Needle and Manifold Valves
Needle Valve

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 Graphite
- Stainless steel costruction as standard, optional: carbon steel LF2, Duplex, Super Duplex, Monel 400, Hastelloy C276, etc.
- Colour coded functional identification
- Externally adjustable gland
- Variety of end connections
- Dust cap to prevent contaminations on the operating thread.

Standards and specifications:

- API 598 Valve Inspection and Testing
- ASME B16.34 Valves – Flanged, Threaded and Welding End
- ISO 5208 Industrial valves -- Pressure testing of metallic valves
- MSS SP-25 Standard Marking Systems for Valves, Fittings and Unions
- MSS SP-61 Pressure Testing of Valves
- MSS SP-99 Instrument Valves
- MSS SP-105 Instrument Valves for Code Applications
- NACE MR0175 / ISO 15156 Petroleum and Natural Gas Industries – Materials for use in H2S-Containing environments in oil and gas production
- NORSOK M630 Material data sheets and element data sheets for piping

<table>
<thead>
<tr>
<th>BILL OF MATERIALS</th>
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<tr>
<td>T-BAR</td>
<td>AISI 304 (optional 316L)</td>
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<td>DUST CAP</td>
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<td>PACKING GLAND</td>
<td>AISI 316L</td>
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<td>LOCK NUT</td>
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<td>NON-ROTATING NEEDLE</td>
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<td>SEAL BUSH</td>
<td>AISI 316L</td>
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<tr>
<td>PACKING (NEEDLE)</td>
<td>PTFE / GRAPHITE</td>
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<tr>
<td>BONNET BODY</td>
<td>AISI 316L</td>
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<td>SEAL RING</td>
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<td>LOCKING PIN</td>
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</table>
Needle Valve

Locking Devices and Anti-Tamper

A wide range of locking devices is available on our products

*Locking Device*

**Lockable Anti-Tamper**

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

*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.
Needle and Manifold valves

Needle Valve

Features

- All Valves are 100% factory tested.
- NACE MR01.75 certified wetted parts available upon request.
- 3.1 certificate and pressure test for valve body included in our standard supply (optional: 3.1 certificate for all wetted parts).
- Optional cleaning and lubrication suitable for Oxygen service.

Pressure/Temperature chart

![Pressure/Temperature chart image]
Needle and Manifold valves

Ordering Information - Needle Valves

Needle valves and manifolds are available in a variety of materials and end connections. Pressure from 6000 Psi (420 Bar) up to 10,000 Psi (690 Bar). Temperature rating PTFE packing from –54°C to + 204°C (-65°F / + 400°F). Temperature rating GRAPHITE packing from –54°C to + 538°C (-65°F / + 1000°F).

<table>
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<tr>
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<th>RATING</th>
<th>INLET</th>
<th>OUTLET</th>
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</table>

Other materials available on request

OPTIONS

Q All bonnets locking device
R Isolate Anti-tamper
X Handle bar in 316/316L

L Oxygen Cleaning
P Panel Mounting
1000 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
- IN: FEMALE 1/4"...1"
- OUT: FEMALE 1/4"...1"
- MATERIAL: AISI 316L
- BAR STOCK BODY

### Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from −54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from −54°C to +538°C (-65°F / 1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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<td>316L</td>
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<td>A=PTFE ; B= Graphite*</td>
<td>316L</td>
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<td>1000GAGABA</td>
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<td>NPT-F</td>
<td>A=PTFE ; B= Graphite*</td>
<td>316L</td>
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</table>

* = Graphite only available up to 6.000 psi
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
- IN: FEMALE; 1/4”…1/2”
- OUT: FEMALE 1/4”…1/2”
- MATERIAL: AISI 316L
- BAR STOCK BODY
- WITH BLEEDER M8X1

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

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<tr>
<th>Item</th>
<th>Rating</th>
<th>In Size</th>
<th>Out Size</th>
<th>Packing</th>
<th>Material</th>
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<td>1/4” NPT-F</td>
<td>A=PTFE B= Graphite*</td>
<td>316L</td>
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<tr>
<td>1050CDADABAA</td>
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<td>1/2” NPT-F</td>
<td>1/2” NPT-F</td>
<td>A=PTFE B= Graphite*</td>
<td>316L</td>
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</tbody>
</table>

