

ME990-3F-VRK COMPLETE VALVE REPAIR KIT FOR: ME990-3F 3" SINGLE FLANGE INTERNAL VALVE

!!!WARNING!!!

READ AND UNDERSTAND ALL INSTRUCTIONS INCLUDED WITH THIS REPAIR KIT
RELIEVE ALL PRESSURE FROM SYSTEM BEFORE REMOVING VALVE FOR SERVICE

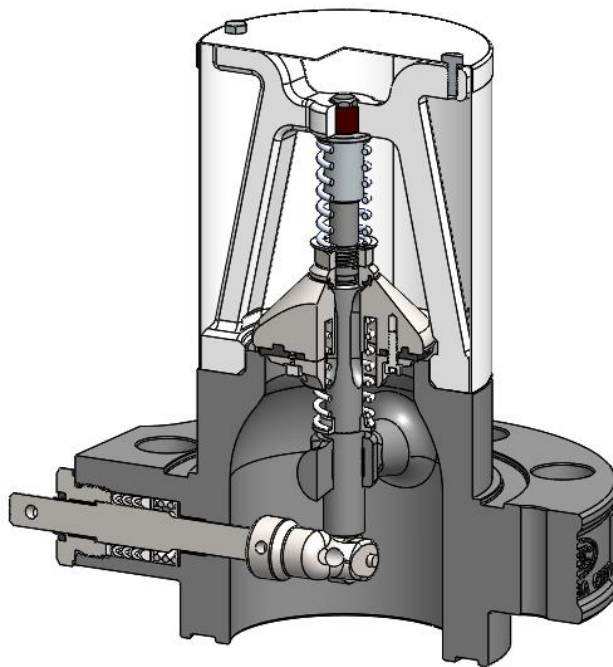
NOTE: Numbers in brackets [] refer to the number in the valve component list.



WARNING: These products contain a chemical known to the state of California to cause cancer and birth defects or reproductive harm

A. Disassembly

1. **EVACUATE ALL PRESSURE FROM SYSTEM BEFORE ANY DISASSEMBLY OR REPAIR.**
2. Remove (8) Bushings [19] from Valve Body [1] and discard (not shown).
3. Remove (2) Cap Screws [2] from Screen Cap [3] and discard.
4. Remove Screen Cap [3] and Screen [4]; retain components.
5. Remove (4) Cage Screws [5] from Valve Cage [6] and discard.
6. Remove Valve Cage [6] and Cage Bushing [7] and discard.
7. Remove Spring Guide [8], Closing Spring [9] and Spring Washer [10] and discard.
8. Remove Lock Nut [11] and Bleed Disc [12] and discard.
9. Remove Valve Poppet [13] and discard.
10. Remove Excess Flow Spring [14] and retain.
11. Remove Spring Seat [15] and Stem [16] and discard.
12. Remove Guide Bearing [17] and discard.
13. Remove Cam Pin [19] and Cam [20] from Gland Assembly [18] and discard.
14. Remove Gland Assembly [18] and discard.
15. Inspect Valve Body [1] and clean if necessary, be sure interior is free of dirt, residue and foreign particles.



B. Reassembly

1. Apply Loctite #242 or equivalent thread locker to gland threads of Body [1]; install new Gland Assembly [18]; see recommended orientation below.
2. Install new Cam [20] and new Cam Pin [19] onto Gland Assembly [18].
3. Install new Guide Bushing [17] into Body [1]
4. Install new Spring Seat [15], retained Ex-Flow Spring [14], and new Valve Poppet [13] onto new Stem [16] in order and orientation shown.
5. Install new Bleed Disc [12] and new Lock Nut [11] onto Stem [16].
6. Install Stem Assembly [11-16] into Body [1].

