



# VERSA FILL™ BYPASS VALVE ME845-PGA GLAND REPAIR KIT



**WARNING:** Product contains sever points. Keep hands, fingers, or other appendages away from valve inlet or outlet ports during transportation, installation and maintenance.

## WARNING!

Failure to follow these instructions or to properly install and maintain this equipment could result in an explosion and/or fire causing property damage and personal injury or death.

Install, operate and maintain Marshall Excelsior Co. equipment in accordance with federal, state, and local codes and these instructions. The installation in most states must also comply with NFPA standards 54, 58 and 59.

Only personnel trained in the proper procedures, codes, standards and regulations of the LP-Gas industry should install, maintain and service this equipment. Be sure all instructions are read and understood before installation, operation and maintenance. These instructions must be passed along to the end user of the product.

## GENERAL WARNING!

Marshall Excelsior products are mechanical devices that are subject to wear, contaminants, corrosion, and aging of components made of materials such as elastomers and metal. Over time these devices will eventually become inoperative. The safe service life of these products will reflect the environment and conditions of use that they are subjected to. **REGULAR INSPECTION AND MAINTENANCE IS ESSENTIAL.** Marshall Excelsior products have a long record of quality and service; thus, end users of the equipment may overlook the hazards that can arise from using aging devices that have outlived their safe service life.



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

Do not attempt to remove the bypass valve until you have bled off the system pressure. On systems with meters, the differential valve will keep liquid under pressure in the pump, meter and piping even when the hose is emptied.

## A. Disassembly

1. **EVACUATE ALL PRESSURE FROM SYSTEM BEFORE ANY DISASSEMBLY OR REPAIR.**
2. Remove Hex Screw from Flange and retain Hex Screw and discard Flange O-Ring [17].
3. Remove Handle Screw [9] and Handle Washer [15] from Gland Assembly [2] and retain.
4. Remove Handle [14], Handle Spring [16], and Spring Bearing [13] from the Gland Assembly [2] and retain.
5. Remove Lever Plate Screws [12] from Body [1] and retain.
6. Remove Lever Plate Assembly [10] and Handle Plate Spacer [11] from the Gland Assembly [2] and retain.
7. Loosen Set Screws [8]
8. Remove Spool Plug Assembly from Body [1] and retain.
9. **DO NOT REMOVE** Spool Assembly [6] from Body [1].
10. Remove Spool Bearing Disc [3], Wave Disc Spring [4], and O-ring [7] from Spool Plug [5].
11. Remove Gland Assembly [2] from Body [1] and discard.
12. Inspect Body [1] and clean if necessary, be sure interior is free of dirt, residue and foreign particles.

## B. Reassembly

1. Apply Anti-seize to the Gland Assembly thread, Install Gland Assembly [2] into Body [1]. Recommended torque spec 100 ft-lb. See Figure 2 and Figure 3 for Spool orientation when installing Gland Assembly.
2. Install O-Ring [7], Spool Bearing Disc [3], and Wave Disc Spring [4] onto Spool Plug [5]

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## Reassembly Continued

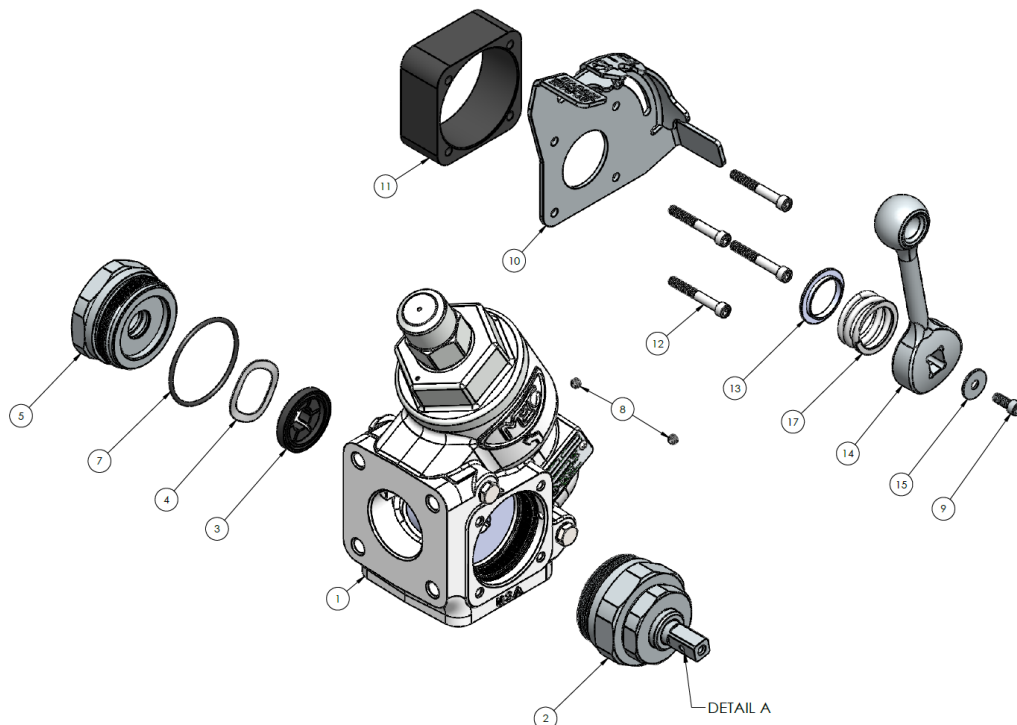
3. Install O-Ring [7], Spool Bearing Disc [3], and Wave Disc Spring [4] onto Spool Plug [5]
4. Apply Lubricant to O-ring [7] and Anti-Seize to the Spool Plug Assembly thread. Install Spool Plug Assembly into Body [1]. Recommended torque spec 100 ft-lb.
5. Tighten Set Screws [8]. Recommended torque spec 50 in-lb.
6. Install Handle Plate Spacer [11] and Lever Plate Assembly [10] onto Gland Assembly [2]. Apply low strength Loctite to Lever Plate Screw. Use Lever Plate Screws [12] to retain Handle Plate Spacer and Lever Plate to Body [1]. Recommended torque spec 50 in-lb.
7. Install Spring Bearing [13], Handle Spring [16], and Handle [14] onto Gland Assembly [2]. When installing Handle, make sure stem face with notch is facing outlet. (See Figure 1, Detail A)
8. Apply low strength Loctite to Handle Screw. Install Handle Washer [15] and Handle Screw [9] into Gland Assembly [2]. Recommended torque spec 50 in-lb.

