

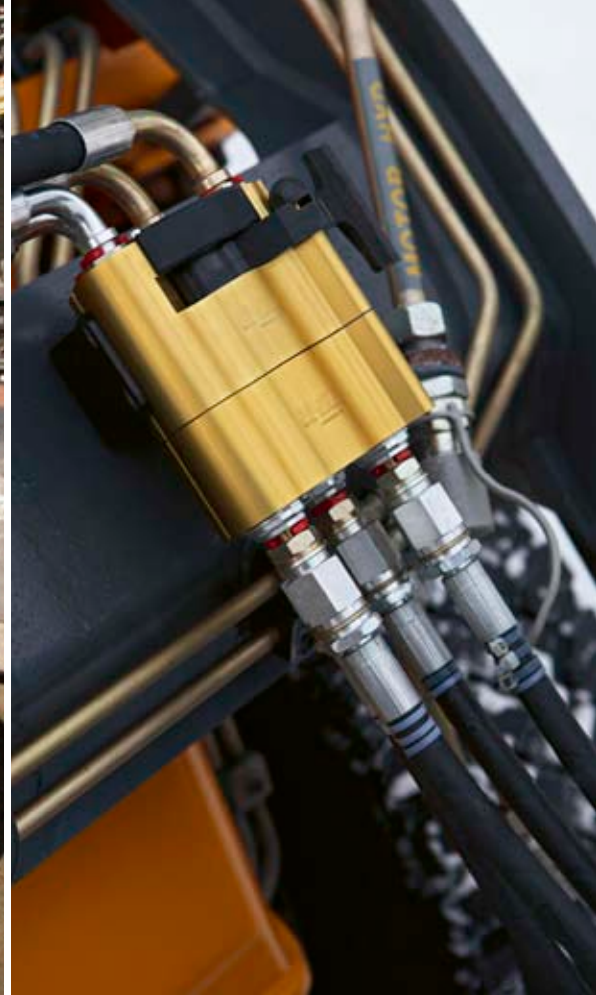


HYDRAULICS

CEJN Multi-X

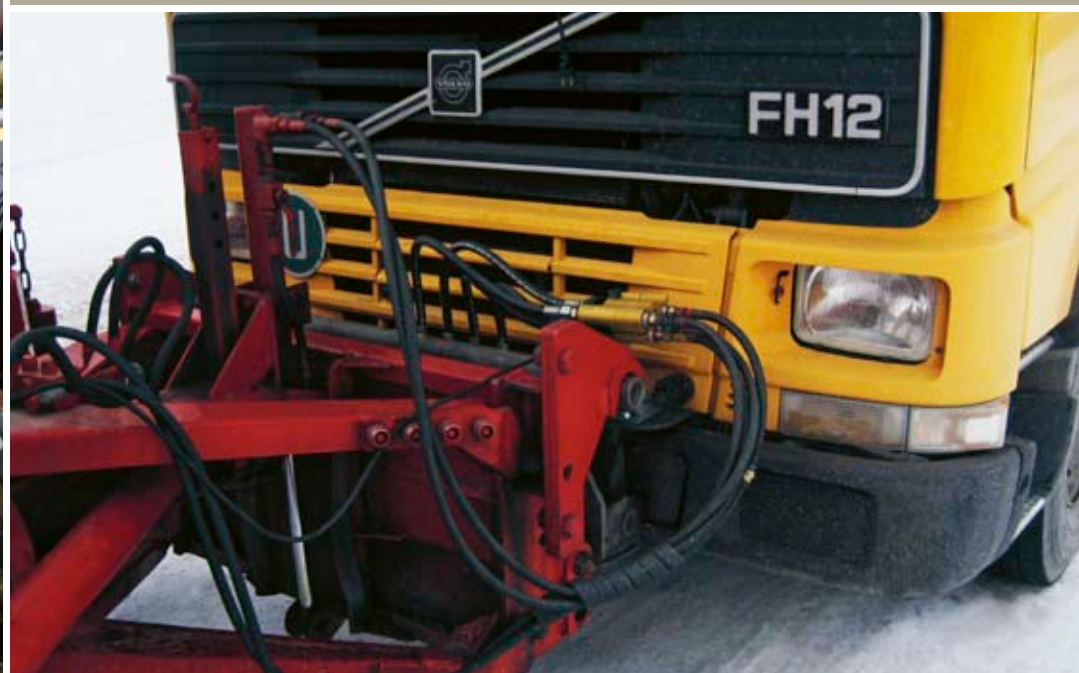
– Flexible multi connections for quick and easy handling





