



COUPLER

This service sheet is only applicable to the: J0451-051, J0451-052 and J0451-053. For servicing all other J0451 couplers please refer to the other service sheets or you local distributor.

Note: API Couplers should always be used in conjunction with primary shutoff system such as a meter with a preset valve. A relief valve must be provided for the trapped product between the primary shutoff and the API coupler.

As a part of a continuous commitment to product development the company reserves the right to alter the specification of its products without prior notice

EMCO WHEATON
A Gardner Denver Product

Sheet 1 of 4
Sheet Ref. SSJ0451
Date 09/05/07 Revision 1

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ITEM	QTY	DESCRIPTION	PART NUMBER	MATERIAL
1	1	Body	672196	Aluminium
2	1	Nose Piece	672245	Aluminium
3	1	Poppet	672349	Aluminium
4	1	Shaft	672319	Stainless Steel
5	1	Nose Seal	672213 672550 672528	Viton Buna Low Temperature Viton
6	1	Interlock Lug	408258	Stainless Steel
7	7	Roll Pin	470078	SST
8	5	Locking Lug	408256	Stainless Steel
9	6	Spring	408261	Stainless Steel
10	1	Sleeve	672260	Aluminium
11	1	Bearing	560595	Plastic
12	1	Bearing	560594	Plastic
13	1	O-Ring (Shaft)	407433 564769 672548	Viton Buna Low Temperature Viton
14	1	Spacer	240805203	Nylon
15	1	O-Ring (Dust Seal)	561320	Buna
16	1	Retaining Ring	408169	Steel
17	1	Link	408254	SST
18	2	Bent Link	408262	SST
19	1	O-Ring (Nose Piece)	7010010249 672551 672549	Viton Buna Low Temperature Viton
20	1	Spring Pin	561852	Stainless Steel
21	2	Cotter Pin	560963	SST
22	1	Dust Seal	408278	Felt
23	1	Wave Spring	564090	SST
24	1	Lever	672266	Aluminium
25	2	Link Pin	408252	SST
26	1	Roller Bearing	565933	Steel
27	1	Nyloc Nut	470043	Steel
28	2	M8 Thin Washer	671270	Stainless Steel

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Spare Part Kits Available		
Part No	Title	Parts Include
494529	Viton Seal Kit	672213, 7010010249, 561320, 407433, 564090, 560595, 560594, 470078 (2), 561852 (2)
494530	Buna Seal Kit	672250, 672551, 564769, 561320, 564090, 560595, 564594, 470078 (2), 561852 (2)
494531	Low Temp Kit	672528, 672549, 672548, 561320, 564090, 560595, 560594, 470078 (2), 561852 (2)
494532	Nosepiece and Poppet Kit	672245, 672349, 560963 (2), 408252 (2), 470078 (2), 561852 (2)
494533	Claws and Interlock Lug	408256 (5), 408258, 470078 (6), 408261 (6)
678868	Kit, J0451 Lever	672266, 565933, 470043, 470078,
678869	Kit, J0451 Shaft	672319, 470078, 561852, 408169

TO CHANGE THE NOSEPIECE SEAL:

1. Remove coupler from loading arm at flange.
2. Depress interlock lug (6) and turn lever. This opens the coupler without it being attached to an adapter and allows access to the poppet linkage assembly. (Poppet linkage assembly consists of the poppet (3), bent links (18) and link pins (25).
3. With no tension on the poppet assembly, use needle nose pliers to remove one set of the hitch pin (21), link pins (25) and washers (28).

Note: The set that is closest to the flange is easiest to access.

4. After the pin set has been removed, remove poppet assembly from the body bore.
5. Carefully remove the nosepiece (2) and wave spring (23). Do not nick the bore.
6. Without scratching the seal seats on the nosepiece, use a pick to carefully remove nosepiece seals.
7. Using a solvent, thoroughly clean the bore and nosepiece seal grooves. Make sure all grit is removed.
8. If shaft seal needs replacing, go to steps 10-17 before reattaching poppet and bent links.
9. Reassemble spring, nosepiece and poppet assembly in reverse order. This includes hitch and link connection. Refer to sketch for linkage alignment.

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TO CHANGE THE SHAFT O-RING:

10. Open the coupler (refer to step 2 above) and rotate lever to gain access to roll pin that attaches handle to shaft (4).
11. Using a hammer and punch, remove coiled spring pin (7) from lever (24). Slide lever off the end of the shaft.
12. Remove dust seal (15) with picking tool. Discard dust seal.
13. Remove retaining ring (16) with retaining ring pliers.
14. Slide shaft out to expose spacer (14) and o-ring (13). Remove spacer and o-ring. Discard o-ring.
15. Lubricate new product seal with Parker Super Lube (or equivalent) and assemble in reverse order. Lubricate new dust seal (15) before installation.
16. While rotating lever, install lever and coiled spring pin back through lever and shaft. Refer to drawing for proper alignment of bent links and lever.
17. Return to Step 9.

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