

# QUADRA DN4

The **QUADRA DN4** flexible thermoplastic capillary hose, in two colors orange and black, are the ideal solution for equalizing and oil return lines.

The **QUADRA DN4** hoses have an internal diameter of 4 mm and therefore they can substitute copper rigid tubing of OD 6 mm or 1/4".










The **QUADRA DN4** hoses can be easily assembled with suitable fittings and crimped using the specific hydraulic crimper RXA005, or the all new QUADRA CRIMP RXA006-RXA008, otherwise a possible alternative is to use special reusable fittings where there are installations where special crimping tools are not available.

The **QUADRA DN4** hose can also be used, at the choice of the user, also for connection to the pressure gauges, pressure switches and test points as with QUADRA DN2.



# TECHNICAL DATA

## PERFORMANCE and condition of use

														
part number		DN	OD	WP			BP			WT		BEND RADIUS mm	CRIMPING DIAMETER Ø mm	CRIMPING DIAMETER Ø mm
50m	10m			bar	MPa	psi	bar	MPa	psi	min °C	max °C			
0789C 0789BC	0789K 0789BK	DN4	8,3	120	12,0	1740	600	60	8700	-45°	+130°	25	NA	9,8-0,1

### Classification of QUADRA capillary hoses

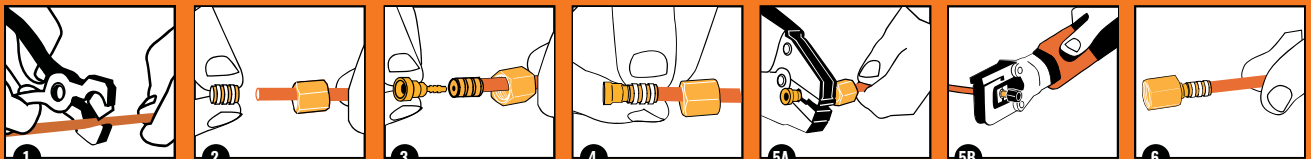
according to Directive 97/23/CE

PART NUMBER	CLASSIFICATION
0789C 0789BC 0789K 0789BK	paragraph 3 article 3

### PERMITTED FLUIDS

Type of Gas	Type of Oil
HFC (R134a, R404A, R407A, R407B, R407C, R410A, R507)	polyol ester based
HCFC (R22)	mineral oils
R744	polyol ester based

### Assembly instructions for crimping fittings for QUADRA DN4 capillary hose



1 Cut the QUADRA capillary hose to the required length using the special WXA004 cutter

2 Slip the nut over the hose (depending on fitting type). Ensure that the threaded side is pointing towards the end of the hose that needs the assembling.

3 When pushing the ferrule over the hose end, ensure its correct positioning, in line with the hose end. Push the insert into the hose end you want to assemble.

4 Pay attention not to move the components already fitted and slide the ferrule over the hose towards the insert positioning it in line with the insert.

5A Crimp the ferrule with our hand pliers tupe RXA007, up to the limit stop of the pliers: once the optimal deformation has been achieved the pliers will open automatically.

5B Crimp the ferrule using our pliers cod. RXA010. The deformation is achieved when the plier release.

6 The assembling is finished and the eventual nut can easily slide over the ferrule: check the correct positioning of the components and make sure the entire surface of the ferrule has been swaged.

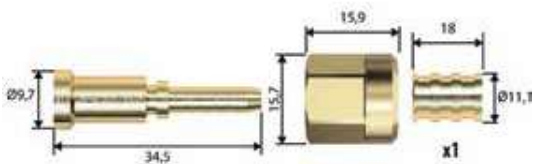


### Note:

Once the hose has been installed in the system, do not move or rotate it, to avoid unscrewing of the nut or damaging the fitting and the risk of leakage. Do not exceed maximum performance limits. Respect the nut torque value: - Torque wrench 14 7/16" - 20 UNF for 1/4" SAE connections | 16 ± 18 N-m. Do not exceed 20 N-m - Torque wrench 22 5/8" - 18 UNF for 3/8" SAE connections | 30 ± 32 N-m. Do not exceed 34 N-m.