CEJN Multi-X allows you to

- *Minimize downtime during tool changes*
- *Connect the hydraulic lines with residual pressure*
- *Install multi-plates in confined spaces*
- *Use working pressure up to 35 MPa*
- *Eliminate cross connection*



Multiple connections in one step with CEJNs Multi-X range

– *Advanced technology made easy*

CEJN Multi-X is a range of innovative, easy to handle, multi-plates designed to meet and exceed the demands of even the most challenging mobile hydraulic applications. Its innovative design rivals and surpasses other existing multi-plates on the market. The unique design made with the user in mind offers you a plate system that provides great flexibility, high performance, easy installation and trouble-free operation.

EASY TO
MANEUVER

ENVIRONMENT FRIENDLY
FLAT-FACE CONNECTIONS

CONNECTABLE
UNDER PRESSURE

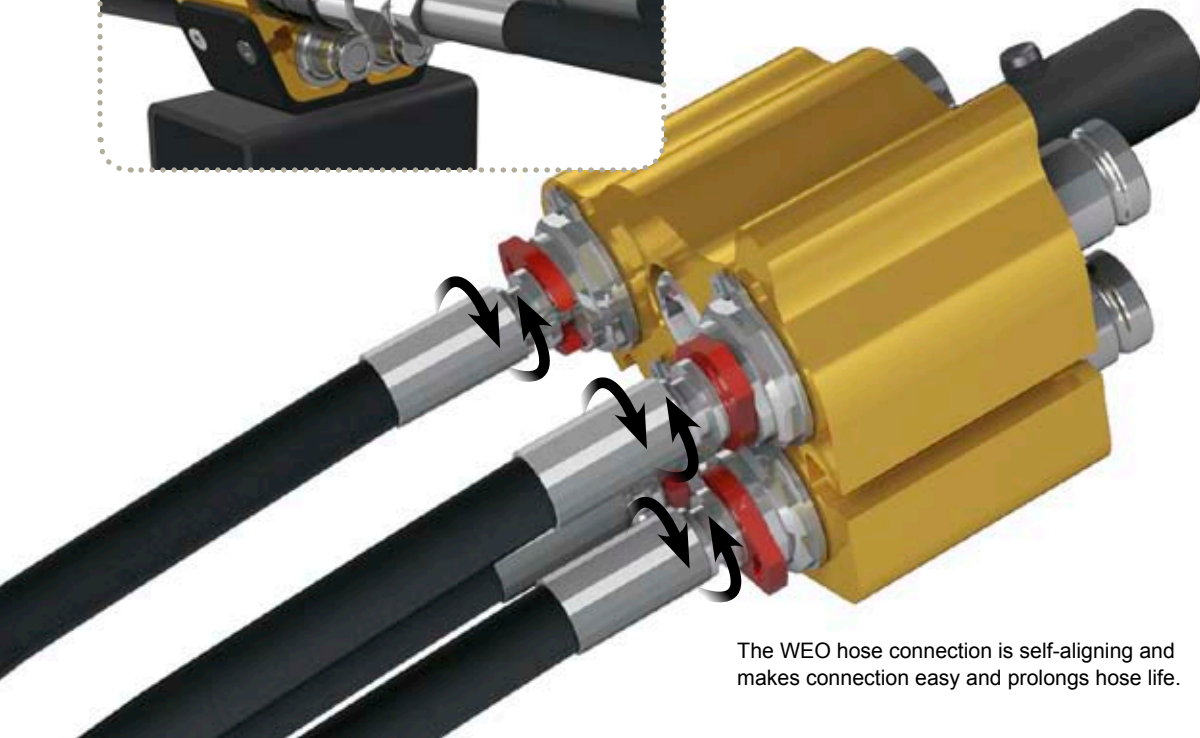
TORSION FREE
CONNECTORS

FLEXIBLE
INSTALLATION

SMALL SPACE
REQUIREMENTS

Arguments for Multi-X

Single ISO 16028 Flat-Face couplings can be used with fixed installed male plates.



