

CONBRACO 4S-200 Series/ RP 2 1/2-10"

Maintenance Instructions

IV. CHECK VALVE MAINTENANCE

TO REMOVE FIRST CHECK (2-1/2" - 10"): SEE FIGURES 4 & 6

1. Remove cover bolts, cover, and gasket. Remove spring assembly. **CAUTION! DO NOT DISASSEMBLE SPRING ASSEMBLY.**
2. Fold up roller/bracket assembly (8" & 10" first check assembly) or positioning bracket (2-1/2" - 6" first check assembly).
3. Pry out check with flat screwdriver or prybar and lift out.

TO REMOVE SECOND CHECK (2-1/2" - 4"): SEE FIGURE 4

1. Remove spring cap, spring cap O-ring, cover bolts, cover, and gasket.
2. Pry out complete check assembly with flat screwdriver or prybar and lift out. **CAUTION! DO NOT DISASSEMBLE SPRING MECHANISM!**

TO REMOVE SECOND CHECK (6" - 10"): SEE FIGURE 6

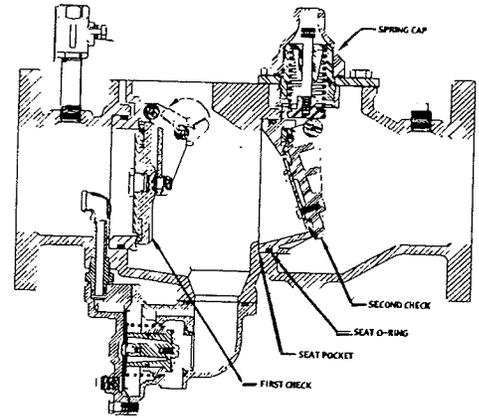
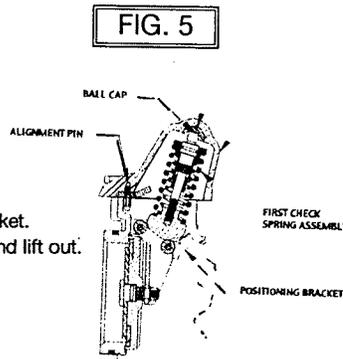
1. Fold up positioning bracket.
2. Pry out check with flat screwdriver or prybar and lift out.

TO REPAIR CHECKS: SEE FIGURES 7, 8, & 9

1. Remove center bolt (or screws).
2. Inspect seat disc for damage and replace, if necessary. The seat disc may be turned over for a temporary repair, but should be replaced as soon as possible.
3. Reinstall seat disc, disc washer, and center bolt (or screws).

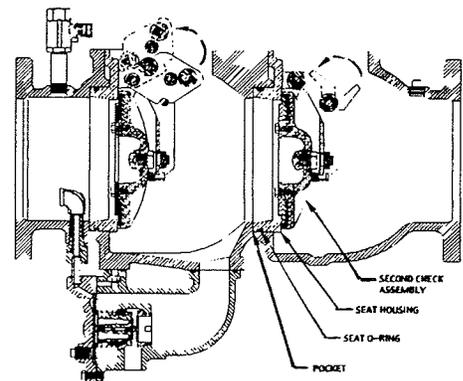
TO INSTALL CHECKS: SEE FIGURES 4 & 6

1. Lubricate seat O-ring with FDA approved lubricant.
2. Slide seat into pocket until O-ring meets pocket edge.
3. Use a prybar to work the seat side to side until the seat bottoms out in pocket. Important! To prevent binding, keep the seat aligned as straight as possible during insertion.
4. FIRST CHECK (2-1/2" - 10") and SECOND CHECK (6" - 10"): Flip roller/bracket assembly or positioning bracket down. Place spring assembly cam on rollers. Reinstall gasket, cover, and tighten bolts. When replacing the cover, place the spring assembly ball cap in the plastic pocket provided in the cover. SEE FIGURE 5. The cover has an alignment pin that must install into the pocket provided in the top of the seat housing.
5. SECOND CHECK (2-1/2" - 4"): Reinstall gasket, cover, and tighten bolts. Lubricate cap O-ring and reinstall spring cap. **CAUTION! DO NOT OVER-TIGHTEN CAP!**



2-1/2" - 4" RP

FIG. 4



6" - 10" RP

FIG. 6

V. RELIEF VALVE MAINTENANCE

1. For sizes 2-1/2" - 6": Remove (2) 1/2" screws and remove relief valve body assembly by sliding off sensing tube.
For sizes 8" & 10": Loosen all four mounting screws of relief valve body assembly. This will allow removal of the relief valve cover plate.
2. Remove cover screws, cover, and diaphragm.
3. Remove relief valve cartridge assembly.
4. Remove diaphragm plate retaining screws, and seat disc retaining screws.
5. Inspect seat disc, diaphragm, and O-rings for damage. Damaged seat disc may be turned over, but should be replaced as soon as possible. Replace damaged O-rings or diaphragm.
6. Lubricate stem and stem O-ring with FDA approved silicone lubricant and reassemble relief valve cartridge.
7. Insert relief valve cartridge into body.
8. Replace diaphragm, cover, and cover screws.
9. Inspect sensing tube O-ring for damage and replace, if necessary. Slide assembled relief valve over sensing tube, and re-attach relief valve body to valve body.

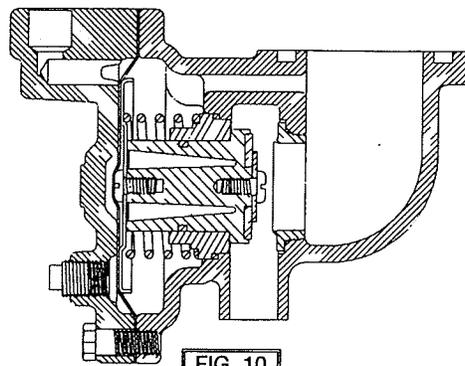


FIG. 10

2-1/2" - 4"

RELIEF VALVE BODY ASSEMBLY