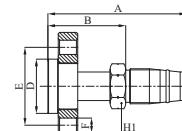
K43710

STRAIGHT FLANGE FITTING

BRIDA RECTA

FLANSCHARMATOR GERADE

RACCORDO DRITTO CON FLANGIA



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
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	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	V ^{±1}	H ₁	H ₂
K43710-16-16	22	- 16	7/8"		107,0	60,0	41,8	60,0	Ø 11,0	30
K43710-20-16	28	- 20	1 1/8"		110,5	64,5	41,8	60,0	Ø 11,0	36

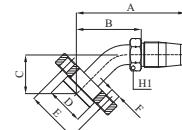
K43740

FLANGE FITTING 45° ELBOW

BRIDA 45°

FLANSCHARMATOR - 45° BOGEN

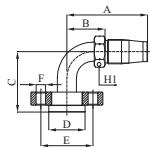
RACCORDO CON FLANGIA - CURVA 45°



PART. REF.	HOSE SIZE			DIMENSIONS mm					
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	DN	Dash	Inch	A ^{±2,5}	B ^{±2,5}	C ^{±2}	D	E	F	H ₁
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

SAE J2064 TYPE B

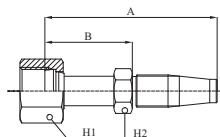
**K43790**

FLANGE FITTING 90° ELBOW

BRIDA 90°

FLANSCHARMATUR - 90° BOGEN
RACCORDO CON FLANGIA - CURVA 90°

PART. REF.	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
K43790-20-16079	28	- 20	1 1/8"	100,5	54,5	96,5	48,0	60,0	Ø 11,0	36

**K42410**

STRAIGHT ORS FLAT SEAL FEMALE

HEMBRA ASIENTO PLANO ORS RECTO

ORS DICHTKOPF FLACHDICHTEND

FEMMINA TENUTA FRONTALE ORS - DRITTO

PART. REF.	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	13	- 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
K42410-12-16079	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

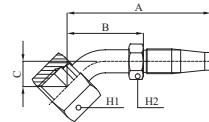
K42440

ORS FLAT SEAL FEMALE 45° ELBOW

HEMBA ASIENTO PLANO ORS CODO 45°

ORS DICHTKOPF FLACHDICHTEND - 45° BOGEN

FEMMINA TENUTA FRONTALE ORS - CURVA 45°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
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	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H ₁	H ₂
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	13	- 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

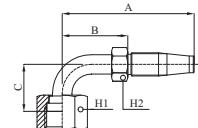
K42490

ORS FLAT SEAL FEMALE 90° ELBOW

HEMBA ASIENTO PLANO ORS CODO 90°

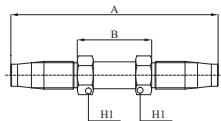
ORS DICHTKOPF FLACHDICHTEND - 90° BOGEN

FEMMINA TENUTA FRONTALE ORS - CURVA 90°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
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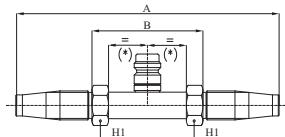
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H ₁	H ₂
K42490-04-04	5	- 04	3/16"	9/16"-18-UNF-2B	50,5	23,5	22,5	19	12
K42490-06-06	8	- 06	5/16"	11/16"-16-UN-2B	62,5	27,5	25,5	22	14
K42490-08-08	10	- 08	13/32"	13/16"-16-UN-2B	81,5	40,5	29,0	27	18
K42490-10-10	13	- 10	1/2"	1"-14-UNS-2B	83,5	37,5	36,0	30	21
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

**K30010**

STRAIGHT CONNECTION FITTING
RACOR RECTO
GERADER VERBINDER
GIUNZIONE DRTTA

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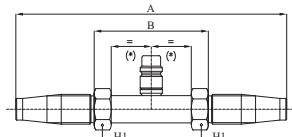
PART. REF.	DN	Dash	Inch	A ^{±2,5}	B ^{±2,5}	H1
K30010-04-04	5	- 04	3/16"	89,0	35,0	12
K30010-06-06	8	- 06	5/16"	115,0	45,0	14
K30010-08-08	10	- 08	13/32"	128,0	46,0	18
K30010-10-10	13	- 10	1/2"	141,0	49,0	21
K30010-12-12	16	- 12	5/8"	154,5	55,5	24
K30010-16-16	22	- 16	7/8"	145,0	51,0	30
K30010-20-20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

**K30015**

STRAIGHT CONNECTION FITTING WITH HIGH PRESSURE VALVE
RACOR RECTO CON VÁLVULA DE ALTA PRESIÓN
GERADER VERBINDER MIT HOCHDRUCKVENTIL
GIUNZIONE DRTTA CON VALVOLA ALTA PRESSIONE

PART. REF.	HOSE SIZE			DIMENSIONS mm		
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PART. REF.	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	13	- 10	1/2"	159,0	67,0	21

**K30016**

STRAIGHT CONNECTION FITTING WITH LOW PRESSURE VALVE
RACOR RECTO CON VÁLVULA DE BAJA PRESIÓN
GERADER VERBINDER MIT NIEDERDRUCKVENTIL
GIUNZIONE DRTTA CON VALVOLA BASSA PRESSIONE

PART. REF.	HOSE SIZE			DIMENSIONS mm		
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PART. REF.	DN	Dash	Inch	A ^{±2,5}	B ^{±2,5}	H1
K30016-10-10	13	- 10	1/2"	159,0	67,0	21
K30016-12-12	16	- 12	5/8"	181,0	82,0	24

SAE J2064 TYPE B

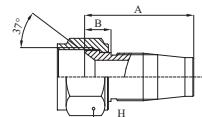
K42510

JIC 37° STRAIGHT FEMALE FITTING

HEMBRA JIC 37° RECTO

GERADER EINSCHRAUBER JIC 37°

FEMMINA JIC 37° - DRITTO



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	H ₁	H ₂
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	

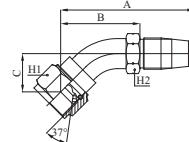
K42540

JIC 37° FEMALE FITTING 45° ELBOW

HEMBRA JIC 37° CODO 45°

EINSCHRAUBER JIC 37° - 45° WINKELADAPTER

FEMMINA JIC 37° - CURVA 45°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H ₁	H ₂
K42540-16-16	22	- 16	7/8"	1.5/16"-12-UNF-2B	115,5	68,5	33,0	38	30

