

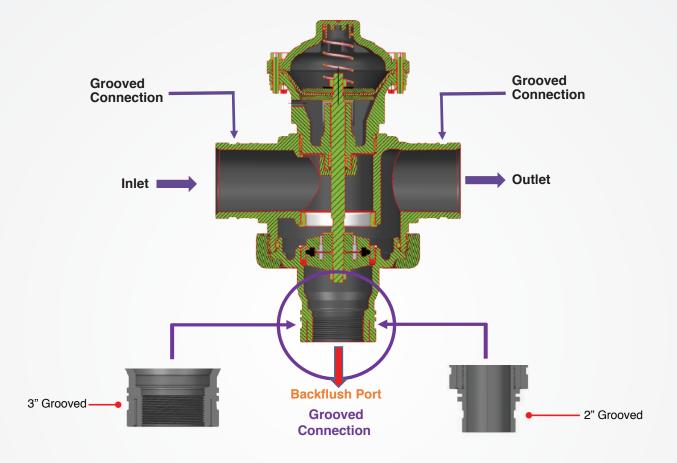


FOR CORRECT AIR & WATER CONTROL

Installation, Operation and Maintenance Manual



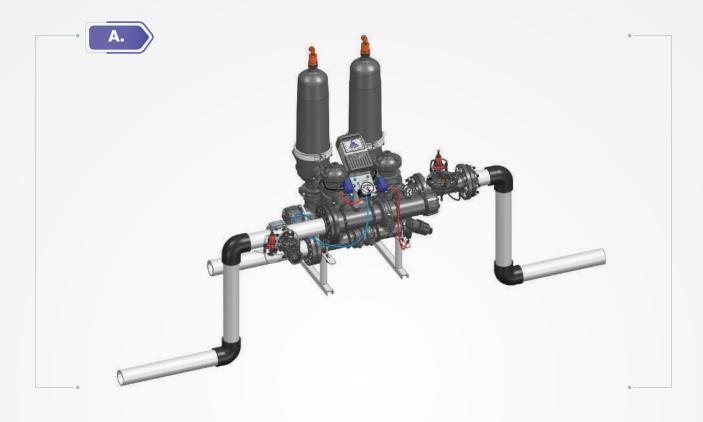
AVAILABLE CONNECTION

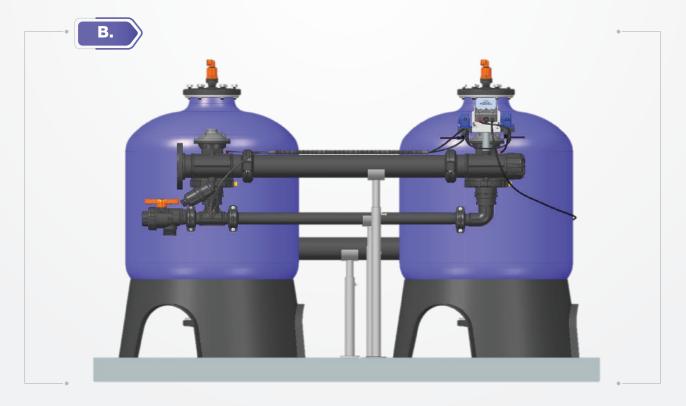


Specification	Connection Size	Connection Type
Inlet/Outlet Connections	3'' (80 mm)	Grooved
Drain Port	2'' (50 mm)	Grooved
	3'' (80 mm)	Grooved



TYPICAL INSTALLATION







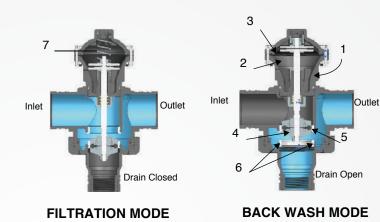
OPERATION

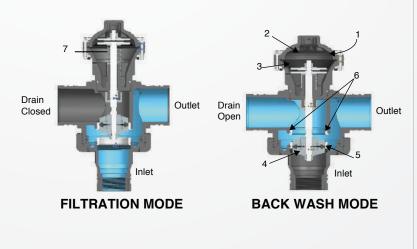
Straight Flow

A hydraulic command from the solenoid allows water to come in from control tubing [1], which pressurizes the Lower Control Chamber [2], forces the Diaphragm [3] actuated Plug Assembly [4] to move up towards the upper seat [5], sealing the upper valve chamber drip tight. This allows water flow from the filter through the Drain Port. Venting the Lower control chamber (2) causes the line pressure, together with the Spring [7] force, to move the valve back to lower seat (6) brings to filtration mode.

Angle Flow

A hydraulic command from the solenoid allows water to come in from control tubing[1], which pressurizes the Upper Control Chamber [2], forces the Diaphragm [3] actuated Plug Assembly [4] to move down towards the lower seat [5], sealing it drip tight. This allows water flow from the filter through the Drain Port [6]. Venting the upper control chamber causes the line pressure, together with the Spring [7] force, to move the Valve back to upper seat, brings to filtration mode.







