

Innovative Ideas from Engineered Valves

Dia-Flo®

PFA Lined Dia-Flo®

ITT Industries, Engineered Valves, under the Dia-Flo® trademark, recently announced the release of a PFA liner material for its weir style diaphragm valve. The new PFA liner is a fluoropolymer material capable of handling more aggressive chemicals and higher temperatures than its current fluoropolymer lined offerings. Temperature capabilities have now been elevated to 350 ° F from the previous 300 ° F. Using the Line-Lok® feature exclusive to Dia-Flo, the new liner is molded into the ductile iron valve body. Even in the most demanding thermal cycling applications, the Line-Lok feature prevents liner flexing over the weir, which reduces the potential for liner cracking. A minimum 3mm thick PFA liner throughout the body helps to protect against permeating chemicals. A modified PTFE diaphragm (TM) is also available which provides for longer flex life and less permeation than standard PTFE diaphragms. The new PFA liner coupled with a TM diaphragm offer the best in corrosion resistance for the most demanding applications.

Features & Benefits

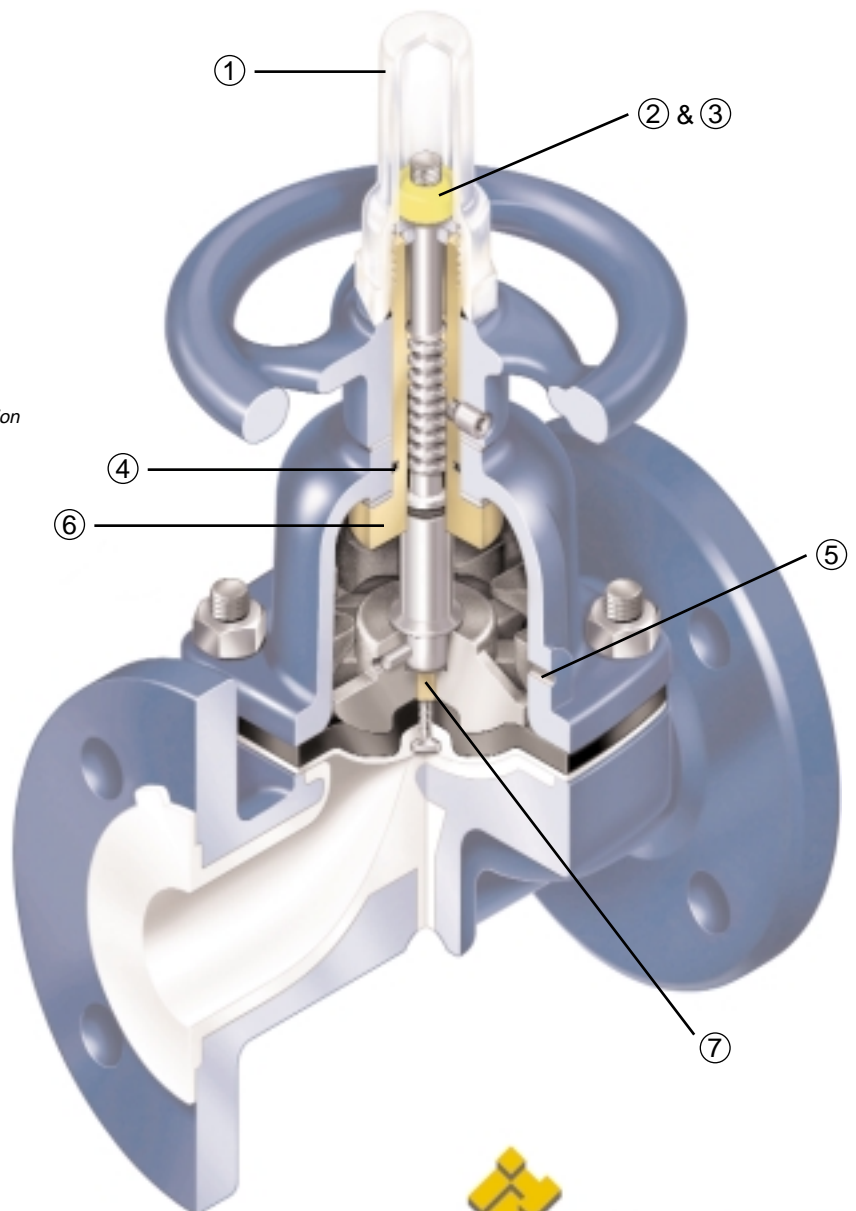
- Protective Cap ①
Protects the bonnet internals from atmospheric conditions
- Adjustable Travel Stop ②
Prevents over closure and subsequent downstream leakage
- Yellow Position Indicator ③
Provides visual indication of valve position
- O-Ring Sealed Bonnet ④
Protects threaded stem resulting in long term smooth operation
- Weep Hole ⑤
Serves as leak detection port
- Bronze Bushing ⑥
Reduces turning torque and prevents galling
- Floating Tube Nut ⑦
Enhances diaphragm life by preventing point loading

