

REFRIGERATION



REFRIGERATION PRODUCT RANGE

INTRODUCTION

THE OFFER

The 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 specialized.



Bus Air Conditioning



Off Highway Air Conditioning



Mobile Refrigeration



“FIELD-ATTACHABLE” FITTING

The “field-attachable” fitting technology allows 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 following pages describe the main steps to correctly assembly our products.

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

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

REFRIGERATION PRODUCT RANGE

ASSEMBLING INSTRUCTIONS - REFRIMASTER PROCEDURE

REFRIMASTER WITH CLAMP

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



1 Check the dimensions of the components.



2 Cut the end of the hose in a perpendicular direction, using the manual cutter.



3 Verify the end of the hose to be cut in a perpendicular direction.



4 Place the double clamp on the flexible hose in such a way that the tooth of bar A comes into contact with the end of the hose that has been cut

REFRIGERATION PRODUCT RANGE

ASSEMBLING INSTRUCTIONS - REFRIMASTER PROCEDURE



5 Grease the end of the fitting joint with the same oil used in the air conditioning system.



6 Find the correct orientation and insert completely the fitting into the hose.



8, 9 & 10 To place the fitting, position the round nose of the pliers (A) at the hook shaped end of the clamp and the thin nose (B) at the end with the hooked teeth.

Tighten the double clamp until the click using the special "CLICK" open-close pliers.

To disassemble, just reverse the position of the ends of the pliers on the clamp.

7 **A** = Round nose

B = Thin nose



8 Closing



9 Tighten the double clamp until click to close.
Reverse the position of the pliers to open.



10 Opening

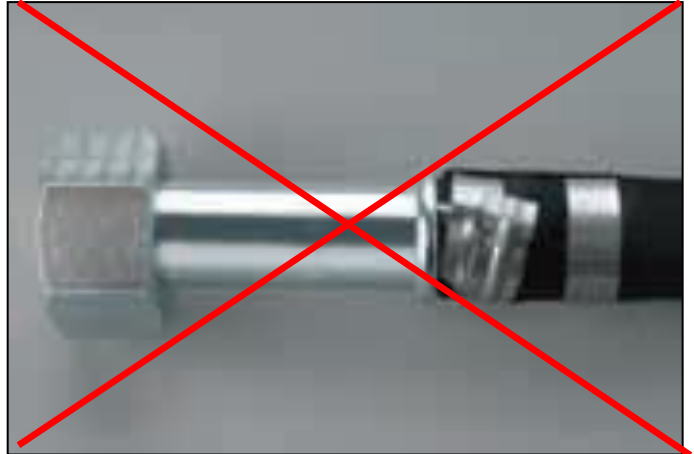
WARNING: Do not reuse the clamp

REFRIGERATION PRODUCT RANGE

ASSEMBLING INSTRUCTIONS - REFRIMASTER PROCEDURE



11 Verify the parallelism of the two clamps.



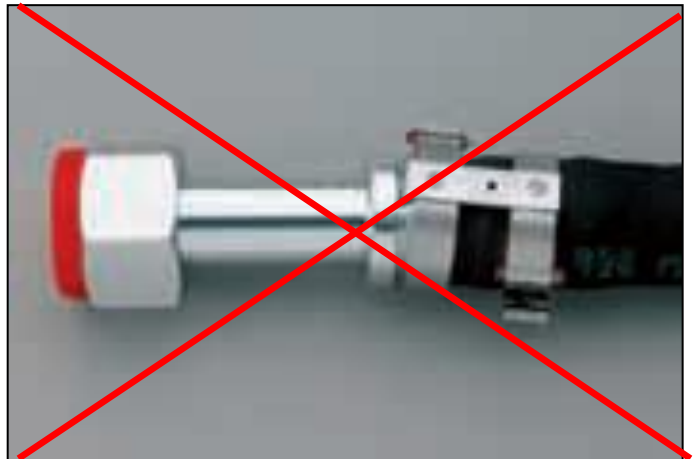
12 Pay attention in tightening clamp in the right way.

13, 14, 15 & 16

WARNING: Position correctly the clamp



13 Right - Solution with brazed insert



14 Wrong



15 Right - Solution with insert obtained by deformation



16 Wrong

REFRIGERATION PRODUCT RANGE

ASSEMBLING INSTRUCTIONS - REFRIMASTER PROCEDURE

REFRIMASTER MOUNTING KIT



1 Mounting kit.



2 Manual cutter.



3 "CLIC" open-close pliers.

The offer consists of:

- A practical mounting kit containing all tools necessary for the correct assembly of the Frigoclic® coupling
- The separate supply of hose in rolls, relevant fitting and complete kits according to customer specifications

REFRIGERATION PRODUCT RANGE

ASSEMBLING INSTRUCTIONS - REFRIMASTER PROCEDURE

REFRIMASTER WITH FERRULE



1 Check the dimensions of the components.



2 Cut the end of the hose in a perpendicular direction, using the manual cutter.



3 Verify the end of the hose to be cut in a perpendicular direction.



4 Place the ferrule on the flexible hose so that the ferrule tooth touches the end of the cut hose.



5 Grease the end of the fitting joint with the same oil used in the air conditioning system.



6 Find the correct orientation and insert completely the fitting into the hose.

REFRIGERATION PRODUCT RANGE

ASSEMBLING INSTRUCTIONS - REFRIMASTER PROCEDURE



7 Set up the crimping machine selecting the die set that is closest to the specified dimension. Crimp to the specified diameter (table a). Ensure the dies fully cover the ferrule length.



Before



After

Solution with insert obtained by deformation



9 Inspect the crimping dimension using a calibrated vernier. Check the diameter at the centre of the ferrule following the values in table A.



Before



After

Solution with brazed insert

8 Pay attention in coupling insert and ferrule.

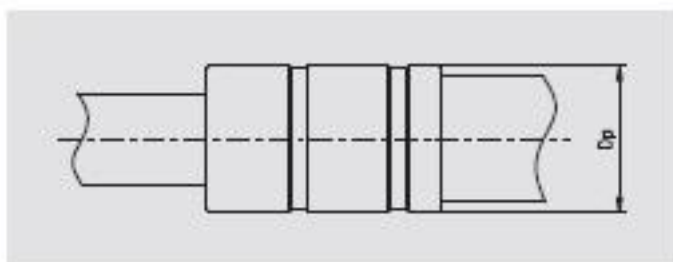


Table A

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

REFRIGERATION PRODUCT RANGE

ASSEMBLING INSTRUCTIONS - REFRIMASTER PROCEDURE

REFRISTAR WITH REUSABLE FITTINGS



1 Check the dimensions of the components.



2 Wrong cut

3 Right cut



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



5 Secure in position the socket i.e. by using a bench vice. Screw the hose counter clockwise into the socket until it reaches the bottom. Unscrew 1/4 turn to prevent damage in screwing.

REFRIGERATION PRODUCT RANGE

ASSEMBLING INSTRUCTIONS - REFRISTAR PROCEDURE



6 Mark the socket and the hose using an indelible felt tip pen, to verify any absence of hose rotation inside the socket during the fittings crewing.



7 Position the hose complete with socket i.e. by using a bench vise. Grease with a lot of oil the threading and the taper of the fitting as well as the inside of hose.

WARNING: Use the same lubricant used in the A/C system.



8 Insert the fitting into the hose. Press slightly and screw by hand turning clockwise the first threads. Then by using an appropriate spanner or a screw spanner on the hexagon, screw the fitting into the socket with a continuous and constant rotation motion and verify any absence of hose rotation inside the socket during the fitting screwing. Complete the screwing until the fitting reaches the bottom against the socket. Never over tighten. Assembling is now finished.



9 You can leave a margin of max 3 mm between the hexagon of the fitting and the socket. Verify alignment.

REFRIGERATION PRODUCT RANGE

ASSEMBLING INSTRUCTIONS - REFRISTAR PROCEDURE

REFRISTAR WITH CRIMPED FITTINGS

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



1 Check the dimensions of the components.



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



5 Place the ferrule on the flexible hose so that the ferrule tooth touches the end of the cut hose

REFRIGERATION PRODUCT RANGE

ASSEMBLING INSTRUCTIONS - REFRISTAR PROCEDURE



6 Grease the end of the fitting joint with the same oil used in the air conditioning system.



7 Find the correct orientation and insert completely the fitting into the hose.



8 Set up the crimping machine selecting the die set that is closed to the specified dimension. Crimp to the specified diameter. Ensure the dies fully cover the ferrule length.



9 Inspect the crimping dimension using a calibrated vernier. Check the diameter at the centre of the ferrule following the values on the table B.

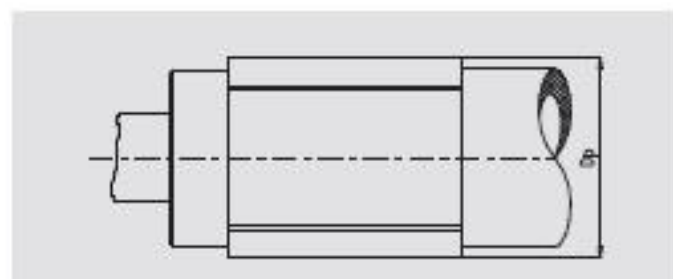


Table B

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

REFRIGERATION PRODUCT RANGE

ASSEMBLING INSTRUCTIONS - REFRISTAR PROCEDURE

REFRIFAST WITH ONE-PIECE CRIMPED FITTINGS

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



1 Check the dimensions of the components.



2 Cut the end of the hose in a perpendicular direction, using the manual cutter.



3 Verify the end of the hose to be cut in a perpendicular direction.



4 Grease the end of the fitting joint with the same oil used in the air conditioning system.

REFRIGERATION PRODUCT RANGE

ASSEMBLING INSTRUCTIONS - REFRIFAST PROCEDURE



5 Find the correct orientation and insert completely the fitting the hose.



6 Check the correct position of the hose through the proper into hole in the ferrule.



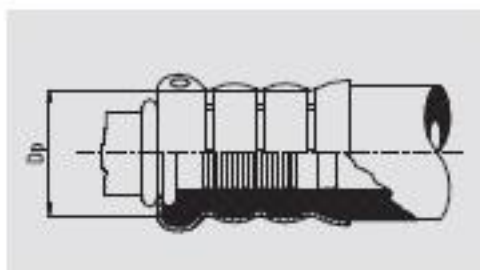
7 Set up the crimping machine selecting the die set that is closed to the dimension specified diameter. Place the fitting on the proper positioner to ensure that it is in the correct position (table c).



8 Inspect the crimping dimension using the proper calibrated vernier. Check the dimensions following the values in table c.



Strictly use Manuli die sets bubble crimping.



HOSE SIZE			Dp ±0,2 mm
DN	Dash	Inch	mm
8	- 06	5/16"	14,8
10	- 08	13/32"	16,3
12	- 10	1/2"	18,8
16	- 12	5/8"	21,1

Refrigeration Hoses



REFRIGERATION HOSES

LEGEND OF SYMBOL



Inside Diameter (I.D.)



Outside Diameter (O.D.)



Working pressure



Burst pressure



Weight



Minimum bend radius



Refrimaster clamp



Refrimaster ferrule



Crimp ferrule for Refristar



Reusable ferrule for Refristar

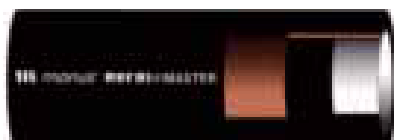


One piece fitting for Refrifast

All dimension given in this catalogue can be modified at any moment without notice.
No responsibility is undertaken when our products are used incorrectly or wrongly fitted.

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SAE J2064 TYPE E

STANDARD PART. REF.	HOSE SIZE				I.D.	O.D.	WORKING PRESSURE	BURST PRESSURE	WEIGHT	MIN. BEND RADIUS
	DN	Dash	inch	mm	mm	mm	bar	bar	g/m	mm
H09002008*	8	- 06	5/16"	8,0	12,7		35	> 250	90	40,0
H09002010*	10	- 08	13/32"	10,5	16,0		35	> 250	140	50,0
H09002013*	13	- 10	1/2"	13,0	18,1		35	> 150	160	80,0
H09002016*	16	- 12	5/8"	16,0	21,7		35	> 150	200	90,0

Standard packaging: coil

* The complete code for each item is composed by 13 digits, the last 4 digits indicate the type of packaging.

