

**ME815BRK BONNET REPAIR KIT  
 FOR MEC GLOBE & ANGLE VALVES  
 1 1/4", 1 1/2", and 2" NPT SIZES**

**!!!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.

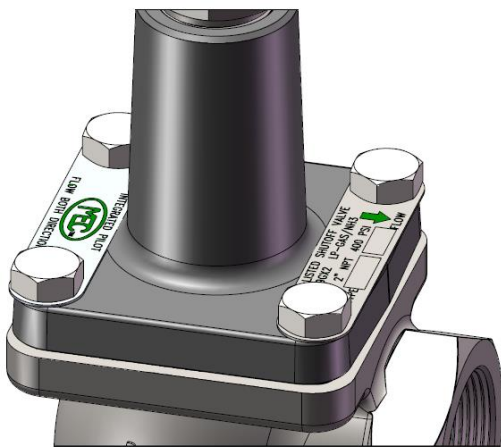
**A. Disassembly**

1. **EVACUATE ALL PRESSURE FROM SYSTEM BEFORE ANY DISASSEMBLY OR REPAIR.**
2. Fully open the Valve. Remove Nylock Nut [2] and Lock Washer [3] from Bonnet Assembly [7] and discard.
3. Remove Handwheel [4] and retain.
4. Remove (4) Bonnet Bolts [5] from Valve Body [1] and retain.
5. Remove Information Plate [6] and discard. If repairing a Pilot or IBC Valve Assembly, remove (2) Information Plates [6] and discard.
6. Remove Bonnet Assembly [7] and discard.
7. Remove Bonnet Seal [8] and discard.
8. Inspect Valve Body [1] and clean if necessary, be sure interior is free of dirt, residue and foreign particles.

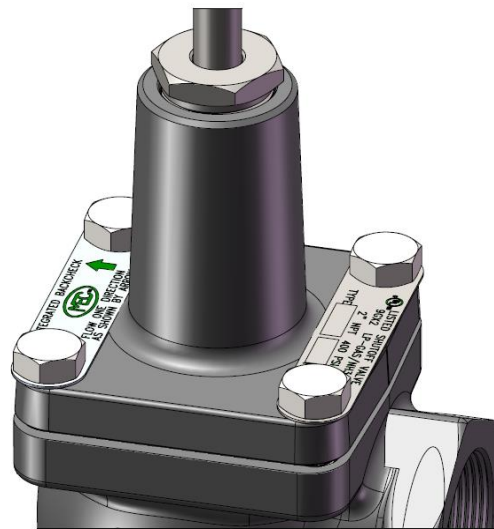
**B. Reassembly**

1. Install Bonnet Seal [8] into Valve Body [1].
2. Install Bonnet Assembly [7] into Valve Body [1].
3. Install Information Plate [6] according to type of assembly being repaired, see Figures 1-3.
4. Install (4) Bonnet Bolts [5] thru bonnet flange and into Valve Body [1]. Tighten to a minimum of 100 ft lbs of torque.
5. Install Handwheel [4], Lock Washer [3], and Nylock Nut [2] onto Bonnet Assembly [7] and tighten.
6. 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**



**FIGURE 1  
 PILOT VALVES**



**FIGURE 2  
 IBC VALVES**

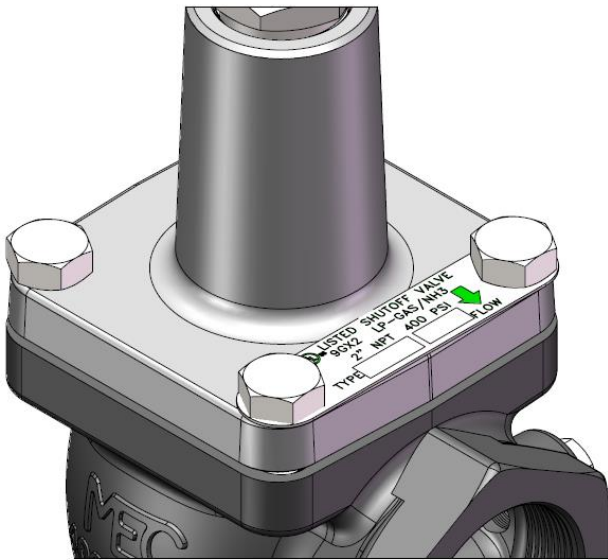
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## ME815BRK BONNET REPAIR KIT

### C. Component List

1. Valve Body
2. Nylock Nut
3. Lock Washer
4. Handwheel
5. Bonnet Bolt, Qty: 4
6. Information Plate:  
For Standard Valves, Qty: 1  
For Pilot and IBC Valves, Qty: 2
7. Bonnet Assembly
8. Bonnet Seal



**FIGURE 3  
STANDARD VALVES**

