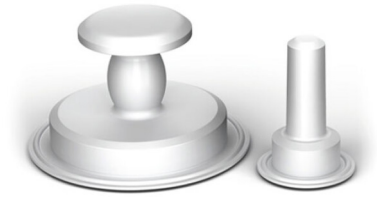


# Silicone diaphragms

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



## Performance

| Flow Coefficient (under standard configuration) |                |                |
|---|----------------|----------------|
| Tank Valve Size                                 | C <sub>v</sub> | K <sub>v</sub> |
| 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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