

Section 17

WEO Plug-In Hydraulic Fittings

WEO Plug-In Fittings

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Section 17

WEO Plug-In is an entirely new type of coupling that will transform and simplify hydraulic systems that include hydraulic hoses and pipes. The couplings are self-locking, so there is no need for tools or spanners to connect or disconnect them. All that is needed is a simple screwdriver. This makes it easier to build more compact and reliable systems and designs, which is a major advantage since space is often very limited. The WEO Plug-In coupling also swivels freely, which eliminates the stresses that can arise during connection, and therefore extends the life of the hose. Quick and easy connection and disconnection also reduce oil spills, which is better for the environment.

WEO plug-In couplings are protected by patent. They have been tested by the Swedish Institute of Materials Testing and Research to SS-ISO 8032, half omega test. The working pressure for all couplings between 1/4" and 3/4" is 350 bar, while 1" couplings are rated at 250 bar. The working pressure may vary with the type of connection. A safety factor of at least 4:1 between burst pressure and working pressure applies to all sizes.

Specifications

Temperature range -30°C to +100°C (-22°F to +212°F)
short exposure +120°C (248°F)

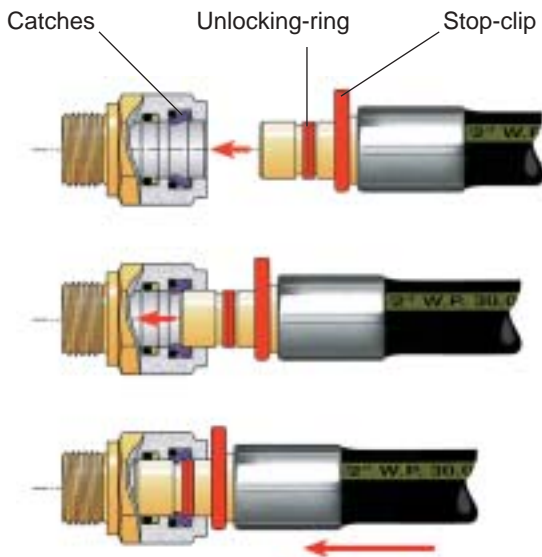
Materials

Coupling body	Steel, yellow zinc chrome-plated
Nipple body	Hardened steel, yellow zinc chrome-plated
Catch	Hardened steel, yellow zinc chrome-plated
O-ring	NBR
Support ring	PUR
Unlocking-ring	POM
Stop-clip	POM



Simple yet ingenious, and with excellent development potential!

Easy to connect ...

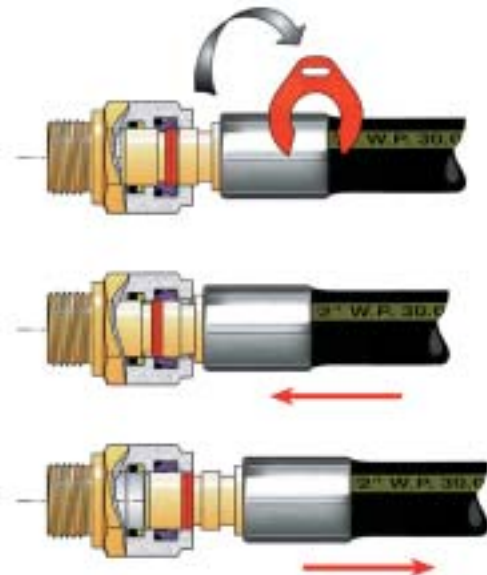


Check that the stop-clip is in place and that the unlocking-ring runs freely in its groove. The plug is pushed into the socket so that the catches are pressed outwards.

The plug is pushed all the way in until the stop-clip touches the socket. The O-ring presses the catches inwards so that they grip the locking flange on the plug. The coupling is now locked and cannot be disconnected.

The coupling is sealed by an internal O-ring.

... and just as easy to disconnect



The stop-clip is removed (using a screwdriver, for example). The plug is pushed in so that the unlocking-ring pushes the catches aside.

As the plug is pulled out its outer flange connects with the unlocking-ring and draws it backwards, preventing the catches from locking and allowing the plug to be fully withdrawn.