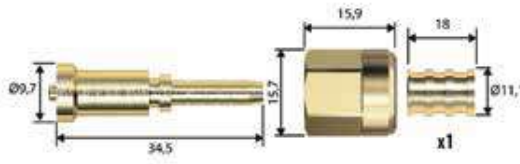
# QUADRA DN4 fittings

## 1/4 SAE Straight Female Fitting



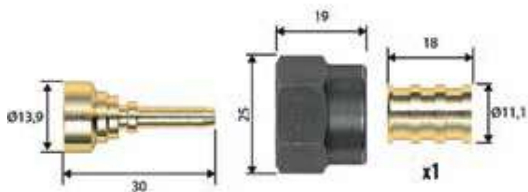
Part number	<b>XBA02M</b>	<b>WBA02M</b>	<b>KBA02M</b>
Pack	50 pcs	50 pcs	10 pcs
Copper gasket		<del></del>	<del></del>

## 1/4 SAE Straight Female Fitting + Valve Opener



Part number	<b>XBB22M</b>	<b>WBB22M</b>	<b>KBB22M</b>
Pack	50 pcs	50 pcs	10 pcs
Copper gasket		<del></del>	<del></del>

## 3/8 SAE Straight Female Fitting



Part number	<b>XBA04M</b>	<b>WBA04M</b>	<b>KBA04M</b>
Pack	50 pcs	50 pcs	10 pcs
Copper gasket		<del></del>	<del></del>

## 1/4 SAE Elbow Female 90°



Part number	<b>XCA02M</b>	<b>WCA02M</b>	<b>KCA02M</b>
Pack	50 pcs	50 pcs	10 pcs
Copper gasket		<del></del>	<del></del>

## 3/8 SAE Elbow Female 90°



Part number	<b>XCA04M</b>	<b>WCA04M</b>	<b>KCA04M</b>
Pack	50 pcs	50 pcs	10 pcs
Copper gasket		<del></del>	<del></del>

## "T" Fitting

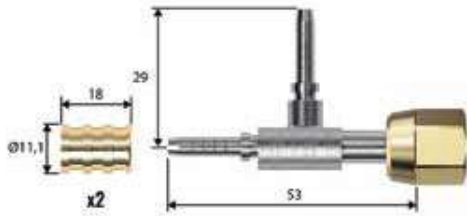


Part number		<b>WPBOM1</b>	<b>KPBOM1</b>
Pack		50 pcs	10 pcs
gasket		<del></del>	<del></del>

QUADRA: DN2  
 QUADRA: DN4  
 QUADRA: DN6  
 QUADRA: PACKAGES  
 QUADRA: ACCESSORIES

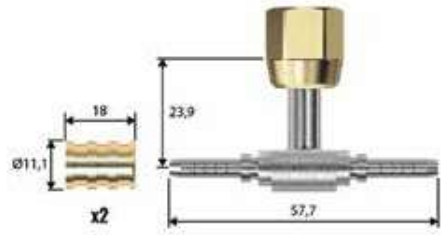
# QUADRA DN4 fittings

“T” Fitting With One Female 1/4 SAE



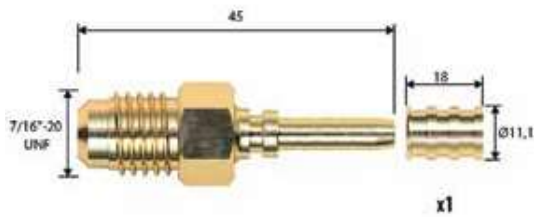
Part number	<b>XPB2M4</b>	<b>WPB2M4</b>	<b>KPB2M4</b>
Pack	50 pcs	50 pcs	10 pcs
Copper gasket		<del></del>	<del></del>