KEY PERFORMANCE

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

SPECIFICATIONS: SAE J2064 Type E Class I

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

CONSTRUCTION:

- TUBE: high temperature resistant thermoplastic (PA) veneer
- REINFORCEMENT: one textile braid
- COVER: high temperature and environmental resistant synthetic rubber (EPDM)

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

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

CONTINUOUS WORKING TEMPERATURE:

-40°C / +125°C -40°F / +257°F

MAX. PEAK TEMPERATURE: +140°C +284°F

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

Fittings compatible with Refrimaster

FRIGOCLIC® guarantee of sealing



ONE insert

field attachable clamp

crimped ferrule









TWO coupling solutions for any applications

NOTE: Guaranteed performance only with our fittings

WARNING: Ask MRI about other refrigerants and lubricants

SAE J2064 TYPE B



STANDARD PART. REF.	HOSE SIZE				 I.D.	 O.D.	 WORKING PRESSURE	 BURST PRESSURE	 WEIGHT	 MIN. BEND RADIUS
	DN	Dash	inch	mm	mm	bar	bar	g/m	mm	
H01110005*	5	- 04	3/16"	4,8	13,0	35	> 150	210	85,0	
H01110008*	8	- 06	5/16"	8,0	17,2	35	> 150	320	85,0	
H01110010*	10	- 08	13/32"	10,5	19,3	35	> 150	370	95,0	
H01110012*	12	- 10	1/2"	12,7	23,4	35	> 150	530	115,0	
H01110016*	16	- 12	5/8"	16,0	27,3	35	> 150	675	135,0	
H01110022*	22	- 16	7/8"	22,0	31,2	35	> 150	705	155,0	
H01110028*	28	- 20	1.1/8"	28,0	38,0	35	> 150	930	190,0	
H01110035*	35	- 24	1.3/8"	35,0	45,0	35	> 150	980	230,0	

Standard packaging: coil

* The complete code for each item is composed by 13 digits, the last 4 digits indicate the type of packaging.

KEY PERFORMANCE

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

SPECIFICATIONS: SAE J2064 Type B Class I

MAIN APPLICATIONS: Bus and off-highway equipments air conditioning systems

CONSTRUCTION:



- TUBE: low permeability to the refrigerant fluid and wide compatibility with the most common compressor lubricant (IIR)
- REINFORCEMENT: one steel wire braid
- COVER: high temperature and environmental resistant synthetic rubber (CSM)

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

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

CONTINUOUS WORKING TEMPERATURE:

-40°C / +125°C -40°F / +257°F

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



STAR-FIT
Patent pending



STAR-CRIMP



reusable solution

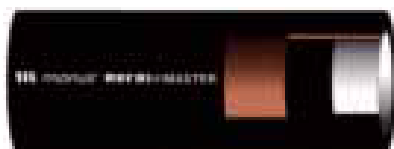


crimped solution







TWO coupling solutions for any applications

WARNING: Ask MRI about other refrigerants and lubricants

NOTE: Guaranteed performance only with our fittings.



SAE J2064 TYPE A

STANDARD PART. REF.	HOSE SIZE				 I.D.	 O.D.	 WORKING PRESSURE	 BURST PRESSURE	 WEIGHT	 MIN. BEND RADIUS
	DN	Dash	inch	mm	mm	mm	bar	bar	g/m	mm
H09068008*	8	6	5/16"	8,2	15,5		35	>150	165	30
H09068010*	10	8	13/32"	10,5	18,0		35	>150	200	50
H09068012*	12	10	1/2"	12,7	20,0		35	>150	250	60
H09068016*	16	12	5/8"	16	23,5		35	>150	290	80

Standard packaging: reel

* The complete code for each item is composed by 13 digits, the last 4 digits indicate the type of packaging.

KEY PERFORMANCE

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 • Compatible with a wide range of refrigerants and lubricants • Low refrigerants permeability and moisture ingress

Specifications: SAE J2064 Type A Class I

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

CONSTRUCTION:

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

- REINFORCEMENT: one textile braid


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

REFRIGERANTS: compatibility with a wide range of refrigerants, such as R134a, R404A, R407C

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

CONTINUOUS WORKING TEMPERATURE

-40°C / +125°C • -40°F / +257°F

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

NOTE: Guaranteed performance only with our fittings

WARNING: Ask MRI about other refrigerants and lubricants



Refrigeration Fittings



REFRIGERATION FITTINGS

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STAR-FIT

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ORS FLAT SEAL FEMALE 45 DEGREE ELBOW	C22440	81
ORS FLAT SEAL FEMALE 90 DEGREE ELBOW	C22490	81

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FAST-CRIMP

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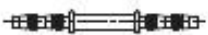
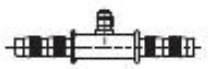


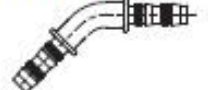

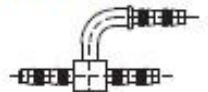

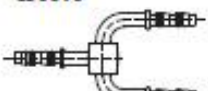

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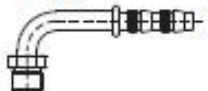





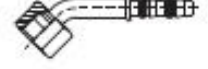
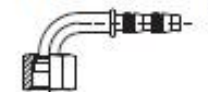


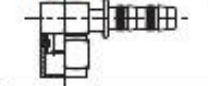
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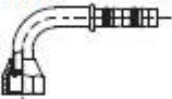
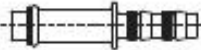
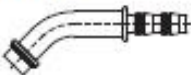
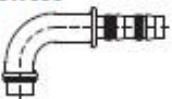





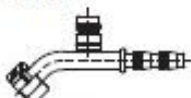

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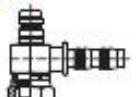
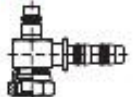




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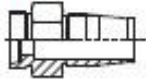
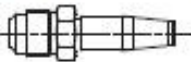


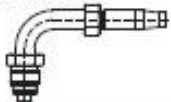
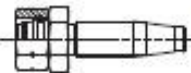
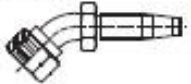
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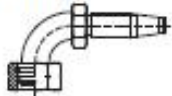

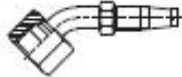

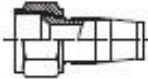
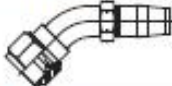
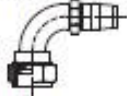

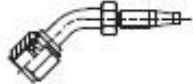

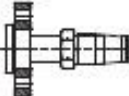
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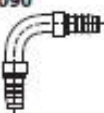
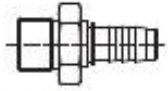
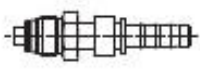
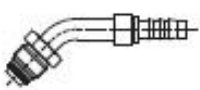
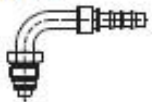
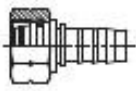
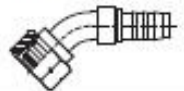
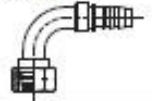
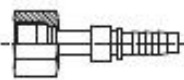
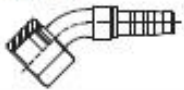
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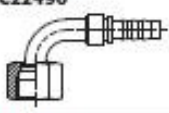
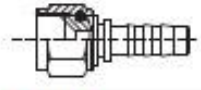
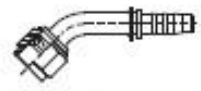
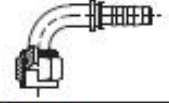
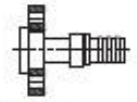
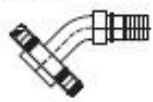
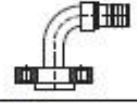
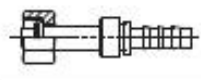
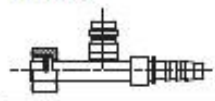
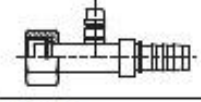

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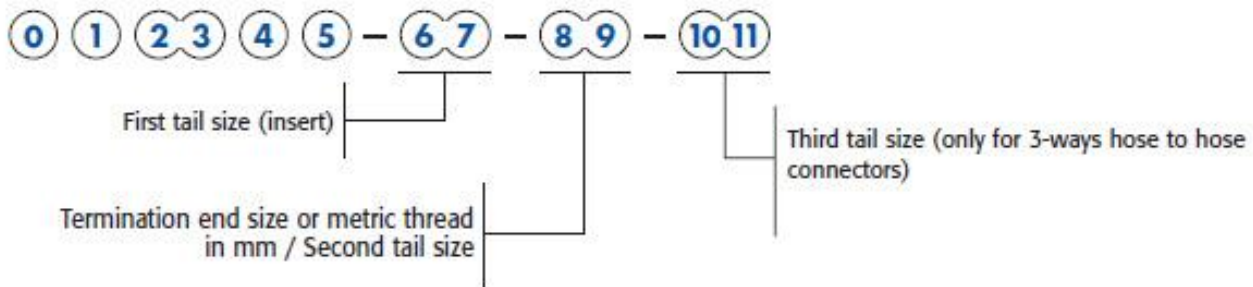
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OPC27986	SHORT VERSION O-RING FEMALE WITH LOW PRESSURE VALVE	87
OPC27990	O-RING FEMALE 90° ELBOW	86
OPC27995	O-RING FEMALE WITH HIGH PRESSURE VALVE 90° ELBOW	86
OPC27996	O-RING FEMALE WITH LOW PRESSURE VALVE 90° ELBOW	86

REFRIGERATION FITTINGS

FITTINGS - PART NUMBERING SYSTEM

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



DIGIT "0"

C Always

0 1 2 3 4 5

DIGIT "1"

- 1 Male or "Hose to hose" Connectors type Star-crimp
- 2 Female or Flange type Star-crimp
- 3 Male or "Hose to hose" Connectors type Frigoclic®
- 4 Female or Flange type Frigoclic®

0 1 2 3 4 5

DIGIT "2-3"

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

0 1 2 3 4 5

DIGIT "4"

- 1 Straight
- 2 22,5° Swept
- 3 30° Swept
- 4 45° Swept
- 6 60° Swept
- 7 67,5° Swept
- 8 Compact type
- 9 90° Swept
- H 3-ways connector with "h" configuration
- T 3-ways connector with "T" configuration
- Y 3-ways connector with "Y" configuration
- S Pipe with more than one bend

0 1 2 3 4 5

DIGIT "5"

- 0 No charge valve
- 2 1/4" SAE charge valve (thread 7/16"-20-UNF)
- 5 High Pressure charge valve
- 6 Low Pressure charge valve

0 1 2 3 4 5

REFRIGERATION FITTINGS

FITTINGS - PART NUMBERING SYSTEM

PRIORITY OF THE TAILS FOR "HOSE TO HOSE" CONNECTORS

Double connectors

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

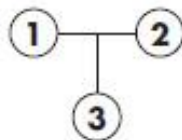
ONE PIECE tail → refer to ONE PIECE CODING
REUSABLE tail → refer to REUSABLE CODING
FRIGOCLIC® tail → refer to TWO PIECES CODING
STAR-CRIMP tail → refer to TWO PIECES CODING

RULES FOR THE SIZE INDICATION IN THE HOSE TO HOSE CONNECTORS

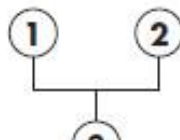
In the double connectors, when the tails are part of the same family, the first size is the smallest. If the tails have the same size, this is repeated two times.