MAINTENANCE

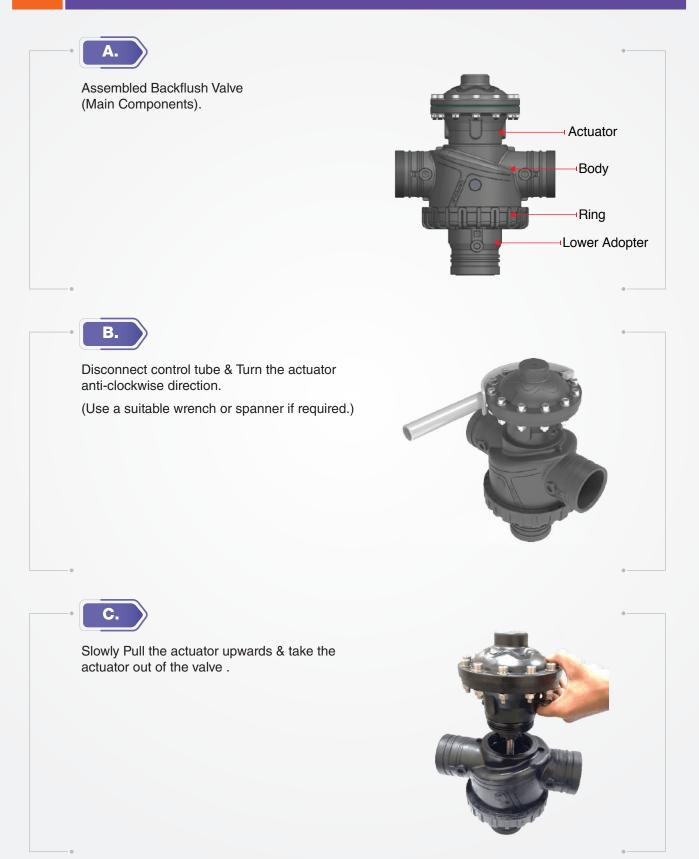
General Safety Instructions

- 1. Installation, operation, and maintenance should be performed in accordance with instructions described in this manual.
- 2. The valve have to be checked on regular basis.
- 3. Do not perform any maintenance work or try to open backwash parts when the valve is in pressurized condition.