“T” Fitting With One Female 1/4 SAE



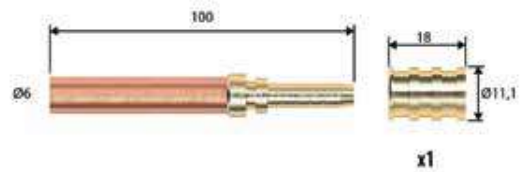
Part number	<b>XPB2M2</b>	<b>WPB2M2</b>	<b>KPB2M2</b>
Pack	50 pcs	50 pcs	10 pcs
Copper gasket		<del></del>	<del></del>

1/4 SAE Straight Male Fitting



Part number		<b>WDN22M</b>	<b>KDN22M</b>
Pack		50 pcs	10 pcs
Copper gasket		<del></del>	<del></del>

Copper Brazing Fitting (4x6x100 mm)



Part number		<b>WZE2M1</b>	
Pack		50 pcs	
Copper gasket		<del></del>	

# accessories for **QUADRA DN4** hoses

## HYDRAULIC PLIERS



Part number	<b>RXA005</b>
Pack	1 pcs

## CUTTER AND BLADES

Cutter



Cutter blades



Part number	<b>WXA004</b>	<b>WXB004</b>
Pack	1 pcs	2 pcs

## VALVE OPENER, GASKET AND NUT CAPS

Removable valve opener



Copper gasket 1/4



Copper gasket 3/8



QUADRA 1/4 fitting plugs



QUADRA 3/8 fittings plugs



Part number	<b>WTD2Z1</b>	<b>WRP502</b>	<b>WRP5004</b>	<b>WRW912</b>	<b>WRW914</b>
Pack	50 pcs	50 pcs	50 pcs	50 pcs	50 pcs

## ELECTRIC PLIER

details on page 58



Part number	<b>RXA011</b> <b>RXA012</b>
Pack	1 pcs



## QUADRA CASE

Empty



Part number	<b>MR293</b>
Pack	1 pcs

QUADRA: DN2

QUADRA: DN4

QUADRA: DN6



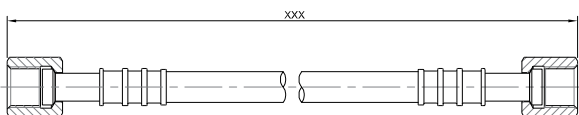
QUADRA: PACKAGES



QUADRA: ACCESSORIES

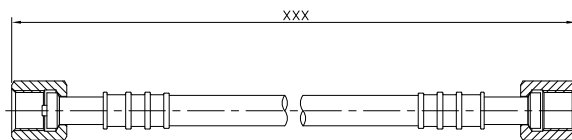
# QUADRA DN4 assembled capillary hoses

Straight female 1/4 + Straight female 1/4



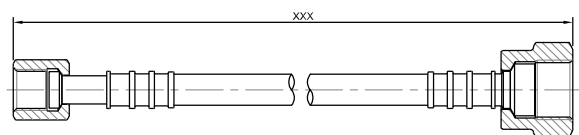
Part number	<b>CAFXXX</b>	<b>CCGXXX</b>
Pack	 50 pcs	 50 pcs

Straight Female 1/4 + Straight Female 1/4 + Valve Opener



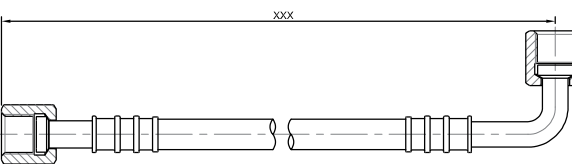
Part number	<b>CHVXXX</b>	<b>CHWXXX</b>
Pack	 50 pcs	 50 pcs