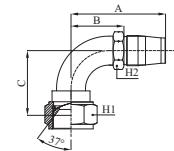
K42590

JIC 37° FEMALE FITTING 90° ELBOW

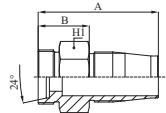
HEMBRA JIC 37° CODO 90°

DICHTKOPF JIC 37° - 90° BOGEN

FEMMINA JIC 37° - CURVA 90°



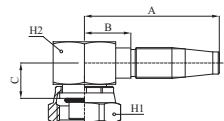
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H ₁	H ₂
K42590-16-16	22	- 16	7/8"	1.5/16"-12-UNF-2B	101,5	54,5	67,5	38	30
K42590-20-20	28	- 20	1.1/8"	1.5/8"-12-UNF-2B	104,5	58,5	71,5	50	36



K31110

STRAIGHT 24° MALE DIN
MACHO 24° DIN RECTO
AUSSENGEWINDE 24° DIN GERADE
MASCHIO 24° DIN - DRITTO

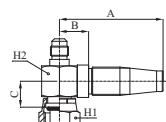
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	H ₁	
K31110-16-30	22	- 16	7/8"	M 30x2	71,0	24,0	32	



K47980

SHORT VERSION O-RING FEMALE 90° ELBOW
HEMBRA O-RING TIPO CORTO CODO 90°
DICHTKOPF O-RING KURZE VERSION - 90° BOGEN
FEMMINA O-RING TIPO CORTO - CURVA 90°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H ₁	H ₂
K47980-08-11	10	- 08	13/32"	1"-14-UNF-2B	62,5	21,5	16,4	29	29
K47980-10-11	13	- 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



K47982

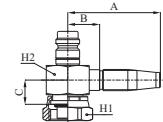
SHORT VERSION O-RING FEMALE 90° ELBOW WITH 1/4" SAE CHARGE VALVE
HEMBRA O-RING TIPO CORTO CODO 90° CON VÁLVULA DE CARGA 1/4" SAE
DICHTKOPF O-RING KURZE VERSION - 90° BOGEN MIT 1/4" SAE FÜLLVENTIL
FEMMINA O-RING TIPO CORTO - CURVA 90° CON VALVOLA DI CARICA 1/4" SAE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H ₁	H ₂
K47982-10-08	13	- 10	1/2"	3/4"-16-UNF-2B	64,0	18,0	16,0	22	22
K47982-10-11	13	- 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

SAE J2064 TYPE B

K47985

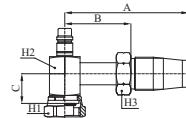
SHORT VERSION O-RING FEMALE 90° ELBOW WITH HIGH PRESSURE VALVE
 HEMBRA O-RING TIPO CORTO CODO 90° CON VÁLVULA DE ALTA PRESIÓN
 DICHTKOPF O-RING KURZE VERSION - 90° BOGEN MIT HOCHDRUCKVENTIL
 FEMMINA O-RING TIPO CORTO - CURVA 90° CON VALVOLA ALTA PRESSIONE



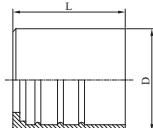
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ^{±2,5}	B ^{±2,5}	C ^{±2}	H ₁	H ₂
K47985-08-11	10	- 08	13/32"	1"-14-UNS-2B	21,5	62,5	16,4	29	29
K47985-12-11	16	- 12	5/8"	1"-14-UNS-2B	24,0	75,5	24,2	29	25

K47986

SHORT VERSION O-RING FEMALE 90° ELBOW WITH LOW PRESSURE VALVE
 HEMBRA O-RING TIPO CORTO CODO 90° CON VÁLVULA DE BAJA PRESIÓN
 DICHTKOPF O-RING KURZE VERSION - 90° BOGEN MIT NIEDERDRUCKVENTIL
 FEMMINA O-RING TIPO CORTO - CURVA 90° CON VALVOLA BASSA PRESSIONE



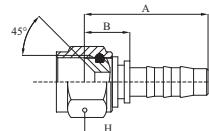
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ^{±2,5}	B ^{±2,5}	C ^{±2}	H ₁	H ₂
K47986-12-11	16	- 12	5/8"	1"-14-UNS-2B	24,0	75,5	24,2	29	25
K47986-16-11	22	- 16	7/8"	1"-14-UNS-2B	54,0	101,0	24,2	29	25

**C00300**

STAR-CRIMP FERRULE
CASQUILLO STAR-CRIMP
STAR-CRIMP FASSUNG
BOCCOLA STAR-CRIMP

PART. REF.	HOSE BORE		DIMENSIONS mm				
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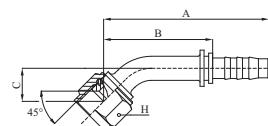
PART. REF.	DN	Dash	inch		D	L		
C00300-04	5	- 04	3/16"		18,0	24,3		
C00300-06	8	- 06	5/16"		23,0	30,3		
C00300-08	10	- 08	13/32"		25,0	32,3		
C00300-10	13	- 10	1/2"		29,0	37,3		
C00300-12	16	- 12	5/8"		34,0	37,3		
C00300-16	22	- 16	7/8"		38,0	39,5		
C00300-20	28	- 20	1.1/8"		46,0	51,0		

**C22610**

45° SAE STRAIGHT FEMALE
HEMBRA 45° SAE RECTO
45° SAE DICHTKOPF GERADE
FEMMINA 45° SAE - DRITTO

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm		
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PART. REF.	DN	Dash	Inch	T	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	13	- 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

**C22640**

45° SAE FEMALE 45° ELBOW
HEMBRA 45° SAE CODO 45°
45° SAE DICHTKOPF - 45° BOGEN
FEMMINA 45° SAE - CURVA 45°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm		
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PART. REF.	DN	Dash	Inch	T	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	13	- 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	108,0	65,5	20,5	32

STAR-CRIMP FITTINGS

REFRI  **STAR**

SAE J2064 TYPE B

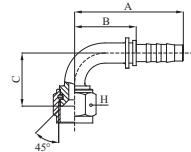
C22690

45° SAE FEMALE 90° ELBOW

HEMBRA 45° SAE CODO 90°

45° SAE DICHTKOPF - 90° BOGEN

FEMMINA 45° SAE - CURVA 90°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
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PART. REF.	DN	Dash	Inch	T	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	13	- 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

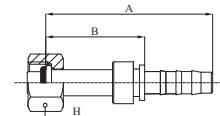
C27910

STRAIGHT O-RING FEMALE

HEMBRA O-RING RECTO

DICHTKOPF O-RING GERADE

FEMMINA O-RING - DRITTO



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
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PART. REF.	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	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	13	- 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	

