Furon® NVX Valves
Pneumatic Actuated, 2-Way & 3-Way

Features/Benefits
• 100% virgin PTFE construction reduces potential for contamination
• Fully swept flow path with minimum entrapment
• High forward and back pressure rating provides flexibility in system design
• Secondary containment diaphragm to the air system
• No exposed metallics
• Small footprint
• Assembled and doublebagged in class 100 clean room
• Easy to maintain
• Leak detection capability
• Patent pending on 3-way high-pressure low dead volume design

Operation
• Pneumatically operated process control valve used as on/off control
• Designed for critical fluid/gas handling in a variety of applications
• 100 PSIG (689 kPa) pressure capability forward and back pressure
• Available in NO and NC configuration (2-way version)

Applications
• Semiconductor manufacturing, Biomedical research, and Chemical Process industries
• Specifically developed to handle high-pressure ultrapure liquids and corrosive chemicals
• Ideal for applications that demand high flow, high pressure, and compact size
Furon® NVX Valve
Pneumatic Actuated, 2-Way & 3-Way Valves

Ordering Information

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>END CONNECTION</th>
<th>ORIFICE</th>
<th>PORT SIZE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>ØD</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<td>NVX2-144-NC</td>
<td>FNPT</td>
<td>1/4&quot;</td>
<td>1/4&quot;</td>
<td>2.36 (59.94mm)</td>
<td>.55 (13.97mm)</td>
<td>2.50 (63.50mm)</td>
<td>1.75 (44.45mm)</td>
<td>1.44 (36.58mm)</td>
<td>.81 (20.57mm)</td>
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<td>2.50 (63.50mm)</td>
<td>1.75 (44.45mm)</td>
<td>1.44 (36.58mm)</td>
<td>.81 (20.57mm)</td>
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<td>2.50 (63.50mm)</td>
<td>1.75 (44.45mm)</td>
<td>1.44 (36.58mm)</td>
<td>.81 (20.57mm)</td>
<td>1.90 (48.26mm)</td>
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Specifications and Performance

- Ambient Operating Temperature: 0°F to 176°F (-17°C to 80°C)
- Media Operating Temperature: 0°F to 194°F (-17°C to 90°C)
- Actuation Pressure: 60 PSIG (414 kPa) to 100 PSIG (689 kPa) @ Room Temperature
- Maximum Pressure (Any Port): 100 PSIG (689 kPa) @ Room Temperature
- Internal Volume: 0.031 in³ (0.50cc)

Inlet Pressure vs Flow**

<table>
<thead>
<tr>
<th>Flow (gpm)</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
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<tbody>
<tr>
<td>Inlet Pressure (psig)</td>
<td>0</td>
<td>20</td>
<td>40</td>
<td>60</td>
<td>80</td>
<td>100</td>
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2-Way

- 1/4 - 28 UNF-2B VENT/LEAK PORT
- 1/8 FNPT PILOT PORT

3-Way

- #6 - 32 UNC-2B 4 MOUNTING HOLES

Saint-Gobain Performance Plastics-USA
Polymer Products
7301 Orangewood Avenue
Garden Grove, CA 92841-1411
Tel: (714) 630-5818
Fax: (714) 688-2614
USA Toll Free: (800) 833-5661

Saint-Gobain Performance Plastics-France
Polymer Products
41 Boulevard des Bouvets
Nanterre F-92000, France
Tel: 33/(0) 1 55 68 59 59
Fax: 33/(0) 1 55 68 59 68

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www.microelectronics.saint-gobain.com