Straight female 1/4 + Straight female 3/8



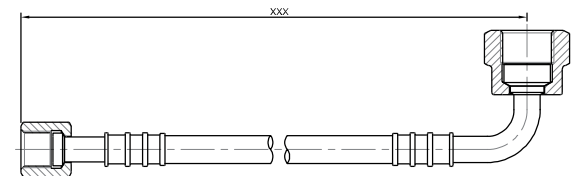
Part number	<b>CCMXXX</b>	<b>CCNXXX</b>
Pack	 50 pcs	 50 pcs


Straight female 1/4 + Elbow female 90° 1/4



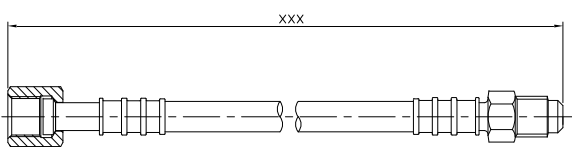
Part number	<b>CAGXXX</b>	<b>CCHXXX</b>
Pack	 50 pcs	 50 pcs

Straight female 1/4 + Elbow female 90° 3/8



Part number	<b>CDSXXX</b>	<b>CDWXXX</b>
Pack	 50 pcs	 50 pcs

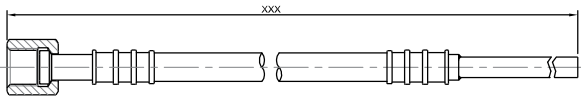
Straight Female 1/4 + Male 1/4



Part number	<b>CIRXXX</b>	<b>CISXXX</b>
Pack	 50 pcs	 50 pcs

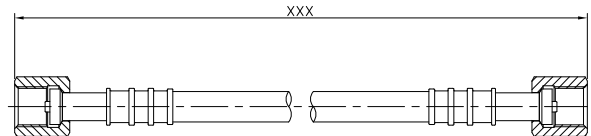
# QUADRA DN4 assembled capillary hoses


Straight female 1/4 + Copper brazing tube



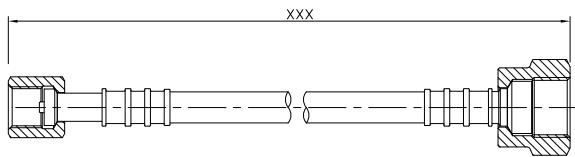
Part number	<b>CHBXXX</b>	<b>GHCXXX</b>
Pack	 50 pcs	 50 pcs

1/4 Straight Female + 1/4 Straight Female (all with Valve Opener)



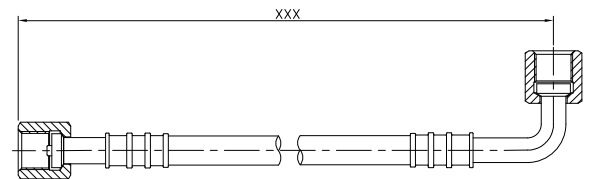
Part number	<b>CHZXXX</b>	<b>CIAXXX</b>
Pack	 50 pcs	 50 pcs

1/4 Straight Female (Valve Opener) + 3/8 Straight Female



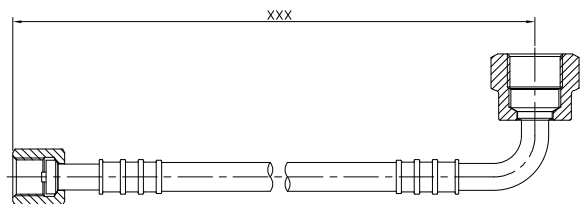
Part number	<b>CIFXXX</b>	<b>CIGXXX</b>
Pack	 50 pcs	 50 pcs

1/4 Straight Female (Valve Opener) + 1/4 Elbow Female



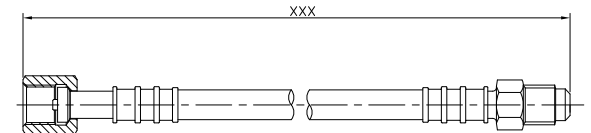
Part number	<b>CIBXXX</b>	<b>CICXXX</b>
Pack	 50 pcs	 50 pcs