* = Graphite only available up to 6,000 psi

Included accessories:
- no. 1 bleeder plug
1100 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
- IN : FEMALE ; 1/4”...1/2”
- OUT : FEMALE 1/4”... 1/2”
- MATERIAL: AISI 316L
- BAR STOCK BODY
- DRAIN 1/4” NPT-F WITH PLUG

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from –54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from −54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

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<th>Packing</th>
<th>Material</th>
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<td>1100CDADABAA</td>
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<td>A=PTFE, B=Graphite*</td>
<td>316L</td>
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* = Graphite only available up to 6,000 psi

Included accessories:
- no. 1 drain plug
**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**
- **IN**: THREADED MALE; 1/4"…1/2"
- **OUT**: THREADED FEMALE 1/4"… 1/2"
- **MATERIAL**: AISI 316L
- **BAR STOCK BODY**

**Specifications**
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from –54°C to +204°C (-65°F / + 400°F)
- Temperature rating GRAPHITE packing from –54°C to + 538°C (-65°F / + 1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

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<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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<td>C=6k; D=10k</td>
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<td>1/4&quot; NPT-F</td>
<td>A=PTFE B= Graphite*</td>
<td>316L</td>
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<td><strong>1150CDADABAA</strong></td>
<td>C=6k; D=10k</td>
<td>1/2&quot; NPT-M</td>
<td>1/2&quot; NPT-F</td>
<td>A=PTFE B= Graphite*</td>
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* = Graphite only available up to 6,000 psi
Needle and Manifold valves

1200 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
- IN : THREADED MALE ; 1/4"...1/2"
- OUT : THREADED FEMALE 1/4"... 1/2"
- MATERIAL: AISI 316L
- BAR STOCK BODY
- WITH BLEEDER M8X1

Specifications
- Pressure up to 10,000 Psi ( 689 Bar )
- Temperature rating PTFE packing from –54°C to +204°C (-65°F / + 400°F )
- Temperature rating GRAPHITE packing from –54°C to + 538° C (-65°F / + 1000°F ), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

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<th>Material</th>
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<td></td>
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<td>B= Graphite*</td>
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Included accessories:
- no. 1 bleeder plug

* = Graphite only available up to 6,000 psi
1201 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 maneuverability.

**Features**
- IN : THREADED MALE
- OUT : THREADED FEMALE - SWIVEL
- MATERIAL: AISI 316L
- BAR STOCK BODY
- WITH BLEEDER M8x1

**Specifications**
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

<table>
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<tr>
<th>Item</th>
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Included accessories:
- no. 1 bleeder plug
Needle and Manifold valves

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
- IN : MALE ; 1/4”…1/2”
- OUT : FEMALE 1/4”… 1/2”
- MATERIAL: AISI 316L
- BAR STOCK BODY
- DRAIN 1/4” NPT-F WITH PLUG

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

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<th>Packing</th>
<th>Material</th>
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<tr>
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Included accessories:
- no. 1 drain plug

* = Graphite only available up to 6,000 psi
1300 Series

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
- **IN**: MALE; 1/2”...3/4”
- **OUT**: 3 PORTS FEMALE 1/2”
- **MATERIAL**: AISI 316L
- **BAR STOCK BODY**
- 2ND PORT 1/2” NPT-F WITH PLUG
- 3RD PORT 1/2” NPT-F WITH BLEEDER

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from −54° C to +204°C (−65°F / +400°F)
- Temperature rating GRAPHITE packing from −54°C to +538°C (−65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

<table>
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<td>NPT-F</td>
<td>B= Graphite*</td>
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</table>

Included accessories:
- no. 1 bleeder plug
- no. 1 drain plug

*= Graphite only available up to 6,000 psi
1304 Series

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
- IN : FEMALE; 1/2”
- OUT : 3 PORTS FEMALE 1/2”
- MATERIAL: AISI 316L
- BAR STOCK BODY
- 2ND PORT 1/2” NPT-F WITH PLUG
- 3RD PORT 1/2” NPT-F WITH BLEEDER

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from –54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from –54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

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<td>1/2” NPT-F</td>
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</tbody>
</table>