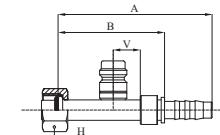
C27915

STRAIGHT O-RING FEMALE WITH HIGH PRESSURE VALVE

HEMBRA O-RING RECTA CON VÁLVULA DE ALTA PRESIÓN

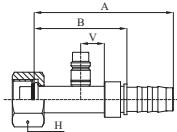
DICHTKOPF O-RING GERADE MIT HOCHDRUCKVENTIL

FEMMINA O-RING - DRITTO CON VALVOLA ALTA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
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PART. REF.	DN	Dash	Inch	T	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

**C27916**

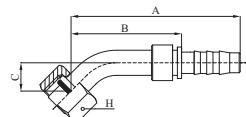
STRAIGHT O-RING FEMALE WITH LOW PRESSURE VALVE

HEMbra O-RING RECTO CON VÁLVULA DE BAJA PRESIÓN

DICHTKOPF O-RING GERADE MIT NIEDERDRUCKVENTIL

FEMMINA O-RING - DITTO CON VALVOLA BASSA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	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

**C27940**

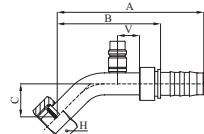
O-RING FEMALE 45° ELBOW

HEMbra O-RING CODO 45°

DICHTKOPF O-RING - 45° BOGEN

FEMMINA O-RING - CURVA 45°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	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	13	- 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

**C27946**

O-RING FEMALE 45° ELBOW WITH LOW PRESSURE VALVE

HEMbra O-RING CODO 45° CON VÁLVULA DE BAJA PRESIÓN

DICHTKOPF O-RING - 45° BOGEN MIT NIEDERDRUCKVENTIL

FEMMINA O-RING - CURVA 45° CON VALVOLA BASSA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H ₁	H ₂
C27946-12-10	13	- 12	5/8"	7/8"-14-UNF-2B	106,5	75,0	24,0	16,0	27

STAR-CRIMP FITTINGS

REFRI  **STAR**

SAE J2064 TYPE B

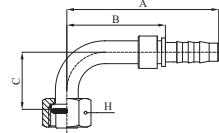
C27990

O-RING FEMALE 90° ELBOW

HEMBA O-RING CODO 90°

DICHTKOPF O-RING - 90° BOGEN

FEMMINA O-RING - CURVA 90°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
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	DN	Dash	Inch	T	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
C27990-06-06036	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	13	- 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

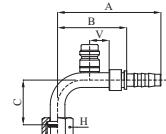
C27995

O-RING FEMALE 90° ELBOW WITH HIGH PRESSURE VALVE

HEMBA O-RING CODO 90° CON VÁLVULA DE ALTA PRESIÓN

DICHTKOPF O-RING - 90° BOGEN MIT HOCHDRUCKVENTIL

FEMMINA O-RING - CURVA 90° CON VALVOLA ALTA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
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	DN	Dash	Inch	T	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

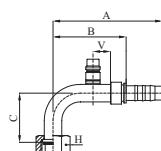
C27996

O-RING FEMALE 90° ELBOW WITH LOW PRESSURE VALVE

HEMBA O-RING CODO 90° CON VÁLVULA DE BAJA PRESIÓN

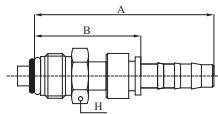
DICHTKOPF O-RING - 90° BOGEN MIT NIEDERDRUCKVENTIL

FEMMINA O-RING - CURVA 90° CON VALVOLA BASSA PRESSIONE



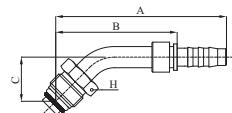
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
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	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	V ^{±1}	H
C27996-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	99,8	67,0	45,0	16,0	27

**C18010**

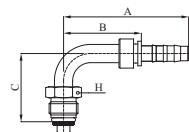
STRAIGHT O-RING MALE
MACHO O-RING RECTO
AUSSENGEWINDE O-RING GERADE
MASCHIO O-RING - DRITTO

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	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	87,5	54,5		22

**C18040**

O-RING MALE 45° ELBOW
MACHO O-RING CODO 45°
AUSSENGEWINDE O-RING - 45° BOGEN
MASCHIO O-RING - CURVA 45°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	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	13	- 10	1/2"	7/8"-14-UNF-2B	11,5	78,5	28,5	22

**C18090**

O-RING MALE 90° ELBOW
MACHO O-RING CODO 90°
AUSSENGEWINDE O-RING - 90° BOGEN
MASCHIO O-RING - CURVA 90°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	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	13	- 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

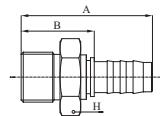
STAR-CRIMP FITTINGS

REFRI  **STAR**

SAE J2064 TYPE B

C17910

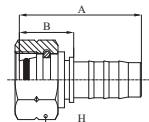
STRAIGHT MALE WITH O-RING SEAT
MACHO CON ASIENTO O-RING RECTO
AUSSENGEWINDE MIT O-RING SITZ GERADE
MASCHIO SEDE O-RING - DRITTO



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A $\pm 2,5$	B $\pm 2,5$	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	

C21510

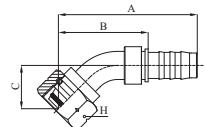
STRAIGHT 24° DIN FLARE O-RING OGIVAL FEMALE
HEMBRA O-RING OGIVA 24° DIN CÓNICO RECTO
DICHTKOPF 24° DIN KONUS MIT O-RING GERADE
FEMMINA O-RING OGIVA 24° DIN - DRITTO



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A $\pm 2,5$	B $\pm 2,5$	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	

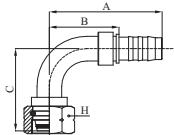
C21540

24° DIN FLARE O-RING OGIVAL FEMALE 45° ELBOW
HEMBRA O-RING OGIVA 24° DIN CÓNICO CODO 45°
DICHTKOPF 24° DIN KONUS MIT O-RING - 45° BOGEN
FEMMINA O-RING OGIVA 24° DIN - CURVA 45°



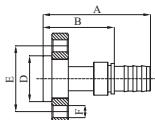
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A $\pm 2,5$	B $\pm 2,5$	C ± 2	H
C21540-16-30	22	- 16	7/8"	M 30x2	95,0	62,0	29,0	36
C21540-20-36	28	- 20	1.1/8"	M 36x2	118,5	74,5	34,5	41

SAE J2064 TYPE B

**C21590**

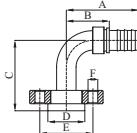
24° DIN FLARE O-RING OGIVAL FEMALE 90° ELBOW
HEMBRA O-RING OGIVA 24° DIN CÓNICO CODO 90°
DICHTKOPF 24° DIN KONUS MIT O-RING - 90° BOGEN
FEMMINA O-RING OGIVA 24° DIN - CURVA 90°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	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

