

CHEMLINE 710 DIAPHRAGM VALVES

Data Page









pneumatically actuated

SERIES: Type 710 3/8", 1/2" SIZES:

ENDS: True Union Socket, Threaded or ChemFlare™1

Spigot² bodies with Plain, Socket, Threaded

or Flanged ends

EPDM³, FKM-B (Viton®) or PTFE DIAPHRAGMS:

CONTROL FUNTIONS: Normally Closed

Normally Open Double Acting



The Chemline Type 710 Pneumatically Actuated Diaphragm Valve features a plastic piston actuator designed for long cycling life and corrosion resistance. Compared to a 1/2" pneumatically actuated ball valve it is a fraction of the size and cost.

Type 710 is part of the 700 Series of diaphragm valves featuring modular construction which minimizes spare parts requirements. Being a diaphragm valve, it is suitable for sanitary or slurry applications. With a PTFE diaphragm, it has corrosion resistance superior to a ball valve.

features

Pressure rated to 90 psi

• 90 psi at 20°C for all materials

Long Cycling Life

• Valves normally operate well over one million cycles maintenance free⁴

Solid Plastic Body & Actuator

- High strength "Ixef" plastic actuator
- Lightweight
- Corrosion Resistant

Epoxy Coated Spring Steel Springs

• Spring steel springs have longer life and are stronger than stainless steel springs. Epoxy coating resists corrosive environments.

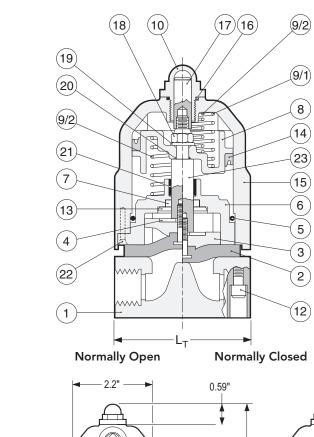
Safety Spring Cartridge

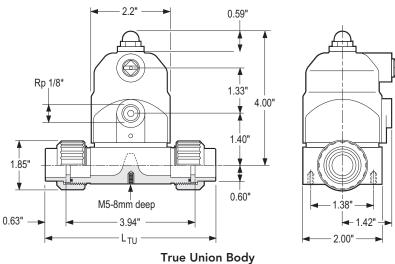
- · Contained spring set allows for safe removal of actuator
- Spring cartridge may be easily reversed to change between Normally Closed and Normally Open functions

Direct Mount Accessories

 Accessories (travel stop, position indicator, manual override, limit switch box) thread into the top of the actuator and are easily installed in the field







* Air connections for all control functions are Rp 1/8 (BSP 1/8") as standard. Rp 1/4 is available as an option. **Air consumption** for all sizes is 1.65 cubic inches.

ORDERING EXAMPLE

ORDERING EXCENT EE							
Chemline Diaphragm Valves		710	NC	005	Α	Е	U
Control Function	NC – Normally Closed NO – Normally Open DA – Double Acting		•				
Size	003 – 3/8"			•			
Body Material					VDF		
Diaphragm	E – EPDM V – FKM-B (V	B − Ni iton®) P − P7				•	
Ends	Blank – Spigo CFx – ChemF		Г – Threaded	U –	Union	Sock	et

Example: Chemline Type 710 Pneumatically Actuated Diaphragm Valve.

Normally Closed, 1/2" diameter, PVC body, EPDM diaphragm, socket union ends.

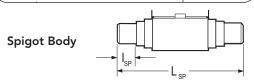
x = 4 for 1/4", 6 for 3/8", 8 for 1/2" ID tube connections.

PARTS

No.	Part	Pcs.	Materials
1	Body	1	PVC, CPVC, PP, PVDF
2	Diaphragm	1	EPDM, FKM-B (Viton®), PTFE
3	Compressor	1	PBTP ¹
4	Thrust Ring	1	Cad. Plated Steel
5	O-Ring	1	Nitrile
6	Guide	1	lxef ²
7	Quad Ring	1	Nitrile
8	Piston	1	lxef ²
9x	Spring	1	Epoxy Coated Spring Steel
10	Indicator Cover	1	Polycarbonate
12	Socket Head Bolt	4	304 SS
13	Circle Clip	1	Brass
14	Lip Ring	1	Nitrile
15	Actuator Housing	1	lxef ²
16	O-Ring	1	Nitrile
17	Position Indicator	1	Polypropylene
18	Lock Nut	1	Cad. Plated Steel
19	Washer	1	Cad. Plated Steel
20	O-Ring	1	Nitrile
21	Shaft Bearing	1	Carbon/PTFE ³
22	Bolt Inserts	2	Steel
23	Stem	1	304 SS

DIMENSIONS INCHES Cv VALUES

Size	Union Soc L _{TU}	Spig L _{SP}	Thd L _T	USGPM at 1 psi △P
3/8"	5.12	4.88	2.91	3.3
1/2"	5.12	4.88	2.91	4.1



MINIMUM CONTROL PRESSURES⁴

Min. Required Control Pressure				
Normally Closed	Normally Open			
62	32			
60	35			
57	38			
56	41			
53	44			
51	47			
48	50			
	62 60 57 56 53 51			

⁴Air or clean water are acceptable control media.

ACCESSORIES

- Travel Stop/Position Indicator
- Travel Stop/Position Indicator/Manual Override
- Solenoid Valve Limit Switches

¹PBTB = Polybutylene Terephthalate ²Ixef = Polyarilamide ³25% carbon filled PTFE