The WEO hose connection is self-aligning and makes connection easy and prolongs hose life.

Flexibility

The range consists of six standard configurations, matching the most frequent application needs. The sizes range for DN 10 to DN 19 combined with two or four ports in each plate (for details on the range see pages 6-7). Each plate can also be equipped with an optional electric connector (available as accessory).

The innovative design allows you to use either part of the plate system mounted as the fixed part without compromising the performance. The mounting bracket is enclosed with the female plate but you can just as easily use it to install the male plate in the application instead.

As an extra advantage when you use the male plate as the fixed part you can connect standard ISO 16028 flat-face couplings to the Multi-X plate, giving you maximum flexibility to use tools and attachments both with and without a Multi-X plate.

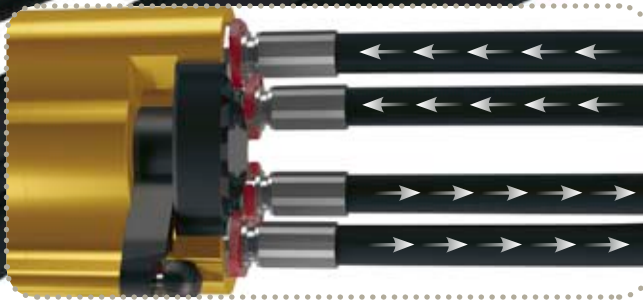
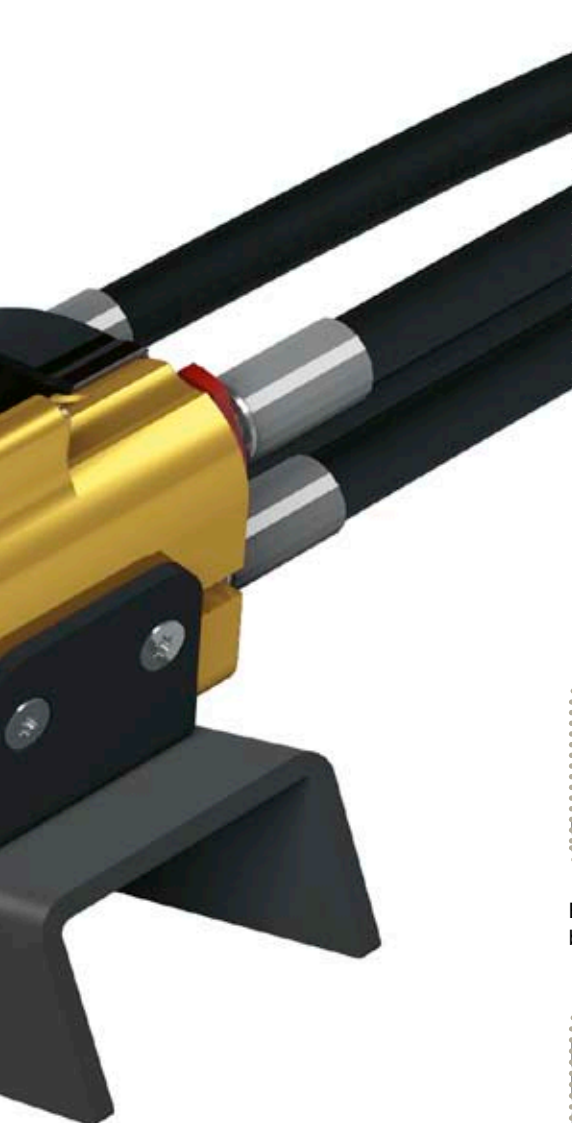
Performance

The Multi-X design allows you to use a working pressure up to 35 MPa on half the ports simultaneously and the rest of the ports as return lines with a maximum of 5 MPa, regardless if you use two or four ports.

The design also offers the possibility to connect the units with residual pressure.