Included accessories:
- no. 1 bleeder plug
- no. 1 drain plug

* = Graphite only available up to 6,000 psi
1400 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
- IN : 1/2" NPT-F
- OUT : 1/2 NPT-F
- MATERIAL: AISI 316L
- BAR STOCK BODY
- DRAIN: M8 WITH PLUG

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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<tbody>
<tr>
<td>1400CDADABAA</td>
<td>C=6k; D=10k</td>
<td>1/2&quot;</td>
<td>1/2&quot;</td>
<td>A=PTFE</td>
<td>316L</td>
</tr>
</tbody>
</table>

Included accessories:
- no. 1 drain plug

* = Graphite only available up to 6,000 psi
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
- **IN**: MALE 1/2"
- **OUT**: FEMALE 1/2"
- **MATERIAL**: AISI 316L
- **BAR STOCK BODY**
- **WITH BLEEDER M8**
- **WITH TEST FLANGE Ø40**

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

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<thead>
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<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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<tbody>
<tr>
<td>1450CDADABA</td>
<td>C=6K; D=10k</td>
<td>1/2&quot; NPT-M</td>
<td>1/2&quot; NPT-F</td>
<td>A=PTFE B= Graphite*</td>
<td>316L</td>
</tr>
<tr>
<td>1450CDBBBBA</td>
<td>C=6K</td>
<td>1/2&quot; BSP-M</td>
<td>1/2&quot; BSP-F</td>
<td>A=PTFE B= Graphite*</td>
<td>316L</td>
</tr>
</tbody>
</table>

Included accessories:
- no. 1 drain plug

* = Graphite only available up to 6,000 psi
1550 Series

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

Features
- IN : FEMALE 1/2"
- OUT:  FEMALE 1/2"
- MATERIAL: AISI 316L
- BAR STOCK BODY

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from −54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from −54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

<table>
<thead>
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<th>Item</th>
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<td></td>
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<td>NPT-F</td>
<td>NPT-F</td>
<td>B=Graphite*</td>
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</table>

* = Graphite only available up to 6.000 psi
1600 Series

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**
- IN : FEMALE 1/2"
- OUT:  FEMALE 1/2"
- MATERIAL: AISI 316L
- DRAIN: 1/4" NPT-F
- BAR STOCK BODY

**Specifications**
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

<table>
<thead>
<tr>
<th>Item</th>
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<th>Packing</th>
<th>Material</th>
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<tbody>
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<td>A=PTFE B= Graphite*</td>
<td>316L</td>
</tr>
</tbody>
</table>

* = Graphite only available up to 6.000 psi

**Included accessories:**
- no. 1 drain plug
1701 Series

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
- IN : MALE
- OUT: MALE - SWIVEL
- MATERIAL: AISI 316L
- BAR STOCK BODY
- CENTER TO CENTER DISTANCE : 37 MM

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

<table>
<thead>
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<th>Out Size</th>
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<th>Material</th>
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<td>1/4&quot;</td>
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<tr>
<td>1701CDBBBBA</td>
<td>C=6K</td>
<td>1/2&quot;</td>
<td>1/4&quot;</td>
<td>A=PTFE</td>
<td>316L</td>
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<tr>
<td>1701CINBBBA</td>
<td>C=6K</td>
<td>M20 X1.5 M</td>
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</table>
1702 Series

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
- IN : MALE
- OUT: MALE - SWIVEL
- MATERIAL: AISI 316L
- BAR STOCK BODY
- CENTER TO CENTER DISTANCE : 37 MM

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from –54°C to +204°C (–65°F / + 400°F)
- Temperature rating GRAPHITE packing from –54°C to +538°C (–65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

<table>
<thead>
<tr>
<th>Item</th>
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<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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</thead>
<tbody>
<tr>
<td>1702CDBDBBAA</td>
<td>C=6K</td>
<td>1/2”</td>
<td>1/2”</td>
<td>A=PTFE</td>
<td>316L</td>
</tr>
</tbody>
</table>
1703 Series

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
- IN: FEMALE
- OUT: MALE - SWIVEL
- MATERIAL: AISI 316L
- BAR STOCK BODY
- CENTER TO CENTER DISTANCE: 37 MM