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

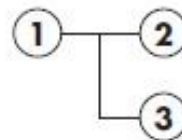
In the 3-ways connectors, tails in position "1" and "2" must be part of the same family. All the sizes are indicated following this order:



"T"
configuration



"Y"
configuration



"h"
configuration

CONNECTORS SUPPLIED WITH FERRULE OR CLAMP



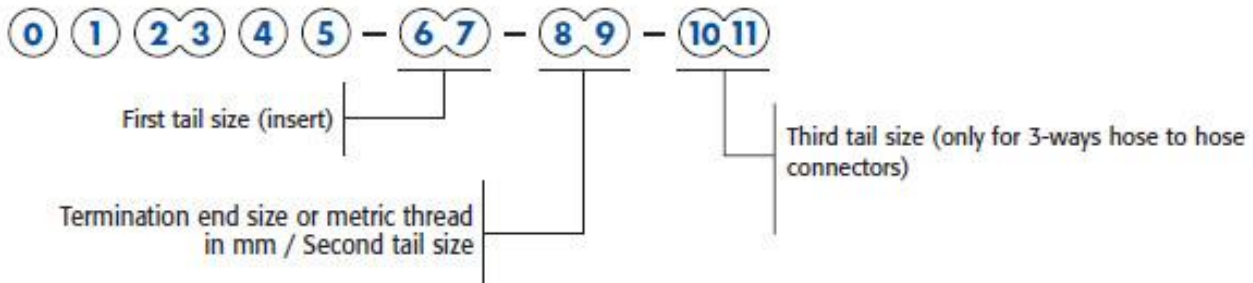
For connectors supplied with ferrule or clamp, the second dash is replaced by a letter referring to the type of ferrule or clamp:

- A Ferrule type C00700
- C Ferrule type C00300
- R Clamp type C01000

REFRIGERATION FITTINGS

FITTINGS - PART NUMBERING SYSTEM

REUSABLE & "HOSE TO HOSE" CONNECTORS



DIGIT "0"

K Always



DIGIT "1"

3 Male or "Hose to hose" Connectors (A/C and REFRI application)

4 Female or Flange (A/C and REFRI application)



DIGIT "2-3"

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



DIGIT "4"

- 1 Straight
- 2 22,5° Swept
- 3 30° Swept
- 4 45° Swept
- 6 60° Swept
- 7 67,5° Swept
- 8 Compact type
- 9 90° Swept
- H 3-ways connector with "h" configuration
- T 3-ways connector with "T" configuration
- Y 3-ways connector with "Y" configuration
- S Pipe with more than one bend



DIGIT "5"

- 0 No charge valve
- 2 1/4" SAE charge valve (thread 7/16"-20-UNF)
- 5 High Pressure charge valve
- 6 Low Pressure charge valve



REFRIGERATION FITTINGS

FITTINGS - PART NUMBERING SYSTEM

PRIORITY OF THE TAILS FOR "HOSE TO HOSE" CONNECTORS (A/C AND REFRI APPLICATION)

Double connectors

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

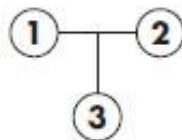
ONE PIECE tail → refer to ONE PIECE CODING
REUSABLE tail → refer to REUSABLE CODING
FRIGOCLIC® tail → refer to TWO PIECES CODING
STAR-CRIMP tail → refer to TWO PIECES CODING

RULES FOR THE SIZE INDICATION IN THE HOSE TO HOSE CONNECTORS

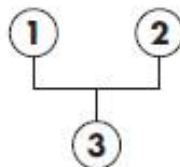
In the double connectors, when the tails are part of the same family, the first size is the smallest. If the tails have the same size, this is repeated two times.

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

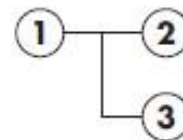
In the 3-ways connectors, tails in position "1" and "2" must be part of the same family. All the sizes are indicated following this order:



"T"
configuration



"Y"
configuration



"h"
configuration

CONNECTORS SUPPLIED WITH FERRULE (A/C AND REFRI APPLICATION)



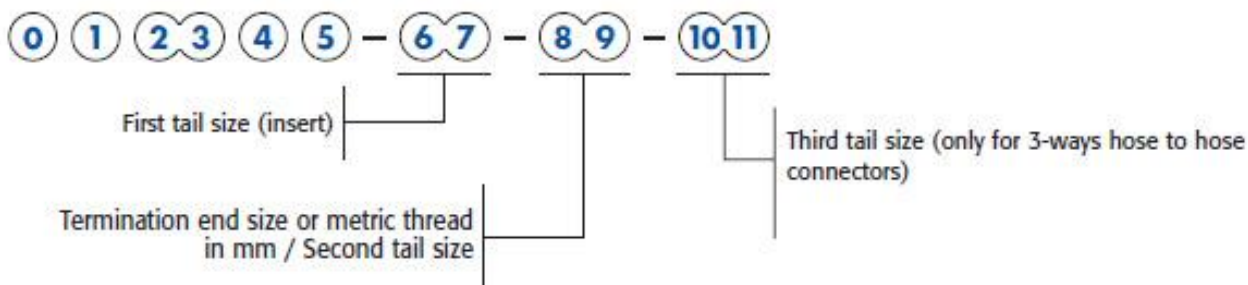
For connectors supplied with ferrule, the second dash is replaced by a letter referring to the type of ferrule or clamp:

B Ferrule type K00400

REFRIGERATION FITTINGS

FITTINGS - PART NUMBERING SYSTEM

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



DIGIT "0"

OPC Always

0 1 2 3 4 5

DIGIT "1"

1 Male or "Hose to hose" Connectors obtained by deformation

2 Female or flange obtained by deformation

3 Male or "Hose to hose" Connectors obtained by brazing

4 Female or flange obtained by brazing

0 1 2 3 4 5

DIGIT "2-3"

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

0 1 2 3 4 5

DIGIT "4"

1 Straight

2 22,5° Swept

3 30° Swept

4 45° Swept

6 60° Swept

7 67,5° Swept

8 Compact type

9 90° Swept

H 3-ways connector with "h" configuration

T 3-ways connector with "T" configuration

Y 3-ways connector with "Y" configuration

S Pipe with more than one bend

0 1 2 3 4 5

DIGIT "5"

0 No charge valve

2 1/4" SAE charge valve (thread 7/16"-20-UNF)

5 High Pressure charge valve

6 Low Pressure charge valve

0 1 2 3 4 5

REFRIGERATION FITTINGS

FITTINGS - PART NUMBERING SYSTEM

PRIORITY OF THE TAILS FOR "HOSE TO HOSE" CONNECTORS

Double connectors

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

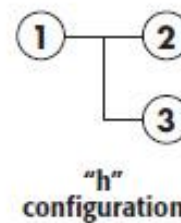
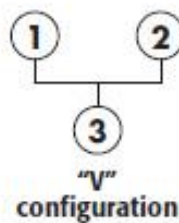
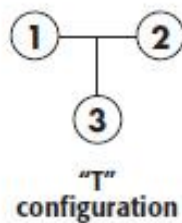
- ONE PIECE tail → refer to ONE PIECE CODING
- REUSABLE tail → refer to REUSABLE CODING
- FRIGOCLIC® tail → refer to TWO PIECES CODING
- STAR-CRIMP tail → refer to TWO PIECES CODING

3-ways connectors

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

RULES FOR THE SIZE INDICATION IN THE HOSE TO HOSE CONNECTORS

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



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



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

- A Ferrule type C00700
- B Ferrule type K00400
- C Ferrule type C00300
- R Clamp type C01000

REFRIGERATION FITTINGS

FITTINGS - PART NUMBERING SYSTEM

TERMINATION ENDS TYPE

DIGIT	DESCRIPTION / DESCRIPCIÓN
00	Double connector (same tail in two-ends connectors) / No end (plug) Conector doble (mismo terminal en los conectores de dos puntas) / No final (tapón)
10	Metric Thread (60° cone superlight) Rosca métrico (asiento a 60° cono super ligero)
11	Male Metric Thread (24° cone light type) Rosca métrico macho (asiento a 24° super ligero)
15	Female Metric Thread (24° cone O-ring light type) Rosca métrico hembra (asiento a 24° tipo O-ring ligero)
24	ORFS type / Tipo ORFS
25	JIC Thread (37° cone) / Rosca JIC (asiento a 37°)
26	SAE Thread (45° cone) / Rosca SAE (asiento a 45°)
27	JIC Thread double exag. 37° cone / ORFS type Bulkhead Rosca JIC doble hexágono 37° / tipo ORFS con manpalo
29	ORFS male type long / Flanged Block for compressor connection (A/C and Refri application) Macho para Conexión Rápida cono 30° (aplicación A/C y Refri)
37	Flange (A/C and Refri application) Flange (aplicación en aire acondicionado y refrigeración)
53	Manometer Port / Male for Quick Connection 30° cone seat (A/C and Refri application) Macho tipo largo/ Brida de Bloque para conexión al compresor (aplicación A/C y Refri)
76	Expansion valve (A/C and Refri application) Válvula de expansión (aplicación en aire acondicionado y refrigeración)
79	Female O-ring and Fixed male O-ring seat (A/C and Refri application) O-ring hembra y asiento fijo O-ring macho (aplicación en aire acondicionado y refrigeración)
80	Male Swivel O-ring (A/C and Refri application) Macho giratorio con O-ring (aplicación en aire acondicionado y refrigeración)

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

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

FITTINGS - PART NUMBERING SYSTEM – SPECIAL SUFFIX

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

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

SPECIAL SUFFIX

- 0 0 0** DROP OF THE ELBOW (in mm)
LONGITUD DEL CODO (en mm)
- S C** SOLID CONE (for special termination ends generally supplied with O-ring)
ASIENTO SOLIDO (para terminal especial generalmente suministrado con O-ring)
- Q** SPECIAL QUADRING GASKET (only refrigeration)

REFRIGERATION FITTINGS

FITTINGS - PART NUMBERING SYSTEM

SIZE DETERMINATION

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

CONNECTION SIZE

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

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

FLEXIBLE HOSE SIZE

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



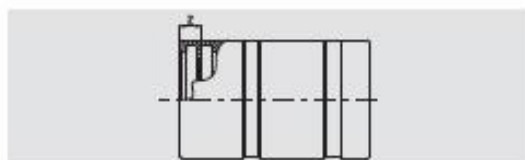
ON REQUEST

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

FRIGOCLIC® FITTINGS

SAE J2064 TYPE E

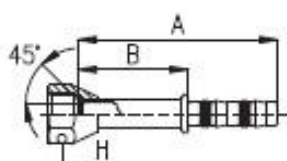
FRIGOCLIC® WITH FERRULE CUT-OFF DIMENSION



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



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



C42610

45° SAE STRAIGHT FEMALE

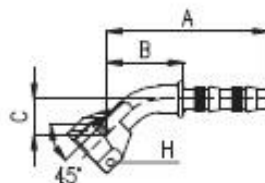
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch		A±2.5	B±2.5	H
C42610-06-04	8	- 06	5/16"	7/16"-20-UNF-2B	78,5	39,9	14
C42610-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	77,8	39,2	19
C42610-08-06	10	- 08	13/32"	5/8"-18-UNF-2B	78,0	39,4	19
C42610-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	86,1	47,5	22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

FRIGOCLIC® FITTINGS

SAE J2064 TYPE E

C42640

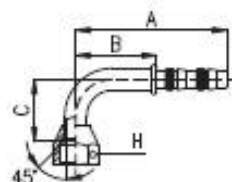
45° SAE FEMALE 45° ELBOW



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

C42690

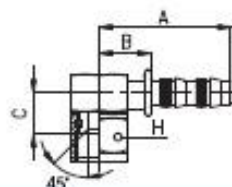
45° SAE FEMALE 90° ELBOW



INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
C42690-06-04	8	- 06	5/16"	7/16"-20-UNF-2B	70,5	31,9	33,0	14
C42690-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	81,8	43,2	26,0	19
C42690-08-06	10	- 08	13/32"	5/8"-18-UNF-2B	77,0	38,4	26,0	19
C42690-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	82,7	44,1	34,0	22
C42690-10-08	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

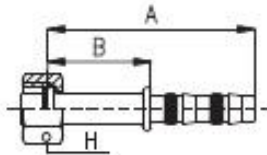
SHORT VERSION 45° SAE FEMALE 90° ELBOW



INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
C42680-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	65,0	27,0	20,0	27

FRIGOCLIC® FITTINGS

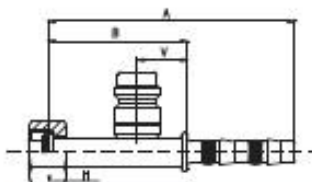
SAE J2064 TYPE E



C47910

STRAIGHT O-RING FEMALE

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	H	
C47910-06-06	8	-06	5/16"	5/8"-18-UNF-2B	68,9	30,3	19	
C47910-06-08	8	-06	5/16"	3/4"-16-UNF-2B	83,5	44,9	22	
C47910-08-06	10	-08	13/32"	5/8"-18-UNF-2B	74,0	35,4	19	
C47910-08-08	10	-08	13/32"	3/4"-16-UNF-2B	85,0	46,4	22	
C47910-08-08105	10	-08	13/32"	3/4"-16-UNF-2B	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	



C47915

STRAIGHT O-RING FEMALE WITH HIGH PRESSURE VALVE

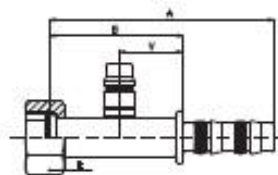
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	H	V±1
C47915-06-06	8	-06	5/16"	5/8"-18-UNF-2B	88,9	50,3	19	18,1
C47915-08-08	10	-08	13/32"	3/4"-16-UNF-2B	95,0	56,5	22	24,0
C47915-08-11	10	-08	13/32"	1"-14-UNS-2B	86,0	47,4	29	26,9
C47915-10-08	13	-10	1/2"	3/4"-16-UNF-2B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

