



Product Information Sheet

**SupraValve®- HP
X3191000**

Last Revision: Jan 2015

Product Family Description

Product Description



This SupraValve®- HP high pressure check valve is designed for medical applications and features a miniature umbrella made of our proprietary silicone compound selected to meet USP Class VI requirements. The body is constructed of clear polycarbonate. The SupraValve®- HP has been designed to significantly reduce fluid flow turbulence. Custom solutions can be developed with various opening pressures.

Materials of Construction

| | | | | |
|---------------------------------------|------------------------------|--|----------------------|---------------------|
| Checkvalve Used: | Product Number | X3182800 | Product Group | Umbrella |
| Housing Used: | Cap Material | Clear Polycarbonate | Body material | Clear Polycarbonate |
| BioCompatibility: | USP Class VI | Yes | | |
| | 21 CFR 177.2600 | The ingredients in this compound have been selected to comply with this FDA regulation. Finished articles have not been tested. | | |
| | Biological Toxicity | not tested | | |
| | Latex & DEHP Free | Yes | | |
| Sterilization Compatibility: | Gamma Irradiation | Yes | | |
| | EtO Sterilization | Yes | | |
| | Steam Autoclave | Assembly may be steam autoclaved, but is not suitable for repeated high temperature sterilization associated with re-usable devices. | | |
| Industry Standard Conformance: | JIS-T3211 | Information available upon request | | |
| | ISO 8536-12 | Information available upon request | | |

Design Characteristics

| | | | | |
|------------------------------------|-------------------------------|--|----------------------|------------------------|
| Valve Used: | Product Number | X3182800 | Durometer | 40 Shore A |
| | Color | Translucent or Blue | Material Type | Silicone |
| Fitments: | Cap Type | Female Inlet, Leur Lock | Body Type | Male Outlet, Fixed Nut |
| | Tube Fit | Luer ISO594 connection | Tube Fit | Luer ISO594 connection |
| Additional Characteristics: | I.D. Tubing Compatible | Not to be connected with press-fit tubing. | | |
| | Position Sensitivity | None | | |
| | Operating Conditions | This assembly can be used in continuous service temperatures up to 100°C (212°F) | | |
| | Component Assembly | Ultrasonically welded | | |

Contact

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Performance Characteristics

| | |
|----------------------------------|---|
| Reverse Leakage | Less than 1 ml/minute maximum leakage from 0 to 4200mbar reverse pressure when tested using air as fluid media. |
| Forward Flow | Greater than 2500 ml/min at 350mbar when tested using air as fluid media. Greater than 100 ml/min at 350mbar when tested using water as fluid media. |
| Average Opening Pressure* | Using a flow threshold @ 1cc/min in air as fluid media, the average Opening Pressure was 64mbar with a range of 55 - 80mbar. |

* Note: Samples tested under laboratory conditions in water with less than 10 pieces for preliminary data set. Further testing is required by the customer based on each customers unique application needs.

Product Warranty Disclaimer

DISCLAIMER: Functional performance is measured under laboratory conditions according to Vernay Test Protocols and relates only to the samples tested. Vernay recommends validating fitness for use of the selected parts in their specific application. The test data in this document are not for specification purpose. Media resistance and service temperature range are indicative. Please contact Vernay for specific media and temperature exposures. This is provided for general information purposes only. It is accurate and correct to the best of Vernay's belief; however, Vernay disclaims any warranties, expressed or implied, as to this information and assumes no obligation or liability therefore. Much of this information is proprietary to Vernay and by providing this information Vernay does not waive or release any patent, copyright, or other proprietary right it may own in this information.

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