In the sign of evolution and safety
Non-rotating Metal Stem Tip

A non rotating stem tip is typically used in high cycle applications to extend the service life of the valve. Its purpose is to prevent the galling of the valve seat in contact with the non-rotating stem, which is driven straight into it without rotating.

- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: carbon steel LF2, Duplex, Super Duplex, Monel 400, Hastelloy C276, Inconel 625, Titanium, Incoloy 825
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

<table>
<thead>
<tr>
<th>BILL OF MATERIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong> TEE BAR</td>
</tr>
<tr>
<td><strong>2</strong> FIXING</td>
</tr>
<tr>
<td><strong>3</strong> CAP</td>
</tr>
<tr>
<td><strong>4</strong> GLAND NUT</td>
</tr>
<tr>
<td><strong>5</strong> LOCK NUT</td>
</tr>
<tr>
<td><strong>6</strong> BONNET</td>
</tr>
<tr>
<td><strong>7</strong> RING</td>
</tr>
<tr>
<td><strong>8</strong> METAL SEAL</td>
</tr>
<tr>
<td><strong>9</strong> PACKING (STEM)</td>
</tr>
<tr>
<td><strong>10</strong> STEM</td>
</tr>
<tr>
<td><strong>11</strong> PIN</td>
</tr>
<tr>
<td><strong>12</strong> NON-ROTATING STEM</td>
</tr>
</tbody>
</table>
A wide range of locking devices is available on our products.

**Anti-Tamper Locking**

*Lockable Anti-Tamper*

The Anti-Tamper accommodates shackles of diameter 0.25" (6.4 mm) or smaller and can be locked.

* PADLOCK ONLY ON REQUEST.

---

**Anti-Tamper**

The Anti-Tamper handle reduces the risk of human error and deliberate tampering. The valve can be operated with the Anti-Tamper key, provided separately.
Material groups, Class Ratings, and Temperatures are based on ASME codes. The choice of optional packing materials may affect the valve rating.

<table>
<thead>
<tr>
<th>Stem Packing Material</th>
<th>Valve Material</th>
<th>Temperature rating</th>
<th>Maximum Standard Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>°C</td>
<td>°F</td>
</tr>
<tr>
<td>Standard PTFE</td>
<td>SS 316L</td>
<td>-73°C / +210°C</td>
<td>-99°F / +410°F</td>
</tr>
<tr>
<td>Standard PEEK</td>
<td>SS 316L</td>
<td>-40°C / +260°C</td>
<td>-40°F / +500°F</td>
</tr>
<tr>
<td>Standard Graphoil</td>
<td>SS 316L</td>
<td>-54°C / +510°C</td>
<td>-65°F / +950°F</td>
</tr>
</tbody>
</table>

Note: Pressure information at the maximum temperature is based on ASME B16 standard.

A complete pressure/temperature chart of the most common packing material is available on section 6 (Technical) of our catalogue.

Features

- Alternative 10,000 psi (689 bar) range available.
- All Valves are 100% factory tested.
- NACE MR01-75 certified wetted parts available upon request.
- Optional cleaning and lubrication suitable for Oxygen service.
- Heat code traceability for body and bonnet.
### Ordering Information

Sami Instruments needle valves and manifolds with union-bonnet construction are available in a variety of materials and end connections. 
Pressure from 6000 Psi (413 Bar) up to 10,000 Psi (690 Bar)
Temperature rating PTFE packing from –73°C to + 210°C (-99°F / + 410°F )
Temperature rating GRAPHOIL packing from –54°C to + 510° C (-65°F / + 950°F )

<table>
<thead>
<tr>
<th>VERSION</th>
<th>RATING</th>
<th>INLET</th>
<th>OUTLET</th>
<th>MATERIAL</th>
<th>PACKING</th>
<th>BONNET</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000+1600</td>
<td>C</td>
<td>B</td>
<td>A</td>
<td>B</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>2000+2450</td>
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<td></td>
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<td></td>
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</tr>
<tr>
<td>3000+3550</td>
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<tr>
<td>4000+4300</td>
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<td>5000+5600</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>VERSION</th>
<th>RATING</th>
<th>INLET</th>
</tr>
</thead>
<tbody>
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<td>3,000 PSI</td>
</tr>
<tr>
<td>2000+2450</td>
<td>C</td>
<td>6,000 PSI</td>
</tr>
<tr>
<td>3000+3550</td>
<td>D</td>
<td>10,000 PSI</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OUTLET</th>
<th>MATERIAL</th>
<th>PACKING</th>
<th>BONNET</th>
</tr>
</thead>
<tbody>
<tr>
<td>B 1/4”</td>
<td>Aisi 316 L</td>
<td>PTFE</td>
<td>Std Bonnet</td>
</tr>
<tr>
<td>C 3/8”</td>
<td>Aisi 316 Ti</td>
<td>Graphoil</td>
<td>Gas Solution</td>
</tr>
<tr>
<td>D 1/2”</td>
<td>Duplex F51</td>
<td></td>
<td>Mini</td>
</tr>
<tr>
<td>E 3/4”</td>
<td>Super Duplex F55</td>
<td></td>
<td>Extended Bonnet</td>
</tr>
<tr>
<td>F Ø *</td>
<td>B.W.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G 1”</td>
<td>O.D.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>Flanged</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>M20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>Flanged IEC 61518/B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>Flanged IEC 61518/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L</td>
<td>Coplanar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>X 1.5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Options

- **A** Drainvent 1/2”
- **B** Drainvent M10
- **C** Drainvent M20x1.5
- **D** Drainvent Anti-tamper
- **E** Equalise+Drain Anti-tamper
- **F** Isolate+Drain Anti-tamper
- **G** Isolate+Equalise Anti-tamper
- **H** Locking device on all isolates

- **I** All Anti-tamper
- **L** Oxygen Cleaning
- **P** Panel Mounting
- **Q** All locking device
- **R** Isolate Anti-tamper
- **S** Drain Male
- **T** Drain Female
**Needle Valves 6,000 psi & 10,000 psi**

Bar stock needle valves are designed for operation up to 10,000 psi rating. With standard PTFE stem packing & self-centering non-rotating stem, our needle valves provide total sealing security and easy manoeuvrability.

### Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphite
- Stainless steel construction as standard, optional: see material list on page 5
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

### Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from −73°C to +210°C (−99°F / +410°F)
- Temperature rating Graphoil packing from −54°C to +510°C (−65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

<table>
<thead>
<tr>
<th>Order code</th>
<th>Connections</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Orifice</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inlet</td>
<td>Outlet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000CABABAA</td>
<td>1/4 &quot;</td>
<td>1/4 &quot;</td>
<td>30.00</td>
<td>60.00</td>
<td>89.00</td>
<td>4.00</td>
</tr>
<tr>
<td>1000CCACABAA</td>
<td>3/8 &quot;</td>
<td>3/8 &quot;</td>
<td>30.00</td>
<td>60.00</td>
<td>89.00</td>
<td>4.00</td>
</tr>
<tr>
<td>1000CDADABAA</td>
<td>1/2 &quot;</td>
<td>1/2 &quot;</td>
<td>30.00</td>
<td>60.00</td>
<td>89.00</td>
<td>4.00</td>
</tr>
<tr>
<td>1000CEAEABAA</td>
<td>3/4 &quot;</td>
<td>3/4 &quot;</td>
<td>40.00</td>
<td>65.00</td>
<td>99.00</td>
<td>4.00</td>
</tr>
<tr>
<td>1000CGAGABAA</td>
<td>1 &quot;</td>
<td>1 &quot;</td>
<td>50.00</td>
<td>75.00</td>
<td>109.00</td>
<td>6.50</td>
</tr>
</tbody>
</table>

Note: For 10,000 psi version select "D" as first letter of the code, i.e. 1000DBABABAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75
**1050 Series**

**Needle Valves 6,000 psi & 10,000 psi**

Bar stock needle valves are designed for operation up to 10,000 psi rating. With standard PTFE stem packing & self-centering non-rotating stem, our needle valves provide total sealing security and easy manoeuvrability.