Sizes

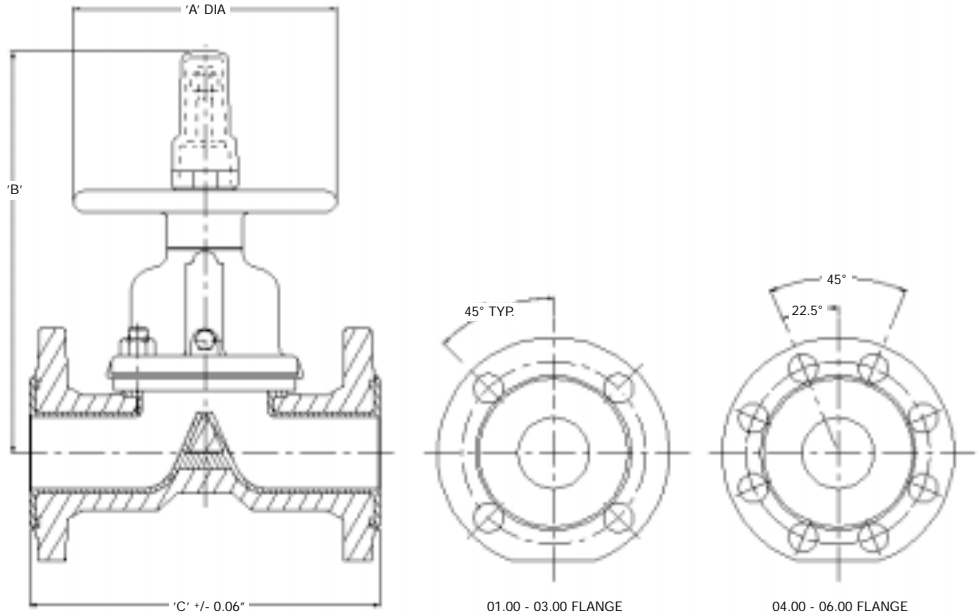
- 1"-6" in ductile iron
ASTM A395 body with 150# flanges

Options

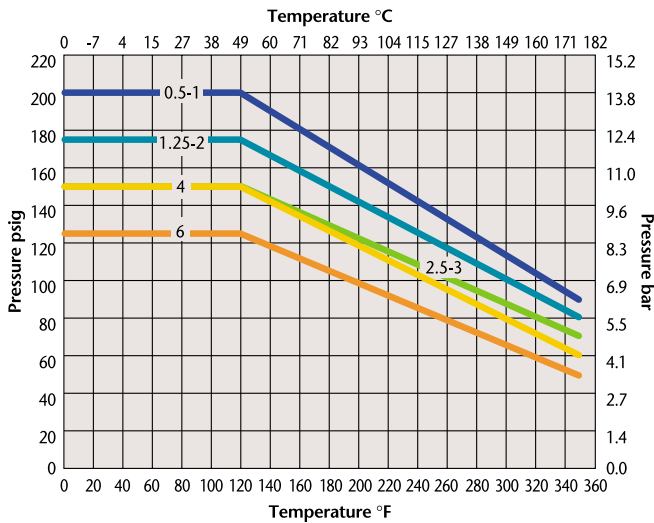
- Actuation
- Locking device
- Epoxy coating
- High alloy bolting



Valve Size	A	B	C
1"	3.00"	6.16"	5.81"
mm	76.20	156.50	147.60
1.5"	6.00"	9.15"	6.89"
mm	152.40	232.40	175.00
2"	6.00"	9.36"	7.87"
mm	152.40	237.70	199.90
3"	7.75"	12.29"	10.24"
mm	196.90	312.20	260.10
4"	10.00"	15.37"	12.87"
mm	254.00	390.40	326.90
6"	14.5"	20.44"	16.38"
mm	368.30	519.20	416.10



PT Curve



C_v Values

% open	Flanged End - PFA Lined			
	1"	1.5"	2"	3"
10	1.0	3.1	9	19
20	1.4	11	25	53
30	2.7	20	47	91
40	4.7	28	47	125
50	7.3	27	52	113
60	10	29	56	124
70	11	30	60	134
80	11	32	60	141
90	11	33	60	147
100	12	34	61	150

Engineered Valves

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