

Series 995/995RPDA

Reduced Pressure Zone Backflow Preventer,
Reduced Pressure Detector Assemblies

Sizes: 3" - 6"

Servicing First and Second Checks

REMOVING CHECK ASSEMBLIES (Before servicing be sure shutoff valves are closed)

1. Slowly open all ball valves to relieve air and water pressure. After pressure is relieved, loosen bolts on groove coupler and remove groove coupler and cover plate from valve body.
2. Remove #1 Check Assembly. Do not use Check Arm as a handle to unscrew the Check. Insert lid bolts in 1st check seat ring (see fig. 1), insert a long screwdriver or pry bar between lid bolts. Gently apply pressure against the bolts and turn seat assembly counter clockwise moving bolts hole to hole to maintain turning leverage (two additional bolts will eliminate need to move lid bolts from hole to hole). Finish unscrewing by hand and remove through top access port. Unscrew #2 Check (turn counter-clock wise) by placing a long screwdriver across lid

- bolts inserted in holes located in the 2nd check seat ring, similar in method used to remove 1st check and applying pressure to loosen #2 Check. Finish unscrewing by hand.
3. To clean Check, locate the Check Arm opening stud on the out let flange of the valve assembly. Slide the Arm over the stud with the check threads facing downward (fig. 2). Tighten 1/4" nut on stud to secure cam bar. Slowly pull the assembly outward to open check allowing exposure of the seat and clapper contact area for cleaning. The assembly may be locked open by aligning the holes in the cam bar and hinge arms and inserting a rod (fig. 4).

Check Disassembly

Please use caution when disassembling check.
The check is a spring-loaded mechanical device.

Figure 3

Press down on the check assembly to unload the cambar from hinge arms and roller. Then place a thin rod or screwdriver into a maintenance hole in one hinge arm.

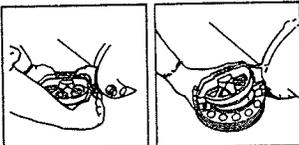


Figure 4

Using your free hand, swing the clapper assembly away from the seat. Align (A) lockout holes.

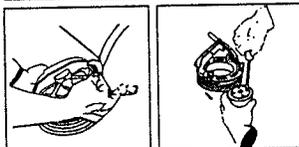


Figure 5

Remove 1 c-clip from the center pivot pin. Withdraw the center pivot pin from the clapper and the hinge arms. Remove the clapper assembly from the check assembly module. Note: You may replace this item as an assembly or you may replace only the disc.

Figure 6

Disassemble the clapper by removing 4 screws, disc retainer and the clapper disc. Disc may be flipped if sealing surface is damaged.

Figure 1

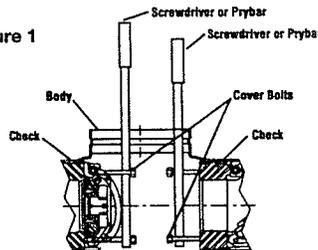
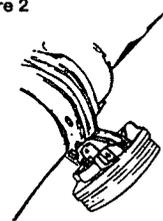
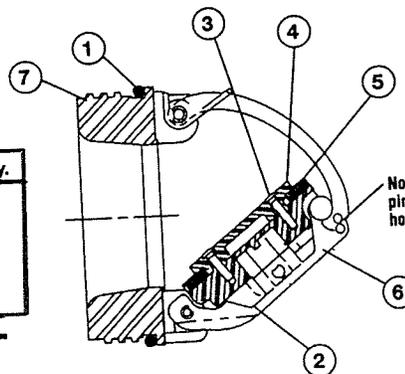


Figure 2



Before reinstallation of check assembly, thoroughly clean O-ring groove and lubricate O-ring with F.D.A. approved lubricant.