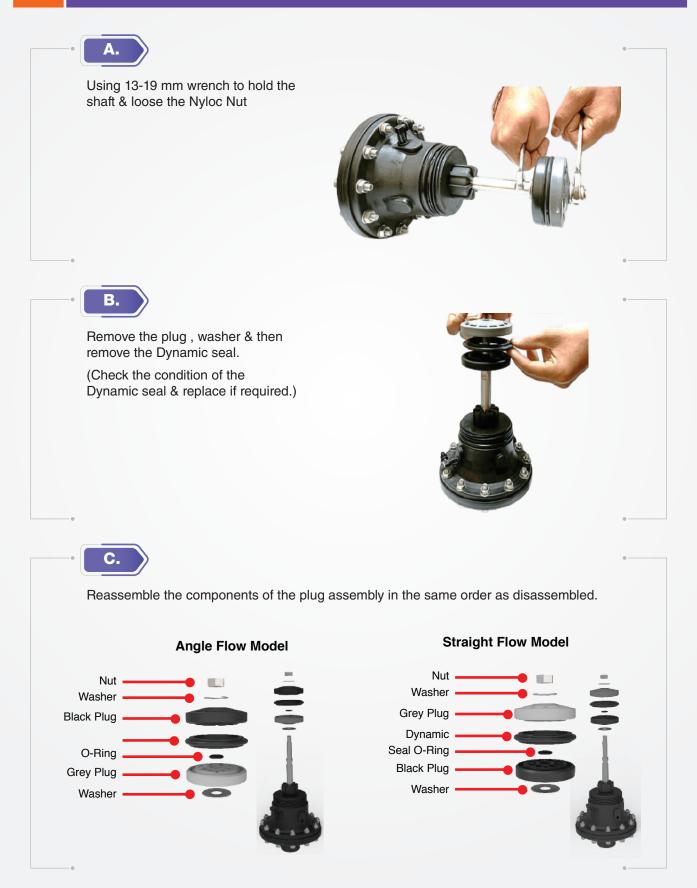


DISASSEMBLING THE ACTUATOR FROM THE VALVE

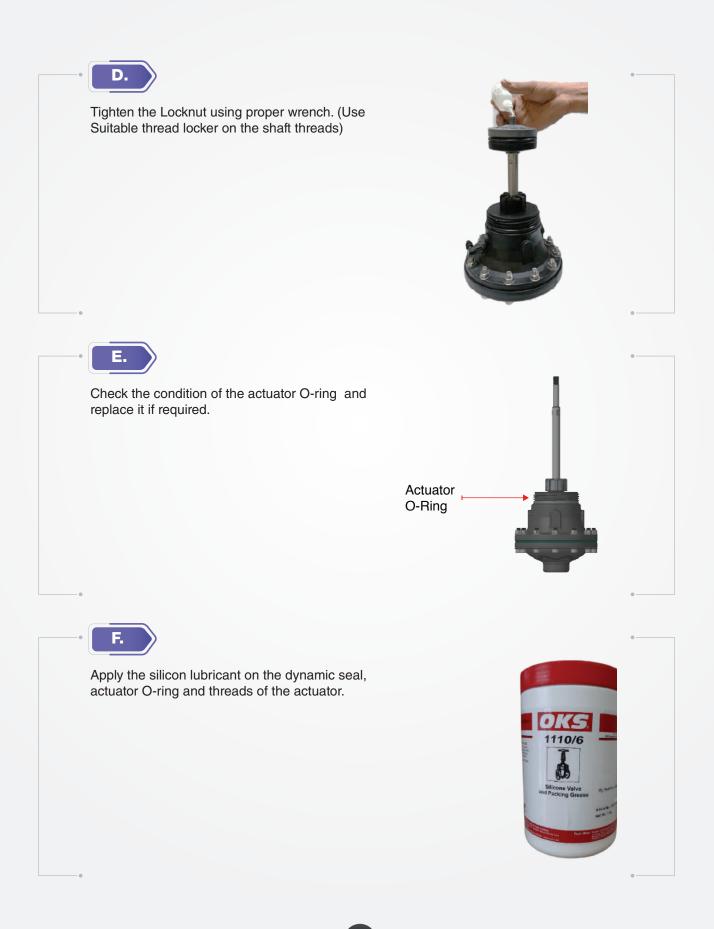














REPLACING THE DIAPHRAGM

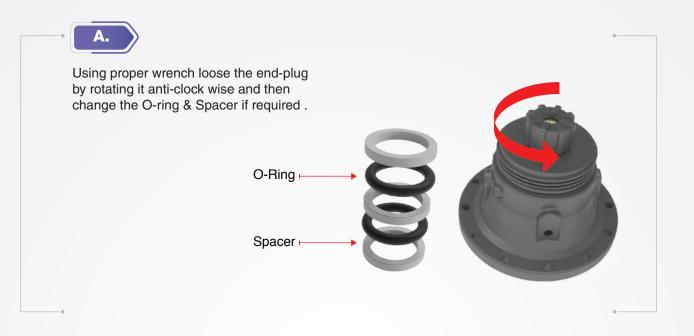








REPLACING THE SHAFT SEALS & SPACERS





4

Use the silicon lubricant while replacing the seals.







5 REPLACING THE VALVE SEATS



Open the Valve Seats from Body & Lower Adopter with the help of suitable spanner by rotation it in anti clock wise direction to open seats.









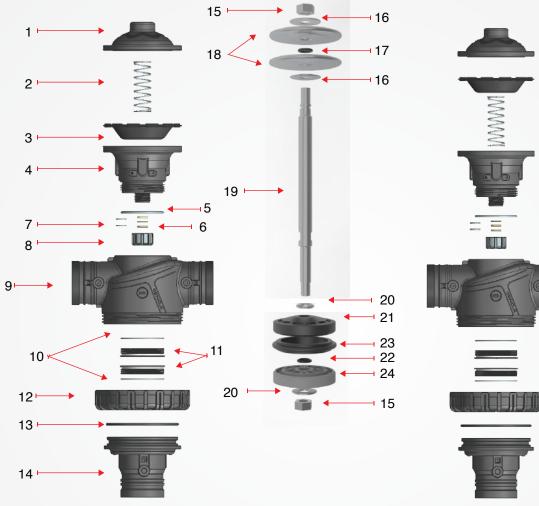
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6 EXPLODED VIEW

STRAIGHT FLOW



ANGLE FLOW

Note: For Angle Flow Mode

The position of Spring will be below the Diaphragm (As shown in Figure). The position of Upper and Lower Plug will be interchanged 21 to 24.



7 PART DESCRIPTION

S.No.	Part Name	Part No.	Qty.
1	Cover Black/Grey	12500120/ 12500121	1
2	Spring	50102591	1
3	Diaphragm	50030068	1
4	Actuator	12500119	1
5	Actuator O-Ring	50010170	1
6	Spacer	50102590	3
7	Shaft O-Ring	50010067	2
8	End Cap	12530053	1
9	Body	12500116	1
10	Valve Seat O-Ring	50102583	2
11	Valve Seat	50102584	2
12	Cover Ring	12500117	1
13	Lower Adopter O-Ring	50102589	1
14	Lower Adopter	12500118	1
15	M12 Nyloc Nut	50060062	2

S.No.	Part Name	Part No.	Qty.
16	Flat Washer M12 (13x29.5mm)	50103015	2
17	Diaphragm O-Ring (8.3x17.3 mm)	50010100	1
18	Diaphragm Support	50102585	2
19	Drive Shaft	50102587	1
20	Flat Washer M12 (13x25 mm)	50102592	2
21	Black Plug	12500142	1
22	Plug O-Ring (9.6 x 15 mm)	50010005	1
23	Dynamic Seal	50102588	1
24	Grey Plug	12500143	1
25	Allen Bolt (M8*35)	55010180	12
26	M8 Washer	50060136	24
27	M8 Nut	50060133	12



8 TOOLS REQUIRED

