



Pneumatic Diaphragm Valve

6827M (IC)



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

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

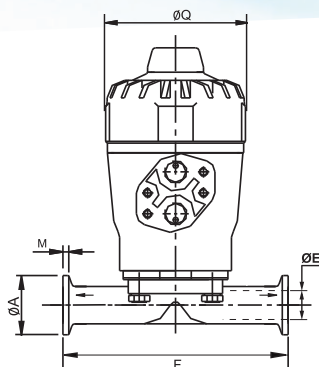
Diaphragm Compliance USP CLASS VI Biological Reactivity
Test In Vitro and In Vivo
US FDA CFR177.2600 (EPDM)
US FDA CFR177.1550 (PTFE)

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 Triclamp (TC) 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



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	E	F	M	Q
6827M167/E/TC	6827M167/TE/TC	K-52	1/2"	15	3.5	10.0	20°	0.7	25	9.4	112	2.85	63.5
6827M217/E/TC	6827M217/TE/TC	K-62	3/4"	20	5.0	10.0	21.5°	1.2	50.5	15.8	117	2.85	80
6827M267/E/TC	6827M267/TE/TC	K-62	1"	25	12.5	10.0	21.5°	1.3	50.5	22.1	127	2.85	80
6827M417/E/TC	6827M417/TE/TC	K-102	1 1/2"	40	36.0	10.0	25°	5	50.5	34.8	146	2.85	131
6827M517/E/TC	6827M517/TE/TC	K-122	2"	50	42.0	10.0	30°	7.3	63.9	47.5	159	2.85	161
6827M667/E/TC	6827M667/TE/TC	K-123	2 1/2"	65	53.0	6.0	31.5°	8.1	77.4	60.2	190	2.85	161
6827M817/E/TC	6827M817/TE/TC	CY-130	3"	80	62.0	6.0	31.0°	9.9	90.9	68.9	270	2.85	180

**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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