**C23710**

STRAIGHT FLANGE FITTING
BRIDA RECTA
FLANSCHARMATUR GERADE
RACCORDO DRTTO CON FLANGIA

PART. REF.	HOSE SIZE				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

**C23790**

FLANGE FITTING 90° ELBOW
BRIDA 90°
FLANSCHARMATUR - 90° BOGEN
RACCORDO CON FLANGIA - CURVA 90°

PART. REF.	HOSE SIZE				DIMENSIONS mm					
	DN	Dash	Inch		A ^{±2,5}	B ^{±2,5}	C ^{±2}	V ^{±1}	H ₁	H ₂
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

STAR-CRIMP FITTINGS

REFRI  **STAR**

SAE J2064 TYPE B

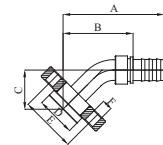
C23740

FLANGE FITTING 45° ELBOW

BRIDA 45°

FLANSCHARMATUR - 45° BOGEN

RACCORDO CON FLANGIA - CURVA 45°



PART. REF.	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

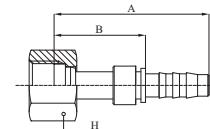
C22410

STRAIGHT ORS FLAT SEAL FEMALE

HEMBRA ASIENTO PLANO ORS RECTO

ORS DICHTKOPF FLACHDICHTEND GERADE

FEMMINA TENUTA FRONTALE ORS - DRITTO



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	H	
C22410-10-08	13	- 10	1/2"	13/16"-16-UN-2B	73,4	41,3	27	
C22410-10-10	13	- 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	

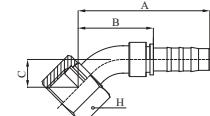
C22440

ORS FLAT SEAL FEMALE 45° ELBOW

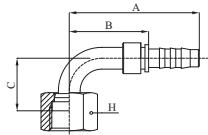
HEMBRA ASIENTO PLANO ORS CODO 45°

ORS DICHTKOPF FLACHDICHTEND - 45° BOGEN

FEMMINA TENUTA FRONTALE ORS - CURVA 45°

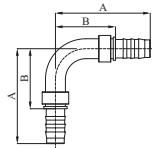


PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	
C22440-10-10	13	- 10	1/2"	1"-14-UNS-2B	77,0	44,0	16,0	
C22440-16-16	22	- 16	7/8"	1.7/16"-12-UN-2B	106,5	73,5	40,5	
C22440-20-20	28	- 20	1 1/8"	1.11/16"-12-UN-2B	115,0	71,0	25,5	

**C22490**

ORS FLAT SEAL FEMALE 90° ELBOW
HEMBRA ASIENTO PLANO ORS CODO 90°
ORS DICHTKOPF FLACHDICHTEND - 90° BOGEN
FEMMINA TENUTA FRONTALE ORS - CURVA 90°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	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

**C10090**

CONNECTION 90° ELBOW
ACOPLE CODO 90°
VERBINER 90° BOGEN
GIUNZIONE - CURVA 90°

PART. REF.	HOSE SIZE				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		

FAST-CRIMP FITTINGS

REFRI[®] FAST

SAE J2064 TYPE A

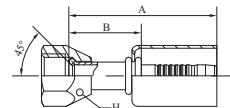


HOSE SIZE		FERRULE EXTERNAL DIAMETER
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DN	Dash	Inch	mm
8	- 06	5/16"	22,0
10	- 08	13/32"	22,0
13	- 10	1/2"	25,8
16	- 12	5/8"	28,4

OPC22610

45° SAE STRAIGHT FEMALE
HEMBRA 45° SAE RECTO
SAE DICHTKOPF 45° BOGEN
FEMMINA 45° SAE DRITTO

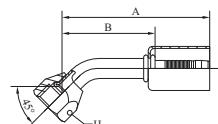


PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm		
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PART. REF.	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	H
OPC22610-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	53,2	26,0	19
OPC22610-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	58,7	28,5	22
OPC22610-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	60,7	30,0	27
OPC42610-12-12	16	- 12	5/8"	1.1/16"-14-UNS	94,3	59,5	32

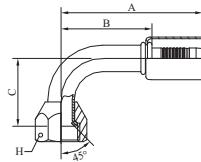
OPC22640

45° SAE FEMALE 45° ELBOW
HEMBRA SAE 45° CODO 45°
SAE DICHTKOPF 45° BOGEN
FEMMINA 45° SAE CURVA 45°



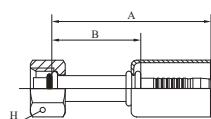
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm		
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PART. REF.	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H
OPC22640-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	73,7	46,5	12,5	19
OPC22640-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	84,7	54,5	15,0	22
OPC22640-10-10	13	- 10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

**OPC22690**

45° SAE FEMALE 90° ELBOW
HEMBRA 45° SAE CODO 90°
SAE DICHTKOPF 90° BOGEN
FEMMINA 45° SAE CURVA 90°

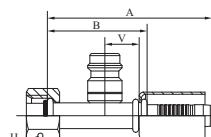
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H
OPC22690-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	69,2	42,0	26,0	19
OPC22690-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	75,2	45,0	35,0	22
OPC22690-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	85,7	55,0	41,0	27

**OPC27910**

STRAIGHT O-RING FEMALE
HEMbra O-RING RECTO
O-RING DICHTKOPF GERADE
FEMMINA O-RING DRITTO

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	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	13	- 10	1/2"	7/8"-14-UNF-2B	67,7	37,0	27	
OPC27910-10-10078	13	- 10	1/2"	7/8"-14-UNF-2B	77,7	47,0	27	
OPC27910-10-11	13	- 10	1/2"	1"-14-UNS-2B	56,2	25,5	29	
OPC27910-10-11076	13	- 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	
OPC47910-12-11*	16	- 12	5/8"	1"-14-UNS-2B	51,2	16,4	29	
OPC47910-12-12*	16	- 12	5/8"	1.1/16"-14-UNS	67,8	33,0	32	

* Obtained by brazing / Obtenido por soldadura / Gelötet / Ottentato tramite brasatura

**OPC27915**

STRAIGHT O-RING FEMALE WITH HIGH PRESSURE VALVE
HEMbra O-RING RECTO CON VÁLVULA DE ALTA PRESIÓN
O-RING DICHTKOPF GERADE MIT HOCHDRUCKVENTIL
FEMMINA O-RING DRITTO CON VALVOLA AD ALTA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	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