FRIGOCLIC® FITTINGS

SAE J2064 TYPE E

C47916

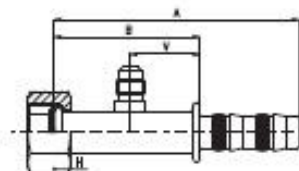
STRAIGHT O-RING FEMALE WITH LOW PRESSURE VALVE



INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		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

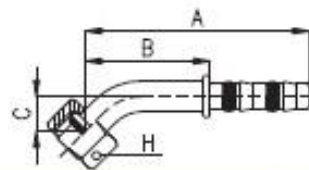
STRAIGHT O-RING FEMALE 1/4" SAE CHARGE VALVE



INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
C47912-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	95,0	56,4	27,0	27

C47940

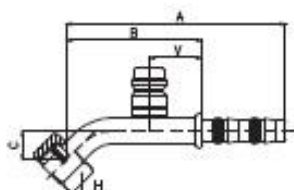
O-RING FEMALE 45° ELBOW



INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
C47940-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	84,9	46,3	12,5	19
C47940-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	91,3	52,7	13,5	22
C47940-08-11	10	- 08	13/32"	1"-14-UNS-2B	106,0	67,4	22,0	25
C47940-10-08	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

FRIGOCLIC® FITTINGS

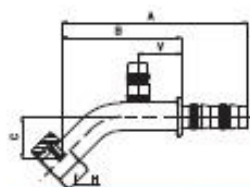
SAE J2064 TYPE E



C47945

O-RING FEMALE 45° ELBOW WITH HIGH PRESSURE VALVE

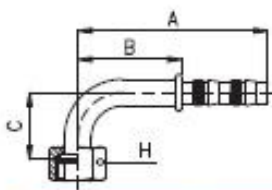
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H	V±1
C47945-08-08	10	-08	13/32"	3/4"-16-UNF-2B	101,3	62,7	13,5	22	24,4



C47946

O-RING FEMALE 45° ELBOW WITH LOW PRESSURE VALVE

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H	V±1
C47946-10-10	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

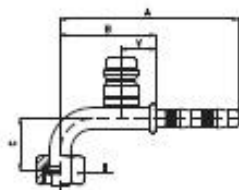
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
C47990-06-06	8	-06	5/16"	5/8"-18-UNF-2B	72,9	34,3	24,0	19
C47990-06-08	8	-06	5/16"	3/4"-16-UNF-2B	88,0	49,4	30,0	22
C47990-08-06	10	-08	13/32"	5/8"-18-UNF-2B	79,0	40,4	24,0	19
C47990-08-08	10	-08	13/32"	3/4"-16-UNF-2B	85,6	47,0	30,0	22
C47990-08-08037	10	-08	13/32"	3/4"-16-UNF-2B	89,1	50,5	36,5	22
C47990-08-11	10	-08	13/32"	1"-14-UNS-2B	84,0	45,4	39,0	25
C47990-10-08	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

FRIGOCLIC® FITTINGS

SAE J2064 TYPE E

C47995

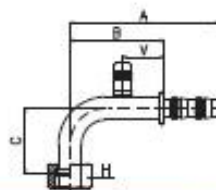
O-RING FEMALE 90° ELBOW WITH HIGH PRESSURE VALVE



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

C47996

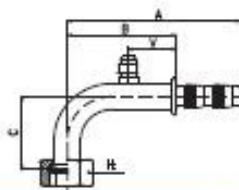
O-RING FEMALE 90° ELBOW WITH LOW PRESSURE VALVE



INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H	V±1
C47996-10-10	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

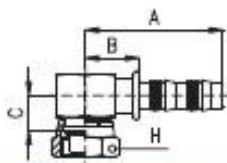
O-RING FEMALE 90° ELBOW WITH 1/4" SAE CHARGE VALVE



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

FRIGOCLIC® FITTINGS

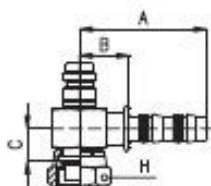
SAE J2064 TYPE E



C47980

SHORT VERSION O-RING FEMALE 90° ELBOW

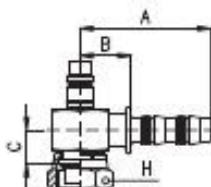
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
C47980-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	56,0	18,0	16,0	22
C47980-08-11	10	- 08	13/32"	1"-14-UNS-2B	59,5	21,5	16,4	29
C47980-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	58,5	20,5	16,4	27
C47980-10-11	13	- 10	1/2"	1"-14-UNS-2B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



C47985

SHORT VERSION O-RING FEMALE 90° ELBOW
WITH HIGH PRESSURE VALVE

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



C47986

SHORT VERSION O-RING FEMALE 90° ELBOW
WITH LOW PRESSURE VALVE

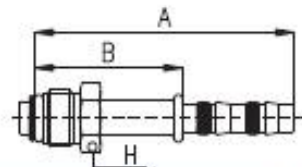
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
C47986-10-11	13	- 10	1/2"	1"-14-UNS-2B	59,5	21,5	16,4	29
C47986-12-11	16	- 12	5/8"	1"-14-UNS-2B	65,0	26,5	24,2	25

FRIGOCLIC® FITTINGS

SAE J2064 TYPE E

C38010

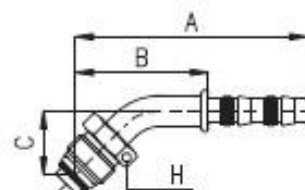
STRAIGHT O-RING MALE



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

C38040

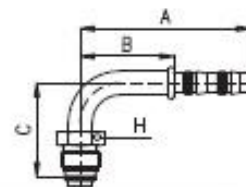
O-RING MALE 45° ELBOW



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

C38090

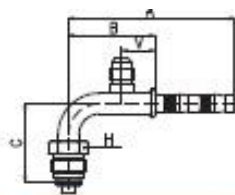
O-RING MALE 90° ELBOW



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

FRIGOCLIC® FITTINGS

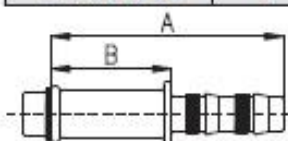
SAE J2064 TYPE E



C38092

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

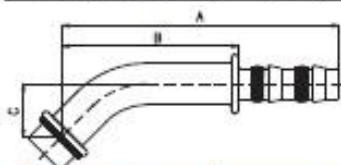
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H	V±1
C38092-06-06	8	- 06	5/16"	5/8"-18-UNF-2A	80,2	41,6	37,5	17	16,0



C47610

STRAIGHT FITTING FOR EXPANSION VALVE

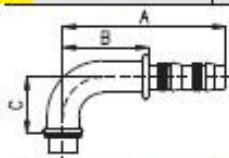
INSERT CODE ONLY	HOSE SIZE				DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5		
C47610-06-06	8	- 06	5/16"		77,9	39,3		
C47610-08-06	10	- 08	13/32"		84,1	45,5		
C47610-10-12	13	- 10	1/2"		92,0	53,4		
C47610-12-12	16	- 12	5/8"		92,0	53,4		



C47640

FITTING FOR EXPANSION VALVE 45° ELBOW

INSERT CODE ONLY	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	
VIEW C47640-12-12	16	- 12	5/8"		115,9	77,3	27,0	



C47690

FITTING FOR EXPANSION VALVE 90° ELBOW

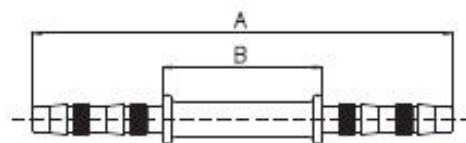
INSERT CODE ONLY	HOSE SIZE				DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	
C47690-06-06	8	- 06	5/16"		93,9	55,3	22,0	
VIEW C47690-10-10	13	- 10	1/2"		103,8	65,2	45,0	
C47690-10-12	13	- 10	1/2"		104,3	65,7	41,5	
C47690-12-12	16	- 12	5/8"		99,0	60,4	41,5	

FRIGOCLIC® FITTINGS

SAE J2064 TYPE E

C30010

STRAIGHT CONNECTION FITTINGS



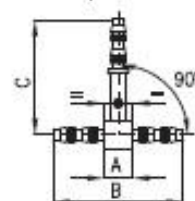
INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	
C30010-06-06	8	- 06	5/16"		120,0	42,8	
C30010-08-08	10	- 08	13/32"		124,0	47,0	
C30010-10-10	13	- 10	1/2"		124,0	47,0	
C30010-12-12	16	- 12	5/8"		124,0	47,0	

C300T0

3 WAYS CONNECTION FITTINGS



For clamp solution only
Unicamente para uso con abrazadera



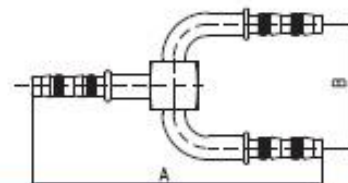
INSERT CODE ONLY	HOSE SIZE 1			HOSE SIZE 2			HOSE SIZE 3			DIMENSIONS mm		
	DN	Dash	Inch	DN	Dash	Inch	DN	Dash	Inch	A±2.5	B±2.5	C±2
C300T0-06-06-06	08	- 06	5/16"	08	- 06	5/16"	08	- 06	5/16"	22,8	100,0	85,5
C300T0-06-06-08	08	- 06	5/16"	08	- 06	5/16"	08	- 06	5/16"	22,8	100,0	85,5
C300T0-08-08-08	08	- 06	5/16"	08	- 06	5/16"	08	- 06	5/16"	22,8	100,0	86,5
C300T0-08-08-10	10	- 08	13/32"	10	- 08	13/32"	12	- 10	1/2"	22,8	100,0	86,5
C300T0-08-10-10	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"	12	- 10	1/2"	12	- 10	1/2"	22,8	100,0	86,5
C300T0-10-10-12	13	- 10	1/2"	12	- 10	1/2"	16	- 12	5/8"	22,8	100,0	86,5
C300T0-10-12-12	16	- 12	5/8"	12	- 10	1/2"	16	- 12	5/8"	22,8	100,0	86,5
C300T0-12-12-12	16	- 12	5/8"	16	- 12	5/8"	16	- 12	5/8"	22,8	100,0	88,5

C300Y0

"Y" CONNECTION FITTING



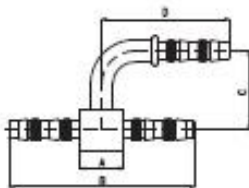
For clamp solution only
Unicamente para uso con abrazadera



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

FRIGOCLIC® FITTINGS

SAE J2064 TYPE E

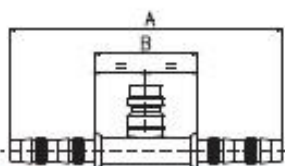


For clamp solution only
Unicamente para uso con abrazadera

C300h0

"h" CONNECTION FITTINGS

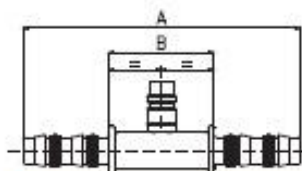
INSERT CODE ONLY	HOSE SIZE 1			HOSE SIZE 2			HOSE SIZE 3			DIMENSIONS mm			
	DN	Dash	Inch	DN	Dash	Inch	DN	Dash	Inch	A±2.5	B±2.5	C±2	D±2.5
C300h0-06-06-10	08	-06	5/16"	08	-06	5/16"	12	-10	1/2"	22,8	100,0	62,5	78,0
C300h0-08-08-08	10	-08	13/32"	10	-08	13/32"	10	-08	13/32"	22,8	100,0	42,5	68,0
C300h0-08-08-06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



C30015

STRAIGHT CONNECTION FITTING WITH HIGH PRESSURE VALVE

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

INSERT CODE ONLY	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		

FRIGOCLIC® FITTINGS

SAE J2064 TYPE E

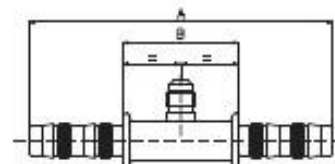
FRIGOCLIC® FITTINGS

REFRI❄MASTER

SAE J2064 TYPE E

C30012

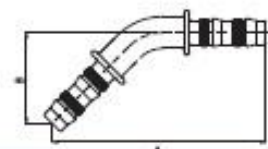
STRAIGHT CONNECTION FITTING 1/4" SAE CHARGE VALVE