Parts List			REPAIR KITS
Ref. #	DESCRIPTION	QTY	ME845-PGA
1	BODY	1	
2	GLAND ASSEMBLY	1	✓
3	SPOOL BEARING DISC	2	✓
4	WAVE DISC SPRING	1	✓
5	SPOOL PLUG	1	
6	*SPOOL ASSEMBLY	1	
7	O-RING (SPOOL BONNET & PLUG)	2	✓
8	SET SCREW	2	
9	HANDLE SCREW	1	
10	LEVER PLATE ASSEMBLY	1	
11	HANDLE PLATE SPACER	1	
12	LEVER PLATE SCREW	4	
13	SPRING BEARING	1	
14	HANDLE MACHINED	1	
15	HANDLE WASHER	1	
16	HANDLE SPRING	1	
17	*O-RING (FLANGE CONNECTIONS)	2	

\*NOT SHOWN

Table 1: BOM

Figure 1: Exploded View



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Figure 2: Spool Orientation

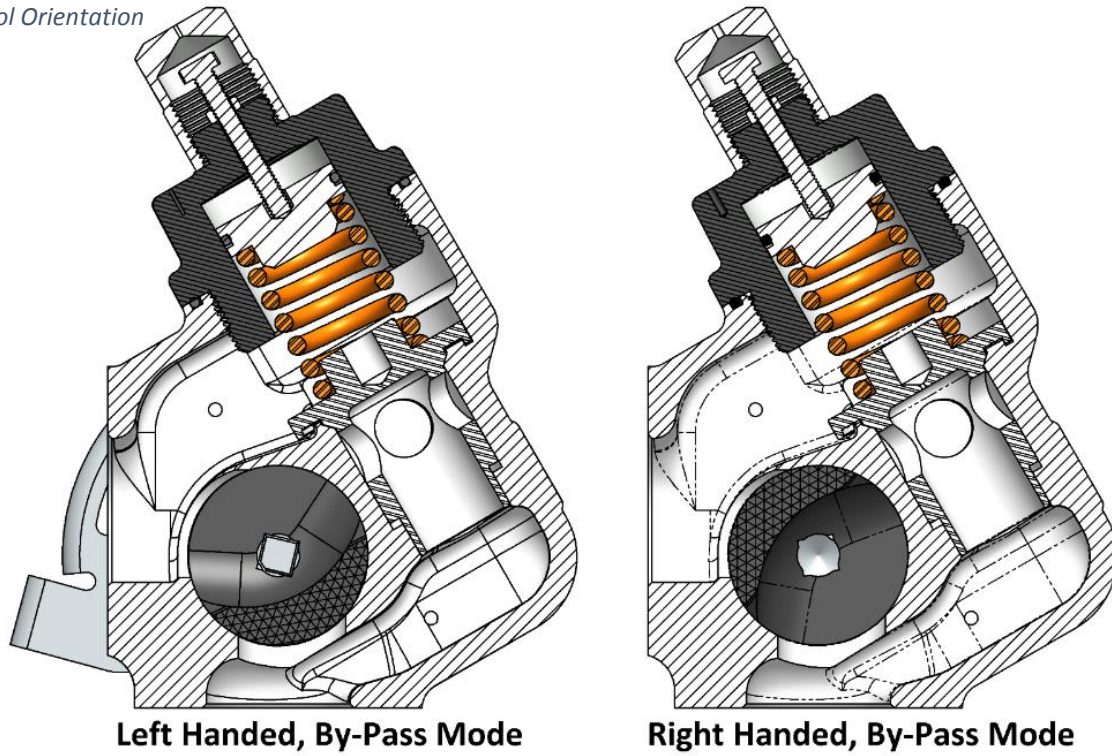


Figure 3: Spool Orientation