**Features**

- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: see material list on page 5
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

**Specifications**

- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from -73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from -54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

---

<table>
<thead>
<tr>
<th>Order code</th>
<th>Connections</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Orifice</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1050CBABABAA</td>
<td>1/4&quot;</td>
<td>30.00</td>
<td>60.00</td>
<td>89.00</td>
<td>4.00</td>
<td>Kg. 0.51</td>
</tr>
<tr>
<td>1050CCACABAA</td>
<td>3/8&quot;</td>
<td>30.00</td>
<td>60.00</td>
<td>89.00</td>
<td>4.00</td>
<td>Kg. 0.51</td>
</tr>
<tr>
<td>1050CDADABAA</td>
<td>1/2&quot;</td>
<td>30.00</td>
<td>60.00</td>
<td>89.00</td>
<td>4.00</td>
<td>Kg. 0.51</td>
</tr>
<tr>
<td>1050CSEAABAA</td>
<td>3/4&quot;</td>
<td>40.00</td>
<td>65.00</td>
<td>99.00</td>
<td>4.00</td>
<td>Kg. 0.73</td>
</tr>
<tr>
<td>1050CGAGABAA</td>
<td>1&quot;</td>
<td>50.00</td>
<td>75.00</td>
<td>109.00</td>
<td>6.50</td>
<td>Kg. 1.13</td>
</tr>
</tbody>
</table>

Note: For 10,000 psi version select **D** as first letter of the code, i.e. 1050DBABABAA

Included accessories:
- Plug

Material of construction can be supplied to meet the requirements of NACE MR 01-75
**Specifications**

- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from −73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from −54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

---

**Features**

- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: see material list on page 5
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

---

**Order code**

<table>
<thead>
<tr>
<th>Connections</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Orifice</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1100CBABABA</td>
<td>1/4&quot;</td>
<td>1/4&quot;</td>
<td>30.00</td>
<td>60.00</td>
<td>89.00</td>
</tr>
<tr>
<td>1100CCACABA</td>
<td>3/8&quot;</td>
<td>3/8&quot;</td>
<td>30.00</td>
<td>65.00</td>
<td>89.00</td>
</tr>
<tr>
<td>1100CDADABA</td>
<td>1/2&quot;</td>
<td>1/2&quot;</td>
<td>30.00</td>
<td>70.00</td>
<td>89.00</td>
</tr>
<tr>
<td>1100CEAEABA</td>
<td>3/4&quot;</td>
<td>3/4&quot;</td>
<td>40.00</td>
<td>70.00</td>
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<tr>
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<td>1&quot;</td>
<td>1&quot;</td>
<td>50.00</td>
<td>80.00</td>
<td>109.00</td>
</tr>
</tbody>
</table>

**Note:** For 10,000 psi version select "D" as first letter of the code, i.e. 1100DBABABA

**Included accessories:**
- Plug

**Material of construction can be supplied to meet the requirements of NACE MR 01-75**
1150 Series

Needle Valves 6,000 psi & 10,000 psi

Bar stock needle valves are designed for operation up to 10,000 psi rating. With standard PTFE stem packing & self centering non-rotating stem, our needle valves provide total sealing security and easy manoeuvrability.

Features

• Tee bar easy manoeuvrability with minimum effort
• PTFE packing standard, optional graphoil
• Stainless steel construction as standard, optional: see material list on page 5
• Colour coded functional identification
• Externally adjustable gland
• Variety of end connections
• Dust cap to prevent contaminations on the operating thread

Specifications

• Pressure up to 10,000 Psi ( 690 Bar )
• Temperature rating PTFE packing from –73°C to +210° C ( -99°F / + 410°F )
• Temperature rating GRAPHOIL packing from –54°C to + 510° C ( -65°F / + 950°F )
• Standard orifice diameter 4.0 mm
• Standard 316L stainless steel material

<table>
<thead>
<tr>
<th>Order code</th>
<th>Connections</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Orifice</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inlet</td>
<td>Outlet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1150CBABABAA</td>
<td>1/4 &quot;</td>
<td>1/4 &quot;</td>
<td>30.00</td>
<td>70.00</td>
<td>89.00</td>
<td>4.00</td>
</tr>
<tr>
<td>1150CCACABAA</td>
<td>3/8 &quot;</td>
<td>3/8 &quot;</td>
<td>30.00</td>
<td>70.00</td>
<td>89.00</td>
<td>4.00</td>
</tr>
<tr>
<td>1150CDADABAA</td>
<td>1/2 &quot;</td>
<td>1/2 &quot;</td>
<td>30.00</td>
<td>70.00</td>
<td>89.00</td>
<td>4.00</td>
</tr>
</tbody>
</table>

Note: For 10,000 psi version select " D " as first letter of the code, i.e. 1150DBABABAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75
**Needle Valves 6,000 psi & 10,000 psi**

Bar stock needle valves are designed for operation up to 10,000 psi rating. With standard PTFE stem packing & self centering non-rotating stem, our needle valves provide total sealing security and easy manoeuvrability.

**Features**
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: see material list on page 5
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

**Specifications**
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from −73°C to +210°C (-99°F / + 410°F)
- Temperature rating GRAPHOIL packing from −54°C to +510°C (-65°F / + 950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

**Order code**

<table>
<thead>
<tr>
<th>Order code</th>
<th>Connections</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Orifice</th>
<th>Weight</th>
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<tbody>
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<td>70.00</td>
<td>89.00</td>
<td>4.00 Kg</td>
<td>0.53</td>
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<tr>
<td>1200CCACABA</td>
<td>3/8&quot; 3/8&quot;</td>
<td>30.00</td>
<td>70.00</td>
<td>89.00</td>
<td>4.00 Kg</td>
<td>0.53</td>
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<tr>
<td>1200CDADABA</td>
<td>1/2&quot; 1/2&quot;</td>
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<td>70.00</td>
<td>89.00</td>
<td>4.00 Kg</td>
<td>0.53</td>
</tr>
</tbody>
</table>

Note: For 10,000 psi version select *D* as first letter of the code, included accessories:
- Bleeder M8x1

Material of construction can be supplied to meet the requirements of NACE MR 01-75
1250 Series

Needle Valves 6,000 psi & 10,000 psi
Bar stock needle valves are designed for operation up to 10,000 psi rating. With standard PTFE stem packing & self centering non-rotating stem, our needle valves provide total sealing security and easy manoeuvrability.

Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: see material list on page 5
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications
- Pressure up to 10,000 Psi ( 690 Bar )
- Temperature rating PTFE packing from –73°C to +210°C ( -99°F / + 410°F )
- Temperature rating GRAPHOIL packing from –54°C to + 510° C ( -65°F / + 950°F )
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

<table>
<thead>
<tr>
<th>Order code</th>
<th>Connections</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Orifice</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1250CBABABAA</td>
<td>1/4 &quot;</td>
<td>30.00</td>
<td>70.00</td>
<td>89.00</td>
<td>4.00</td>
<td>Kg. 0.53</td>
</tr>
<tr>
<td>1250CCACABAA</td>
<td>3/8 &quot;</td>
<td>30.00</td>
<td>75.00</td>
<td>89.00</td>
<td>4.00</td>
<td>Kg. 0.53</td>
</tr>
<tr>
<td>1250CDADABAA</td>
<td>1/2 &quot;</td>
<td>30.00</td>
<td>80.00</td>
<td>89.00</td>
<td>4.00</td>
<td>Kg. 0.53</td>
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</tbody>
</table>

Note: For 10,000 psi version select "D " as first letter of the code, i.e. 1250DBABABAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- Plug
Multiport Gauge Valves

This needle valve is equipped with three threaded female outlets that allow to fix the gauge in the most appropriate position or to install even a master gauge at the same time.

Our 1300 series needle valve is complete with standard PTFE gland packing and self centering non-rotating stem which ensures bubble tight seat shut off. Both 1/2” and 3/4” have 1/2” side ports.

Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: see material list on page 5
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from -73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from -54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

<table>
<thead>
<tr>
<th>Order code</th>
<th>Connections</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>1300CBABABAA</td>
<td>1/4 &quot; NPT MALE INLET 3 x 1/4 &quot; NPT FEMALE OUTLETS</td>
<td>30.00</td>
<td>120.00</td>
<td>89.00</td>
<td>35.00</td>
<td>Kg. 0.82</td>
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<tr>
<td>1300CDADABAA</td>
<td>1/2 &quot; NPT MALE INLET 3 x 1/2 &quot; NPT FEMALE OUTLETS</td>
<td>30.00</td>
<td>120.00</td>
<td>89.00</td>
<td>35.00</td>
<td>Kg. 0.82</td>
</tr>
<tr>
<td>1300CEADABAA</td>
<td>3/4 &quot; NPT MALE INLET 3 x 1/2 &quot; NPT FEMALE OUTLETS</td>
<td>30.00</td>
<td>120.00</td>
<td>89.00</td>
<td>35.00</td>
<td>Kg. 0.82</td>
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</tbody>
</table>

Note: For 10,000 psi version select “D” as first letter of the code, i.e. 1300DBABABAA
Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- Plug
- Bleeder

SAMI instruments srl
via Botte, 8
35011 Reschigliano
di Campodarsego • PD • Italy

Tel. +39 049 9201939
Fax +39 049 9217549
info@sami-instruments.com
www.sami-instruments.com
**Multiport Gauge Valves**

This needle valve is equipped with three threaded female outlets that allow to fix the gauge in the most appropriate position or to install even a master gauge at the same time. Our 1300 series needle valve is complete with standard PTFE gland packing and self-centering non-rotating stem which ensures bubble tight seat shut off. Both 1/2” and 3/4” have 1/2” side ports.

**Features**
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: see material list on page 5
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

**Specifications**
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

<table>
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<tr>
<th>Order code</th>
<th>Connections</th>
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<th>B (kg)</th>
<th>C (kg)</th>
<th>D (kg)</th>
<th>Orifice</th>
<th>Weight</th>
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<tr>
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<td>1/4” NPT FEMALE INLET 3 x 1/4” NPT FEMALE OUTLETS</td>
<td>30.00</td>
<td>120.00</td>
<td>89.00</td>
<td>35.00</td>
<td>4.00</td>
<td>Kg 0.82</td>
</tr>
<tr>
<td>1304CDADABAA</td>
<td>1/2” NPT FEMALE INLET 3 x 1/2” NPT FEMALE OUTLETS</td>
<td>30.00</td>
<td>120.00</td>
<td>89.00</td>
<td>35.00</td>
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<td>Kg 0.82</td>
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Note: For 10,000 psi version select "D" as first letter of the code, i.e. 1304DBABABAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- Plug
- Bleeder
**Needle Valves 6,000 psi & 10,000 psi**

Bar stock needle valves are designed for operation up to 10,000 psi rating. With standard PTFE stem packing & self centering non-rotating stem, our needle valves provide total sealing security and easy manoeuvrability.

### Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: see material list on page 5
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

### Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (–99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (–65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

### Order codes

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<td>70.00</td>
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<td>4.00</td>
<td>Kg. 0.53</td>
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<td>1400CCACABAA</td>
<td>3/8”</td>
<td>30.00</td>
<td>70.00</td>
<td>89.00</td>
<td>4.00</td>
<td>Kg. 0.53</td>
</tr>
<tr>
<td>1400CDADABAA</td>
<td>1/2”</td>
<td>30.00</td>
<td>70.00</td>
<td>89.00</td>
<td>4.00</td>
<td>Kg. 0.53</td>
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Note: For 10,000 psi version select “D” as first letter of the code, i.e. 1400DBABABAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75
Needle Valves 6,000 psi & 10,000 psi

Bar stock needle valves are designed for operation up to 10,000 psi rating. With standard PTFE stem packing & self centering non-rotating stem, our needle valves provide total sealing security and easy manoeuvrability.

Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: see material list on page 5
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

<table>
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<tr>
<th>Order code</th>
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<th>C</th>
<th>Orifice</th>
<th>Weight</th>
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<td>Outlet</td>
<td></td>
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</tr>
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<td>70.00</td>
<td>89.00</td>
<td>4.00 Kg. 0.56</td>
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<tr>
<td>1450CCACABAA</td>
<td>3/8 &quot;</td>
<td>3/8 &quot;</td>
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<td>70.00</td>
<td>89.00</td>
<td>4.00 Kg. 0.56</td>
</tr>
<tr>
<td>1450CDADABAA</td>
<td>1/2 &quot;</td>
<td>1/2 &quot;</td>
<td>30.00</td>
<td>70.00</td>
<td>89.00</td>
<td>4.00 Kg. 0.56</td>
</tr>
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</table>

Note: For 10,000 psi version select “D” as first letter of the code, included accessories:
- Plug

Material of construction can be supplied to meet the requirements of NACE MR 01-75
**Needle Valves 6,000 psi & 10,000 psi / 90°**

Bar stock needle valves are designed for operation up to 10,000 psi rating. With standard PTFE stem packing & self centering non-rotating stem, our needle valves provide total sealing security and easy manoeuvrability.

### Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: see material list on page 5
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

### Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from −73°C to +210°C (−99°F / +410°F)
- Temperature rating GRAPHOIL packing from −54°C to +510°C (−65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

### Order Code and Dimensions

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<th>D</th>
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<td>1/4 &quot;</td>
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<td>50.00</td>
<td>40.00</td>
<td>99.00</td>
<td>4.00 Kg</td>
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<tr>
<td>1550CCACABAA</td>
<td>3/8 &quot;</td>
<td>3/8 &quot;</td>
<td>30.00</td>
<td>50.00</td>
<td>40.00</td>
<td>99.00</td>
<td>4.00 Kg</td>
</tr>
<tr>
<td>1550CDADABAA</td>
<td>1/2 &quot;</td>
<td>1/2 &quot;</td>
<td>30.00</td>
<td>50.00</td>
<td>40.00</td>
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</tbody>
</table>

Note: For 10,000 psi version select "D" as first letter of the code, i.e. 1550DBABABAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75
**Needle Valves 6,000 psi & 10,000 psi / 90°**

Bar stock needle valves are designed for operation up to 10,000 psi rating. With standard PTFE stem packing & self centering non-rotating stem, our needle valves provide total sealing security and easy manoeuvrability.

### Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: see material list on page 5
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

### Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from -73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from -54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

### Order Code and Specifications Table

<table>
<thead>
<tr>
<th>Order code</th>
<th>Connections</th>
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<th>B</th>
<th>C</th>
<th>D</th>
<th>Orifice</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1600CBABABAA</td>
<td>1/4 &quot;</td>
<td>30.00</td>
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<td>50.00</td>
<td>109.00</td>
<td>4.00 Kg.</td>
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<td>1600CCACABAA</td>
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<td>30.00</td>
<td>50.00</td>
<td>50.00</td>
<td>109.00</td>
<td>4.00 Kg.</td>
<td>0.78</td>
</tr>
<tr>
<td>1600CDADABAA</td>
<td>1/2 &quot;</td>
<td>30.00</td>
<td>50.00</td>
<td>50.00</td>
<td>109.00</td>
<td>4.00 Kg.</td>
<td>0.78</td>
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</tbody>
</table>

Note: For 10,000 psi version select “D” as first letter of the code, i.e. 1600DBABABAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- Plug

SAMI instruments srl
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35011 Reschigliano
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Tel: +39 049 9201939
Fax: +39 049 9217549
info@sami-instruments.com
www.sami-instruments.com
Two Valve Manifolds

6.000 psi & 10.000

This series of two-valve manifolds combines valves into one block to perform isolation, bleed and calibration of pressure transmitters, gauges and switches. Process, Instrument and Vent connections can be provided in a variety of sizes and threaded forms including NPT, BSPT and BSPP. Several models of brackets can be supplied to allow the installation both in site and on panels.

Features

- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: see material list on page 5
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications

- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

<table>
<thead>
<tr>
<th>Order code</th>
<th>Connections</th>
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<th>Outlet</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<th>Orifice</th>
<th>Weight</th>
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<td>1/4 &quot;</td>
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<td>120.00</td>
<td>89.00</td>
<td>89.00</td>
<td>4.00</td>
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Note: For 10,000 psi version select “D” as first letter of the code, i.e. 2000DBABABAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- Plug
Two Valve Manifolds

6.000 psi & 10.000 psi

This series of two-valve manifolds combines valves into one block to perform isolation, bleed and calibration of pressure transmitters, gauges and switches. Process, Instrument and Vent connections can be provided in a variety of sizes and threaded forms including NPT, BSPT and BSPP. Several models of brackets are supplied to allow the installation both in site and on panels.

Features

• Tee bar easy manoeuvrability with minimum effort
• PTFE packing standard, optional graphoil
• Stainless steel construction as standard, optional: see material list on page 5
• Colour coded functional identification
• Externally adjustable gland
• Variety of end connections
• Dust cap to prevent contaminations on the operating thread

Specifications

• Pressure up to 10,000 Psi (690 Bar)
• Temperature rating PTFE packing from –73°C to +210°C (-99°F / +410°F)
• Temperature rating GRAPHOIL packing from –54°C to +510°C (-65°F / +950°F)
• Standard orifice diameter 4.0 mm
• Standard 316L stainless steel material

<table>
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<tr>
<th>Order code</th>
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<th>A</th>
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<th>C</th>
<th>Orifice</th>
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Note: For 10,000 psi version select “D” as first letter of the code, i.e. 2002DDADABAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:

- Plug
Two Valve Manifolds

6,000 psi & 10,000 psi

This series of two-valve manifolds combines valves into one block to perform isolation, bleed and calibration of pressure transmitters, gauges and switches. Process, Instrument and Vent connections can be provided in a variety of sizes and threaded forms including NPT, BSPT and BSPP. Several models of brackets are supplied to allow the installation both in site and on panels.

Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: see material list on page 5
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

<table>
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<tr>
<th>Order code</th>
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<th>A</th>
<th>B</th>
<th>C</th>
<th>Orifice</th>
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<tbody>
<tr>
<td>2003CBABABAA</td>
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<tr>
<td>2003CDADABAA</td>
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<td>120.00</td>
<td>148.00</td>
<td>4.00 Kg</td>
<td>0.88</td>
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Note: For 10,000 psi version select "D" as first letter of the code, i.e. 2003DBABABAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- Plug
Two Valve Manifolds 6.000 psi & 10.000

This series of two-valve manifolds combines valves into one block to perform isolation, bleed and calibration of pressure transmitters, gauges and switches. Process, Instrument and Vent connections can be provided in a variety of sizes and threaded forms including NPT, BSPT and BSPP. Several models of brackets are supplied to allow the installation both in site and on panels.

Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: see material list on page 5
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from -73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from -54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

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<th>Order code</th>
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<th>A</th>
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<th>Orifice</th>
<th>Weight</th>
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<td>4.00 Kg</td>
<td>0.90</td>
</tr>
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</table>

Note: For 10,000 psi version select “D” as first letter of the code, i.e. 2050DBABABAA

Included accessories:
- Plug

Material of construction can be supplied to meet the requirements of NACE MR 01-75
Two Valve Manifolds 6.000 psi & 10.000

This series of two-valve manifolds combines valves into one block to perform isolation, bleed and calibration of pressure transmitters, gauges and switches. Process, Instrument and Vent connections can be provided in a variety of sizes and threaded forms including NPT, BSPT and BSPP. Several models of brackets are supplied to allow the installation both in site and on panels.

Features

- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: see material list on page 5
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications

- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

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<td>Outlet</td>
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<td>Kg</td>
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Note: For 10,000 psi version select "D " as first letter of the code, i.e. 2052DBABABAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- Plug

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Rev. 0 - 2015
Two Valve Manifolds

6.000 psi & 10.000

This series of two-valve manifolds combines valves into one block to perform isolation, bleed and calibration of pressure transmitters, gauges and switches. Process, Instrument and Vent connections can be provided in a variety of sizes and threaded forms including NPT, BSPT and BSPP. Several models of brackets are supplied to allow the installation both in site and on panels.

Features

- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: see material list on page 5
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications

- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Order code</th>
<th>Connections</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Orifice</th>
<th>Weight</th>
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<tbody>
<tr>
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<td>30.00</td>
<td>100.00</td>
<td>148.00</td>
<td>4.00 Kg</td>
<td>0.87</td>
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Note: For 10,000 psi version select “D” as first letter of the code, i.e. 2055DDADABAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- Plug
Two Valve Manifolds 6.000 psi & 10.000

This series of two-valve manifolds combines valves into one block to perform isolation, bleed and calibration of pressure transmitters, gauges and switches. Process, Instrument and Vent connections can be provided in a variety of sizes and threaded forms including NPT, BSPT and BSPP. Several models of brackets are supplied to allow the installation both in site and on panels.

Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (–99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (–65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Order code</th>
<th>Connections</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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<th>H</th>
<th>L</th>
<th>Orifice</th>
<th>Weight</th>
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<tbody>
<tr>
<td>2150CBHHBA</td>
<td>1/4 &quot; Flanged</td>
<td>32.00</td>
<td>65.00</td>
<td>70.00</td>
<td>49.00</td>
<td>32.00</td>
<td>18.00</td>
<td>7.00</td>
<td>124.00</td>
<td>124.00</td>
<td>4.00 Kg</td>
<td></td>
</tr>
<tr>
<td>2150CDHHBA</td>
<td>1/2 &quot; Flanged</td>
<td>32.00</td>
<td>65.00</td>
<td>70.00</td>
<td>49.00</td>
<td>32.00</td>
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<td>124.00</td>
<td>4.00 Kg</td>
<td></td>
</tr>
</tbody>
</table>

Note: For 10,000 psi version select “D” as first letter of the code, i.e. 2150DBAHIBAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- no. 2 carbon steel screws
- no. 1 plug
- no. 1 PTFE gasket
Two Valve Manifolds 6.000 psi & 10.000 psi

This series of two-valve manifolds combines valves into one block to perform isolation, bleed and calibration of pressure transmitters, gauges and switches. Process, Instrument and Vent connections can be provided in a variety of sizes and threaded forms including NPT, BSPT and BSPP. Several models of brackets are supplied to allow the installation both in site and on panels.

Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
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<tr>
<th>Order code</th>
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<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>L</th>
<th>Orifice</th>
<th>Weight</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Inlet</td>
<td>Outlet</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2151CBAHHBA</td>
<td>1/4 &quot; Flanged</td>
<td>32.00</td>
<td>63.00</td>
<td>70.00</td>
<td>40.00</td>
<td>18.00</td>
<td>55.00</td>
<td>41.40</td>
<td>188.00</td>
<td>124.00</td>
<td>4.00 Kg.</td>
<td>1.35</td>
</tr>
<tr>
<td>2151CDAHHBA</td>
<td>1/2 &quot; Flanged</td>
<td>32.00</td>
<td>63.00</td>
<td>70.00</td>
<td>40.00</td>
<td>18.00</td>
<td>55.00</td>
<td>41.40</td>
<td>188.00</td>
<td>124.00</td>
<td>4.00 Kg.</td>
<td>1.35</td>
</tr>
</tbody>
</table>

Note: For 10,000 psi version select “D” as first letter of the code, i.e. 2151DBAHHBAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- no. 2 carbon steel screws
- no. 1 plug
- no. 1 PTFE gasket

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www.sami-instruments.com
Two Valve Manifolds 6.000 psi & 10.000 psi / 90°

This series of two-valve manifolds combines valves into one block to perform isolation, bleed and calibration of pressure transmitters, gauges and switches. Process, Instrument and Vent connections can be provided in a variety of sizes and threaded forms including NPT, BSPT and BSPP. Several models of brackets are supplied to allow the installation both in site and on panels.

Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Order code</th>
<th>Connections</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Orifice</th>
<th>Weight</th>
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<tbody>
<tr>
<td>2250CBABABAA</td>
<td>1/4&quot;</td>
<td>30.00</td>
<td>60.00</td>
<td>50.00</td>
<td>109.00</td>
<td>119.00</td>
<td>4.00 Kg. 1.35</td>
<td></td>
</tr>
<tr>
<td>2250CDADABAA</td>
<td>1/2&quot;</td>
<td>30.00</td>
<td>60.00</td>
<td>50.00</td>
<td>109.00</td>
<td>119.00</td>
<td>4.00 Kg. 1.35</td>
<td></td>
</tr>
</tbody>
</table>

Note: For 10,000 psi version select "D" as first letter of the code, i.e. 2250DBABABAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories: - Plug
Two Valve Manifolds 6.000 psi & 10.000 psi / 90°

This series of two-valve manifolds combines valves into one block to perform isolation, bleed and calibration of pressure transmitters, gauges and switches. Process, Instrument and Vent connections can be provided in a variety of sizes and threaded forms including NPT, BSPT and BSPP. Several models of brackets are supplied to allow the installation both in site and on panels.

### Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

### Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

### Table

<table>
<thead>
<tr>
<th>Order code</th>
<th>Connections</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>Orifice</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2350CBAHHBAA</td>
<td>1/4&quot; Flanged</td>
<td>32.00</td>
<td>70.00</td>
<td>65.00</td>
<td>27.00</td>
<td>12.00</td>
<td>30.00</td>
<td>18.00</td>
<td>172.00</td>
<td>4.00 Kg</td>
<td>1.28</td>
</tr>
<tr>
<td>2350CDAHHBAA</td>
<td>1/2&quot; Flanged</td>
<td>32.00</td>
<td>70.00</td>
<td>65.00</td>
<td>27.00</td>
<td>12.00</td>
<td>30.00</td>
<td>18.00</td>
<td>172.00</td>
<td>4.00 Kg</td>
<td>1.28</td>
</tr>
</tbody>
</table>

Note: For 10,000 psi version select “D” as first letter of the code, i.e. 2350DBAHHBAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- no. 2 carbon steel screws
- no. 1 plugs
- no. 1 PTFE gaskets

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info@sami-instruments.com  
www.sami-instruments.com
Two Valve Manifolds 6.000 psi & 10.000 psi / Forged

This series of two-valve manifolds combines valves into one block to perform isolation, bleed and calibration of pressure transmitters, gauges and switches. Process, Instrument and Vent connections can be provided in a variety of sizes and threaded forms including NPT, BSPT and BSPP. Several models of brackets are supplied to allow the installation both in site and on panels.

Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications
- Pressure up to 10,000 Psi ( 690 Bar )
- Temperature rating PTFE packing from –73°C to +210°C ( -99°F / + 410°F )
- Temperature rating GRAPHOIL packing from –54°C to + 510°C ( -65°F / + 950°F )
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

Order code | Connections | A | B | C | Orifice | Weight
------------|-------------|---|---|---|---------|-------
2450CBAABAAA | 1/4 " | 1/4 " | 70.00 | 109.00 | 112.00 | 4.00 Kg. | 1.28
2450CDADABAA | 1/2 " | 1/2 " | 70.00 | 109.00 | 112.00 | 4.00 Kg. | 1.28

Note: For 10,000 psi version select “D” as first letter of the code, i.e. 2450DBABABAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75
Three Valve Manifolds 6.000 psi & 10.000 psi

The Three Valve Manifolds, that concentrate the functions of interception and balancing in a single block, are used with differential pressure transmitters. They are designed to allow both direct and remote mounting.

Mounting brackets are available on demand.

Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Order code</th>
<th>Connections</th>
<th>Inlet</th>
<th>Outlet</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E-F</th>
<th>G</th>
<th>Orifice</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000CBABABAA</td>
<td>1/4 &quot;</td>
<td>1/4 &quot;</td>
<td></td>
<td>30.00</td>
<td>104.00</td>
<td>50.00</td>
<td>217.00</td>
<td>54.00</td>
<td>22.00</td>
<td>4.00</td>
<td>Kg. 1.75</td>
</tr>
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</table>

Note: For 10,000 psi version select “D” as first letter of the code, i.e. 3000DBABABAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75
Three Valve Manifolds 6.000 psi & 10.000 psi

The Three Valve Manifolds, that concentrate the functions of interception and balancing in a single block, are used with differential pressure transmitters. They are designed to allow both direct and remote mounting.

Mounting brackets are available on demand.

Features

- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications

- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
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<tr>
<th>Order code</th>
<th>Connections</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E - F</th>
<th>G</th>
<th>Orifice</th>
<th>Weight</th>
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<tbody>
<tr>
<td>3001CDADABAA</td>
<td>Inlet 1/2 &quot;</td>
<td>30.00</td>
<td>110.00</td>
<td>50.00</td>
<td>223.00</td>
<td>54.00</td>
<td>40.00</td>
<td>4.00</td>
<td>1.45</td>
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<td>Outlet 1/2 &quot;</td>
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<td></td>
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<td></td>
<td></td>
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</tbody>
</table>

Note: For 10,000 psi version select "D " as first letter of the code,

i.e. 3001DDADABAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75
Three Valve Manifolds 6.000 psi & 10.000 psi

The Three Valve Manifolds, that concentrate the functions of interception and balancing in a single block, are used with differential pressure transmitters. They are designed to allow both direct and remote mounting. Mounting brackets are available on demand.

Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

### Order code

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<tr>
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<th>L</th>
<th>Orifice</th>
<th>Weight</th>
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<td>Inlet</td>
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<td>4.00</td>
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<tr>
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<td>32.00</td>
<td>96.00</td>
<td>70.00</td>
<td>54.00</td>
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<td>41.40</td>
<td>124.00</td>
<td>214.00</td>
<td>4.00</td>
</tr>
</tbody>
</table>

Note: For 10,000 psi version select “D” as first letter of the code, i.e. 3050DBAHBAA
Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- no. 4 carbon steel screws
- no. 2 PTFE gaskets

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www.sami-instruments.com
Rev. 0 - 2015
Three Valve Manifolds 6.000 psi & 10.000 psi

The Three Valve Manifolds, that concentrate the functions of interception and balancing in a single block, are used with differential pressure transmitters. They are designed to allow both direct and remote mounting. Mounting brackets are available on demand.

**Features**
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

**Specifications**
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (–99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (–65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Order code</th>
<th>Connections</th>
<th>Inlet</th>
<th>Outlet</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>L</th>
<th>Orifice</th>
<th>Weight</th>
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<tbody>
<tr>
<td>3100CBABABAA</td>
<td>1/4&quot; 1/4&quot;</td>
<td>30.00</td>
<td>104.00</td>
<td>50.00</td>
<td>54.00</td>
<td>54.00</td>
<td>74.00</td>
<td>22.0</td>
<td>16.00</td>
<td>217.00</td>
<td>4.00</td>
<td>Kg. 2.03</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: For 10,000 psi version select “D” as first letter of the code, i.e. 3100DBABABAA

Included accessories:
- Plug

Material of construction can be supplied to meet the requirements of NACE MR 01-75
Three Valve Manifolds 6.000 psi & 10.000 psi

The Three Valve Manifolds, that concentrate the functions of interception and balancing in a single block, are used with differential pressure transmitters. They are designed to allow both direct and remote mounting. Mounting brackets are available on demand.

**Features**

- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

**Specifications**

- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from −73°C to +210°C (−99°F / +410°F)
- Temperature rating GRAPHOIL packing from −54°C to +510°C (−65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

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**Order code**

<table>
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<tr>
<th>Connections</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>L</th>
<th>M</th>
<th>Orifice</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3150CBAHHBAA</td>
<td>1/4 &quot; Flanged</td>
<td>32.00</td>
<td>106.00</td>
<td>70.00</td>
<td>84.00</td>
<td>54.00</td>
<td>35.00</td>
<td>30.0</td>
<td>41.40</td>
<td>224.00</td>
<td>124</td>
<td>4.00 Kg</td>
</tr>
<tr>
<td>3150CDAHHBAA</td>
<td>1/2 &quot; Flanged</td>
<td>32.00</td>
<td>106.00</td>
<td>70.00</td>
<td>84.00</td>
<td>54.00</td>
<td>35.00</td>
<td>30.0</td>
<td>41.40</td>
<td>224.00</td>
<td>124</td>
<td>4.00 Kg</td>
</tr>
</tbody>
</table>

Note: For 10,000 psi version select "D " as first letter of the code, i.e. 3150DBAHHBAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- no. 4 carbon steel screws
- no. 2 plugs
- no. 2 PTFE gaskets

---

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www.sami-instruments.com
Rev. 0 - 2015
Three Valve Manifolds 6.000 psi & 10.000 psi

The Three Valve Manifolds, that concentrate the functions of interception and balancing in a single block, are used with differential pressure transmitters. They are designed to allow both direct and remote mounting. Mounting brackets are available on demand.

Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

Order code | Connections | A  | B  | C  | D  | E  | F  | G  | H  | L  | Orifice | Weight |
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
3250CBAHHBAA | 1/4" Flanged | 32.00 | 120.00 | 70.00 | 54.00 | 41.40 | 90.00 | 30.0 | 91.00 | 238.00 | 4.00 Kg | 2.39 |
3250CDAHHBAA | 1/2" Flanged | 32.00 | 106.00 | 70.00 | 84.00 | 54.00 | 35.00 | 30.0 | 41.40 | 224.00 | 4.00 Kg | 2.39 |

Note: For 10,000 psi version select “D” as first letter of the code, i.e. 3250DBAHHBAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- no. 4 carbon steel screws
- no. 2 PTFE gaskets
Three Valve Manifolds 6.000 psi & 10.000 psi / Forged

The three Valve manifolds are used with differential pressure transmitters. In a single block the functions of interception and balancing are gathered. They are designed to allow both direct and remote mounting. Mounting brackets are available on demand.

**Features**
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

**Specifications**
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Order code</th>
<th>Connections</th>
<th>Inlet</th>
<th>Outlet</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Orifice</th>
<th>Weight</th>
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<td></td>
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<td>73.00</td>
<td>4.00</td>
<td>Kg. 2.40</td>
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<tr>
<td>3452CDAHHBAA</td>
<td>1/2 &quot;</td>
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<td>54.00</td>
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<td>Kg. 2.40</td>
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Note: For 10,000 psi version select “D” as first letter of the code, i.e. 3452DBAHHBAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- no. 4 carbon steel screws
- no. 2 PTFE gaskets
Three Valve Manifolds 6.000 psi & 10.000 psi / Forged

The Three Valve Manifolds, that concentrate the functions of interception and balancing in a single block, are used with differential pressure transmitters. They are designed to allow both direct and remote mounting.

Mounting brackets are available on demand.

### Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

### Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (-99°F / + 410°F)
- Temperature rating GRAPHOIL packing from –54°C to + 510°C (-65°F / + 950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

### Order code

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<th>A</th>
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<th>C</th>
<th>D</th>
<th>Orifice</th>
<th>Weight</th>
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<tr>
<td>Outlet</td>
<td></td>
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<td>4.00 Kg. 2.40</td>
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<table>
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<th>Inlet</th>
<th>Outlet</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Orifice</th>
<th>Weight</th>
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<td>54.00</td>
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<td>Flanged</td>
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<td>54.00</td>
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<td>4.00 Kg. 2.40</td>
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</tr>
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</table>

Note: For 10,000 psi version select “D” as first letter of the code, i.e. 3451QBAHHBAA

Included accessories:
- no. 4 carbon steel screws
- no. 2 PTFE gaskets

Material of construction can be supplied to meet the requirements of NACE MR 01-75
**Features**

- **Tee bar easy manoeuvrability with minimum effort**
- **PTFE packing standard, optional graphoil**
- **Stainless steel construction as standard, optional:** See material list
- **Colour coded functional identification**
- **Externally adjustable gland**
- **Variety of end connections**
- **Dust cap to prevent contaminations on the operating thread**

**Specifications**

- **Pressure up to 10,000 Psi (690 Bar)**
- **Temperature rating:**
  - PTFE packing from -73°C to 210°C
  - GRAPHOIL packing from -54°C to 510°C
- **Standard orifice diameter 4.0 mm**
- **Standard 316L stainless steel**
- **Order code**
  - Flanged connections
  - Flanged inlet
  - Flanged outlet
  - Weight

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<th>Code</th>
<th>Details</th>
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<td>C</td>
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<tr>
<td>E</td>
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</table>

**Note:** For 10,000 psi version select "D" as first letter of the code, i.e. 345DHHIBBA. Material of construction can be supplied to meet the requirements of NACE MR 01-75.