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

C30040

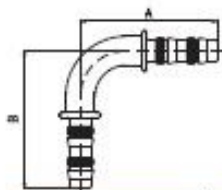
CONNECTION FITTING 45° ELBOW



INSERT CODE ONLY	HOSE SIZE				DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5		
C30040-06-06	8	- 06	5/16"		113,5	47,0		
C30040-08-08	10	- 08	13/32"		121,0	50,0		
C30040-10-10	13	- 10	1/2"		118,5	49,0		
C30040-12-12	16	- 12	5/8"		106,0	44,0		

FRIGOCLIC® FITTINGS

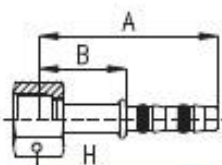
SAE J2064 TYPE E



C30090

CONNECTION FITTING 90° ELBOW

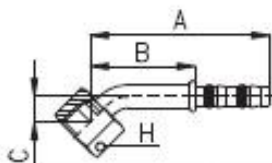
INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	
C30090-06-06	8	-06	5/16"		70,0	70,0	
C30090-08-08	10	-08	13/32"		75,0	75,0	
C30090-10-10	13	-10	1/2"		75,0	75,0	
C30090-12-12	16	-12	5/8"		75,0	75,0	



C42410

STRAIGHT ORS FLAT SEAL FEMALE

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



C42440

ORS FLAT SEAL FEMALE 45° ELBOW

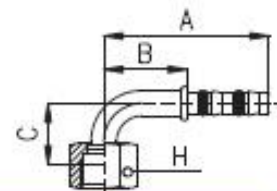
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
C42440-06-04	8	-06	5/16"	9/16"-18-UNF	64,0	25,4	10,0	19
C42440-06-06	8	-06	5/16"	11/16"-16-UN-2B	65,0	26,4	10,5	22
C42440-08-08	10	-08	13/32"	13/16"-16-UN-2B	93,0	54,4	13,0	27
C42440-10-08	10	-10	1/2"	13/16"-16-UN	93,0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

FRIGOCLIC® FITTINGS

SAE J2064 TYPE E

C42490

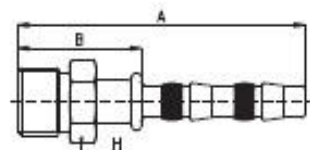
ORS FLAT SEAL FEMALE 90° ELBOW



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

C37910

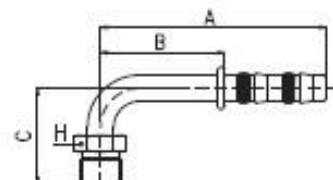
STRAIGHT MALE WITH O-RING SEAT



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

C37990

MALE WITH O-RING SEAT 90° ELBOW



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

STAR-FIT FITTINGS

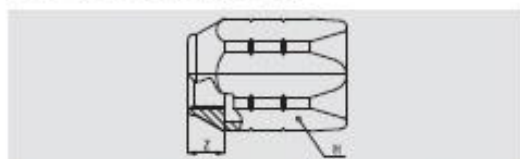
SAE J2064 TYPE B

REFRI STAR

STAR-FIT FITTINGS

SAE J2064 TYPE B

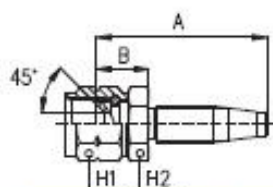
CUT-OFF DIMENSION



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



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



K42610

45° SAE STRAIGHT FEMALE

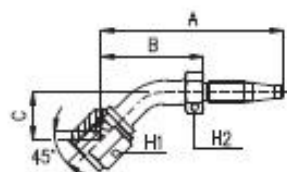
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	H1	H2
K42610-04-04	5	- 04	3/16"	7/16"-20-UNF-2B	41,0	14,0	15	15
K42610-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	50,5	15,5	19	19
K42610-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	59,0	18,0	22	22
K42610-10-08	12	- 10	1/2"	3/4"-16-UNF-2B	64,0	18,0	22	22
K42610-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	65,0	19,0	27	27
K42610-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	68,5	19,0	27	27
K42610-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	91,0	41,5	32	24
K42610-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	67,5	29,5	32	32
K42610-16-16H00	22	- 16	7/8"	1.5/16"-14-UNS-2B	61,5	14,5	38	38

STAR-FIT FITTINGS

SAE J2064 TYPE B

K42640

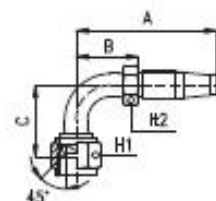
45° SAE FEMALE 45° ELBOW



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

K42690

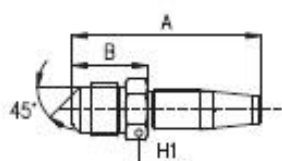
45° SAE FEMALE 90° ELBOW



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

STAR-FIT FITTINGS

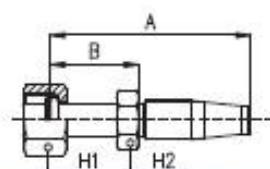
SAE J2064 TYPE B



K32610

STRAIGHT 45° SAE FLARE MALE

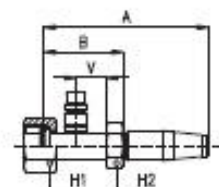
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch		A±2.5	B±2.5	H1
K32610-04-04	5	- 04	3/16"	7/16"-20-UNF-2B	47,5	18,7	12
K32610-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	57,7	22,7	16
K32610-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	68,0	27,0	19
K32610-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	78,4	32,4	24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



K47910

STRAIGHT O-RING FEMALE

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



K47916

STRAIGHT O-RING FEMALE WITH LOW PRESSURE VALVE

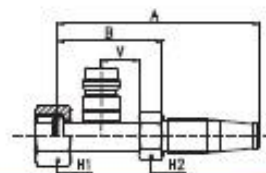
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A±2.5	B±2.5	V±1	H1	H2
K47916-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	101,5	52,0	16,0	27	24
K47916-16-12	22	- 16	7/8"	1.1/16"-14-UNF-2B	107,5	60,5	16,0	32	30

STAR-FIT FITTINGS

SAE J2064 TYPE B

K47915

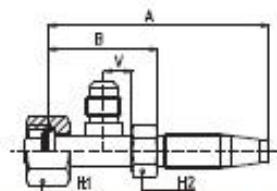
STRAIGHT O-RING FEMALE WITH HIGH PRESSURE VALVE



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

K47912

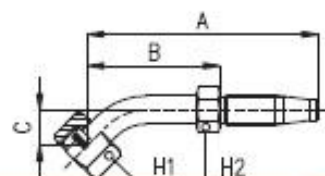
STRAIGHT O-RING FEMALE WITH 1/4" SAE CHARGE VALVE



INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A±2.5	B±2.5	V±1	H1	H2
K47912-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	67,3	32,3	9,0	19	14

K47940

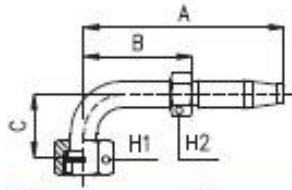
O-RING FEMALE 45° ELBOW



INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A±0.10	B±0.10	C±0.08	H1	H2
K47940-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	82,0	47,0	12,5	19	14
K47940-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	90,5	49,5	13,5	22	18
K47940-10-08	12	- 10	1/2"	3/4"-16-UNF-2B	95,5	49,5	13,5	22	21
K47940-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	117,0	71,0	24,0	27	21
K47940-10-11	12	- 10	1/2"	1"-14-UNF-2B	115,0	69,0	22,0	29	21
K47940-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	122,5	73,0	24,0	27	24
K47940-12-11	16	- 12	5/8"	1"-14-UNS-2B	120,5	71,0	22,0	29	24
K47940-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	130,5	81,0	27,0	32	24
K47940-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	128,0	81,0	27,0	32	30

STAR-FIT FITTINGS

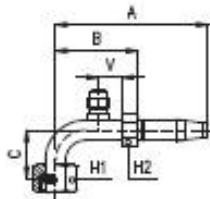
SAE J2064 TYPE B



K47990

O-RING FEMALE 90° ELBOW

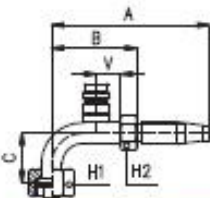
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A±0.10	B±0.10	C±0.08	H1	H2
K47990-06-06	8	-06	5/16"	5/8"-18-UNF-2B	74,0	39,0	24,0	19	14
K47990-08-06	10	-08	13/32"	5/8"-18-UNF-2B	81,5	40,5	24,0	19	18
K47990-08-08	10	-08	13/32"	3/4"-16-UNF-2B	89,5	48,5	30,0	22	18
K47990-10-10	12	-10	1/2"	7/8"-14-UNF-2B	109,5	63,5	45,0	27	21
K47990-12-10	16	-12	5/8"	7/8"-14-UNF-2B	115,0	65,5	45,0	27	24
K47990-12-12	16	-12	5/8"	1.1/16"-14-UNS-2B	119,5	70,0	54,5	32	24
K47990-16-10	22	-16	7/8"	7/8"-14-UNF-2B	112,5	65,5	45,0	27	30
K47990-16-12	22	-16	7/8"	1.1/16"-14-UNS-2B	117,0	70,0	54,5	32	30
K47990-20-12	28	-20	1.1/8"	1.1/16"-14-UNS-2B	115,0	69,0	54,5	32	36



K47992

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

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



K47995

O-RING FEMALE 90° ELBOW WITH HIGH PRESSURE VALVE

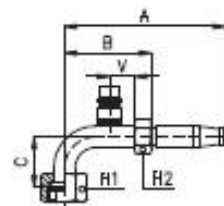
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm					
	DN	Dash	Inch		A±2.5	B±2.5	C±2	V±1	H1	H2
K47995-08-08	10	-08	13/32"	3/4"-16-UNF-2B	94,0	53,0	36,5	16,0	22	18

STAR-FIT FITTINGS

SAE J2064 TYPE B

K47996

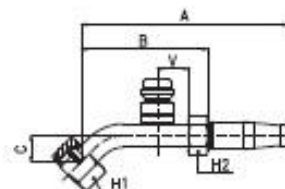
O-RING FEMALE 90° ELBOW WITH LOW PRESSURE VALVE



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

K47945

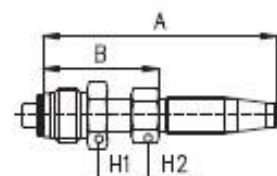
O-RING FEMALE 45° ELBOW WITH HIGH PRESSURE VALVE



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

K38010

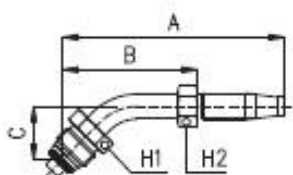
STRAIGHT O-RING MALE



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

STAR-FIT FITTINGS

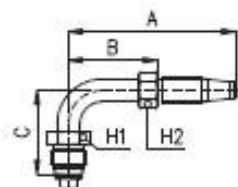
SAE J2064 TYPE B



K38040

O-RING MALE 45° ELBOW

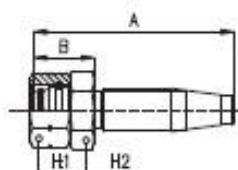
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H1	H2
K38040-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	89,5	54,5	21,5	17	14
K38040-08-08	10	- 08	13/32"	3/4"-18-UNS-2B	106,5	65,5	25,0	22	18
K38040-10-10	12	- 10	1/2"	7/8"-18-UNS-2B	121,5	75,5	28,5	22	21



K38090

O-RING MALE 90° ELBOW

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



K41510

STRAIGHT 24° DIN FLARE O-RING OGIVAL FEMALE

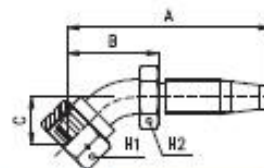
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H1	H2
K41510-12-26	16	- 12	5/8"	M 26x1.5	92,0	42,5	32	27	
K41510-12-30	16	- 12	5/8"	M 30x2	94,5	45,0	36	24	
K41510-16-30	22	- 16	7/8"	M 30x2	74,0	27,0	36	36	
K41510-16-36	22	- 16	7/8"	M 36x2	75,8	28,8	41	36	
K41510-20-36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

STAR-FIT FITTINGS

SAE J2064 TYPE B

K41540

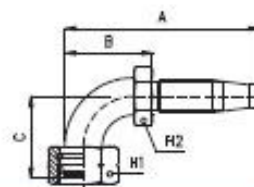
24° DIN FLARE O-RING OGIVAL FEMALE 45° ELBOW



