

DIAPHRAGM OPERATED VALVES



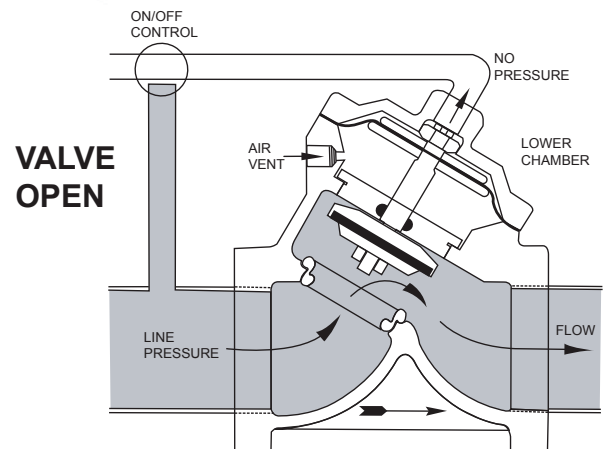
The Y-pattern diaphragm valve, with large seat opening and high lift disc, permits greater flows at lower pressure loss than any comparable valve. Positive control action is achieved, either hydraulically or pneumatically without the aid of springs. Components are serviceable while the valve is in line. These valves are available in both metallic and thermoplastic materials and are ideal for water treatment equipment such as water softeners and media filters.

FEATURES

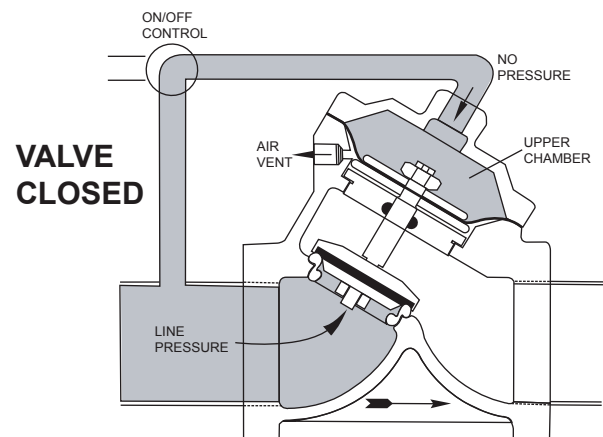
- Durable & Cost effective
- Extended diaphragm life
- Low pressure loss through valve
- Large opening, high lift disc gives high flow rates
- Positive closing and opening
- Hydraulic or pneumatic operation
- Diaphragm replaceable without interruption of flow
- Adaptable to many control devices

OPTIONS

- Flow Limit Stops
- Spring-Assist. Open
- Spring-Assist. Closed
- Normally Closed
- Position Indication



Full Open Operation When closing pressure, in upper chamber, is relieved by venting the pilot line, the valve opens, positively, by line pressure on the disc.



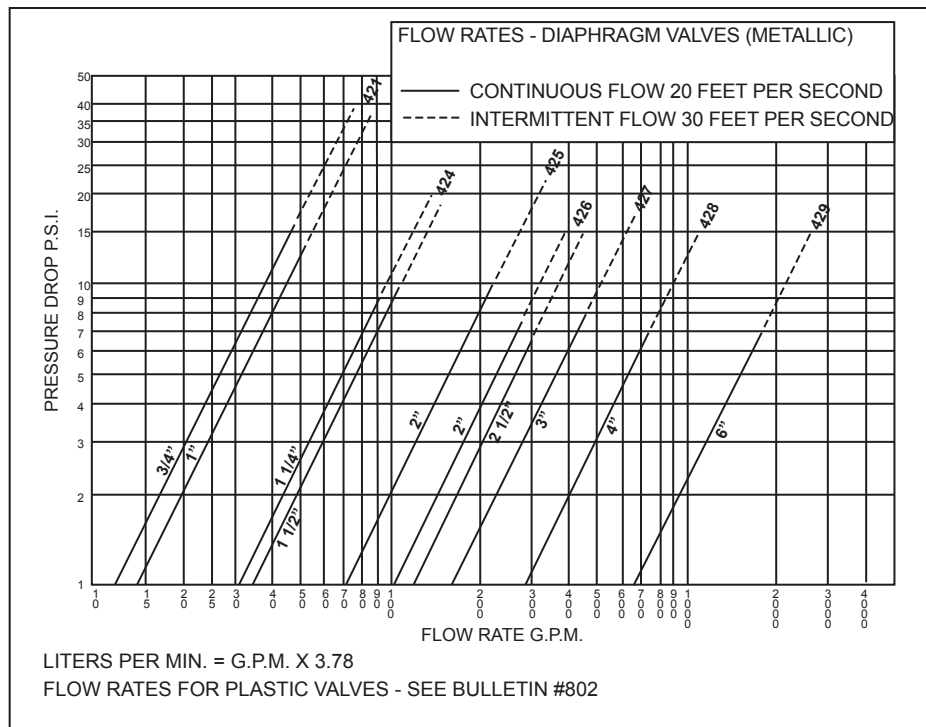
Drip-Tight Closing Closure is obtained by directing line pressure or equivalent independent pressure into the upper chamber. This pressure on the large diaphragm area causes the valve