FAST-CRIMP FITTINGS

REFRI  **FAST**

SAE J2064 TYPE A

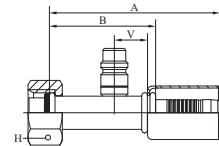
OPC27916

STRAIGHT O-RING FEMALE WITH LOW PRESSURE VALVE

HEMBA O-RING RECTO CON VÁLVULA DE BAJA PRESIÓN

O-RING DICHTKOPF GERADE MIT NIEDERDRUCKVENTIL

FEMMINA O-RING DRTTO CON VALVOLA A BASSA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	V ^{±1}	H
OPC27916-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	81,7	51	16,0	27
OPC27916-10-11	13	- 10	1/2"	1"-14-UNS-2B	78,7	48	16,0	29

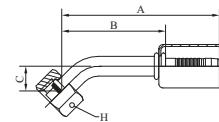
OPC27940

O-RING FEMALE 45° ELBOW

HEMBA O-RING CODO 45°

O-RING DICHTKOPF 45° BOGEN

FEMMINA O-RING CURVA 45°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	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	13	- 10	1/2"	7/8"-14-UNF-2B	98,7	68,0	24,0	27
OPC27940-10-11	13	- 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

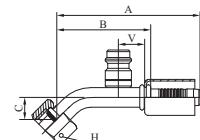
OPC27945

O-RING FEMALE WITH HIGH PRESSURE VALVE 45° ELBOW

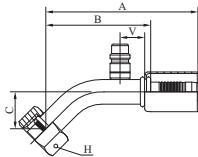
HEMBA O-RING CON VÁLVULA DE ALTA PRESIÓN CODO 45°

O-RING DICHTKOPF 45° BOGEN MIT HOCHDRUCKVENTIL

FEMMINA O-RING CURVA 45° CON VALVOLA AD ALTA PRESSIONE

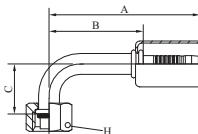


PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H
OPC27945-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	79,7	52,5	12,5	16,0
OPC27945-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	87,7	57,5	13,5	22
OPC27945-08-11	10	- 08	13/32"	1"-14-UNS-2B	84,7	54,5	14,0	29

**OPC27946**

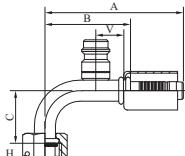
O-RING FEMALE WITH LOW PRESSURE VALVE 45° ELBOW
 HEMBRA O-RING CON VÁLVULA DE BAJA PRESIÓN CODO 45°
 O-RING DICHTKOPF 45° BOGEN MIT NIEDRIGDRUCKVENTIL
 FEMMINA O-RING CURVA 45° CON VALVOLA A BASSA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	V ^{±1}	H
OPC27946-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	98,7	68,0	24,0	16,0	27
OPC27946-10-11	13	- 10	1/2"	1"-14-UNS-2B	97,7	67,0	22,0	16,0	29

**OPC27990**

O-RING FEMALE 90° ELBOW
 HEMBRA O-RING CODO 90°
 O-RING DICHTKOPF 90° BOGEN
 FEMMINA O-RING CURVA 90°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	V	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	13	- 10	1/2"	7/8"-14-UNF-2B	91,7	61,0	46,5	27	
OPC27990-10-11	13	- 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

**OPC27995**

O-RING FEMALE WITH HIGH PRESSURE VALVE 90° ELBOW
 HEMBRA O-RING CON VÁLVULA DE ALTA PRESIÓN CODO 90°
 O-RING DICHTKOPF 90° BOGEN MIT HOCHDRUCKVENTIL
 FEMMINA O-RING CURVA 90° CON VALVOLA AD ALTA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	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

FAST-CRIMP FITTINGS

REFRI  **FAST**

SAE J2064 TYPE A

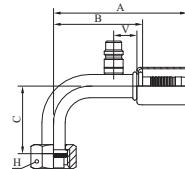
OPC27996

O-RING FEMALE WITH LOW PRESSURE VALVE 90° ELBOW

HEMBRA O-RING CON VÁLVULA DE BAJA PRESIÓN CODO 90°

O-RING DICHTKOPF 90° BOGEN MIT NIEDRIGDRUCKVENTIL

FEMMINA O-RING CURVA 90° CON VALVOLA A BASSA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	V ^{±1}	H
OPC27996-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	91,7	61,0	46,5	16,0	27
OPC27996-10-11	13	- 10	1/2"	1"-14-UNS-2B	92,7	62,0	39,0	16,0	29

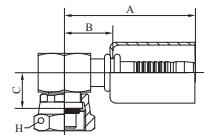
OPC27980

SHORT VERSION O-RING FEMALE

HEMBRA O-RING TIPO CORTO

O-RING DICHTKOPF 90° BOGEN KURZE VERSION

FEMMINA O-RING TIPO CORTO CURVA 90°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	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	13	- 10	1/2"	7/8"-14-UNF-2B	55,0	21,5	16,4	27
OPC27980-10-11	13	- 10	1/2"	1"-14-UNS-2B	56,0	22,5	16,4	29
OPC47980-12-11	16	- 12	5/8"	1"-14-UNS-2B	56,3	21,5	24,2	29

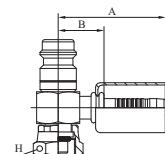
OPC27985

SHORT VERSION O-RING FEMALE WITH HIGH PRESSURE VALVE

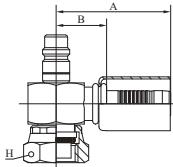
HEMBRA O-RING TIPO CORTO CON VÁLVULA DE ALTA PRESIÓN

O-RING DICHTKOPF 90° BOGEN MIT HOCHDRUCKVENTIL KURZE VERSION

FEMMINA O-RING TIPO CORTO CURVA 90° CON VALVOLA AD ALTA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	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

**OPC27986**

SHORT VERSION O-RING FEMALE WITH LOW PRESSURE VALVE
HEMBRA O-RING TIPO CORTO CON VÁLVULA DE BAJA PRESIÓN
O-RING DICHTKOPF 90° BOGEN MIT NIEDRIGDRUCKVENTIL KURZE VERSION
FEMMINA O-RING TIPO CORTO CURVA 90° CON VALVOLA A BASSA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	C ^{±2}	H
OPC27986-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	55,0	21,5	16,4	27
OPC27986-10-11	13	- 10	1/2"	1"-14-UNS-2B	56,0	22,5	16,4	29
OPC47986-12-11	16	- 12	5/8"	1"-14-UNS-2B	56,3	21,5	24,2	29

OPC18010

STRAIGHT O-RING MALE
MACHO O-RING RECTO
O-RING AUSSENGEWINDE GERADE
MASCHIO O-RING DITTO

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	H	
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-UNF-2A	82,2	52,0	22	
OPC18010-10-10	13	- 10	1/2"	7/8"-18-UNF-2A	74,2	43,5	22	
OPC18010-12-10	16	- 12	5/8"	7/8"-18-UNF-2A	69,7	37,7	22	