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

<table>
<thead>
<tr>
<th>Item</th>
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<th>Out size</th>
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<th>Material</th>
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<tbody>
<tr>
<td>1703CDABBBAA</td>
<td>C=6K</td>
<td>1/2” NPT-F</td>
<td>1/4” BSP-M</td>
<td>A=PTFE</td>
<td>316L</td>
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</tbody>
</table>
Needle valves and manifolds are available in a variety of materials and end connections.
Pressure from 6000 Psi (420 Bar) up to 10,000 Psi (690 Bar)
Temperature rating PTFE packing from –54°C to + 204°C (-65°F / + 400°F)
Temperature rating GRAPHITE packing from –54°C to + 538°C (-65°F / + 1000°F)

### Ordering Information - Manifold Valves

<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>2000÷2450</td>
<td>Two-valve manifolds</td>
<td>B</td>
<td>3,000 PSI</td>
<td>A</td>
<td>NPT</td>
<td>A</td>
<td>D</td>
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<tr>
<td>3000÷3550</td>
<td>Three-valve manifolds</td>
<td>C</td>
<td>6,000 PSI</td>
<td>B</td>
<td>BSPP</td>
<td>A</td>
<td>A</td>
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<tr>
<td>4000÷4300</td>
<td>Four-valve manifolds</td>
<td>D</td>
<td>10,000 PSI</td>
<td>A</td>
<td>BSPT</td>
<td>A</td>
<td>A</td>
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<tr>
<td>5000÷5600</td>
<td>Five-valve manifolds</td>
<td>F</td>
<td>Ø *</td>
<td>E</td>
<td>S.W.</td>
<td>A</td>
<td>D</td>
</tr>
</tbody>
</table>

**RATING**

- B 3,000 PSI
- C 6,000 PSI
- D 10,000 PSI

**INLET**

- B 1/4” NPT
- C 3/8” BSPP
- D 1/2” BSPT
- E 3/4” S.W.
- F Ø * B.W.
- G 1” O.D.
- H Flanged IEC 61518/B
- I M20 Flanged IEC 61518/A
- L Coplanar
- N X 1,5

**MATERIAL**

- A Aisi 316 L
- B Duplex F51
- D Super Duplex F55
- E Monel 400
- G Hastelloy C276

**PACKING**

- A PTFE
- B Graphite *
- * = Not available for pressures above 6,000 psi

**BONNET**

- A Std Bonnet
- B Mini Bonnet
- C Extended Bonnet

**OPTIONS**

- D Drain/vent 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 bonnets Anti-Tamper
- L Oxygen Cleaning
- P Panel Mounting
- Q All bonnets locking device
- R Isolate Anti-Tamper
- X Handle bar in 316/316L
- J Locking device on Equalize

*Other materials available on request*
2000 Series

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
- IN: MALE 1/4" ... 1/2"
- OUT: FEMALE 1/4" ... 1/2"
- DRAIN: 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- BAR STOCK BODY

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

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<thead>
<tr>
<th>Item</th>
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<th>Out size</th>
<th>Packing</th>
<th>Material</th>
</tr>
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<tbody>
<tr>
<td>2000CBABABAA</td>
<td>C=6k; D=10k</td>
<td>1/4&quot; NPT-M</td>
<td>1/4&quot; NPT-F</td>
<td>A=PTFE B= Graphite*</td>
<td>316L</td>
</tr>
<tr>
<td>2000CDADABAA</td>
<td>C=6k; D=10k</td>
<td>1/2&quot; NPT-M</td>
<td>1/2&quot; NPT-F</td>
<td>A=PTFE B= Graphite*</td>
<td>316L</td>
</tr>
</tbody>
</table>

Included accessories:
- no. 1 drain plug

* = Graphite only available up to 6,000 psi
**2002 Series**

**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**
- IN: MALE 1/4" … 3/4"
- OUT: FEMALE 1/4" … 1/2"
- DRAIN: 1/4" NPT- F WITH PLUG
- MATERIAL: AISI 316L
- BAR STOCK BODY

**Specifications**
- Pressure up to 10,000 psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C ( -65°F / + 400°F )
- Temperature rating GRAPHITE packing from -54°C to +538°C ( -65°F / +1000°F ), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