FLOW RATES

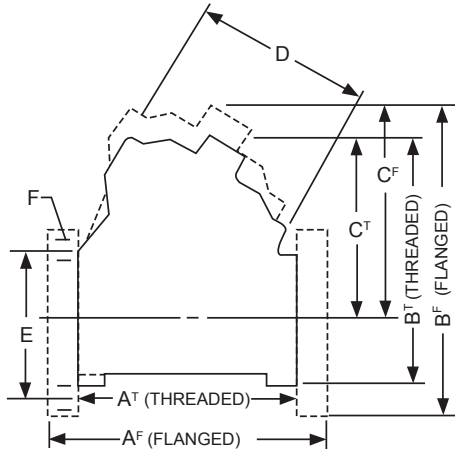
Y-pattern design, large seat opening and high-lift diaphragm produce excellent flow characteristics. There are no springs and related parts to consume space or restrict flow.

The diaphragm is shape-formed of Buna N on Nylon to assure long life. It can be replaced without stopping flow, and all parts can be serviced with the valve in line. Valves are available with cast iron and brass. Maximum operating pressure: 125 psi (860 kPa); Minimum operating pressure: 7 psi (48 kPa); Maximum temperature: 300° F. (148° C).

For versatility of application, valves are available to be either opened or closed by pilot pressure.



DIMENSIONS



Size	Ends	Series	A ^T	A ^F	B ^T	B ^F	C ^T	C ^F	D	E	F
¾-1	THRD	421	In.	3 ¹ / ₁₆	4 ¹ / ₄	3 ³ / ₄	2 ³ / ₄				
			mm.	94	108	82	70				
1¼-1½	THRD	424	In.	4 ³ / ₄	5 ³ / ₈	4	3 ¹ / ₂				
			mm.	120	136	101	89				
2	THRD	425	In.	6.62	7.25	5.376	4.875				
			mm.	168	184	136	123				
2-2½	THRD	426	In.	7 ³ / ₈	8	5 ³ / ₄	6 ¹ / ₈				
			mm.	187	203	146	155				
3-S	THRD	427-S	In.	9	9 ³ / ₄	6 ³ / ₄	7 ¹ / ₄				
			mm.	228	247	171	184				
3-F	FLGD	427-F	In.	10 ⁵ / ₈	10 ³ / ₄	7	7 ¹ / ₄	6	¾		
			mm.	270	273	178	184	160	18		
4-F	FLGD	428-F	In.	11 ³ / ₄	14 ³ / ₄	10	8 ³ / ₄	7 ¹ / ₂	¾		
			mm.	298	375	254	222	180	18		
6-F	FLGD	429-F	In.	17	19	13 ¹ / ₂	15 ³ / ₄	9 ¹ / ₂	7 ¹ / ₈		
			mm.	431	482	343	402	240	20		

SPECIFICATIONS

Sizes: ¾"-3" Threaded / 3"-6" Flanged

Class: 125 Pound

Pressure: 125 PSI recommended Working Pressure (860 kPa).

Temperature: Water-Air – Standard 32°F–150°F (0°C–65°C) High Temperature 150°F–300°F (65°C–148°C)

Materials: Body & Cap – Cast Iron or Bronze (consult factory for thermoplastic valves)

Trim – Bronze with Stainless Steel Shaft

Diaphragm – Standard: Buna N / Nylon

High Temperature: EPDM/Nomex

Seals – Standard

Static: Buna N

Dynamic: Buna N

High Temperature

EPDM

EPDM



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