Pipe Needle Valves

SPECIFICATIONS
Max. Working Pressure:
Up to 15,000 PSI (1030 bar)
Temperature Ratings:
-100° to 600°F (-73° to 315°C)
Grafoil packing available for high
temperature service

TYPICAL APPLICATIONS
• Chemical injection systems
• Process control systems
• Hydraulic control panels
• Safety shutdown systems
• High pressure water blasting
• Hydrostatic test systems

TYPICAL MATERIALS OF CONSTRUCTION
• Body - 316 cold-worked stainless steel
• Packing - Glass filled Teflon
• Stem 17-4PH
• Other materials available upon request

ACTUATOR OPTIONS - see pg 28

OTHER OPTIONS
PM - Panel Mount
GR - Graphoil packing for temperatures to 800° F (427° C)
HT - Extended stuffing box with Graphoil packing to
1200° F (649° C)
LT - Extended stuffing box with Teflon packing and
cryogenic trim materials to -423° F (-253° C)
# Ordering

<table>
<thead>
<tr>
<th>Pressure (psi/MPa)</th>
<th>Connection Size</th>
<th>Port</th>
<th>CV*</th>
<th>Stem Tip</th>
<th>2-Way Straight</th>
<th>2-Way Angle</th>
<th>3-Way 2 Inlet Ports</th>
<th>3-Way 2 Outlet Ports</th>
<th>2-Stem Manifold</th>
<th>Replaceable Seat</th>
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<tbody>
<tr>
<td>15,000 PSI (1035 bar)</td>
<td>1/8&quot;</td>
<td>0.187</td>
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<td>Vee</td>
<td>NV721NVA15</td>
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<td>NV723NVA15</td>
<td>NV724NVA15</td>
<td>NV725NVA15</td>
<td>NV726NVA15</td>
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<td></td>
<td></td>
<td>0.187</td>
<td>0.65</td>
<td>Reg</td>
<td>NV721NRA15</td>
<td>NV722NRA15</td>
<td>NV723NRA15</td>
<td>NV724NRA15</td>
<td>NV725NRA15</td>
<td>NV726NRA15</td>
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<tr>
<td></td>
<td>1/4&quot;</td>
<td>0.250</td>
<td>0.75</td>
<td>Vee</td>
<td>NV741NG15</td>
<td>NV742NG15</td>
<td>NV743NG15</td>
<td>NV744NG15</td>
<td>NV745NG15</td>
<td>NV746NG15</td>
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<tr>
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<td>0.250</td>
<td>0.75</td>
<td>Reg</td>
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<td>NV783NB15</td>
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<td>NV785NB15</td>
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*CV values listed are for 2-way straight valves. For 2-way angle valves, increase CV by 50%.

## Notes:
1. All Maximum Allowable Working Pressures (MAWP) are based on usage @ 72°F.
2. Standard operating temperature range is -20 to 400°F (-20 to 204°C).
3. Caution: The Maximum Allowable Working Pressure (MAWP) of the valve shall not exceed the MAWP of the valve series or the selected connection, whichever is less.