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

K41590

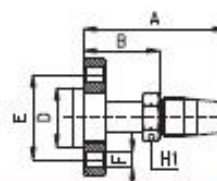
24° DIN FLARE O-RING OGIVAL FEMALE 90° ELBOW



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

K43710

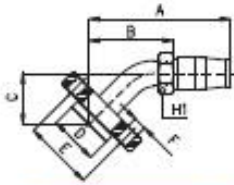
STRAIGHT FLANGE FITTING



INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm					
	DN	Dash	Inch		A±2.5	B±2.5	D	E	F	H1
K43710-16-16	22	- 16	7/8"		108,5	61,5	41,8	60,0	Ø 11,0	30
K43710-20-16	28	- 20	1.1/8"		102.5	56.5	41.8	60.0	Ø 11.0	36

STAR-FIT FITTINGS

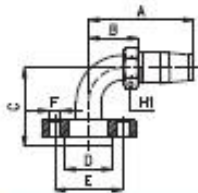
SAE J2064 TYPE B



K43740

FLANGE FITTING 45° ELBOW

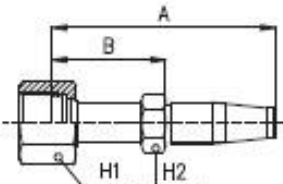
INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm						
	DN	Dash	Inch	A ± 2.5	B ± 2.5	C ± 2	D	E	F	H1
K43740-16-16	22	- 16	7/8"	119,0	72,0	44,0	41,8	60,0	Ø 11,0	30
K43740-20-16	28	- 20	1.1/8"	122,5	76,5	44,0	41,8	60,0	Ø 11,0	36



K43790

FLANGE FITTING 90° ELBOW

INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm						
	DN	Dash	Inch	A ± 2.5	B ± 2.5	C ± 2	D	E	F	H1
K43790-16-16	22	- 16	7/8"	90,5	43,5	79,5	41,8	60,0	Ø 11,0	30
K43790-20-16	28	- 20	1.1/8"	100,5	54,5	88,5	41,8	60,0	Ø 11,0	36
NEW K43790-20-16097	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

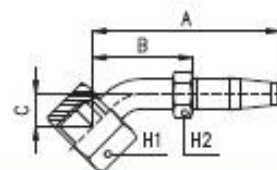
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A ± 2.5	B ± 2.5	H1	H2
K42410-04-04	5	- 04	3-16"	9/16"-18-UNF-2B	61,0	34,0	19	12
K42410-06-06	8	- 06	5-16"	11-16"-UN-2B	69,0	34,0	22	14
K42410-08-08	10	- 08	13/32"	13/16"-16-UN-2B	78,0	37,0	27	18
K42410-10-10	12	- 10	1/2"	1"-14-UNS-2B	93,5	47,5	30	21
K42410-12-12	16	- 12	5/8"	1.3/16"-12-UN-2B	99,0	49,5	36	24
K42410-12-16	16	- 12	5/8"	1.7/16"-12-UNF-2B	52,5	102,0	41	27
K42410-12-16079	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

STAR-FIT FITTINGS

SAE J2064 TYPE B

K42440

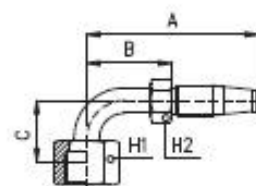
ORS FLAT SEAL FEMALE 45° ELBOW



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

K42490

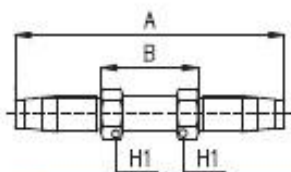
ORS FLAT SEAL FEMALE 90° ELBOW



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

STAR-FIT FITTINGS

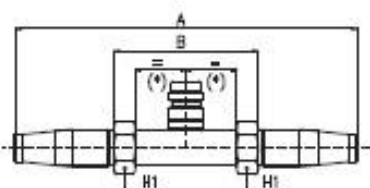
SAE J2064 TYPE B



K30010

STRAIGHT CONNECTION FITTING

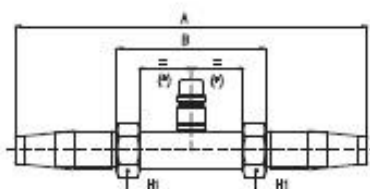
INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	H1
K30010-04-04	5	- 04	3/16"		89,0	35,0	12
K30010-06-06	8	- 06	5/16"		115,0	45,0	14
K30010-08-08	10	- 08	13/32"		128,0	46,0	18
K30010-10-10	12	- 10	1/2"		141,0	49,0	21
K30010-12-12	16	- 12	5/8"		154,5	55,5	24
K30010-16-16	22	- 16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



K30015

STRAIGHT CONNECTION FITTING WITH HIGH PRESSURE VALVE

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



K30016

STRAIGHT CONNECTION FITTING WITH LOW PRESSURE VALVE

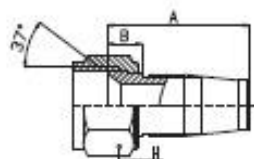
INSERT CODE ONLY	HOSE SIZE			DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	H1
K30016-10-10	12	- 10	1/2"		159,0	67,0	21
K30016-12-12	16	- 12	5/8"		181,0	82,0	24

STAR-FIT FITTINGS

SAE J2064 TYPE B

K42510

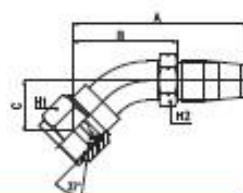
JIC 37° STRAIGHT FEMALE FITTING



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

K42540

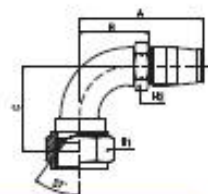
JIC 37° FEMALE FITTING 45° ELBOW



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

K42590

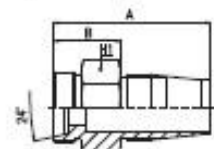
JIC 37° FEMALE FITTING 90° ELBOW



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

K31110

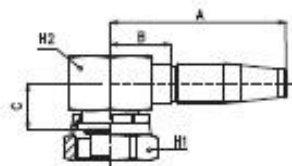
STRAIGHT 24° MALE DIN



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

STAR-FIT FITTINGS

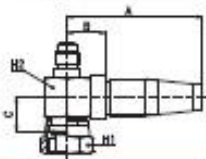
SAE J2064 TYPE B



K47980

SHORT VERSION O-RING FEMALE 90° ELBOW

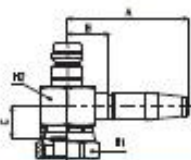
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H1	H2
K47980-08-11	10	- 08	13/32"	1"-14-UNF-2B	62,5	21,5	16,4	29	29
K47980-10-11	12	- 10	1/2"	1"-14-UNS-2B	67,5	21,5	16,4	29	29
K47980-12-11	16	- 12	5/8"	1"-14-UNS-2B	75,5	26,0	24,2	29	25



K47982

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

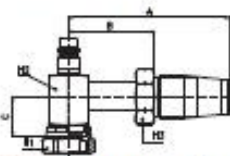
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H1	H2
K47982-10-08	12	- 10	1/2"	3/4"-16-UNF-2B	64,0	18,0	16,0	22	22
K47982-10-11	12	- 10	1/2"	1"-14-UNS-2B	67,5	21,5	16,4	29	29
K47982-12-08	16	- 12	5/8"	3/4"-16-UNF-2B	52,5	102,0	16,0	22	22
K47982-16-10	22	- 16	7/8"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



K47985

SHORT VERSION O-RING FEMALE 90° ELBOW WITH HIGH PRESSURE VALVE

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



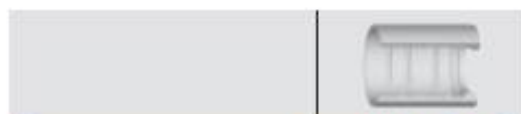
K47986

SHORT VERSION O-RING FEMALE 90° ELBOW WITH LOW PRESSURE VALVE

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

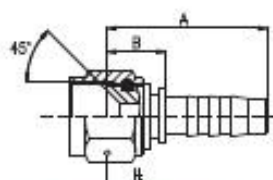
STAR-CRIMP FITTINGS

SAE J2064 TYPE B



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

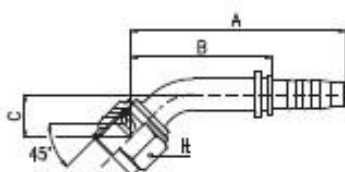


C22610

45° SAE STRAIGHT FEMALE

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



C22640

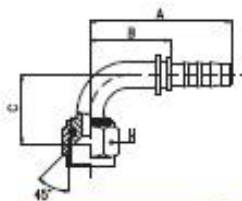
45° SAE FEMALE 45° ELBOW

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

STAR-CRIMP FITTINGS

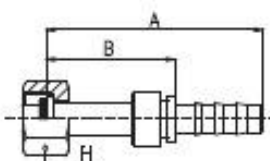
SAE J2064 TYPE B



C22690

45° SAE FEMALE 90° ELBOW

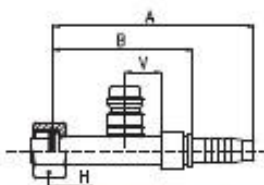
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
C22690-04-04	5	- 04	3/16"	7/16"-20-UNF-2B	52,2	32,5	26,0	15
C22690-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	57,0	31,0	29,5	19
C22690-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	64,5	36,5	31,5	22
C22690-10-10	12	- 10	1/2"	7/8"-14-UNF-2B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



C27910

STRAIGHT O-RING FEMALE

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



C27915

STRAIGHT O-RING FEMALE WITH HIGH PRESSURE VALVE

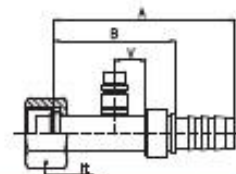
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	V±1	H
C27915-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	90.8	62.8	16,0	22
C27915-08-11	10	- 08	13/32"	1"-14-UNS-2B	78.0	50.0	16,0	29
C27915-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	94.5	63.0	16,0	32

STAR-CRIMP FITTINGS

SAE J2064 TYPE B

C27916

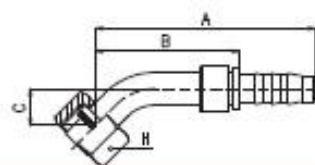
STRAIGHT O-RING FEMALE WITH LOW PRESSURE VALVE



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

C27940

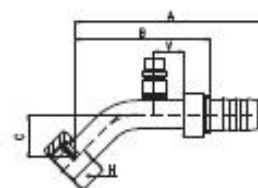
O-RING FEMALE 45° ELBOW



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

C27946

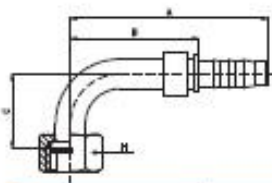
O-RING FEMALE 45° ELBOW WITH LOW PRESSURE VALVE



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

STAR-CRIMP FITTINGS

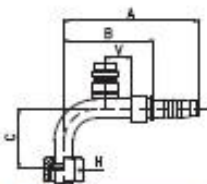
SAE J2064 TYPE B



C27990

O-RING FEMALE 90° ELBOW

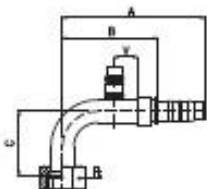
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
C27990-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	69,0	43,0	24,0	19
C27990-06-06036	8	- 06	5/16"	5/8"-18-UNF-2B	74,0	48,0	35,5	19
C27990-06-06060	8	- 06	5/16"	5/8"-18-UNF-2B	68,8	42,8	60,0	19
C27990-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	80,0	52,0	30,0	22
C27990-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	100,0	67,0	45,0	27
C27990-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	99,5	68,0	45,0	27
C27990-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	104,0	72,5	54,5	32
C27990-16-10	22	- 16	7/8"	7/8"-14-UNF-2B	104,0	70,0	45,0	27
C27990-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	107,0	74,0	54,5	32



C27995

O-RING FEMALE 90° ELBOW WITH HIGH PRESSURE VALVE

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



C27996

O-RING FEMALE 90° ELBOW WITH LOW PRESSURE VALVE

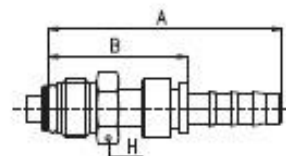
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A±2.5	B±2.5	C±2	V±1	H
C27996-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	99,8	67,0	45,0	16,0	27

