

Installation Instructions:

Coat all threads with Anti-Seize lubricant to prevent galling, before connecting Maxi-Dry® to any other threaded pipe or fitting.

DISASSEMBLY INSTRUCTIONS



WARNING: BEFORE DISASSEMBLY OF THESE COMPONENTS, ALL LINE PRESSURE MUST BE RELIEVED.

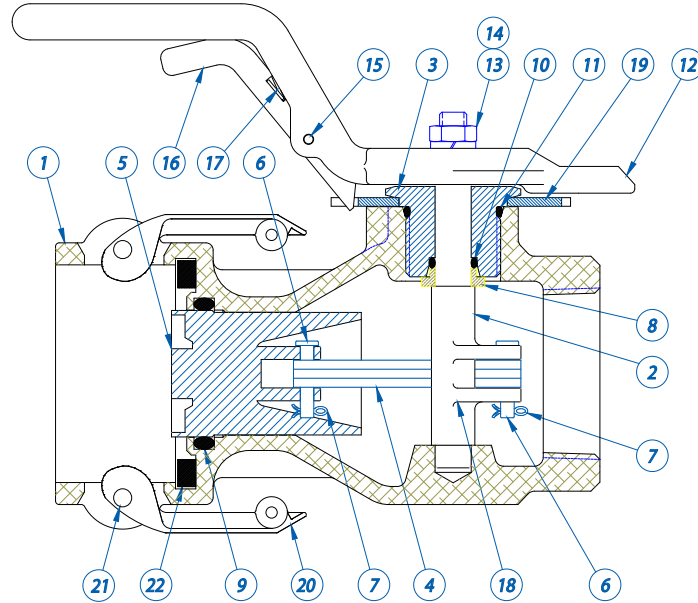
COUPLER

1. Remove coupler assembly from line.
2. Close coupler.
3. Remove cotter Pin (7) and Pin (6) from Stem (2).
Note: It may not be possible to remove the Pin completely from the Stem. When this happens, remove Pin enough so that the Linkage (4) can be removed from the Stem.
4. Remove Handle Nut (13), Lockwasher (14), and Handle (12), from Stem.
5. Unscrew Bushing (3) from Body (1) and remove from Stem.
6. Remove Stem (2) along with Stem O-Ring (10) and O-Ring Retainer. (8)
7. Using a soft object, such as a piece of wood or plastic, push Poppet (5) along with the Linkage (4) out of the coupler end of the Body.
8. Remove Cotter Pin (7), Poppet Pin (6), and Linkage (4), from the Poppet. Note: Relationship of the Linkage to the Poppet.
9. Remove Coupler Gasket (22) from Body.
10. Remove Poppet O-Ring (9) from Body. Note: It is almost impossible to remove the Poppet O-Ring without destroying it.
11. Remove Stem O-Ring (10) from Stem.
12. Remove O-Ring Retainer (8) from Stem.
13. Remove Bushing O-Ring (11) from Bushing.
14. Inspect Cam Arms (20) for excessive wear and replace if worn. Do not remove Cam Pins (21) unless new pins are to be installed.
15. Clean all parts and inspect for damage and/or excessive wear. If damage or excessive wear is encountered, the defective parts should be replaced with new replacements.