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Plug - Straight Nipple For SAE 100R1/R2 Hose or Equivalent



PART NO.	WEO PLUG-IN	LENGTH	HOSE CONNECTION	WORKING PRESSURE	PRICE
14 710 0403	1/4"	54.5 mm	3/16"	350 bar	£ 2.65
14 710 0404	1/4"	58.0 mm	1/4"	350 bar	£ 1.60
14 710 0604	3/8"	61.0 mm	1/4"	350 bar	£ 2.00
14 710 0605	3/8"	61.0 mm	5/16"	350 bar	£ 1.95
14 710 0606	3/8"	63.0 mm	3/8"	350 bar	£ 1.65
14 710 0806	1/2"	63.0 mm	3/8"	350 bar	£ 2.10
14 710 0808	1/2"	64.0 mm	1/2"	350 bar	£ 1.80
14 710 1208	3/4"	73.5 mm	1/2"	350 bar	£ 4.85
14 710 1210	3/4"	77.5 mm	5/8"	350 bar	£ 7.95
14 710 1212	3/4"	82.0 mm	3/4"	350 bar	£ 6.20
14 710 1616	1"	100.5 mm	1"	250 bar	£ 6.90

Plug - Straight Nipple For SAE 100R9R Multispiral Hose



PART NO.	WEO PLUG-IN	LENGTH	HOSE CONNECTION	WORKING PRESSURE	PRICE
14 711 1212	3/4"	91.0 mm	3/4"	350 bar	£ 3.45
14 711 1616	1"	110.0 mm	1"	250 bar	£ 6.95

Plug - 45° Nipple For SAE 100R1/R2 Hose or Equivalent



PART NO.	WEO PLUG-IN	LENGTH	HOSE CONNECTION	WORKING PRESSURE	PRICE
14 712 0404	1/4"		1/4"	350 bar	£ 4.45
14 712 0604	3/8"		1/4"	350 bar	£ 5.35
14 712 0605	3/8"		5/16"	350 bar	£ 5.40
14 712 0606	3/8"		3/8"	350 bar	£ 4.75
14 712 0806	1/2"		3/8"	350 bar	£ 6.05
14 712 0808	1/2"		1/2"	350 bar	£ 6.25
14 712 1208	3/4"		1/2"	350 bar	£11.95
14 712 1210	3/4"		5/8"	350 bar	£12.60
14 712 1212	3/4"		3/4"	350 bar	£14.25

Plug - 45° Nipple For SAE 100R9R Multispiral Hose



PART NO.	WEO PLUG-IN	LENGTH	HOSE CONNECTION	WORKING PRESSURE	PRICE
14 713 1212	3/4"		3/4"	350 bar	£15.55

Plug - 90° Nipple For SAE 100R1/R2 Hose or Equivalent



PART NO.	WEO PLUG-IN	LENGTH	HOSE CONNECTION	WORKING PRESSURE	PRICE
14 714 0404	1/4"		1/4"	350 bar	£ 4.80
14 714 0604	3/8"		1/4"	350 bar	£ 6.05
14 714 0605	3/8"		5/16"	350 bar	£ 6.20
14 714 0606	3/8"		3/8"	350 bar	£ 6.75
14 714 0806	1/2"		3/8"	350 bar	£ 7.05
14 714 0808	1/2"		1/2"	350 bar	£ 7.35
14 714 1208	3/4"		1/2"	350 bar	£14.10
14 714 1210	3/4"		5/8"	350 bar	£17.15
14 714 1212	3/4"		3/4"	350 bar	£18.20

Plug - 90° Nipple For SAE 100R9R Multispiral Hose



PART NO.	WEO PLUG-IN	LENGTH	HOSE CONNECTION	WORKING PRESSURE	PRICE
14 715 1212	3/4"		3/4"	350 bar	£18.85



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Stop Plug



PART NO.	WEO PLUG-IN	LENGTH	WORKING PRESSURE	PRICE
14 723 0400	1/4"	43.0 mm	350 bar	£ 5.20
14 723 0600	3/8"	50.0 mm	350 bar	£ 6.00
14 723 0800	1/2"	50.0 mm	350 bar	£ 6.15
14 723 1200	3/4"	59.0 mm	350 bar	£ 9.05
14 723 1600	1"	75.0 mm	250 bar	£13.60

Socket - External G-Thread



PART NO.	WEO PLUG-IN	LENGTH	CONNECTION BSPP	WORKING PRESSURE	PRICE
14 810 0404	1/4"	38.0 mm	1/4"	350 bar	£ 4.35
14 810 0606	3/8"	41.0 mm	3/8"	350 bar	£ 4.85
14 810 0808	1/2"	43.0 mm	1/2"	350 bar	£ 5.40
14 810 1212	3/4"	56.0 mm	3/4"	350 bar	£14.30
14 810 1616	1"	67.0 mm	1"	250 bar	£23.35

