Type 710 Diaphragm Valves

$\left(\right)$						
	PVC	CPVC F	PP			
	pne	umatical	ly actuated			
	SERIES:	Type 710				
	SIZES:	3/8", 1/2"				
	ENDS:	Spigot ² bo	rue Union Socket, Threaded or ChemFlare™ bigot² bodies with Plain, Socket, Threaded r Flanged ends			
	DIAPHR	AGMS:	EPDM ³ , FKM-B (Viton®) or PTFE			
	CONTRO	DL 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

 \cdot Valves normally operate well over one million cycles maintenance free^4

Solid Plastic Body & Actuator

- High strength "Ixef"⁵ 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

True Union Body

¹ For ChemFlare™ end connectors, consult Chemline.

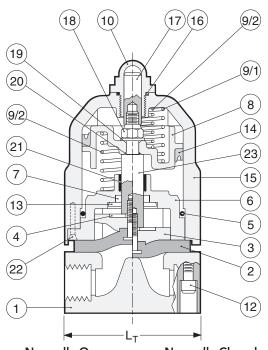
² PP and PVDF spigot ends have metric dimensions and will butt fuse directly to Chemline PP and PVDF piping systems. PVC spigots are ANSI.

³ Epoxy cured EPDM

⁴ With EPDM or FKM-B (Viton®) diaphragm.

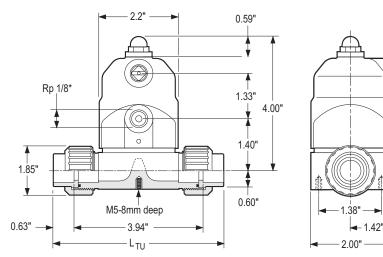
⁵ "Ixef" = Polyarilamide

Type 710 Diaphragm Valves



Normally Open

Normally Closed



True Union Body

* 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

Chemline Diap	hragm Valves	710	NC	005	Α	Е	ι
Control Function	NC – Normally Closed NO– Normally Open DA – Double Acting						
Size	003 – 3/8″	005 – 1/2″					
Body Material	A – PVC	B – PP	C – CPVC	K – F	PVDF		
Diaphragm E – EPDM B – Nitrile V – FKM-B (Viton®) P – PTFE							
Ends	Blank – Spig CFx – ChemF		– Threaded	U –	Union	Socke	ət

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

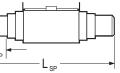
PARIS					
No.	Part	Pcs.	Materials		
1	Body	1	PVC, CPVC, PP, PVDF		
2	Diaphragm	1	EPDM, FKM-B (Viton®), PTFE		
3	Compressor	1	PBTP ¹		
4	Thrust Ring	1	Cad. Plated Steel		
5	O-Ring	1	Nitrile		
6	Guide	1	lxef ²		
7	Quad Ring	1	Nitrile		
8	Piston	1	lxef ²		
9x	Spring	1	Epoxy Coated Spring Steel		
10	Indicator 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		

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

DIMEN	ISIONS INC	Cv VALUES		
ſ	Union Soc	Spig		
Size	L _{τυ}	L_{SP}	LT	1 psi ∆P
3/8″	5.12	4.88	2.91	3.3
1/2″	5.12	4.88	2.91	4.1

Spigot Body

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MINIMUM CONTROL PRESSURES⁴ PSI

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

⁴Air or clean water are acceptable control media.

ACCESSORIES

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



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