OPC18040

O-RING MALE 45° ELBOW
MACHO O-RING CODO 45°
O-RING AUSSENGEWINDE 45° BOGEN
MASCHIO O-RING CURVA 45°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	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-UNF-2A	96,7	66,5	25,0	22
OPC18040-10-10	13	- 10	1/2"	7/8"-18-UNF-2A	102,2	71,5	30,0	22
OPC18040-12-10	16	- 12	5/8"	7/8"-18-UNF-2A	132,2	100,2	27,0	22

FAST-CRIMP FITTINGS

REFRI[®] FAST

SAE J2064 TYPE A

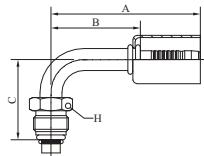
OPC18090

O-RING MALE 90° ELBOW

MACHO O-RING CODO 90°

O-RING AUSSENGEWINDE 90° BOGEN

MASCHIO O-RING CURVA 90°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	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	13	- 10	1/2"	7/8"-18-UNS-2A	86,7	56,0	54,5	22

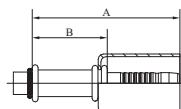
OPC27610

STRAIGHT FITTING FOR EXPANSION VALVE

CONEXION RECTA PARA VÁLVULA DE EXPANSIÓN

GERADE NIPPEL FÜR FÜLLVENTIL

RACCORDO DIRTTO PER VALVOLA DI ESPANSIONE



PART. REF.	HOSE SIZE				DIMENSIONS mm		
	DN	Dash	Inch		A ^{±2,5}	B ^{±2,5}	
OPC27610-06-06	8	- 06	5/16"		55,2	28,0	
OPC27610-10-12	13	- 10	1/2"		56,7	26,0	

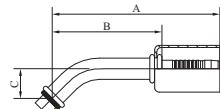
OPC27640

FITTING FOR EXPANSION VALVE 45° ELBOW

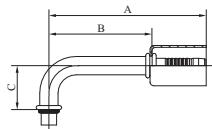
CONEXION PARA VÁLVULA DE EXPANSIÓN CODO 45°

GERADE NIPPEL FÜR FÜLLVENTIL 45° BOGEN

RACCORDO PER VALVOLA DI ESPANSIONE CURVA 45°

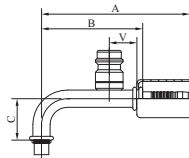


PART. REF.	HOSE SIZE				DIMENSIONS mm		
	DN	Dash	Inch		A ^{±2,5}	B ^{±2,5}	C ^{±2}
OPC27640-06-06	8	- 06	5/16"		78,7	51,5	14,0
OPC27640-10-12	13	- 10	1/2"		98,7	68,0	18,5
OPC27640-12-12	16	- 12	5/8"		96,2	64,2	18,5

**OPC27690**

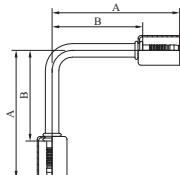
FITTING FOR EXPANSION VALVE 90° ELBOW
CONEXION PARA VÁLVULA DE EXPANSIÓN CODO 90°
GERADE NIPPEL FÜR FÜLLVENTIL 90° BOGEN
RACCORDO PER VALVOLA DI ESPANSIONE CURVA 90°

PART. REF.	HOSE SIZE			DIMENSIONS mm		
	DN	Dash	Inch	A ^{±2,5}	B ^{±2,5}	C ^{±2}
OPC27690-06-06	8	- 06	5/16"	85,7	58,5	24,0
OPC27690-10-12	13	- 10	1/2"	94,2	63,5	42,5

**OPC27695**

FITTING FOR EXPANSION VALVE WITH HIGH PRESSURE VALVE 90° ELBOW
CONEXION PARA VÁLVULA DE EXPANSIÓN CON VÁLVULA DE ALTA PRESIÓN CODO 90°
VERBINDUNGSSTÜCK FÜR AUSDEHNUNGSVENTIL 90° BOGEN MIT HOCHDRUCKVENTIL
RACCORDO PER VALVOLA DI ESPANSIONE CURVA 90° CON VALVOLA AD ALTA PRESSIONE

PART. REF.	HOSE SIZE			DIMENSIONS mm			
	DN	Dash	Inch	A ^{±2,5}	B ^{±2,5}	C ^{±2}	V ^{±1}
OPC27695-06-06	8	- 06	5/16"	85,7	58,5	24,0	16,0

**OPC10090**

CONNECTION FITTING 90° ELBOW
CONEXION CODO 90°
VERBINDER 90° BOGEN
GIUNZIONE CURVA 90°

PART. REF.	HOSE SIZE			DIMENSIONS mm			
	DN	Dash	Inch	A ^{±2,5}	B ^{±2,5}	C ^{±2}	
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	13	- 10	1/2"	98,1	67,4		

FAST-CRIMP FITTINGS

REFRI[®]FAST

SAE J2064 TYPE A

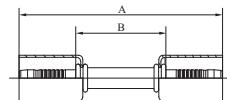
OPC10010

CONNECTION FITTING

UNIÓN RECTA

VERBINDER GERADE

GIUNZIONE DRTTA



PART. REF.	HOSE SIZE			DIMENSIONS mm		
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PART. REF.	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	13	- 10	1/2"		101,4	40,0
OPC10010-12-12	16	- 12	5/8"		105,4	41,4

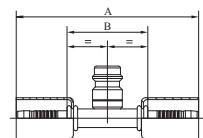
OPC10015

CONNECTION FITTING WITH HIGH PRESSURE VALVE

UNIÓN CON VÁLVULA DE ALTA PRESIÓN

VERBINDER GERADE MIT HOCHDRUCKVENTIL

GIUNZIONE DRTTA CON VALVOLA AD ALTA PRESSIONE



PART. REF.	HOSE SIZE			DIMENSIONS mm		
OPC10015-06-06	8	- 06	5/16"		97,4	43,0
OPC10015-08-08	10	- 08	13/32"		94,0	33,6

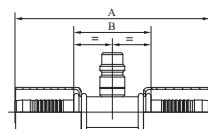
OPC10016

CONNECTION FITTING WITH LOW PRESSURE VALVE

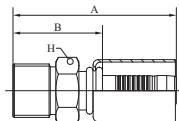
UNIÓN CON VÁLVULA DE BAJA PRESIÓN

VERBINDER GERADE MIT NIEDRIGDRUCKVENTIL

GIUNZIONE DRTTA CON VALVOLA A BASSA PRESSIONE

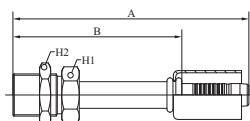


PART. REF.	HOSE SIZE			DIMENSIONS mm		
OPC10016-10-10	13	- 10	1/2"		96,0	34,6
OPC10016-12-12	16	- 12	5/8"		117,9	53,9

**OPC17910**

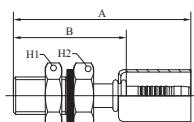
STRAIGHT MALE WITH O-RING SEAT
MACHO RECTO CON O-RING
GERADES O-RING AUSSENGEWINDE
MASCHIO SEDE O-RING DRITTO

