

Silicone diaphragms

Silicone and Silicone Plus diaphragms

Features and benefits

- All Silicone diaphragms are laser-etched with cure dates and batch numbers, ensuring that they are completely traceable
- Widely used in pharmaceutical applications



Silicone diaphragms performance

Flow Coefficient (under standard configuration)		
Tank Valve Size	C _v	K _v
0.5"	4.3	3.7
1.0"	15.8	13.7
1.5"	48.0	41.5
2.0"	72.0	62.2
3.0"	170.0	146.9
4.0"	302.0	260.9

Technical specifications

	Silicone diaphragms
Tank valve sizes	0.5", 0.5" Extended, 1.0", 1.5", 2.0", 2.0" Extended, 3.0", 3.0" Extended, 4.0"
Inline valve sizes	0.5", 0.75", 1.0", 1.5"
Colour	White/Clear
Diaphragm variant(s)	Bellows, Straight
Parylene treatment	Yes
Operating temperature	-65 °C to 135 °C (-85 °F to 275 °F)
Compatible actuators	AJS, AKS
Compatible valves	Radial, Weirless
Actuator type	Manual, Pneumatic
Curing agent	Platinum
Steaming required prior to installation	No
ASME BPE appendix K SIP cycle rating	100
Total actuations during SIP cycle testing	1000
Shelf life	5 years
Material specification	Medical grade (platinum cured)
Standards	ASME BPE, RoHS
Certification and compliance	ADCF, BSE/TSE free, FDA 21CFR177.2600, USP <87>, USP <88> Class VI

Max. operating pressure varies by size up to maximum indicated

Materials of construction

	Silicone diaphragms
Diaphragm	DuPont Q7-4765, Nusil MED-4065
Inserts	304 SS

Product codes

Code	Product
FS05	Weirless diaphragm .5" Compact Silicone White
IS08	Weirless diaphragm .75" Silicone White
IS10	Weirless diaphragm 1" Silicone White
IS15	Weirless diaphragm 1.5" Silicone White
RS05	Radial diaphragm .5" Silicone White
SC05	Radial diaphragm .5" Silicone Clear
SC10	Radial diaphragm 1" Silicone Clear
SE17	Radial diaphragm extended 1.5" Silicone White
SE20	Radial diaphragm extended 2" Silicone White USP
SE30	Radial diaphragm extended 3" Silicone White USP
SG05	Radial diaphragm extended .5" Silicone White
SL05	Radial diaphragm .5" Silicone White Straight
SL10	Radial diaphragm 1" Silicone White Bellows
SL17	Radial diaphragm 1.5" Silicone White Straight
SL20	Radial diaphragm 2" Silicone White Bellows
SL20-002	Radial diaphragm 2" Silicone White Straight
SL30	Radial diaphragm 3" Silicone White Straight
SL40	Radial diaphragm 4" Silicone White Straight

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