1/4 Straight Female (Valve Opener) + 3/8 Elbow Female



Part number	<b>CIDXXX</b>	<b>CIEXXX</b>
Pack	 50 pcs	 50 pcs

1/4 Straight Female (Valve Opener) + 1/4 Male



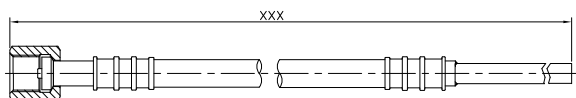
Part number	<b>CHXXX</b>	<b>CHYXXX</b>
Pack	 50 pcs	 50 pcs

 - QUADRA orange       - QUADRA black  
**xxx** - total length of QUADRA capillary hose in cm (multiple lengths of 10 cm)



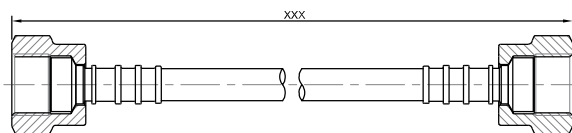
# QUADRA DN4 assembled capillary hoses

1/4 Straight Female (Valve Opener) + Copper Brazing Tube



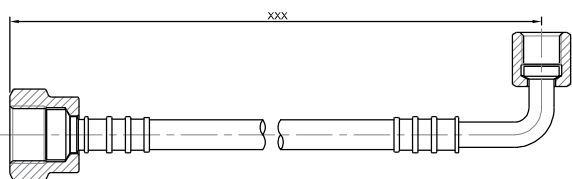
Part number	<b>CIHXXX</b>	<b>CIIXXX</b>
Pack	 50 pcs	 50 pcs

Straight Female 3/8 + Straight Female 3/8



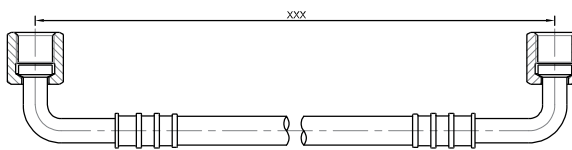
Part number	<b>CCKXXX</b>	<b>CCLXXX</b>
Pack	 50 pcs	 50 pcs

Elbow Female 1/4 + Straight Female 90° 3/8



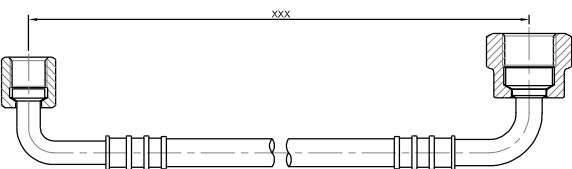
Part number	<b>CCPXXX</b>	<b>CCQXXX</b>
Pack	 50 pcs	 50 pcs

Elbow Female 90° 1/4 + Elbow Female 90° 1/4



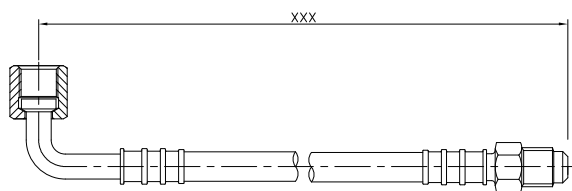
Part number	<b>CAHXXX</b>	<b>CCIXXX</b>
Pack	 50 pcs	 50 pcs