Residual pressure

1. Up to 35 MPa residual pressure on the male side when free to drain on the female side.
2. Up to 25 MPa residual pressure on the female side when free to drain on the male side.
3. Up to 25 MPa residual pressure on the male side and 1 MPa return resistance on the female side.



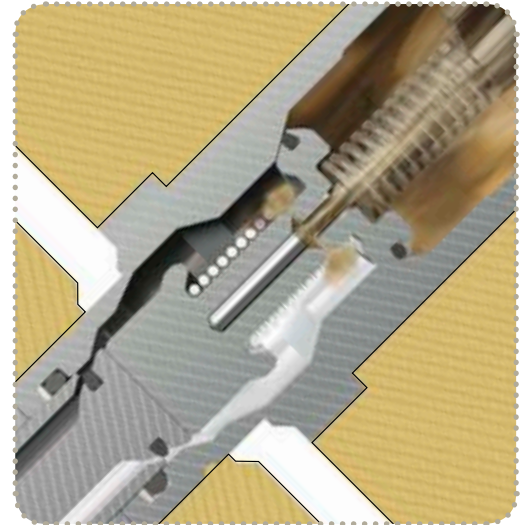
Working pressure of up to 35 MPa can be used on half the ports simultaneously with the other half of the ports used as return lines with a maximum pressure of 5 MPa.



Both the female and male plate can be used as the fixed part.



Electric connectors can easily be attached to each plate.



The pressure is punctured without spillage making it simple to connect with residual pressure in the system.

Connections

The **Multi-X range** is outfitted with WEO Plug-In hose connections, making them both easy to assemble and to connect. Using Plug-In connections provides the Multi-X range with the same outstanding features as the CEJN WEO Range products – self-aligning hose connections that prolongs hose life, minimizes downtimes when the need to replace or remove the hose occurs and its minimal space requirements that allows for more compact designs.

Each Multi-X plate comes with **integrated WEO cartridges** for easy installation. Use the WEO Hose connection nipples and ferrules to crimp the nipples directly onto the hose or convert your existing hose to WEO Plug-In with the threaded WEO Nipples (see part numbers page 10).

Operation

The Multi-X is **easily operated** with one hand on the lever and one hand guiding the moving plate during both connection and disconnection. The ergonomical lever placed perpendicular to the hydraulic lines keeps the **operators hands safe**. The locking button secures the lever when connected and prevents unintentional disconnection.

All Multi-X male plates are equipped with **pressure eliminator nipples** that make it possible to connect the plates also with residual pressure in the system. By puncturing the pressure, without spillage, it allows for a smooth connection even at a high residual pressure (up to 35 MPa).

The self-aligning WEO connection **removes the torsion** in the hose, a common issue when using ordinary fittings, making it easy to align and connect the plates.