Marshall Excelsior Company

1506 George Brown Drive Marshall, MI 49068
Phone (269) 789-6700 Fax (269) 781-8340
www.marshallexcelsior.com

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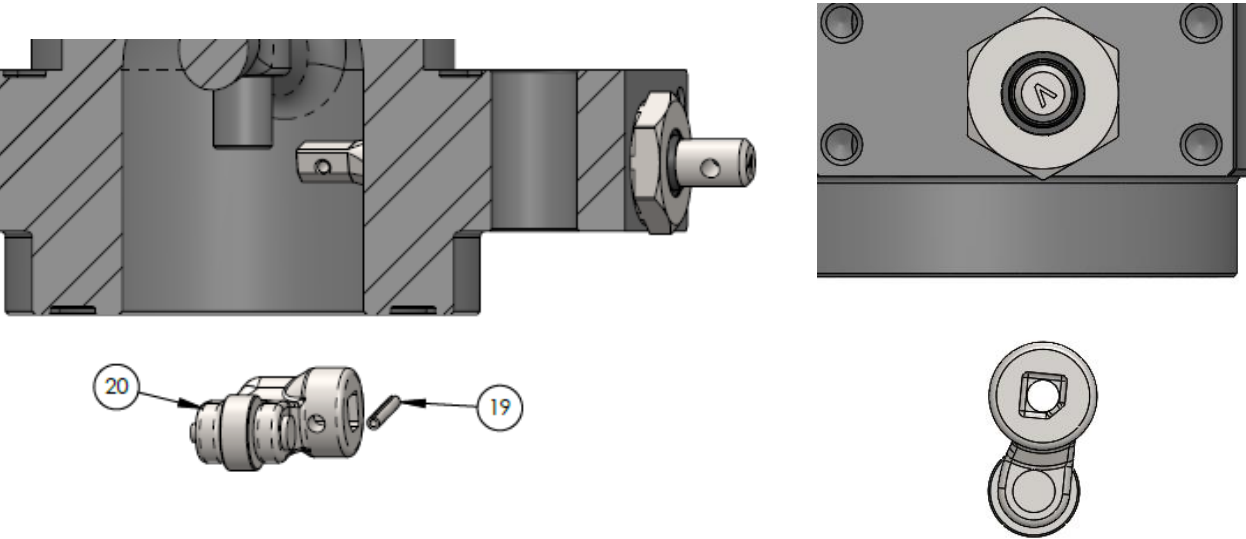
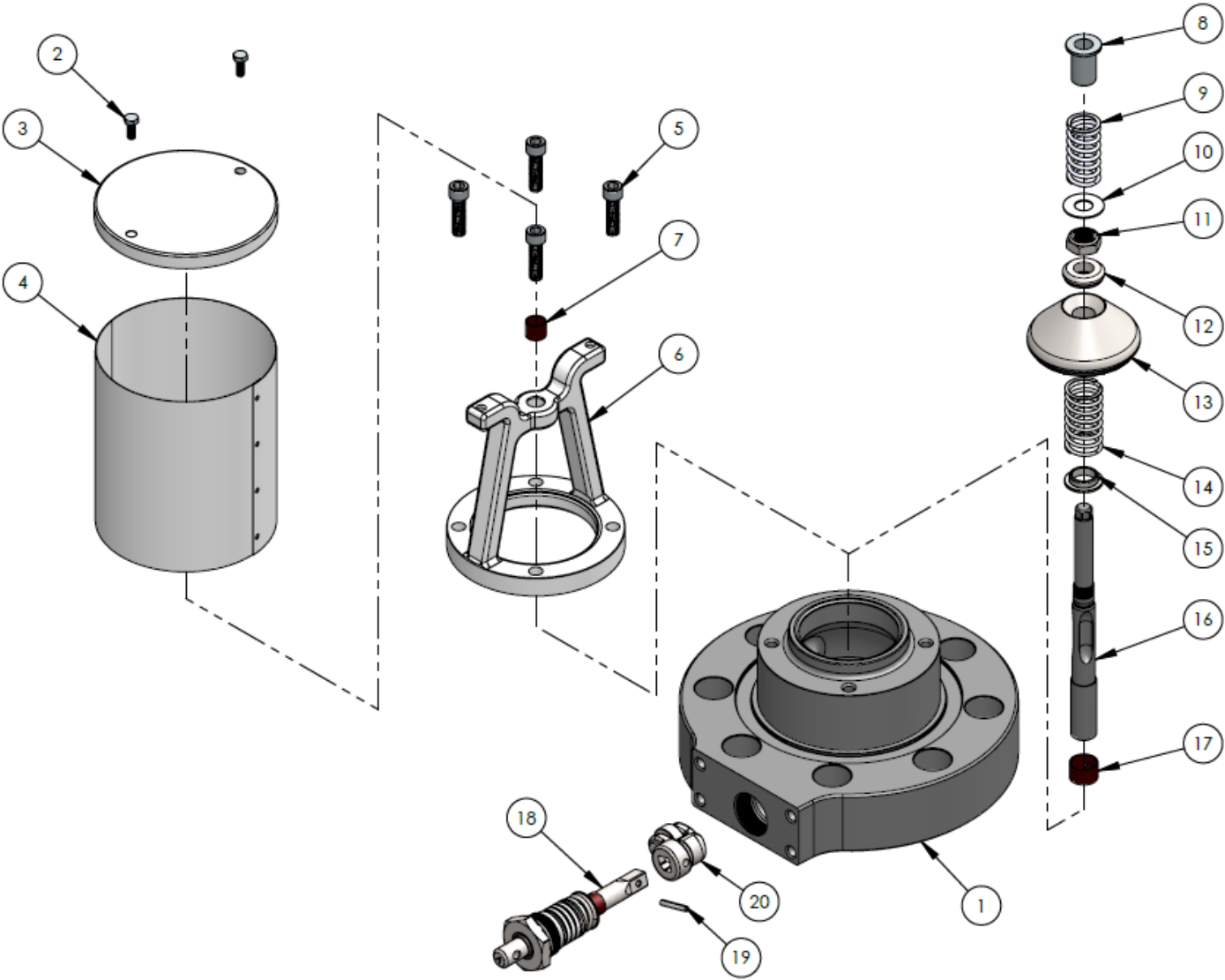
7. Install new Spring Washer [10] and new Closing Spring [9] onto Stem [16]
8. Install new Spring Guide [8] onto Stem [16] in orientation shown.
9. Install new Cage Bearing [7] into new Valve Cage [6]
10. Apply Loctite #242 or equivalent thread locker to (4) cage-screw threads of Body [1]; install new Valve Cage [6] onto Body, install (4) new Cage Screws [5] to retain.
11. Install Screen [4] and Screen Cap [3] onto Valve Cage [6]; install (2) new Cage Screws [2] to retain.
12. Connect the valve assembly outlet to a pressure source of at least 150 PSI. Check for leaks at all joints and stem seals using a suitable leak detector solution such as "Marshall Excelsior" leak detector.

CAUTION: DO NOT USE THE VALVE IF ANY JOINT CONTINUES TO LEAK UNDER PRESSURE

C. Component List

Item no.	Description	Qty	Included in Kit
1	Body	1	N
2	Cap Screw	2	Y
3	Screen Cap	1	N
4	Screen	1	N
5	Cage Screw	4	Y
6	Valve Cage	1	Y
7	Cage Bushing	1	Y
8	Spring Guide	1	Y
9	Closing Spring	1	Y
10	Spring Washer	1	Y
11	Lock Nut	1	Y
12	Bleed Disc	1	Y
13	Valve Poppet	1	Y
14	Excess Flow Spring	1	N
15	Spring Seat	1	Y
16	Valve Stem	1	Y
17	Guide Bearing	1	Y
18	Gland Assembly	1	Y
19	Cam Pin	1	Y
20	Cam	1	Y
21	Bushings (Not shown)	8	Y

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Recommended orientation for install