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	H
OPC17910-06-06	8	- 06	5/16"	5/8"-18-UNF-2A	56,0	28,5	17
OPC17910-10-10	13	- 10	1/2"	7/8"-14-UNF-2A	68,3	33,8	24

**OPC17910...W**

STRAIGHT MALE WITH O-RING SEAT WITH COUNTER NUT
MACHO RECTO PASATABIQUE CON O-RING
GERADES O-RING AUSSENGEWINDE MIT KONTERMUTTER
MASCHIO SEDE O-RING DRITTO CON CONTRODADO

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	H1
OPC17910-08-08W25	10	- 08	13/32"	3/4"-16-UNF-2A	106,2	76,0	22

**OPC17910...W...Q**

STRAIGHT MALE WITH O-RING SEAT WITH COUNTER NUT AND Q-RING
MACHO RECTO PASATABIQUE CON O-RING Y Q-RING
GERADES O-RING AUSSENGEWINDE MIT KONTERMUTTER UND Q-RING
MASCHIO SEDE O-RING DRITTO CON CONTRODADO E Q-RING

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch	T	A ^{±2,5}	B ^{±2,5}	H1
OPC17910-06-06W24Q	8	- 06	5/16"	5/8"-18-UNF-2A	75,2	48,0	24
OPC17910-10-10W29Q	13	- 10	1/2"	7/8"-14-UNF-2A	82,7	52,0	29

FAST-CRIMP FITTINGS

REFRI[®]FAST

SAE J2064 TYPE A

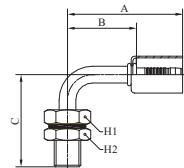
OPC17990...W...Q

MALE WITH O-RING SEAT WITH COUNTER NUT AND Q-RING 90° ELBOW

CODO MACHO 90° PASATABIQUE CON O-RING Y Q-RING

O-RING AUSSENGEWINDE MIT KONTERMUTTER UND Q-RING - 90° BOGEN

MASCHIO CON O-RING, CONTRODATO E Q-RING CURVA 90°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A ^{+2,5}	B ^{+2,5}	C ^{+2,1}	H ₁	H ₂
OPC17990-06-06W24Q	8	- 06	5/16"	5/8"-18-UNF-2A	68,4	41,2	55,0	24	24
OPC17990-10-10W30Q	13	- 10	1/2"	7/8"-14-UNF-2A	85,4	54,7	64,0	29	30

CODE	VALVE TYPE	CHARACTERISTICS	VALVE CORE	CAP
9000984		CHARGE VALVE - 1/4" SAE FOR R134a VÁLVULA DE CARGA - 1/4" SAE PARA R134a FÜLLVENTIL 1/4" SAE FÜR R134a VALVOLA DI CARICA 1/4" SAE PER R134a		
9000981		LOW PRESSURE CHARGE VALVE FOR R134a VÁLVULA DE CARGA DE BAJA PRESIÓN PARA R134a NIEDERDRUCKFÜLLVENTIL FÜR R134a VALVOLA DI CARICA BASSA PRESSIONE PER R134a		
9000980		HIGH PRESSURE CHARGE VALVE FOR R134a VÁLVULA DE CARGA DE ALTA PRESIÓN PARA R134a HOCHDRUCKFÜLLVENTIL FÜR R134a VALVOLA DI CARICA ALTA PRESSIONE PER R134a		
9000983		LOW PRESSURE VALVE ADAPTER ADAPTADOR PARA VÁLVULA DE BAJA PRESIÓN NIEDERDRUCKVENTILADAPTER ADATTATORE PER VALVOLA BASSA PRESSIONE		
9000982		HIGH PRESSURE VALVE ADAPTER ADAPTADOR PARA VÁLVULA DE ALTA PRESIÓN HOCHDRUCKVENTILADAPTER ADATTATORE PER VALVOLA ALTA PRESSIONE		
1003326		90° LOW PRESSURE VALVE ADAPTER 90° ADAPTADOR PARA VÁLVULA DE BAJA PRESIÓN 90° NIEDERDRUCKVENTILADAPTER 90° ADATTATORE PER VALVOLA A BASSA PRESSIONE		
1004323		90° HIGH PRESSURE VALVE ADAPTER 90° ADAPTADOR PARA VÁLVULA DE ALTA PRESIÓN 90° HOCHDRUCKVENTILADAPTER 90° ADATTATORE PER VALVOLA AD ALTA PRESSIONE		

CODE	PLATE	CHARACTERISTICS
9001181		PLATE TO FIX THE TUBE TO THE EXPANSION VALVE PLATINA PARA FIJAR EL TUBO A LA VÁLVULA DE EXPANSIÓN PLATTE ZUR FIXIERUNG DES SCHLAUCHES AM EXPANSIONSVENTIL PIASTRINA DI FISSAGGIO TUBI ALLA VALVOLA DI ESPANSIONE
9001182		PLATE TO FIX THE TUBE TO THE EXPANSION VALVE PLATINA PARA FIJAR EL TUBO A LA VÁLVULA DE EXPANSIÓN PLATTE ZUR FIXIERUNG DES SCHLAUCHES AM EXPANSIONSVENTIL PIASTRINA DI FISSAGGIO TUBI ALLA VALVOLA DI ESPANSIONE

PRODUCT RANGE

REFRI[®]

ACCESSORIES

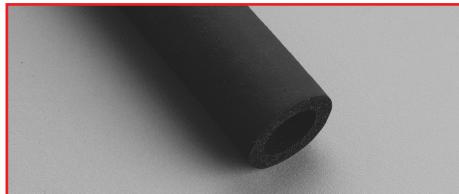
ELASTOMERIC INSULATING SLEEVE

MANGA AISLANTE ELASTOMERICA

ISOLIERENDER ELASTOMER SCHUTZSCHLAUCH

GUAINA ISOLANTE DI NATURA ELASTOMERICA

CODE	DESCRIPTION	I.D.	WALL THICKNESS
9001132	ARMAFLEX D18X6	18,0	6,0
9001137	ARMAFLEX D28X9	28,0	9,0
9001140	ARMAFLEX D35X9	35,0	9,0
9001141	ARMAFLEX D42X9	42,0	9,0