STAR-CRIMP FITTINGS

SAE J2064 TYPE B

C18010

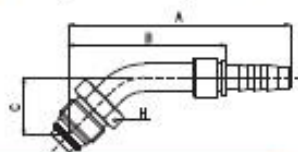
STRAIGHT O-RING MALE



INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5		H
C18010-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	63,8	38,0		17
C18010-16-10	22	- 16	7/8"	7/8"-14-UNF-2B	87,5	54,5		22

C18040

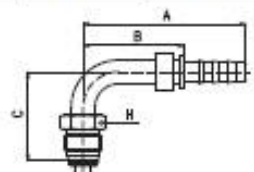
O-RING MALE 45° ELBOW



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

C18090

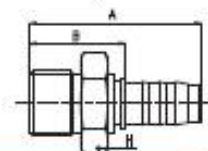
O-RING MALE 90° ELBOW



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

C17910

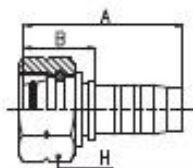
STRAIGHT MALE WITH O-RING SEAT



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

STAR-CRIMP FITTINGS

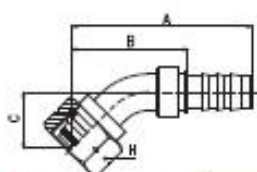
SAE J2064 TYPE B



C21510

STRAIGHT 24° DIN FLARE O-RING OGIVAL FEMALE

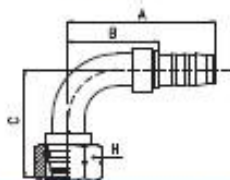
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5		H
C21510-16-30	22	- 16	7/8"	M 30x2	61,0	28,0		36
C21510-20-36	28	- 20	1.1/8"	M 36x2	74,5	30,5		41



C21540

24° DIN FLARE O-RING OGIVAL FEMALE 45° ELBOW

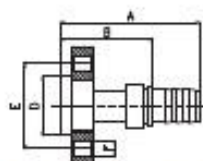
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
C21540-16-30	22	- 16	7/8"	M 30x2	95,0	62,0	29,0	36
C21540-20-36	28	- 20	1.1/8"	M 36x2	118,5	74,5	34,5	41



C21590

24° DIN FLARE O-RING OGIVAL FEMALE 90° ELBOW

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



C23710

STRAIGHT FLANGE FITTING

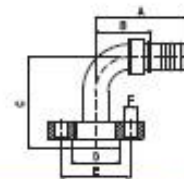
INSERT CODE ONLY	HOSE SIZE				DIMENSIONS mm				
	DN	Dash	Inch		A±2.5	B±2.5	D	E	F
C23710-16-16	22	- 16	7/8"		98,0	65,0	41,8	60,0	Ø 11,0
C23710-20-16	28	- 20	1.1/8"		115,0	71,0	41,8	60,0	Ø 11,0

STAR-CRIMP FITTINGS

SAE J2064 TYPE B

C23790

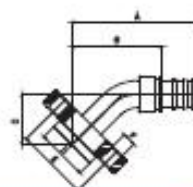
FLANGE FITTING 90° ELBOW



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

C23740

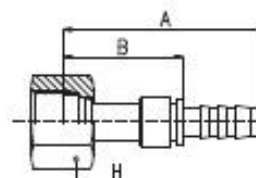
FLANGE FITTING 45° ELBOW



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

C22410

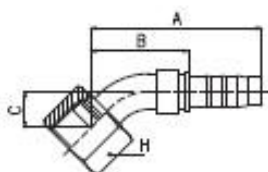
STRAIGHT ORS FLAT SEAL FEMALE



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

STAR-CRIMP FITTINGS

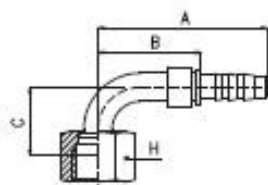
SAE J2064 TYPE B



C22440

ORS FLAT SEAL FEMALE 45° ELBOW

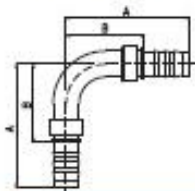
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
C22440-10-10	12	- 10	1/2"	1"-14-UNS-2B	77,0	44,0	16,0	30
C22440-16-16	22	- 16	7/8"	1.7/16"-12-UN-2B	106,5	73,5	40,5	41
C22440-20-20	28	- 20	1.1/8"	1.11/16"-12-UN-2B	115,0	71,0	25,5	50



C22490

ORS FLAT SEAL FEMALE 90° ELBOW

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




C10090

CONNECTION 90° ELBOW

INSERT CODE ONLY	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		

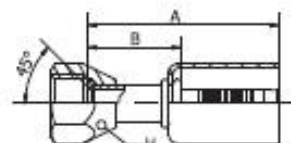
FAST-CRIMP FITTINGS

SAE J2064 TYPE A

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

OPC22610

45° SAE STRAIGHT FEMALE

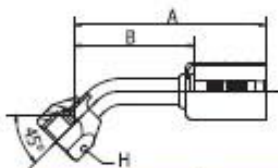


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch		A±2.5	B±2.5	H
OPC22610-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	53,2	26,0	19
OPC22610-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	58,7	28,5	22
OPC22610-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	60,7	30,0	27
OPC42610-12-12*	16	- 12	5/8"	1.1/16"-14-UNS	94,3	59,5	32

* Obtained by brazing / Obtenido por soldadura

FAST-CRIMP FITTINGS

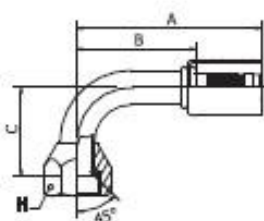
SAE J2064 TYPE A



OPC22640

45° SAE FEMALE 45° ELBOW

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



OPC22690

45° SAE FEMALE 90° ELBOW

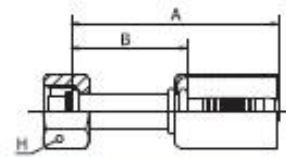
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
OPC22690-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	69,2	42,0	26,0	19
OPC22690-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	75,2	45,0	35,0	22
OPC22690-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	85,7	55,0	41,0	27

FAST-CRIMP FITTINGS

SAE J2064 TYPE A

OPC27910

STRAIGHT O-RING FEMALE

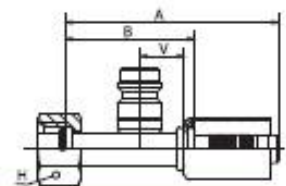


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch		A±2.5	B±2.5	H
OPC27910-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	61,2	34,0	19
OPC27910-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	66,2	36,0	22
OPC27910-08-11	10	- 08	13/32"	1"-14-UNS-2B	65,7	35,5	29
OPC27910-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	67,7	37,0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

OPC27915

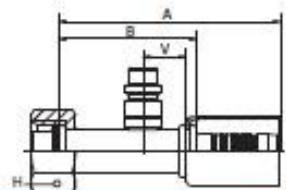
STRAIGHT O-RING FEMALE WITH HIGH PRESSURE VALVE



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

OPC27916

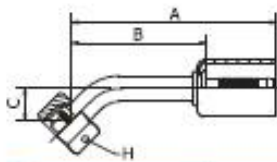
STRAIGHT O-RING FEMALE WITH LOW PRESSURE VALVE



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

FAST-CRIMP FITTINGS

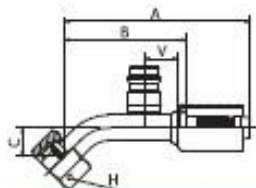
SAE J2064 TYPE A



OPC27940

O-RING FEMALE 45° ELBOW

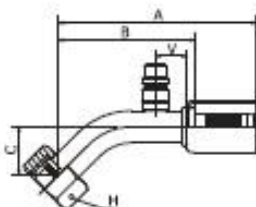
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
OPC27940-06-06	8	-06	5/16"	5/8"-18-UNF-2B	79,7	52,5	12,5	19
OPC27940-08-08	10	-08	13/32"	3/4"-16-UNF-2B	87,7	57,5	13,5	22
OPC27940-08-11	10	-08	13/32"	1"-14-UNS-2B	84,7	54,5	14,0	29
OPC27940-10-10	12	-10	1/2"	7/8"-14-UNF-2B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



OPC27945

O-RING FEMALE WITH HIGH PRESSURE VALVE 45° ELBOW

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



OPC27946

O-RING FEMALE WITH LOW PRESSURE VALVE 45° ELBOW

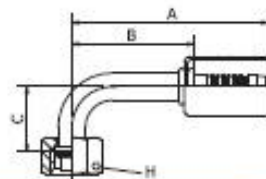
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A±2.5	B±2.5	C±2	V±1	H
OPC27946-10-10	12	-10	1/2"	7/8"-14-UNF-2B	98,7	68,0	24,0	16,0	27
OPC27946-10-11	12	-10	1/2"	1"-14-UNS-2B	97,7	67,0	22,0	16,0	29

FAST-CRIMP FITTINGS

SAE J2064 TYPE A

OPC27990

O-RING FEMALE 90° ELBOW

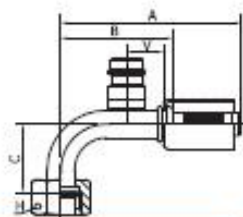


INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
OPC27990-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	72,2	45	24,0	19
OPC27990-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	78,7	48,5	30,0	22
OPC27990-08-11	10	- 08	13/32"	1"-14-UNS-2B	77,7	47,5	33,0	29
OPC27990-10-10	12	- 10	1/2"	7/8"-14-UNF-2B	91,7	61,0	46,5	27
OPC27990-10-11	12	- 10	1/2"	1"-14-UNS-2B	92,7	62,0	39,0	29
OPC27990-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	88,7	56,7	45,0	27
OPC27990-12-11	16	- 12	5/8"	1"-14-UNS-2B	92,2	60,2	38,0	29
OPC47990-12-12 *	16	- 12	5/8"	1.1/16"-14-UNS	102,8	68,0	54,5	32

* Obtained by brazing / Obtenido por soldadura

OPC27995

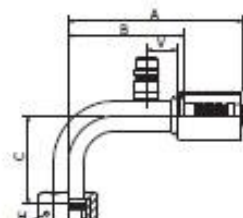
O-RING FEMALE WITH HIGH PRESSURE VALVE 90° ELBOW



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

OPC27996

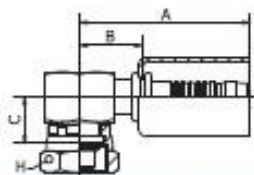
O-RING FEMALE WITH LOW PRESSURE VALVE 90° ELBOW



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

FAST-CRIMP FITTINGS

SAE J2064 TYPE A

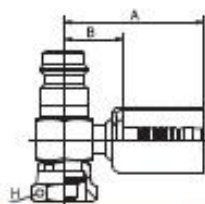


OPC27980

SHORT VERSION O-RING FEMALE

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
OPC27980-06-06	8	-06	5/16"	5/8"-18-UNF-2B	47,0	17,5	12,9	19
OPC27980-08-08	10	-08	13/32"	3/4"-16-UNF-2B	52,0	19,0	16,0	22
OPC27980-08-11	10	-08	13/32"	1"-14-UNS-2B	55,5	22,5	16,4	29
OPC27980-10-10	12	-10	1/2"	7/8"-14-UNF-2B	55,0	21,5	16,4	27
OPC27980-10-11	12	-10	1/2"	1"-14-UNS-2B	56,0	22,5	16,4	29
OPC47980-12-11 *	16	-12	5/8"	1"-14-UNS-2B	56,3	21,5	24,2	29

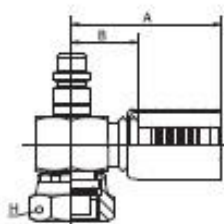
* Obtained by brazing / Obtenido por soldadura



OPC27985

SHORT VERSION O-RING FEMALE WITH HIGH PRESSURE VALVE

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



OPC27986

SHORT VERSION O-RING FEMALE WITH LOW PRESSURE VALVE

INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	H
OPC27986-10-10	12	-10	1/2"	7/8"-14-UNF-2B	55,0	21,5	16,4	27
OPC27986-10-11	12	-10	1/2"	1"-14-UNS-2B	56,0	22,5	16,4	29
OPC47986-12-11 *	16	-12	5/8"	1"-14-UNS-2B	56,3	21,5	24,2	29

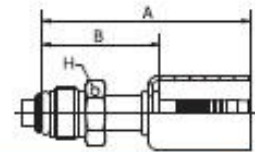
* Obtained by brazing / Obtenido por soldadura