Elbow Female 90° 1/4 + Elbow Female 90° 3/8



Part number	<b>CDTXXX</b>	<b>CDXXX</b>
Pack	 50 pcs	 50 pcs

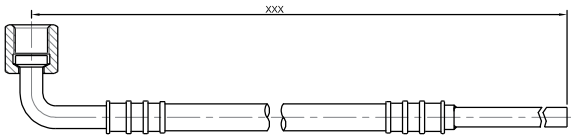
Elbow Female 90° 1/4 + 1/4 Male



Part number	<b>CIJXXX</b>	<b>CIKXXX</b>
Pack	 50 pcs	 50 pcs

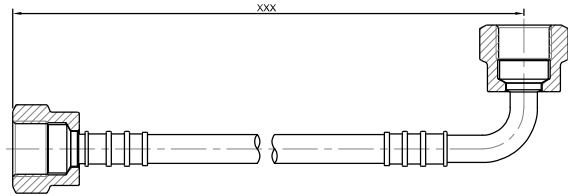
# QUADRA DN4 assembled capillary hoses



Elbow Female 90° 1/4 + Copper brazing tube



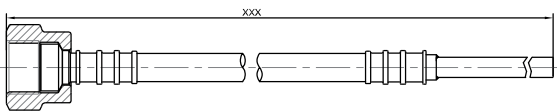
Part number	<b>CHFXXX</b>	<b>CHGXXX</b>
Pack	 50 pcs	 50 pcs


Straight Female 3/8 + Elbow Female 90° 3/8



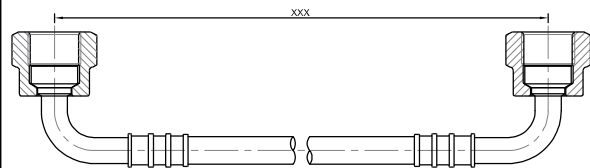
Part number	<b>CDRXXX</b>	<b>CDVXXX</b>
Pack	 50 pcs	 50 pcs



Straight Female 3/8 + Copper brazing tube



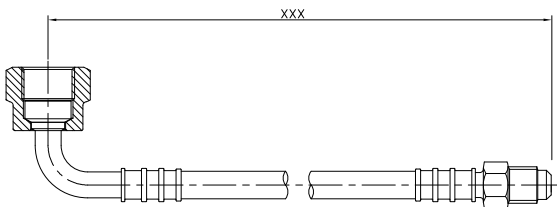
Part number	<b>CHDXXX</b>	<b>CHEXXX</b>
Pack	 50 pcs	 50 pcs

Elbow Female 90° 3/8 + Elbow Female 90° 3/8



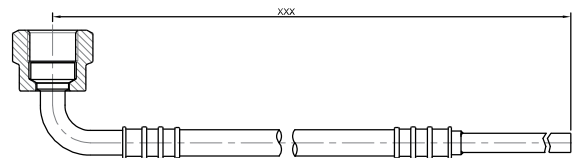
Part number	<b>CDUXXX</b>	<b>CDYXXX</b>
Pack	 50 pcs	 50 pcs

Elbow Female 90° 3/8 + 1/4 Male



Part number	<b>CILXXX</b>	<b>CIMXXX</b>
Pack	 50 pcs	 50 pcs

Elbow Female 90° 3/8 + Copper Brazing Tube



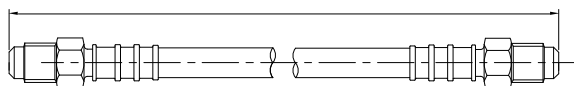
Part number	<b>CHHXXX</b>	<b>CHIXXX</b>
Pack	 50 pcs	 50 pcs


 - QUADRA orange       - QUADRA black  
 XXX - total length of QUADRA capillary hose in cm (multiple lengths of 10 cm)



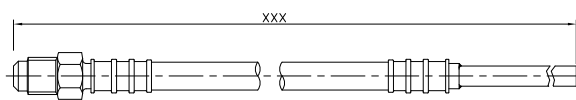
# QUADRA DN4 assembled capillary hoses

1/4 Male + 1/4 Male



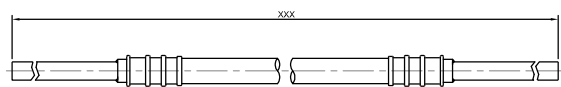
Part number	<b>CINXXX</b>	<b>CIOXXX</b>
Pack	 50 pcs	 50 pcs



