

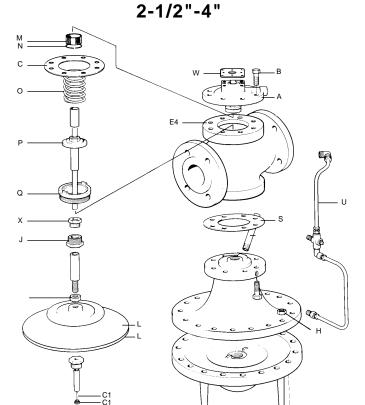
INSTALLATION AND MAINTENANCE INSTRUCTIONS

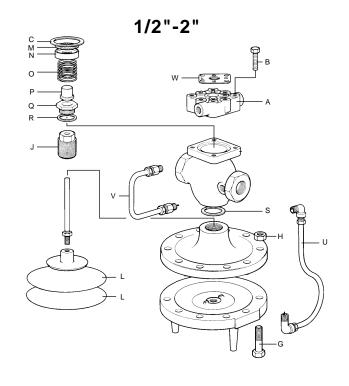
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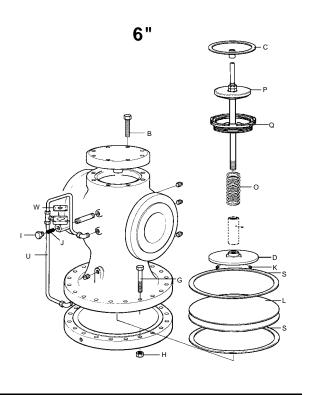
25 Series Main Valve Rebuild Kit

Parts List

Item	Description	Quantity
В	Bolts	4
С	Gasket Cap	1
L	Diaphragm	2
M	Screen	1
0	Valve Spring	1
P	Type 25 Valve Head	1
Q	Type 25 Valve Seat	1
R	Seat Gasket	1
U,V	Transmission Tubing	1
W	Pilot Gasket	3







Valve Sizes 1/2" thru 4"

Inspecting and Replacing Main Valve Head and Seat (Refer to Figs. 3 and 5).

- 1. Unscrew copper tubings at (J) and (L).
- 2. Disconnect pressure control line at the pressure pilot connection.
- 3. Remove main valve cover cap screws (1A).
- 4. Remove main valve cover, strainer, screen, and head spring.
- Head can then be removed by simply withdrawing with a pliers or similar tool.
- Inspection should then be made to determine if scale or other foreign material prevented tight closure of the head and seat.
- 7. If the head or seat shows signs of wear, this can be corrected by grinding, using a fine grinding compound (400 grit) providing the wear is not too severe. Check for body erosion.
- 8. If it is necessary to replace the valve seat, this can be removed from the valve body using a standard hexagon socket. (Valve sizes 1/2" to 2"). When replacing the valve seat, a new gasket should be used to insure a tight joint. 2-1/2" thru 6" valves contain raised lugs for removal and seal metal-to-metal without a gasket. Replacement heads and seats should be lapped in.

6" Valve Only

Inspecting and Replacing Main Valve Diaphragms, Seat, and Head Assembly (Refer to Fig. 7)

Diaphragms

- Unscrew copper tubing connections (G) to lower diaphragm chamber.
- Remove main valve diaphragm bolts (1C) and drop lower diaphragm case.
- The 2 metal diaphragms (1H) should be inspected and replaced if they have become distorted or fractured.
- 4. Clean any accumulation of dirt from the diaphragm case and ori-

Valve Sizes 1/2" thru 4"

Inspecting and Replacing Main Valve Diaphragms (Refer to Figs. 3, 4 and 5).

- 1. Unscrew copper tubing connection at (G).
- 2. Remove main valve diaphragm bolts (1C).
- 3. This will allow the lower diaphragm case to be removed.
- 4. The 2 metal diaphragms (1H) should be inspected to insure that they have not become distorted or possibly fractured as a result of abnormal operating conditions.
- 5. At the same time, any accumulation of dirt or foreign material should be removed from the diaphragm case.
- The valve stem (1F) should also be checked to make sure it is free to move and that there is no scale or foreign material lodged in the guide bushing.
- 7. Before reassembling diaphragms in 1/2" thru 4" sizes, main valve head must be in place and held in a closed position with the return spring and main valve cover.
- 8. Make certain pressure plate (1G) is set properly. (Refer to Fig. 4).
- 9. Care should be taken in centering the diaphragms properly and equalizing bolt take-up uniformly.

For any additional information you may require, contact: Spirax Sarco Applications Engineering Department Toll Free 1-800-833-3246



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