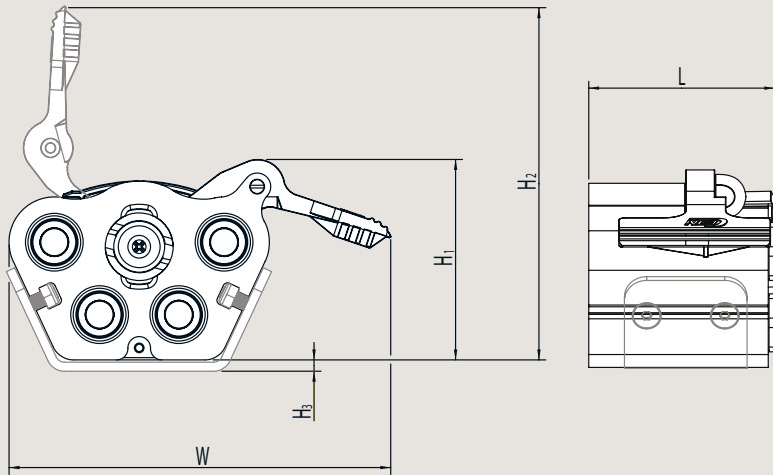
Multi-X range

Technical data

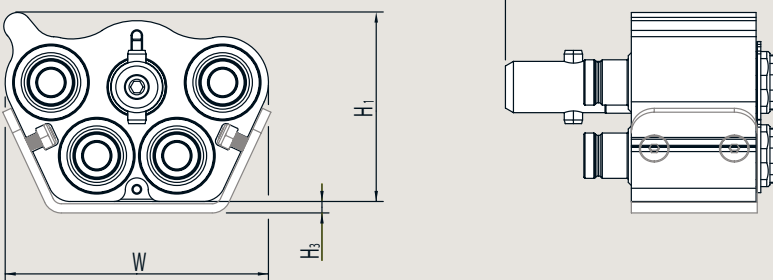
Max. working pressure	35 MPa
Min. burst pressure	120 MPa
Temperature range	-30°C to +100°C (-22°F to +212°F)
Material female plate	Zinc plated steel, anodized aluminum, zinc, brass
Material male plate	Zinc plated steel, anodized aluminum, brass
Material seal	Nitril (NBR)
Connectability	<ol style="list-style-type: none"> 1. Up to 35 MPa residual pressure on the male side and free to drain on the female side. 2. Up to 25 MPa residual pressure on the female side and free to drain on the male side. 3. Up to 25 MPa residual pressure on the male side and 1 MPa return pressure on the female side.
Disconnection under pressure	To be avoided. Residual pressure can result in recoil effect during disconnection. Always grip the lever firmly.
Comment	Contact CEJN technical support for recommendations for high impulse applications.

Measurements

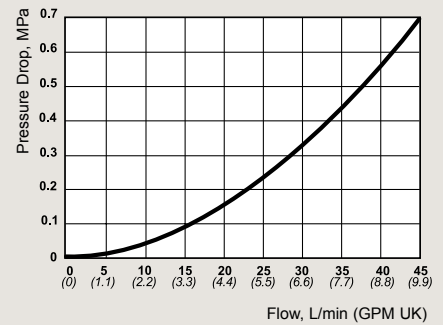
FEMALE PLATE



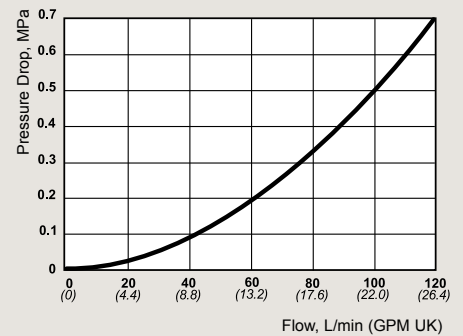
MALE PLATE



FLOW DN 10



FLOW DN 12.5



FLOW DN 19



Multi-X Duo 10

Nominal flow dia..... 10 mm (3/8")



	Part no	No Ports	Connection	L	W	H1	H2	H3
FEMALE PLATE	10 932 2000	2	WEO 1/2"	83	168	70	138	5
MALE PLATE	10 932 2050	2	WEO 3/8"	116	116	66	-	5

Multi-X Duo 12.5

Nominal flow dia..... 12.5 mm (1/2")



	Part no	No Ports	Connection	L	W	H1	H2	H3
FEMALE PLATE	10 932 2001	2	WEO 3/4"	98	176	79	139	5
MALE PLATE	10 932 2051	2	WEO 1/2"	138	132	73	-	5

Multi-X Quattro 10

Nominal flow dia..... 10 mm (3/8")



	Part no	No Ports	Connection	L	W	H1	H2	H3
FEMALE PLATE	10 932 3000	4	WEO 1/2"	83	168	88	155	5
MALE PLATE	10 932 3050	4	WEO 3/8"	116	116	83	-	5

Multi-X Quattro 10/12.5

Nominal flow dia..... 10mm (3/8")/12.5 mm (1/2")



	Part no	No Ports	Connection	L	W	H1	H2	H3
FEMALE PLATE	10 932 4000	4	WEO 1/2"+ 3/4"	98	176	99	159	5
MALE PLATE	10 932 4050	4	WEO 3/8" + 1/2"	138	132	93	-	5

Multi-X Quattro 12.5

Nominal flow dia..... 12.5 mm (1/2")



