NC-**-S
Adjustable, Needle Valve

**DESCRIPTION**

A non-self-contained cartridge valve designed to provide a variable flow restriction with positive shut-off. Valve sizes range from 1/8" to 3/4".

**OPERATION**

The NC series of valves vary flow restriction by adjusting needle in or out and will shut off when fully closed. These valves will meter flow in either direction.

**FEATURES and BENEFITS**

- Aluminum knob.
- Full range of adjustments.
- Adjustment may be locked in place.
- Positive shut-off.
- Viton seals.
- Compact size.

**SPECIFICATIONS**

**Operating Pressure:** 3000 PSI (207 Bar)
**Flow:** See FLOW CHARACTERISTICS chart.
**Temperature:** -15°F to +400°F (-26°C to +204°C)
**Recommended Filtration:** ISO 20/18/14
**Fluids:** Mineral-based fluids. For other fluid compatibility, consult factory.
**Cavities/Cavity Tools:** NC**, see page 11.21.1

**FLOW CHARACTERISTICS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAX. RECOMMENDED GPM (L/min.)</th>
<th>CV FACTOR (FULL OPEN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC-10-S</td>
<td>3.2 (12.1)</td>
<td>.19</td>
</tr>
<tr>
<td>NC-20-S</td>
<td>7.0 (26.5)</td>
<td>.43</td>
</tr>
<tr>
<td>NC-25-S</td>
<td>13.5 (51.1)</td>
<td>.78</td>
</tr>
<tr>
<td>NC-30-S</td>
<td>22.5 (85.2)</td>
<td>1.24</td>
</tr>
<tr>
<td>NC-35-S</td>
<td>34.0 (128.7)</td>
<td>1.78</td>
</tr>
</tbody>
</table>
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INSTALLATION DIMENSIONS

MALE THREAD SUPPLIED WITH PRE-APPLIED THREAD LOCKER FOR POSITIVE SEAL.

( ) Parentheses = Millimeters

<table>
<thead>
<tr>
<th>MODEL</th>
<th>A (WIDTH ACROSS HEX. FLATS)</th>
<th>B (WIDTH ACROSS HEX. FLATS)</th>
<th>C (DIA.)</th>
<th>D (CLOSED)</th>
<th>E (FULL OPEN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC-10-S</td>
<td>.38 (9.7)</td>
<td>.38 (9.7)</td>
<td>.73 (19.8)</td>
<td>.75 (19.1)</td>
<td>.88 (22.4)</td>
</tr>
<tr>
<td>NC-20-S</td>
<td>.44 (11.2)</td>
<td>.50 (12.7)</td>
<td>.73 (19.8)</td>
<td>.86 (21.8)</td>
<td>1.00 (25.4)</td>
</tr>
<tr>
<td>NC-25-S</td>
<td>.44 (11.2)</td>
<td>.50 (12.7)</td>
<td>1.03 (26.2)</td>
<td>.97 (24.6)</td>
<td>1.19 (30.2)</td>
</tr>
<tr>
<td>NC-30-S</td>
<td>.50 (12.7)</td>
<td>.56 (14.2)</td>
<td>1.03 (26.2)</td>
<td>1.19 (30.2)</td>
<td>1.44 (36.6)</td>
</tr>
<tr>
<td>NC-35-S</td>
<td>.69 (17.5)</td>
<td>.75 (19.1)</td>
<td>1.03 (26.2)</td>
<td>1.31 (33.3)</td>
<td>1.63 (41.4)</td>
</tr>
</tbody>
</table>

HOW TO ORDER

NC - ** - S
NEEDLE VALVE
S = Carbon Steel

SIZE
10 = 1/8"
20 = 1/4"
25 = 3/8"
30 = 1/2"
35 = 3/4"

www.deltrolfluid.com