Item	Part Description	Qty.
1.	1st Cam-Check O-ring (removable)	1
2.	Clapper Assembly (removable)	1
3.	Clapper Retaining Plate Screws (removable)	4
4.	Clapper Retainer Plate (removable)	1
5.	Clapper Disc (removable)	1
6.	Pivot Arm Pin (removable) 2 c-clips	1
7.	2nd Cam-Check O-ring (removable)	1



Servicing the Relief Valve

RELIEF VALVE SERVICE INSTRUCTIONS

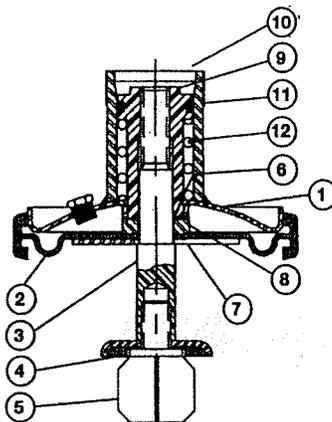
1. Prior to beginning any maintenance work, shut down the water supply to the unit and relieve any residual pressure in the valve by opening Test Cock (TC) #4.
2. The relief valve is an integral part of the lid assembly and may be serviced when the lid assembly is removed from the body of the valve.
3. The relief valve may be disconnected from the sensing line hose if desired to enable easier access to all parts of the assembly.

REPLACING THE SEALING DISC

1. Remove relief valve assembly from body.
2. Unscrew Seal Cup Lock Nut from the underside of the body
3. Remove Seal Cup and Gasket thru the body access port.
4. Install NEW Seal Cup and gasket in reverse order.
5. Reinstall Lock Nut. DO NOT CROSS THREAD.

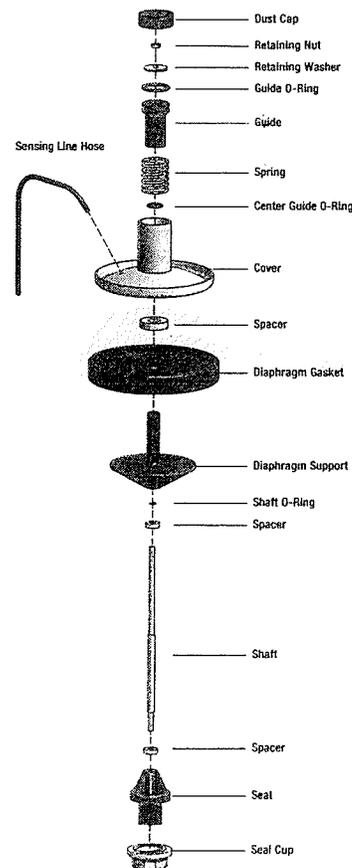
COMPLETE DISASSEMBLY OF THE RELIEF VALVE

1. Remove Sensing line from "T" junction at TC #2.
2. Remove Relief Valve Assembly from body.
3. Where available, clamp the RV assembly at the center section of the shaft on to the jaws of a vise and tighten sufficiently to prevent turning during disassembly.
4. Unscrew the seat from the shaft by turning counter clockwise.
5. Remove lower spacer (Note: Chamber side should be down).
6. Remove dust cap.
7. Remove retaining nut (Note: Apply light downward pressure to prevent spring from POPPING off the spring guide and retaining washer).
8. Lift off the cover. All internal parts will be pulled off the shaft at the same time.
9. Remove Spacer (Note direction of chamber)
10. Remove the diaphragm (Note direction of roll/convalute for reinstallation)
11. Remove diaphragm support.
12. Remove shaft O-ring.
13. Remove Upper spacer (Note chamber side should be on the top)



Parts Table

Item	Part Description
1.	Cover
2.	Diaphragm/Gasket
3.	Shaft
4.	Sealing Disc
5.	Guide, Lower
6.	O-ring
7.	Support Disc
8.	Disc, Diaphragm Stop
9.	Guide, Upper
10.	Cover, Dust
11.	O-ring, Upper
12.	Spring



Old Style

New Style

RV STYLE:

After removing Dust Cap, inspect Retainer Nut

OLD STYLE: HEX molded in guide - Parts no longer available.

NEW STYLE: 3/8" Nylock HEX nut - Parts shown stainless.