	Part no	No Ports	Connection	L	W	H1	H2	H3
FEMALE PLATE	10 932 4001	4	WEO 3/4"	98	176	99	159	5
MALE PLATE	10 932 4051	4	WEO 1/2"	138	132	93	-	5

Multi-X Quattro 12.5/19

Nominal flow dia..... 12.5 mm (1/2")/19mm (3/4")



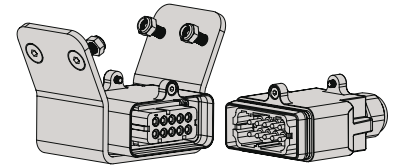
	Part no	No Ports	Connection	L	W	H1	H2	H3
FEMALE PLATE	10 932 5000	4	WEO 3/4"	120	214	107	170	5
MALE PLATE	10 932 5050	4	WEO 1/2"+ 3/4"	182	179	97	-	5

All measurements are in mm.

Multi-X Accessories

Multi-X Electric Connector kits

Multi-X can be fitted with an electric connector kit on both the male and the female plate. The kits contain all necessary components as well as assembly instructions and dust caps.



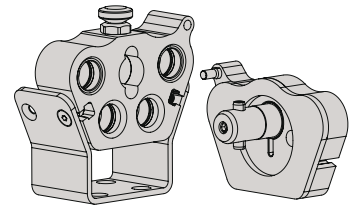
Connections..... 10 + ground
Voltage..... 250 V
Current..... 16 Amp.

	Suitable for	Part no	L	W	H1	H2	H3
ELECTRIC CONNECTOR KIT FOR FEMALE PLATE	Multi-X Duo 10	10 932 0010	83	168	101	169	5
	Multi-X Duo 12.5	10 932 0011	98	176	110	170	5
	Multi-X Quattro 10	10 932 0012	83	168	119	186	5
	Multi-X Quattro 10/12.5	10 932 0013	98	176	130	190	5
	Multi-X Quattro 12.5	98	176	130	190	5	
	Multi-X Quattro 12.5/19	10 932 0015	120	214	138	201	5
ELECTRIC CONNECTOR KIT FOR MALE PLATE	Multi-X Duo 10	10 932 0050	116	116	97	-	5
	Multi-X Duo 12.5	10 932 0051	138	132	104	-	5
	Multi-X Quattro 10	10 932 0052	116	116	114	-	5
	Multi-X Quattro 10/12.5	10 932 0053	138	132	124	-	5
	Multi-X Quattro 12.5	-	-	-	-	-	5
	Multi-X Quattro 12.5/19	10 932 0055	182	179	128	-	5

Measurements refer to outside dimensions of the Multi-X plate with the electrical connector kit installed. All measurements are in mm.

Multi-X Aluminum Cover/Parking Dock

The aluminum covers can be used as heavy duty protection when the plates are disconnected. The covers can also easily be mounted and used as fixed parking docks. Covers are only available for plates without electric connectors (can be used with the electric connector but will not cover the electric pins).

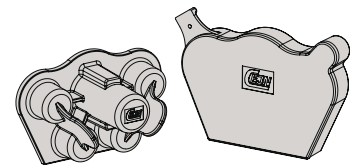


Material..... Aluminum

	Suitable for	Part no
ALUMINUM COVER/PARKING DOCK FOR FEMALE PLATE	Multi-X Duo 10	10 932 1020
	Multi-X Duo 12.5	10 932 1021
	Multi-X Quattro 10	10 932 1022
	Multi-X Quattro 10/12.5	10 932 1023
	Multi-X Quattro 12.5	10 932 1023
	Multi-X Quattro 12.5/19	10 932 1025
ALUMINUM COVER/PARKING DOCK FOR MALE PLATE	Multi-X Duo 10	10 932 1070
	Multi-X Duo 12.5	10 932 1071
	Multi-X Quattro 10	10 932 1072
	Multi-X Quattro 10/12.5	10 932 1073
	Multi-X Quattro 12.5	10 932 1073
	Multi-X Quattro 12.5/19	10 932 1075

Multi-X Dust caps

The plastic dust caps are enclosed with each plate, but can also be purchased separately.