---

**Three Valve Manifolds 6,000 psi & 10,000 psi: Forged**

The three valve manifolds, that concentrate the functions of interception and balancing in a single block, are used with differential pressure transmitters. They are designed to allow both direct and remote mounting.
Three Valve Manifolds 6.000 psi & 10.000 psi / Coplanar

The Three Valve Manifolds, that concentrate the functions of interception and balancing in a single block, are used with differential pressure transmitters. They are designed to allow both direct and remote mounting. Mounting brackets are available on demand.

Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional Graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from −73°C to +210°C (−99°F / +410°F)
- Temperature rating Graphoil packing from −54°C to +510°C (−65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Order code</th>
<th>Connections</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Orifice</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>3550CBAHLBA</td>
<td>1/4 &quot; Coplanar</td>
<td>130.00</td>
<td>70.00</td>
<td>54.00</td>
<td>41.30</td>
<td>85.00</td>
<td>129.00</td>
<td>235.00</td>
<td>4.00 Kg</td>
<td>2.45</td>
</tr>
<tr>
<td>3550CDXHLBA</td>
<td>1/2 &quot; Coplanar</td>
<td>130.00</td>
<td>70.00</td>
<td>54.00</td>
<td>41.30</td>
<td>85.00</td>
<td>129.00</td>
<td>235.00</td>
<td>4.00 Kg</td>
<td>2.45</td>
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</tbody>
</table>

Note: For 10,000 psi version select "D" as first letter of the code, i.e. 3550DBAHLBAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75
Five Valve Manifolds 6.000 psi & 10.000 psi

The Five Valve Manifolds that concentrate in a single block the functions of interception, balancing and drain, are designed to allow both direct and remote mounting. Mounting brackets are available on demand.

Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (–99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (–65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

Order code | Connections | A | B | C | D | E | F | G | H | I | L | M | Orifice | Weight
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
5000CBABABAA | 1/4 " | 1/4 " | 32.00 | 70.00 | 142.00 | 129.00 | 260.00 | 110.00 | 75.00 | 54.00 | 30.00 | 20.00 | 41.00 | 4.00 Kg. 2.80 |
5000CDADABAA | 1/2 " | 1/2 " | 32.00 | 70.00 | 142.00 | 129.00 | 260.00 | 110.00 | 75.00 | 54.00 | 30.00 | 20.00 | 41.00 | 4.00 Kg. 2.80 |

Note: For 10,000 psi version select "D" as first letter of the code, i.e. 5000DBABABABAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- Plugs
**Features**

- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

**Specifications**

- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from −73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from −54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

---

**Order Code**

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Connections</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>L</th>
<th>M</th>
<th>Orifice</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>5050CBAHHBA</td>
<td>1/4&quot; Flanged</td>
<td>32.00</td>
<td>142.00</td>
<td>70.00</td>
<td>102.00</td>
<td>54.00</td>
<td>41.40</td>
<td>30.00</td>
<td>124.00</td>
<td>260.00</td>
<td>10.50</td>
<td>16.00</td>
<td>4.00</td>
<td>Kg 2.80</td>
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<tr>
<td>5050CDAHHBA</td>
<td>1/2&quot; Flanged</td>
<td>32.00</td>
<td>142.00</td>
<td>70.00</td>
<td>102.00</td>
<td>54.00</td>
<td>41.40</td>
<td>30.00</td>
<td>124.00</td>
<td>260.00</td>
<td>10.50</td>
<td>16.00</td>
<td>4.00</td>
<td>Kg 2.80</td>
</tr>
</tbody>
</table>

**Note:** For 10,000 psi version select "D " as first letter of the code, i.e. 5050DBAHHBA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

**Included accessories:**
- no. 4 carbon steel screws
- no. 2 plugs
- no. 2 PTFE gaskets

---

**FLOW**

**Five Valve Manifolds 6.000 psi & 10.000 psi**

The Five Valve Manifolds that concentrate in a single block the functions of interception, balancing and drain, are designed to allow both direct and remote mounting. Mounting brackets are available on demand.
**Features**

- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

**Specifications**

- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from -73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from -54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

---

**Order code**

<table>
<thead>
<tr>
<th>Connections</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>L</th>
<th>Orifice</th>
<th>Weight</th>
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<tbody>
<tr>
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<td>148.00</td>
<td>90.00</td>
<td>54.00</td>
<td>41.40</td>
<td>40.00</td>
<td>91.0</td>
<td>118.0</td>
<td>258.00</td>
<td>4.00 Kg. 2.70</td>
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<tr>
<td>5150CDAHIBAA</td>
<td>1/2&quot; Flanged 32.00</td>
<td>148.00</td>
<td>90.00</td>
<td>54.00</td>
<td>41.40</td>
<td>40.00</td>
<td>91.0</td>
<td>118.0</td>
<td>258.00</td>
<td>4.00 Kg. 2.70</td>
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</table>

Note: For 10,000 psi version select "D " as first letter of the code, i.e. 5150DBAHIBAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- no. 4 carbon steel screws
- no. 2 plugs
- no. 2 PTFE gaskets

---

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di Campodarsego • PO • Italy

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Fax +39 049 9217549
info@sami-instruments.com
www.sami-instruments.com
Five Valve Manifolds 6.000 psi & 10.000 psi

The Five Valve Manifolds that concentrate in a single block the functions of interception, balancing and drain, are designed to allow both direct and remote mounting. Mounting brackets are available on demand.

**Features**
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

**Specifications**
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from –73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from –54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Order code</th>
<th>Connections</th>
<th>Inlet</th>
<th>Outlet</th>
<th>A</th>
<th>B</th>
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<th>D</th>
<th>E</th>
<th>F</th>
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<th>H</th>
<th>L</th>
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<td>260.00</td>
<td>4.00</td>
<td>Kg</td>
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Note: For 10,000 psi version select "D" as first letter of the code, i.e. 5450DBAHBBA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- no. 4 carbon steel screws
- no. 2 plugs
- no. 2 PTFE gaskets

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www.sami-instruments.com

Rev. 0 - 2015
Five Valve Manifolds
6,000 psi & 10,000 psi

The Five Valve Manifolds that concentrate in a single block the functions of interception, balancing and drain, are designed to allow both direct and remote mounting. Mounting brackets are available on demand.

Features
- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional graphoil
- Stainless steel construction as standard, optional: See material list
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread

Specifications
- Pressure up to 10,000 Psi (690 Bar)
- Temperature rating PTFE packing from -73°C to +210°C (-99°F / +410°F)
- Temperature rating GRAPHOIL packing from -54°C to +510°C (-65°F / +950°F)
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Order code</th>
<th>Connections</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>Orifice</th>
<th>Weight</th>
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<td>Kg. 2.70</td>
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<tr>
<td>5600CDAAHHBAA</td>
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<td>32.00</td>
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<td>110.00</td>
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<td>41.40</td>
<td>30.00</td>
<td>255.0</td>
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<td>4.00</td>
<td>Kg. 2.70</td>
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</tbody>
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Note: For 10,000 psi version select "D" as first letter of the code, i.e. 5600DBAAHHBAA

Material of construction can be supplied to meet the requirements of NACE MR 01-75

Included accessories:
- no. 4 carbon steel screws
- no. 2 plugs
- no. 2 PTFE gaskets
Needle valve soft seat type NV1

SAMI’s soft seat needle valves are designed for natural gas applications, where precision in regulation and high quality performances are required.

