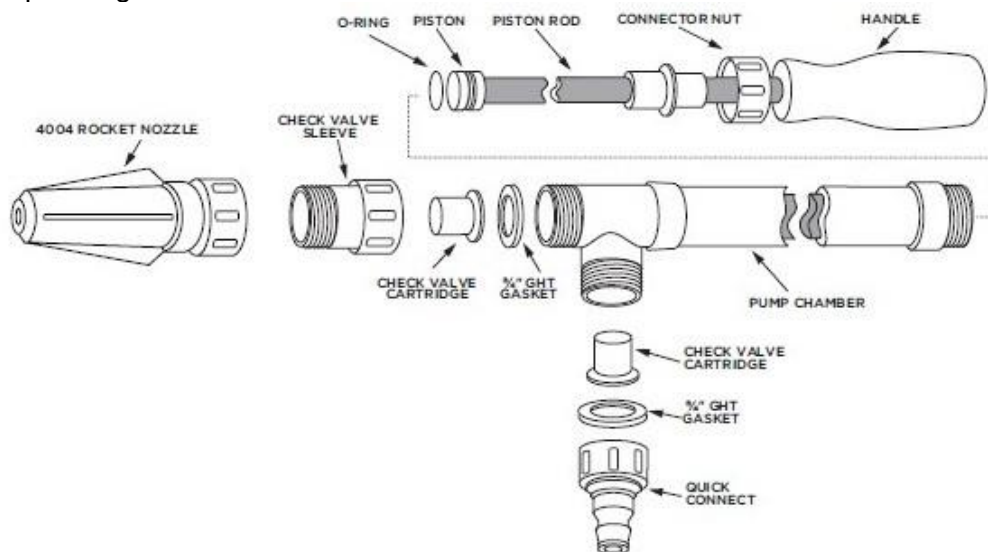




#### 4000 - Hand Pump Cartridge Valve Service/Replacement

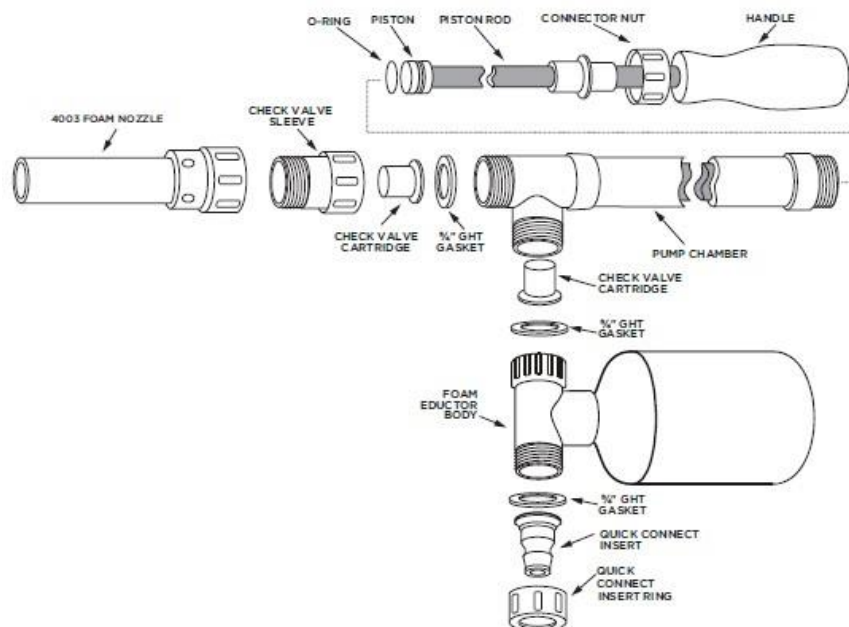
1. Disassemble the hand pump by unscrewing the connector nut at the handle end of the pump chamber.
2. Remove the pump shaft by pulling the pump handle until it separates from the pump chamber.
3. Cut or pry off the old O-ring on the piston. Replace O-ring.
4. Unscrew the cartridge valve sleeve from the pump. Remove and discard the old cartridge valve. Do not discard the  $\frac{3}{4}$ " gasket.
5. Replace with a new cartridge valve. Be sure to install the new cartridge valve according to the diagram below. The valve must be positioned the correct way to function properly. Reinstall the  $\frac{3}{4}$ " gasket and screw the cartridge valve sleeve back onto the pump.
6. Unscrew the quick connect insert ring. Remove and discard the old cartridge valve. Do not discard the  $\frac{3}{4}$ " gasket. Replace with a new cartridge valve. Once again, be sure to install the new cartridge valve according to the diagram below. The valve must be positioned the correct way to function properly. Reinstall the  $\frac{3}{4}$ " gasket and screw the quick connect insert ring back onto the pump.
7. The hand pump only requires an occasional application of lubrication on the piston shaft and O-ring to keep it in operating condition.



## 4000F - Foam Hand Pump Cartridge Valve Service/Replacement

1. Disassemble the hand pump by unscrewing the connector nut at the handle end of the pump chamber.
2. Remove the pump shaft by pulling the pump handle until it separates from the pump chamber.
3. Cut or pry off the old O-ring on the piston. Replace with new O-ring.
4. Unscrew the cartridge valve sleeve from the pump. Remove and discard the old cartridge valve.
5. Replace with a new cartridge valve. Be sure to install the new valve according to the diagram below. The valve must be positioned the correct way to function properly.
6. Carefully unscrew the quick connect insert ring. Remove and discard the old cartridge valve. Replace with a new cartridge valve. Once again, be sure to install the new valve according to the diagram below.
7. The hand pump only requires an occasional application of lubrication on the piston shaft and O-ring to keep it in operating condition.

Use the diagram below as a reference when cleaning or when repair/replacement parts are required.



This product change is applied to the following part numbers:

4000  
4000F  
4000-BP  
4000-BP-BULK  
4000F-BP  
4000F-BP-BULK  
4000-BRAVO  
4000-BRAVO-BULK  
4000F-BRAVO  
4000F-BRAVO-BULK

To order the hand pump service kits please use the following code:

4000SERV-CC

The 4000SERV-DB part number has now been discontinued.