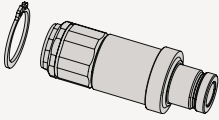
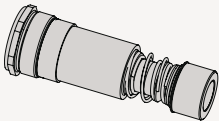

Material..... Soft PVC

	Suitable for	Part no		Suitable for	Part no
DUST CAPS FOR FEMALE PLATE	Multi-X Duo 10	09 932 1000	DUST CAPS FOR MALE PLATE	Multi-X Duo 10	09 932 1050
	Multi-X Duo 12.5	09 932 1002		Multi-X Duo 12.5	09 932 1052
	Multi-X Quattro 10	09 932 1001		Multi-X Quattro 10	09 932 1051
	Multi-X Quattro 10/12.5	09 932 1003		Multi-X Quattro 10/12.5	09 932 1053
	Multi-X Quattro 12.5	09 932 1003		Multi-X Quattro 12.5	09 932 1053
	Multi-X Quattro 12.5/19	09 932 1005		Multi-X Quattro 12.5/19	09 932 1055
DUST CAPS FOR FEMALE PLATE WITH ELECTRIC CONNECTOR	Multi-X Duo 10	09 932 1010	DUST CAPS FOR MALE PLATE WITH ELECTRIC CONNECTOR	Multi-X Duo 10	09 932 1060
	Multi-X Duo 12.5	09 932 1012		Multi-X Duo 12.5	09 932 1062
	Multi-X Quattro 10	09 932 1011		Multi-X Quattro 10	09 932 1061
	Multi-X Quattro 10/12.5	09 932 1013		Multi-X Quattro 12.5	09 932 1063
	Multi-X Quattro 12.5	09 932 1013		Multi-X Quattro 10/12.5	09 932 1063
	Multi-X Quattro 12.5/19	09 932 1015		Multi-X Quattro 12.5/19	09 932 1065

Multi-X Spare Parts

Multi-X Coupling and Nipple kits

The couplings and nipples in the Multi-X plates can be replaced. The nipple kit contains nipple and retaining ring. The coupling kit contains a complete set of parts for replacement of one coupling. The seal kit contains one O-ring and one backup ring to replace the front seal on the nipple.


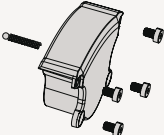
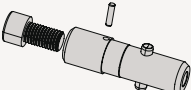
	DN size	Suitable for	Part no	WEO connection
NIPPLE KIT 	DN 10	Multi-X Duo 10 Multi-X Quattro 10 Multi-X Quattro 10/12.5	10 364 6904	3/8"
	DN 12.5	Multi-X Quattro 12.5 Multi-X Quattro 10/12.5 Multi-X Quattro 12.5/19	10 564 6905	1/2"
	DN 19	Multi-X Quattro 12.5/19	10 764 6901	3/4"
COUPLING KIT 	DN 10	Multi-X Duo 10 Multi-X Quattro 10	10 365 1905	1/2"
	DN 12.5	Multi-X Quattro 12.5 Multi-X Quattro 10/12.5 Multi-X Quattro 12.5/19	10 365 1906 10 565 1907	1/2" 3/4"
	DN 19	Multi-X Quattro 12.5/19	10 765 1901	3/4"
SEAL KITS 	DN 10	Nipple DN10	10 365 4900	-
	DN 12.5	Nipple DN12.5	10 565 4900	-
	DN 19	Nipple DN19	10 765 4900	-

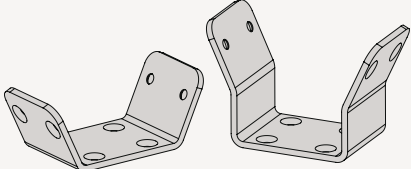
Multi-X Mounting Bracket

The mounting bracket is enclosed with all female Multi-X plates, but can be used with both the female or male plate.