FURTHER DIMENSIONS AVAILABLE ON REQUEST

OTRAS DIMENSIONES DISPONIBLES A SOLICITUD

WEITERE ABMESSUNGEN AUF ANFRAGE ERHÄLTLICH

ALTRÉ MISURE DISPONIBILI SU RICHIESTA

COMPOSITION: Elastomeric foam compounded by synthetic rubber MAIN APPLICATION: Protection to avoid condensation for refrigeration and air conditioning system TECHNICAL DATA: Temperaure resistance -40°C - +105°C

COMPOSICION: Espuma elastomérica a base de caucho sintético PRINCIPAL APPLICACIÓN: Protección para evitar condensación

DATOS TÉCNICOS: Resistencia a la temperatura -40°C - +105°C

AUFBAU: Elastomerschaum im Verbund mit synthetischem Gummi HAUPTANWENDUNG: Schutz vor Kondensation in Kühl- und A/C Systemen

TECHNISCHE DATEN: Temperaturbeständigkeit -40°C - +105°C

COMPOSIZIONE: Schiuma elastomerica a base di gomme sintetiche PRINCIPALI APPLICAZIONI: Anticondensa per impianti di refrigerazione e condizionamento

DATI TECNICI: Resistenza alla temperatura -40°C - +105°C

CORRUGATED TUBE

TUBO CORRUGADO

ISOLIERENDER ELASTOMER SCHUTZSCHLAUCH

GUAINA ISOLANTE DI NATURA ELASTOMERICA

CODE	DESCRIPTION	I.D.	WALL THICKNESS
2009051	DN17 SLITTED	16,8	1,8
2007947	DN19 SLITTED	19,4	2,0
2008438	DN22 SLITTED	21,8	1,7
2009064	DN23 SLITTED	23,7	2,0



FURTHER DIMENSIONS AVAILABLE ON REQUEST

OTRAS DIMENSIONES DISPONIBLES A SOLICITUD

WEITERE ABMESSUNGEN AUF ANFRAGE ERHÄLTLICH

ALTRÉ MISURE DISPONIBILI SU RICHIESTA

COMPOSITION: MODIFIED POLYPROPYLENE MAIN APPLICATION: ABRASION RESISTANCE

COMPOSICION: Polipropileno modificado PRINCIPAL APPLICACIÓN: Resistencia a la abrasión

AUFBAU: Modifiziertes Polypropylen HAUPTANWENDUNG: Abriebeschutz

COMPOSIZIONE: Polipropilene modificato PRINCIPALI APPLICAZIONI: Resistenza all'abrasione

SLEEVE FOR PROTECTION FROM RADIANT HEAT

MANGA DE PROTECCION DEL CALOR POR RADIAZIONE
SCHLAUCH ZUM SCHUTZ GEGEN STRAHLUNGSWÄRME
GUAINA DI PROTEZIONE CONTRO IL CALORE IRRADIATO

CODE	DESCRIPTION	I.D.	WALL THICKNESS
2001265	WEST-SR-D20	20,0	1,4
2001266	WEST-SR-D24	24,5	1,4
9001267	WEST-SR-D26	26,5	1,5
9007095	WEST-SR-D28	28,0	1,5
9007156	WEST-SR-D30	30,0	1,6
9007096	WEST-SR-D32	32,0	1,6
9007154	WEST-SR-D34	34,0	1,6

**FURTHER DIMENSIONS AVAILABLE ON REQUEST**

OTRAS DIMENSIONES DISPONIBLES A SOLICITUD
WEITERE ABMESSUNGEN AUF ANFRAGE ERHÄLTLICH
ALTRÉ MISURE DISPONIBILI SU RICHIESTA

COMPOSITION: Inner layer: glassfabbri material laminated on aluminium - Outer layer: aluminium alloy

MAIN APPLICATION: Protection against heat radiation sources for A/C hose assemblies

TECHNICAL DATA: Temperaure resistance -40°C - +250°C

COMPOSICION: Cubierta interior: fibra de vidrio laminado en aluminio Cubierta exterior: aleación de aluminio

PRINCIPAL APPLICACIÓN: Protección contra el calor por radiazion DATOS TÉCNICOS: Resistencia a la temperatura -40°C - +250°C

AUFBAU: Innen: Glasfasergewebe auf Aluminium Außen: Aluminium HAUPTANWENDUNG: Schutz gegen Strahlungswärme für Klimaschläuche

TECHNISCHE DATEN: Temperaturbeständigkeit -40°C - +250°C

COMPOSIZIONE: Strato interno: fibra di vetro laminata su alluminio - Strato esterno: lega di alluminio PRINCIPALI APPLICAZIONI: Protezione contro il calore irradiato di tubazioni assemblate per applicazioni aria condizionata DATI TECNICI: Resistenza alla temperatura -40°C - +250°C

HTPS - HT PROTECTION SPRING

HTPS - PROTECCIONES PARA ALTA TEMPERATURA

HTPS - HITZEBESTÄNDIGE SCHUTZFEDER

HTPS - SPIRALE DI PROTEZIONE HT



CODE	DESCRIPTION	I.D.	WALL THICKNESS
JP12B03016I099	HT PROTECTION SPRING DN16	16,0	1,8
JP12B03019I099	HT PROTECTION SPRING DN19	19,0	2,3

FURTHER DIMENSIONS AVAILABLE ON REQUEST
OTRAS DIMENSIONES DISPONIBLES A SOLICITUD
WEITERE ABMESSUNGEN AUF ANFRAGE ERHÄLTLICH
ALTRÉ MISURE DISPONIBILI SU RICHIESTA

COMPOSITION: Black polyammide, rounded profile

MAIN APPLICATION: Hose abrasion protection

TECHNICAL DATA: Service Temperaure range -40°C - +120°C

COMPOSICION: Poliamida negra, perfil redondeado

PRINCIPAL APPLICACIÓN: Protección contra abrasión tubos y conducción múltiple

DATOS TÉCNICOS: Temperatura de servicio -40°C - +120°C

AUFBAU: Schwarzes Polyamid, abgerundetes Profil

HAUPTANWENDUNG: Schützt den Schlauch vor Abrieb

TECHNISCHE DATEN: Betriebstemperaturbereich -40°C - +120°C

COMPOSIZIONE: Poliamide nero

PRINCIPALI APPLICAZIONI: Protezione del tubo dall'abrasione

DATI TECNICI: Temperatura di servizio -40°C - +120°C