FAST-CRIMP FITTINGS

SAE J2064 TYPE A

OPC18010

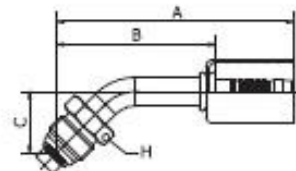
STRAIGHT O-RING MALE



INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch		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-UNS-2A	82,2	52,0	22
OPC18010-10-10	12	- 10	1/2"	7/8"-18-UNS-2A	74,2	43,5	22
OPC18010-12-10	16	- 12	5/8"	7/8"-18-UNS-2A	69,7	37,7	22

OPC18040

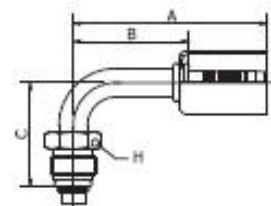
O-RING MALE 45° ELBOW



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

OPC18090

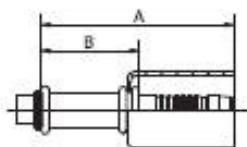
O-RING MALE 90° ELBOW



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

FAST-CRIMP FITTINGS

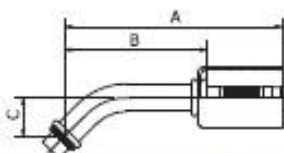
SAE J2064 TYPE A



OPC27610

STRAIGHT FITTING FOR EXPANSION VALVE

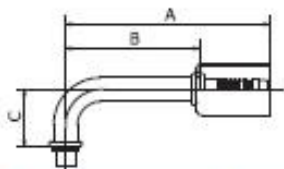
INSERT CODE ONLY	HOSE SIZE				DIMENSIONS mm		
	DN	Dash	Inch		A ± 2.5	B ± 2.5	
OPC27610-06-06	8	- 06	5/16"		55,2	28,0	
OPC27610-10-12	12	- 10	1/2"		56,7	26,0	



OPC27640

FITTING FOR EXPANSION VALVE 45° ELBOW

INSERT CODE ONLY	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	12	- 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

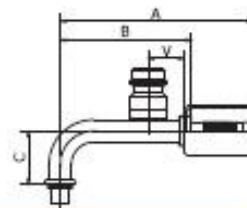
INSERT CODE ONLY	HOSE SIZE				DIMENSIONS mm		
	DN	Dash	Inch		A ± 2.5	B ± 2.5	C ± 2
OPC27690-06-06	8	- 06	5/16"		85,7	58,5	24,0
OPC27690-10-12	12	- 10	1/2"		94,2	63,5	42,5

FAST-CRIMP FITTINGS

SAE J2064 TYPE A

OPC27695

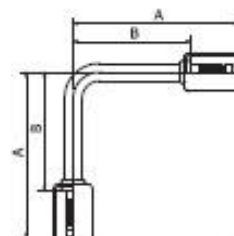
FITTING FOR EXPANSION VALVE
WITH HIGH PRESSURE VALVE 90° ELBOW



INSERT CODE ONLY	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

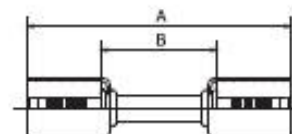
CONNECTION FITTING 90° ELBOW



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

OPC10010

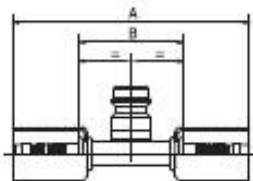
CONNECTION FITTING



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

FAST-CRIMP FITTINGS

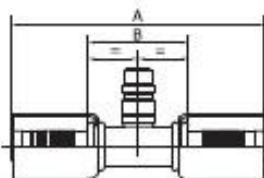
SAE J2064 TYPE A



OPC10015

CONNECTION FITTING WITH HIGH PRESSURE VALVE

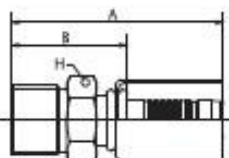
INSERT CODE ONLY	HOSE SIZE				DIMENSIONS mm		
	DN	Dash	Inch		A ± 2.5	B ± 2.5	
OPC10015-06-06	8	- 06	5/16"		97,4	43,0	
OPC10015-08-08	10	- 08	13/32"		94,0	33,6	



OPC10016

CONNECTION FITTING WITH LOW PRESSURE VALVE

INSERT CODE ONLY	HOSE SIZE				DIMENSIONS mm		
	DN	Dash	Inch		A ± 2.5	B ± 2.5	
OPC10016-10-10	12	- 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

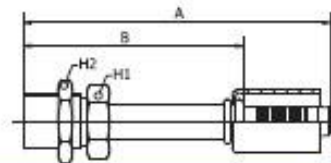
INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch		A ± 2.5	B ± 2.5	H
NEW OPC17910-06-06	8	- 06	5/16"	5/8"-18-UNF-2A	56,0	28,5	17
OPC17910-10-10	12	- 10	1/2"	7/8"-14-UNF-2A	68,3	33,8	24

FAST-CRIMP FITTINGS

SAE J2064 TYPE A

OPC17910...H

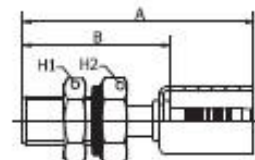
STRAIGHT MALE WITH O-RING SEAT WITH COUNTER NUT



INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	H1	H2
OPC17910-08-08H25	10	- 08	13/32"	3/4"-16-UNF-2A	106,2	76,0	22	25

OPC17910...H...Q

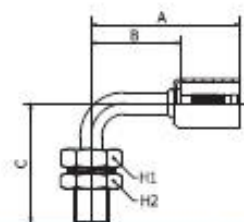
STRAIGHT MALE WITH O-RING SEAT WITH COUNTER NUT AND Q-RING



INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	H1	H2
OPC17910-06-06H24Q	8	- 06	5/16"	5/8"-18-UNF-2A	75,2	48,0	24	24
OPC17910-10-10H29Q	12	- 10	1/2"	7/8"-14-UNF-2A	82,7	52,0	29	29

OPC17990...H...Q

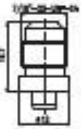


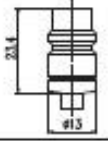
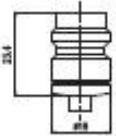
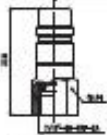
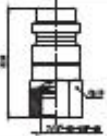


MALE WITH O-RING SEAT WITH COUNTER NUT AND Q-RING 90° ELBOW



INSERT CODE ONLY	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch		A±2.5	B±2.5	C±2.1	H1	H2
OPC17990-06-06H24Q	8	- 06	5/16"	5/8"-18-UNF-2A	68,4	41,2	55,0	24	24
OPC17990-10-10H30Q	12	- 10	1/2"	7/8"-14-UNF-2A	85,4	54,7	64,0	29	30

REFRIGERATION PRODUCT RANGE

ACCESSORIES

CODE CODIGO	VALVE TYPE TIPO DE VÁLVULA	CHARACTERISTICS CARACTERÍSTICAS	VALVE CORE MECANISMO	CAP TAPA
9000984		CHARGE VALVE - 1/4" SAE FOR R134A VÁLVULA DE CARGA - 1/4" SAE PARA R134A		
9000981		LOW PRESSURE CHARGE VALVE FOR R134A VÁLVULA DE CARGA DE BAJA PRESION PARA R134A		
9000980		HIGH PRESSURE CHARGE VALVE FOR R134A VÁLVULA DE CARGA DE ALTA PRESION PARA R134A		
9000983		LOW PRESSURE VALVE ADAPTER ADAPTADOR PARA VÁLVULA DE BAJA PRESION		
9000982		HIGH PRESSURE VALVE ADAPTER ADAPTADOR PARA VÁLVULA DE ALTA PRESION		
1003326		90° LOW PRESSURE VALVE ADAPTER 90° ADAPTADOR PARA VÁLVULA DE BAJA PRESION		
1004323		90° HIGH PRESSURE VALVE ADAPTER 90° ADAPTADOR PARA VÁLVULA DE ALTA PRESION		

CODE CODIGO	PLATE PLATINA	CHARACTERISTICS CARACTERÍSTICAS
9001181		PLATE TO FIX THE TUBE TO THE EXPANSION VALVE PLATINA PARA FIJAR EL TUBO A LA VÁLVULA DE EXPANSION
9001182		PLATE TO FIX THE TUBE TO THE EXPANSION VALVE PLATINA PARA FIJAR EL TUBO A LA VÁLVULA DE EXPANSION

REFRIGERATION PRODUCT RANGE

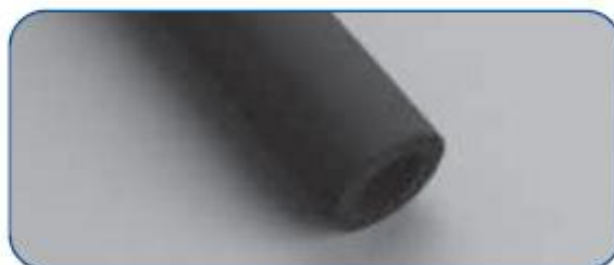
ACCESSORIES

ELASTOMERIC INSULATING SLEEVE

CODE	DESCRIPTION	I.D.	WALL THICKNESS
9001127	ARM-D12x6	12,0	6,0
9001128	ARM-D14x6	14,0	6,0
9001133	ARM-D18x9	18,0	9,0
9001134	ARM-D22x9	22,0	9,0

FURTHER DIMENSIONS AVAILABLE ON REQUEST

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



CORRUGATED TUBE

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

COMPOSITION: Modified polypropilen MAIN APPLICATION: Abrasion resistance



SLEEVE FOR PROTECTION FROM RADIANT HEAT

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

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

MAIN APPLICATION: Protection against heat radiation sources for A/C hose assemblies TECHNICAL DATA: Temperature resistance -40°C - +250°C



PLASTIC PROTECTIVE COIL SPRING

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

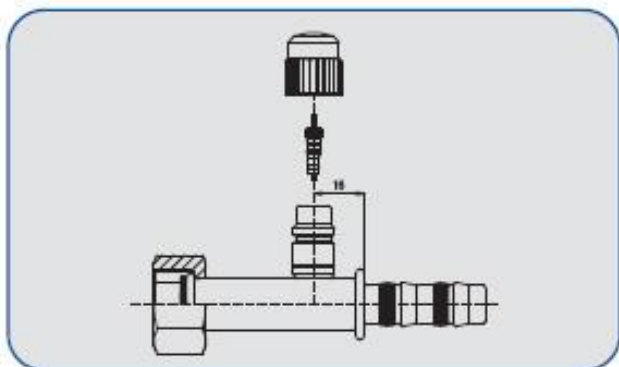
FURTHER DIMENSIONS AVAILABLE ON REQUEST

COMPOSITION: Black polyamide, rounded profile MAIN APPLICATION: Hose abrasion protection TECHNICAL DATA: Service Temperature range -40°C - +120°C

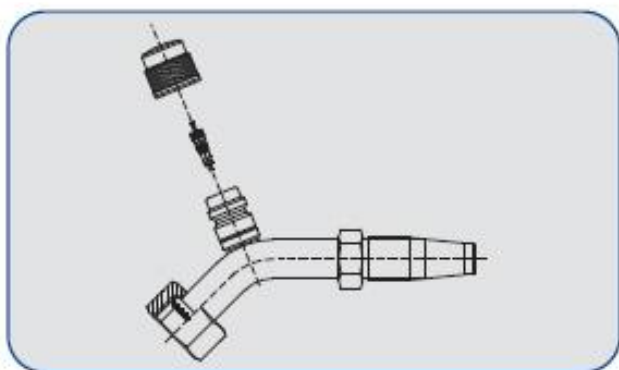


REFRIGERATION PRODUCT RANGE

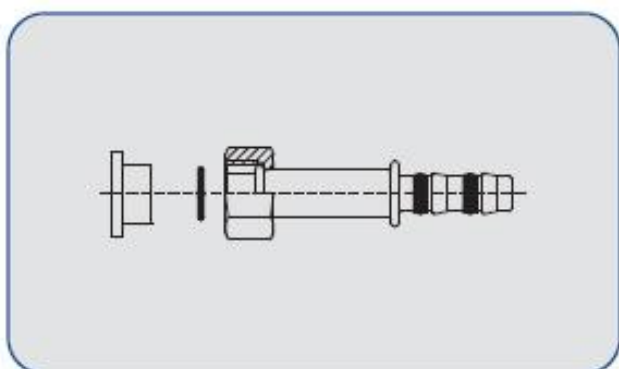
SPECIAL FEATURES



All fittings may be supplied with a charge valve equipped with cap and core positioned at 16 mm.



Different distances according to customer's request are feasible.



All fittings are equipped with protection cap and (where needed) a green HNBR O-ring.