Dwyer Series NV Needle Valves are an economical valve for regulating pressures up to 500 psig (34.5 bar). Suitable for air, water, oil and other compatible fluids. The valves can be used independently, or as a remote valve for Dwyer flowmeters.

Design Features:
• Panel Mountable.
• 90 degree flow pattern.
• Eight turns to full open.
• Stem Retainer can be removed for easy cleanout.

Materials of Construction:
Outer Block: Brass or 303 Stainless Steel
Inner Body: 303 Stainless Steel
Valve Stem: 303 Stainless Steel
Stem Retainer: Delrin®
O-Rings: Buna-N
Knob: ABS

PHYSICAL DATA
Maximum Pressure: 500 psig (34.5 bar)
Maximum Temperature: 200º F (93.3º C)
Orifice Size: 0.120 in (3.05 mm)
Flow Coefficient: 0.36
Max Flow: 1.75 gpm water (6.6 LPM)
500 scfh air (14,150 LPH)
Weight: 0.43 lbs. (195 g)
Connection Size: 1/8 – 27 Female NPT

Panel Mounting:
Drill a 0.500 in (12.7 mm) hole in the panel at the desired knob location. Drill a 0.125 in (3.175 mm) hole at a 0.500 in (12.7 mm) distance from the first hole at any orientation. Pull knob from stem. Insert stem through panel and fasten with a 4-40 UNF-2A screw and lock washer. Press knob back onto stem.

Cleanout Procedure:
Relieve pressure from system. Back knob out 8-10 turns. Using a 5/16 wrench, remove the white Delrin® retainer from the valve body. Cleanout valve body and replace valve stem and retainer.

Note:
Stem will turn freely when backed out more than 8 turns. A slight inward push is needed to re-engage the threads.

STOCKED MODELS

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NV-1B</td>
<td>Brass Block Valve</td>
</tr>
<tr>
<td>NV-1S</td>
<td>303 SST Block Valve</td>
</tr>
</tbody>
</table>