Material Powder coated steel

Multi-X Spare Parts

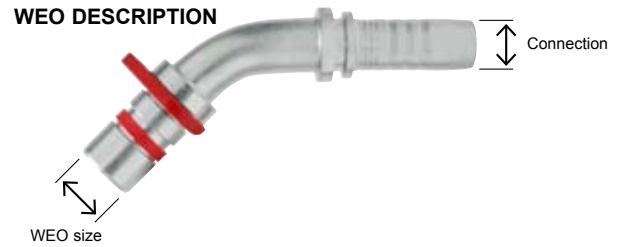
	Suitable for	Part no
LEVER ASSEMBLY 	Multi-X Duo 10 Multi-X Quattro 10	10 932 4960
	Multi-X Duo 12.5 Multi-X Quattro 12.5 Multi-X Quattro 10/12.5	10 932 4970
	Multi-X Quattro 12.5/19	10 932 4980
BACK LID KIT 	Multi-X Duo 10 Multi-X Quattro 10	10 932 4961
	Multi-X Duo 12.5 Multi-X Quattro 12.5 Multi-X Quattro 10/12.5	10 932 4971
	Multi-X Quattro 12.5/19	10 932 4981
CENTER BOLT KIT 	Multi-X Duo 10 Multi-X Quattro 10	10 932 4962
	Multi-X Duo 12.5 Multi-X Quattro 12.5 Multi-X Quattro 10/12.5	10 932 4972
	Multi-X Quattro 12.5/19	10 932 4982

	Suitable for	Part no
MOUNTING BRACKET FOR FEMALE/MALE PLATES	Multi-X Duo 10	10 932 4963
	Multi-X Quattro 10	10 932 4965
	Multi-X Duo 12.5	10 932 4973
	Multi-X Quattro 12.5 Multi-X Quattro 10/12.5	10 932 4975
	Multi-X Quattro 12.5/19	10 932 4985
MOUNTING BRACKET FOR FEMALE/MALE PLATES WITH ELECTRICAL CONNECTOR	Multi-X Duo 10 Multi-X Quattro 10 Multi-X Duo 12.5	10 932 4964 10 932 4966 10 932 4974
	Multi-X Quattro 12.5 Multi-X Quattro 10/12.5	10 932 4976
	Multi-X Quattro 12.5/19	10 932 4986
		

WEO Plug-In

Technical data

Max working pressure 35 MPa
Material Zinc plated steel



WEO Nipples straight hose connection

Nipple for SAE 100 R1/R2 Hose or equivalent.



	Part No.	Connection
WEO size 3/8"	14 730 0604	1/4" (6.9 mm)
	14 730 0606	3/8" (10.1 mm)
WEO size 1/2"	14 730 0806	3/8" (10.1 mm)
	14 730 0808	1/2" (13.6 mm)
WEO size 3/4"	14 730 1208	1/2" (13.6 mm)
	14 730 1212	3/4" (20.0 mm)

WEO Nipples 45° Hose connection

Nipple for SAE 100 R1/R2 Hose or equivalent.



	Part No.	Connection
WEO size 3/8"	14 732 0606	3/8" (10.1 mm)
WEO size 1/2"	14 732 0808	1/2" (13.6 mm)

WEO Nipples 90° Hose connection

Nipple for SAE 100 R1/R2 Hose or equivalent.



	Part No.	Connection
WEO size 3/8"	14 734 0606	3/8" (10.1 mm)
WEO size 1/2"	14 734 0806	3/8" (10.1 mm)
	14 734 0808	1/2" (13.6 mm)

WEO Ferrules



	Part No.
Ferrule 3/8"	14 610 0600
Ferrule 1/2"	14 610 0800
Ferrule 3/4"	14 610 1200

WEO Nipples Male G-thread

Connection complies with ISO 228/1.



	Part No.	Connection
WEO size 3/8"	14 724 0606	G 3/8"
WEO size 1/2"	14 724 0808	G 1/2"
WEO size 3/4"	14 724 1212	G 3/4"

WEO Nipples Male JIC 37°

Connection complies with EN ISO 8434-2



	Part No.	Connection
WEO size 3/8"	14 727 0609	9/16" -18 UNF JIC 37°
WEO size 1/2"	14 727 0812	3/4" -16 UNF JIC 37°
WEO size 3/4"	14 727 1217	1 1/16" -12 UNF JIC 37°





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