Stop Socket



PART NO.	WEO PLUG-IN	LENGTH	WORKING PRESSURE	PRICE
14 811 0400	1/4"	28.0 mm	350 bar	£ 5.25
14 811 0600	3/8"	31.0 mm	350 bar	£ 5.85
14 811 0800	1/2"	32.0 mm	350 bar	£ 6.55
14 811 1200	3/4"	44.0 mm	350 bar	£14.30
14 811 1600	1"	55.0 mm	250 bar	£22.00

Socket - Straight Nipple For SAE 100R1/R2 Hose or Equivalent



PART NO.	WEO PLUG-IN	LENGTH	HOSE CONNECTION	WORKING PRESSURE	PRICE
14 817 0404	1/4"	62.0 mm	1/4"	350 bar	£ 7.60
14 817 0606	3/8"	66.0 mm	3/8"	350 bar	£ 9.45
14 817 0808	1/2"	67.0 mm	1/2"	350 bar	£10.75
14 817 1212	3/4"	87.0 mm	3/4"	350 bar	£16.35
14 817 1616	1"	105.0 mm	1"	250 bar	£25.55

Socket - Straight Nipple For SAE 100R9R Multispiral Hose



PART NO.	WEO PLUG-IN	LENGTH	HOSE CONNECTION	WORKING PRESSURE	PRICE
14 818 1212	3/4"	95.0 mm	3/4"	350 bar	£16.35
14 818 1616	1"	115.0 mm	1"	250 bar	£25.55

Socket - SAE J514 O-Ring Boss



PART NO.	WEO PLUG-IN	LENGTH	CONNECTION UNF/UN	WORKING PRESSURE	PRICE
14 826 0407	1/4"	35.0 mm	7/16" - 20	350 bar	£ 5.45
14 826 0609	3/8"	39.0 mm	9/16" - 18	350 bar	£ 6.15
14 826 0812	1/2"	40.0 mm	3/4" - 16	350 bar	£ 6.65
14 826 0814	1/2"	41.6 mm	7/8" - 14	350 bar	P.O.A.
14 826 0817	1/2"	44.0 mm	1.1/16" - 12	350 bar	P.O.A.
14 826 1217	3/4"	55.0 mm	1.1/16" - 12	350 bar	£15.20
14 826 1621	1"	64.0 mm	1.5/16" - 12	350 bar	£24.90

Socket - External G-Thread with Integral Rubber Seal



PART NO.	WEO PLUG-IN	LENGTH	CONNECTION BSPP	WORKING PRESSURE	PRICE
14 830 0404	1/4"	38.0 mm	1/4"	350 bar	£ 4.80
14 830 0606	3/8"	41.0 mm	3/8"	350 bar	£ 5.25
14 830 0808	1/2"	43.0 mm	1/2"	350 bar	£ 5.85
14 830 1212	3/4"	56.0 mm	3/4"	350 bar	£18.23
14 830 1616	1"	69.0 mm	1"	250 bar	£29.50

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Socket - Bulkhead



PART NO.	WEO PLUG-IN	LENGTH	CONNECTION	WORKING PRESSURE	PRICE
14 813 0444	1/4"	42.0 mm	M 21.5 x 1.5	350 bar	£15.88
14 813 0646	3/8"	49.0 mm	M 26 x 1.5	350 bar	£17.33
14 813 0848	1/2"	49.0 mm	M 27 x 1.5	350 bar	£18.59

Plug-In Cartridge



PART NO.	WEO PLUG-IN	CONNECTION	WORKING PRESSURE	PRICE
14 800 0400	DN6	M 18 x 1.5	350 bar	£ 3.75
14 800 0600	DN10	M 22 x 1.5	350 bar	£ 4.10
14 800 0800	DN12	M 25 x 1.5	350 bar	£ 4.33

Ferrule



PART NO.	HOSE SIZE	TO SUIT HOSE	PRICE
14 640 0303	3/16"	SAE 100 R1AT/R2AT	£ 2.30
14 640 1704	1/4"	SAE 100 R1AT/R2AT	£ 1.87
14 640 1705	5/16"	SAE 100 R1AT/R2AT	£ 1.98
14 640 1706	3/8"	SAE 100 R1AT/R2AT	£ 1.59
14 640 1708	1/2"	SAE 100 R1AT/R2AT	£ 2.03
14 640 1710	5/8"	SAE 100 R1AT/R2AT	£ 2.91
14 640 1712	3/4"	SAE 100 R1AT/R2AT	£ 3.68
14 640 1716	1"	SAE 100 R1AT/R2AT	£ 6.67

FERRULES AVAILABLE FOR OTHER HOSES

