

Necessary components • Adjustable Wrench • Pliers • Flat head screw driver • Socket wrench set-Loctite 242 (blue) Relief Valve Assembly

1. After removing the cover of the backflow preventer then remove the relief valve assembly, from body. Inspect the assembly for debris or damage.
2. Grasp the bottom disc retainer and use a Allen wrench to take the assembly apart. Turn the Allen wrench coupter clockwise until the assembly is apart. (figure 1)
3. If the relief valve disc/rubber has dirt or debris on it then rinse in clean water. If the disc/rubber is cut or damage beyond repair contact service center or factory and request a rubber kit for the relief valve assembly.
4. Put relief valve diaphragm plate down the stem then place relief valve diaphragm on top of plate and screw piston onto stem.
5. Put the O-ring onto the relief valve piston.
6. Then place relief valve disc holder on the bottom of the shaft and put the relief valve disc/rubber into disc holder, then screw relief valve retainer on to threads.

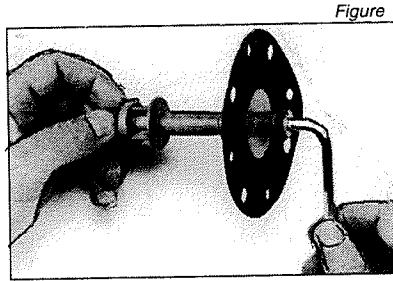


Figure 1

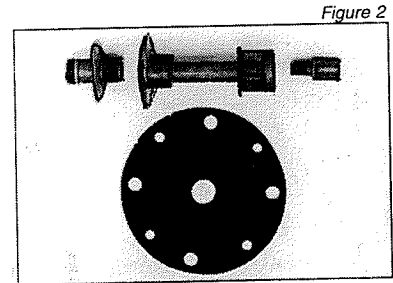
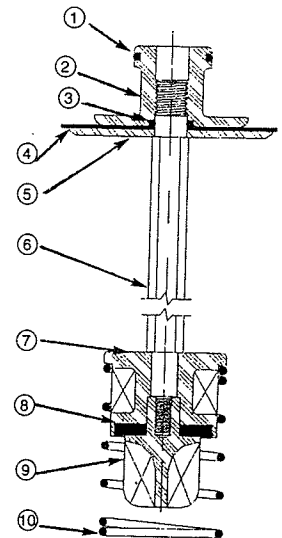


Figure 2



ITEM	DESCRIPTION
1	PISTON O-RING
2	R.V. PISTON
3	R.V. STEM O-RING
4	R.V. DIAPHRAGM
5	R.V. DIAPHRAGM PLATE
6	R.V. STEM
7	R.V. DISCHOLDER
8	R.V. DISC
9	R.V. DISC RETAINER
10	R.V. SPRING

RELIEF VALVE ASS'Y

RPZ/DCV BACKFLOW REASSEMBLY

Visually inspect the valve body, springs and bolts for defects. Carefully remove any debris or foreign material with a flat head screwdriver.

Directions for assembly

1. Put lubricant on the 1st and 2nd check valve O-rings.
2. Put the 1st check valve into the body and secure with clamp.
3. Do the same for the 2nd check valve.
4. Lubricate relief valve O-ring with Silicone Lubricant.
5. For the RPZ UNITS Lubricate the relief valve seat into body and put spring over the seat then a-line relief valve assembly with hole in seat and the holes in the diaphragm.
6. Place the RPZ/DCV cover over the body and secure with bolts (on the RPZ units the 2 small slits on the diaphragm should face the inlet side).

**GENERAL SERVICE INSTRUCTIONS
PRESSURE VACUUM BREAKER 3/4"-1" (20mm - 25mm)**

1. Removal of bonnet/poppet
 - a. Close outlet ball valve then close inlet ball valve. Bleed residual pressure by opening No. 2 testcock.
 - b. Remove canopy screws and canopy.
 - c. Unscrew bonnet assembly from valve body by hand (If necessary, use appropriate size wrench on the outside diameter of bonnet).
 - d. Remove poppet/seal for any cracks or debris if it is dirty then clean with warm water.
2. Removal of check valve
 - a. After removing the bonnet/poppet inspect the check valve.
 - b. Use a 12 point 1-3/8" socket to unscrew check valve out from the body (see figure 2).
 - c. Clean and inspect all components thoroughly prior to reassemble.
 - d. Vent and check valve discs are reversible.
 - e. Use flat head screw driver to disassemble the check valve (see figure 3)

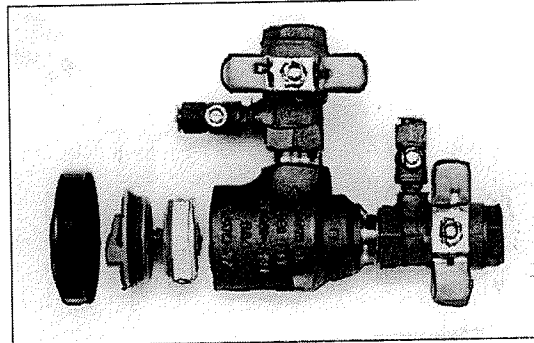


Figure 1

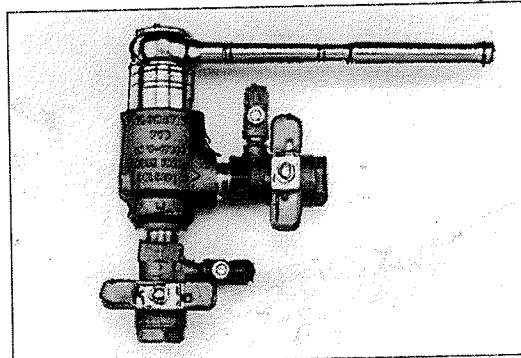


Figure 2

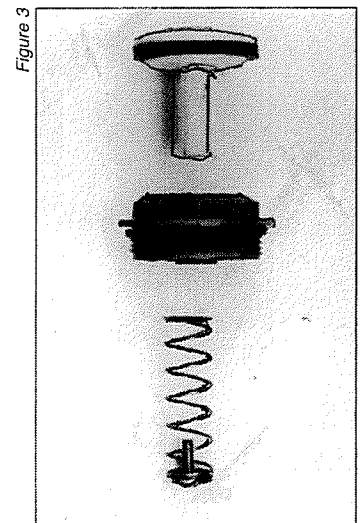


Figure 3