REASSEMBLY INSTRUCTIONS

COUPLER

1. Make sure all parts are clean before reassembling
2. Lightly lubricate the new Poppet O-ring (9) and install in the Body (1)
NOTE: Teflon® Encapsulated O-Rings may be easier to install if they are first heated in hot water.
3. Install the Link Assembly (4) onto the Poppet (5) with one Poppet Pin (6) and Cotter Pin (7)
NOTE: The long arm of the Link is installed on the Poppet. Orientation is such that the short arm of the Link is extending upward when looking into the face of the Poppet and the PT logo is at the nine o'clock position.
4. Install Poppet/Link subassembly into Body. The PT logo on the face of the Poppet should be in line with the threaded Stem opening. Gently push the Poppet into the Body. On 3" assemblies the PT logo is 90° from the Stem opening.
5. Place a Poppet Pin (6) in the pin holes in the Stem (2). Disregard for 3" assemblies.
6. Install the O-Ring Retainer (8) on the Stem.
NOTE: Large Diameter first. Not used on 3" Assembly
7. Lightly lubricate a new Stem O-Ring (10), and install on Stem.
8. Install Stem in Body making sure the Poppet Linkage (4) is below the Stem when viewing into the threaded end of the Body and the threaded Stem opening is at three o'clock.
9. Lightly lubricate the Bushing O-ring (11) and install on the Bushing (3).
10. Place the Bushing (3) over the Stem and screw into the Body until tight.
11. Turn the Stem to align the holes so that the linkage can be attached. On 3" assemblies make sure the Stem (2) goes through the Stem Cam (18). Rotate the Stem and Stem Cam clockwise until it stops.
12. Install the Poppet Pin (6) through the Linkage and secure with a Cotter Pin (7). Rotate the Stem and Stem Cam clockwise until it stops.
13. Install the Handle (12, Nut (13), and Lockwasher (14), making sure proper orientation is maintained.
NOTE: When the coupler is shut, the Handle should protrude over the coupler end of the Body. The stop tab on the Handle should be resting between the Body tab and the Handle Latch (15).
14. Install new Coupler Gasket (22) in Body recess.



Coupler Part Numbers

Item #	Description	Material	Quantity	MD15D	MD20D	MD30D	MD40D
1	Body	Aluminum A356.0-T6	1	40001501	40000201	40000301	40000343
1	Body	316 SS	1	44001501P	44000201P	44000301P	4000343P
2	Stem	17-4 PH SS	1	44001502	44000202	44000302	44000302
3	Bushing	303 SS	1	44001503L	44000203L	44000303L	44000303L
4	Link	304 SS	1	44001504	44000204	44000304	44000304
5	Poppet	316 SS	1	44001505	44000205	44000305	44000305
6	Poppet Pin	304 SS	2	44001506	44000206	44000306	44000306
7	Cotter Pin	SS	2	44000207	44000207	44000307	44000307
8	O-Ring Retainer	303 SS	1	44001508	44000208	N/A	N/A
9	O-Ring Poppet	Buna-N	1	40001509	40000209	40000309	40000309
9		Viton®	1	44001517	44000217	40000311	40000311V1
9		Teflon® Encap. Viton	1	44001518	44000218	40000312	N/A
9		EPDM	1	44001551	44000251	44000350	N/A
10	O-Ring, Stem	Buna-N	1	40001510	40000210	40000310	40000310
10		Viton®	1	44001519	44000219	40000313	40000313V1
10		Teflon® Encap. Viton	1	44001520	44000220	40000314	N/A
10		EPDM	1	44001552	44000252	44000352	N/A
11	O-Ring, Bushing	Buna-N	1	40001511	40000211	40000211	40000211
11		Viton®	1	44001521	44000221	44000221	44000221V
11		Teflon® Encap. Viton	1	44001522	44000222	44000222	N/A
11		EPDM	1	44001553	44000253	44000253	N/A
12	Handle	316 SS	1	44001512L	44000212L	44000312L	44000312L
13	Handle Nut	SS	1	44001513	44000213	44000313	44000313
14	Handle Lock Washer	SS	1	44001514	44000214	44000314	44000314
15	Lever Pin SS	SS	1	44000227	44000227	44000239	44000239
16	226 Lever SS	316 SS	1	44000226	44000226	44000226	44000226
17	Lever Spring SS	SS	1	44000228	44000228	44000228	44000228
18	Stem Cam 3" & 4" only	316 SS	1	NA	N/A	44000311	44000311
19	Stop Plate	SS	2	44001525	4400225	44000225	4400225
20	HBS Cam Arm	SS	2	5001520	5001520	5001530	5001530
21	SS PIN	304 SS	2	5301020	5301020	5301030	5301030
22	Gasket	Buna-Fuel Resistant	1	5500220F	5500225	5500240F	5500240F
22	Gasket	Viton®	1	5500820	5500825	5500840	5500840
22	Gasket	Teflon® Encap. Viton	1	5503220	5503025	5503240	N/A
22	Gasket	EPDM	1	5502620	5502625	5502640	N/A

*Recommended Spare Parts