

CHECK VALVE DISASSEMBLY AND REASSEMBLY

1. SPRING MODULE REMOVAL

a. Slowly close outlet shut-off valve and inlet shut-off valve. Bleed residual pressure by opening #4, #3, and #2 test cocks

b. Remove cover bolts, removing the two bolts last that are located next to the retainer pin. Remove cover.

NOTE: Spring module is positioned in the body by the cover. Spring module is captured.

c. Remove pivot bearing (13) from the upper spring retainer of the spring module. Inspect pivot bearing (13) and bearing socket (15). Small hole in bearing socket indicates replacement is required. Remove retaining clip (5.1) from groove on one end of the load pin (7). Hold spring module with one hand while sliding out load pin (7) from arm (4). Lift out spring module and inspect for wear or damage. Replace spring module if necessary.

2. CHECK DISK REMOVAL

a. Remove jam nut (16) and washer (17) from check disc stem threads. Lift the arm and remove the check disc (6). Inspect sealing surface for debris or damage. Replace check disc if necessary.

NOTE: When jam nut (16) is tight, check disc is designed to "wobble."

3. SEAT RING ASSEMBLY REMOVAL

NOTE: Remove the seat ring assembly only if the seat ring (3) or arm (4) appear to be worn or damaged.

a. Remove locknuts (3.4) and washers (3.3) (see Figure No. 7).

NOTE: When reassembling, tighten locknuts to 12-15 ft/lbs. If leaking occurs around bolt, further tighten until leaking stops.

b. Remove seat ring assembly.

c. Remove retaining clip (5) from one end of the swing pin (4.2). Hold arm (4) while sliding out swing pin (4.2). Inspect bushings (4.1) and pin (4.2) for wear or damage. Replace if necessary. Inspect gasket (3.1) for debris and/or damage. Replace if necessary.

NOTE: Reverse the procedure above, to reassemble the components. Seat ring will only fit into body one way. Check alignment of seat ring if studs don't align with body holes. Gasket is also non-symmetric. Both seat ring and gasket have a notch that indicates non-symmetric hole. Clean all parts thoroughly with clean water before reassembly. Reassemble and bleed test cocks #4, and #3. Repressurize the assembly and test to ensure proper operation.

SEAT RING

FIGURE NO. 7

**Service
procedures
850, 856,
870, 870V,
876 and 876V
2 1/2- 10"**

