



Pneumatic Diaphragm Valve

6827M (IC)



Reference Standard

Design Standard	ASME BPE
Testing Standard	EN :12266-1
Surface Finish	ASME BPE SF:2.4 -1
Conformity Standard	EN :10204

Top Work

Pneumatic Actuator	Spring Return type
Body	Glass filled Polyamide
Visual Indicator	Open/Close
Act. Working Signal Pressure	3.5 to 6 bar

Elastomer/Polymer

Diaphragm Compliance	USP CLASS VI Biological Reactivity
	Test In Vitro and In Vivo
	US FDA CFR177.2600 (EPDM)
	US FDA CFR177.1550 (PTFE)

Valve Construction

Valve Body	ASTM A351CF3M (SS-316L)
Body Pressure Rating	16Bars
Surface Finish	Internal : 0.2 to 0.4 Ra; External : 0.8Ra
End Connections	Spigot as per BS 4825 /ASME BPE

Process Parameters

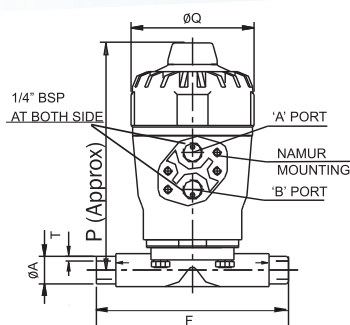
Service	Air/Water/Steam/Slightly aggressive fluid
Working Temperature	For EPDM : (-) 10° C to 90° C for liquid upto 120° C for Steam
	For PTFE : (-) 10° C to 155° C
Working Pressure	10 Bar

Key Features

- ASME BPE Complaint design
- Non-Magnetic Design
- SIP 500 rated life Durability
- Non raising design
- Excellent drainability
- Stroke Restrictor
- Traceability documents

Applications

- CIP/SIP skids
- PW & WFI skids
- Water distribution & generation
- Bio reactors/Fermenters
- Chromatography skids
- Process distribution



Valve Model No.		Actuator (Normally Close)	Size		Flow Kv	Pressure	Drain Angle	Weight	Dimensions					
EPDM	PTFE/EPDM		INCH	MM	M ₃ Hr	Kg/cm ²	°	Kgs	A	F	P	Q	T	
6827M166/E/SP	6827M166/TE/SP	K-52	1/2"	15	3.5	10.0	20°	0.7	12.7	112	124	63.5	1.65	
6827M216/E/SP	6827M216/TE/SP	K-62	3/4"	20	5.0	10.0	21.5°	1.2	19.05	117	150	80	1.65	
6827M266/E/SP	6827M266/TE/SP	K-62	1"	25	12.5	10.0	21.5°	1.3	25.4	127	150	80	1.65	
6827M416/E/SP	6827M416/TE/SP	K-102	1 1/2"	40	36.0	10.0	25°	5	38.1	146	240	131	1.65	
6827M516/E/SP	6827M516/TE/SP	K-122	2"	50	42.0	10.0	30°	7.3	50.4	159	282	161	1.65	
6827M666/E/SP	6827M666/TE/SP	K-123	2 1/2"	65	53.0	6.0	31.5°	8.1	63.5	190	300	161	1.65	
6827M816/E/SP	6827M816/TE/SP	CY-130	3"	80	62.0	6.0	31.0°	9.9	90.9	270	375	180	1.65	

Note : In case of Normally Open Actuator, please read Model no. as 6828 in place of 6827. Contact AVCON for 4" size Valves

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