1/4 Male + Copper brazing tube



Part number	<b>CIPXXX</b>	<b>CIQXXX</b>
Pack	 50 pcs	 50 pcs

Copper Brazing Tube + Copper Brazing Tube

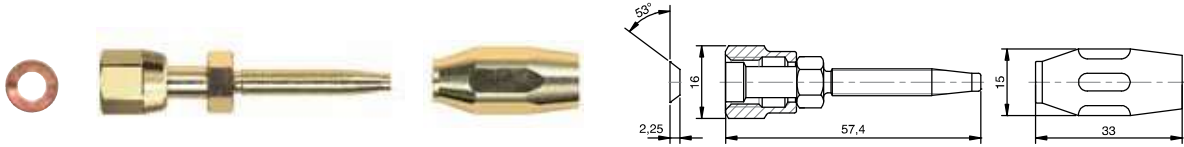


Part number	<b>CHJXXX</b>	<b>CHKXXX</b>
Pack	 50 pcs	 50 pcs



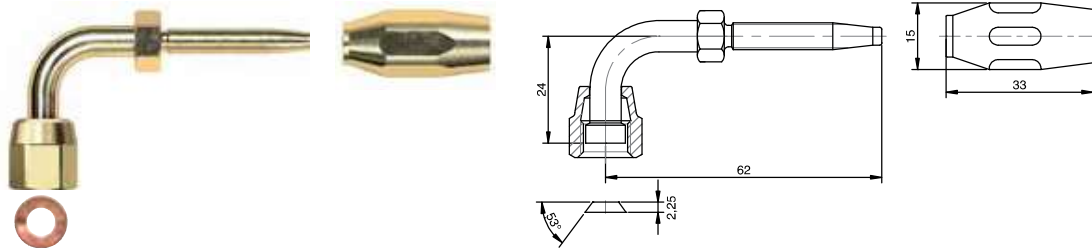
# QUADRA REUSABLE FITTINGS

## 1/4 SAE Straight Female Fitting



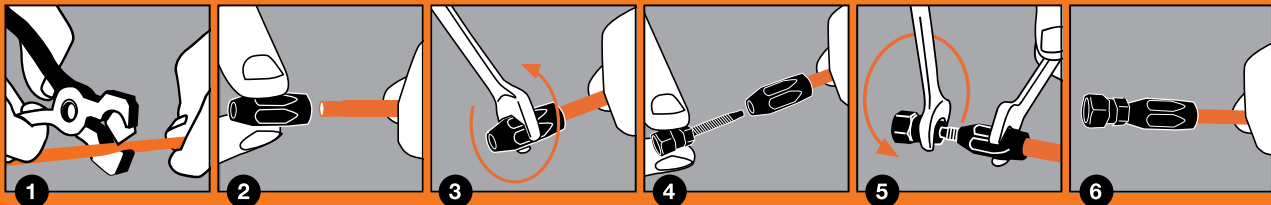
Part number	XIA02M	WIA02M	KIA02M
Pack	50 pcs	50 pcs	10 pcs
Copper gasket			

## 1/4 SAE Elbow Female 90° Fitting



Part number	XJA02M	WJA02M	KJA02M
Pack	50 pcs	50 pcs	10 pcs
Copper gasket			

## Assembly instructions for reusable fittings for QUADRA DN4 capillary hose



1 Cut QUADRA DN4 capillary hose to the required length using our cutter for capillary hoses type WXA004.

2 Push the ferrule over the hose end you want to assemble. To make the operation easier we advise that you lubricate the components with refrigeration oil.

3 Screw counter clockwise, by hand, the first turns of the thread of the ferrule. A suitable wrench screw counter clockwise until the ferrule is in line with the hose.

4 Place the insert into the hose end you want to assemble. To make the operation easier we advise that you lubricate the components with refrigeration oil.

5 Screw clockwise, by hand, the first turns of the thread of the insert into the ferrule previously fitted on the hose. Screw clockwise the fitting into the ferrule until they are in line with each other by using a wrench and a counter wrench.

6 After checking the correct positioning of the components, the assembling is finished.