SAMI’s NV1 soft seated needle valves fully comply with ASME B31.3 and B31.1 in terms of pressure tests (shell test and seat test) and structural design.

Our NV1 needle valves also ensure zero leakage thanks to their soft seat design. The NV1 series is available in several soft seat materials (PEEK, Kel-F, Delrin) or in metal seat, always ensuring the highest reliability in terms of seal.

Its main applications include sampling system, gas chromatography, test bench, pressure regulation and pressure control from upstream to downstream.

FEATURES

- Pressure rating: 6,000 PSI (414 barg);
- Temperature range: -29/+200°C (-20/+392°F);
- Material: 100% AISI 316;
- Soft seated or metal seated;
- Low operating torque up to MAWP;
- Blow out proof stem;
- Optionals:
  - Lox cleaning;
  - Red aluminium handle;
  - Carbon steel or stainless steel handle;
  - T-bar handle;
  - Monel, Inconel or Hastelloy trim;
  - Male/male or male/female connections;
  - PEEK, Delrin or Kel-F seat.
Metering Needle Valves

Needle valve soft seat type NV1

**Optional Connections**

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<tr>
<th>No.</th>
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<td>PTFE</td>
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<tr>
<td>2</td>
<td>Body O-Ring</td>
<td>Viton</td>
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<tr>
<td>3</td>
<td>Bonnet body</td>
<td>AISI 316L</td>
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<td>4</td>
<td>Bonnet O-Ring</td>
<td>Viton</td>
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<tr>
<td>5</td>
<td>Bushing</td>
<td>AISI 316L</td>
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<tr>
<td>6</td>
<td>Nut</td>
<td>Aluminum</td>
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<tr>
<td>7</td>
<td>ISOLATE Cap</td>
<td>Hytrel BLUE</td>
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<tr>
<td>8</td>
<td>SCREW SET UNIT 5925 M6X12</td>
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<tr>
<td>9</td>
<td>Soft seat</td>
<td>KEL-F PTFE</td>
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<tr>
<td>10</td>
<td>Stem</td>
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<tr>
<td>11</td>
<td>Valve body</td>
<td>AISI 316L</td>
</tr>
</tbody>
</table>

* Optional seat material: DELRIN/PEEK

**Tables**

<table>
<thead>
<tr>
<th>Code</th>
<th>Type</th>
<th>Connections</th>
<th>Inlet Size</th>
<th>Inlet Type</th>
<th>Outlet Size</th>
<th>Outlet Type</th>
<th>Material</th>
<th>Packing</th>
<th>Seat</th>
<th>Bore</th>
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<tbody>
<tr>
<td>NV1FFBABABVK</td>
<td>NV1</td>
<td>FEM-FEM</td>
<td>1/4&quot;</td>
<td>NPT</td>
<td>1/4&quot;</td>
<td>NPT</td>
<td>AISI 316L</td>
<td>VITON</td>
<td>KEL-F</td>
<td>3mm</td>
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<td>FEM-FEM</td>
<td>1/4&quot;</td>
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<td>AISI 316L</td>
<td>VITON</td>
<td>METAL</td>
<td>3mm</td>
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</table>
Cartridge metering needle valve type CMV - 1/4"

SAMI’s cartridge metering needle valves are designed for hydraulic application especially with high pressure and viscous fluids.

SAMI’s cartridge valve allows great accuracy in the regulation of fluid, thanks to the shape of its needle and the openings of the valve.

As standard, the wetted parts of the valve are 100% made of stainless steel to prevent corrosion and to support heavy duty application. The handle material is anodized aluminium.

All our cartridge needle series include coloured indicators on the stem which allow the operator to identify immediately the exact percentage of opening of the valve.

SAMI’s cartridge valves have been functionally tested up to the maximum allowable working pressure with excellent results in manoeuvrability and internal sealing.

**FEATURES**

- Temperature range: -20/+200°C (-4/+392°F)
- Position indicators on the handle;
- Valve opening visual indicator;
- Tested at 1.5 times the design pressure;
- 100% stainless steel;
- Smooth operation up to 5,000 PSI (345 barg);
- Excellent manoeuvrability at MAWP.
Cartridge Needle Valves

Cartridge metering needle valve type CMV - 1/4 "

Seat machining for Cartridge Valve

<table>
<thead>
<tr>
<th>No</th>
<th>DESCRIPTION</th>
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<th>GTY</th>
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<tr>
<td>1</td>
<td>Back up ring - stem</td>
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<td>2</td>
<td>Back-up ring - body</td>
<td>PTFE</td>
<td>2</td>
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<td>3</td>
<td>Body O-RING</td>
<td>NBR</td>
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<tr>
<td>4</td>
<td>Gasket bushing</td>
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<td>5</td>
<td>Handle</td>
<td>Anodized aluminium</td>
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<td>6</td>
<td>Head cap screws M4</td>
<td>M4 - AISI 304L</td>
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<td>7</td>
<td>Locking nut</td>
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<td>Lower body O-RING</td>
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<td>9</td>
<td>Metal ring</td>
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<td>10</td>
<td>Plain washer M4 screw</td>
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<tr>
<th>CODE</th>
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<th>MATERIAL</th>
<th>RATING</th>
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<tr>
<td>CMVANSA</td>
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<td>NBR</td>
<td>STANDARD 30°</td>
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Special Items

Distribution and control panel

15,000 psi Double Block & Bleed

Distributors

Double Block & Bleed

Safety systems
<table>
<thead>
<tr>
<th>Flanged/Flanged Needle Valves</th>
<th>Socket Weld Version</th>
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<td><img src="image1.png" alt="Flanged/Flanged Needle Valves" /></td>
<td><img src="image2.png" alt="Socket Weld Version" /></td>
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<td>Distributors</td>
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<th>O.S.&amp;.Y. Needle Valves</th>
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<td><img src="image4.png" alt="Flanged Valves" /></td>
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SAMI instruments srl  
via Botte, 8  
35011 Reschigliano  
di Campodarsego - PD - Italy

tel. +39 049 9201939  
fax +39 049 9217549  
info@sami-instruments.com  
www.sami-instruments.com
Brackets

Two Valve Manifolds
Model: A0540-06-01

Two Valve Manifolds
Model: A0540-11-01

Two Valve Manifolds
Model: A0540-10-01

Two Valve Manifolds
Model: A0540-08-01

Three Valve Manifolds
Model: A0540-04-01

Five Valve Manifolds
Model: A0540-04-01

Three Valve Manifolds
Model: A0540-07-01

Three Valve Manifolds
Model: A0540-04-01

Code (Material 316L) Mounted on Manifolds:

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<tr>
<th>Code</th>
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<td>A0540-06-01</td>
<td>Bracket Kit for Manifolds 2015-2017</td>
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<td>A0540-08-01</td>
<td>Bracket Kit for Manifold 2150 (M2L)</td>
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<tr>
<td>A0540-09-01</td>
<td>Bracket Kit for Manifold 3451</td>
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<tr>
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<td>Bracket Kit for Manifolds 3001-2015-2017</td>
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<td>Bracket Kit for Manifold 2152</td>
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<td>Horiz. Bracket Kit for Forged 5 Valve Manifold</td>
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<td>A0540-34-01</td>
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