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<th>Packing</th>
<th>Material</th>
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<tr>
<td>2002CBABABAA</td>
<td>C=6k; D=10k</td>
<td>1/4&quot; NPT-M</td>
<td>1/4&quot; NPT-F</td>
<td>A=PTFE B=Graphite*</td>
<td>316L</td>
</tr>
<tr>
<td>2002CDADABAA</td>
<td>C=6k; D=10k</td>
<td>1/2&quot; NPT-M</td>
<td>1/2&quot; NPT-F</td>
<td>A=PTFE B=Graphite*</td>
<td>316L</td>
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<tr>
<td>2002CDBDBBA</td>
<td>C=6k</td>
<td>1/2&quot; BSP-M</td>
<td>1/2&quot; BSP-F</td>
<td>A=PTFE B=Graphite*</td>
<td>316L</td>
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<tr>
<td>2002CININBA</td>
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<td>M</td>
<td>M20 X 1.5</td>
<td>F</td>
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<td>2002CINDABAA</td>
<td>C=6k; D=10k</td>
<td>M20 X 1.5</td>
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<tr>
<td>2002CEADABAA</td>
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<td>A=PTFE B=Graphite*</td>
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</tbody>
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* = Graphite only available up to 6,000 psi

**Included accessories:**
- no. 1 drain plug
2003 Series

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
- IN: FEMALE  1/2"
- OUT: MALE  1/2"
- DRAIN: 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- BAR STOCK BODY

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / + 400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

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<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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<td>1/2&quot; NPT-M</td>
<td>A=PTFE B= Graphite*</td>
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</tbody>
</table>

*= Graphite only available up to 6.000 psi

Included accessories:
- no. 1 drain plug
2015 Series

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 on site and on panels.

Features
- IN: MALE 1/2"
- OUT: FEMALE 1/2"
- DRAIN: 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- BAR STOCK BODY
- SUITABLE FOR REMOTE MOUNTING W/ BRACKET

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

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<th>Out Size</th>
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<tr>
<td>2015CDADABAA</td>
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<tr>
<td>A0540-06-01</td>
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<td>2&quot; PIPE AND WALL MOUNTING BRACKET</td>
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<td>B= Graphite*</td>
<td>316L</td>
</tr>
</tbody>
</table>

* = Graphite only available up to 6.000 psi

Included accessories:
- no. 1 drain plug
2017 Series

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
- IN : FEMALE 1/2"
- OUT: MALE 1/2"
- DRAIN : 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- BAR STOCK BODY
- SUITABLE FOR REMOTE MOUNTING W/ BRACKET

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from –54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from –54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

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<tr>
<td></td>
<td></td>
<td></td>
<td>1/2&quot;</td>
<td>B= Graphite*</td>
<td></td>
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<td>316L</td>
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</tbody>
</table>

* = Graphite only available up to 6.000 psi

Included accessories:
- no. 1 drain plug
2018 Series

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
• IN: FEMALE 1/2"
• OUT: FEMALE 1/2"
• DRAIN: 1/4" NPT-F WITH PLUG
• MATERIAL: AISI 316L
• BAR STOCK BODY
• SUITABLE FOR REMOTE MOUNTING W/ BRACKET

Specifications
• Pressure up to 10,000 Psi (689 Bar)
• Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
• Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
• Standard orifice diameter 4.0 mm
• Standard 316L stainless steel material

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<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
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<tr>
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<td>316L</td>
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<tr>
<td>A0540-06-01</td>
<td></td>
<td>2&quot; PIPE AND WALL MOUNTING BRACKET</td>
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<td>316L</td>
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</tbody>
</table>

* = Graphite only available up to 6,000 psi

Included accessories:
- no. 1 drain plug
2050 Series

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 on site and on panels.

Features
- IN: FEMALE 1/2"
- OUT: FEMALE 1/2"
- DRAIN: 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK BODY
- SUITABLE FOR REMOTE MOUNTING W/ BRACKET

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel material

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
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<tr>
<td>2050CDBDBBBAA</td>
<td>C=6k</td>
<td>1/2&quot;</td>
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<td></td>
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<td></td>
<td>B= Graphite*</td>
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<tr>
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<td>1/2&quot;</td>
<td>NPT-F</td>
<td>A=PTFE</td>
<td>316L</td>
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<td></td>
<td></td>
<td></td>
<td>B= Graphite*</td>
<td></td>
</tr>
<tr>
<td>A0540-11-01</td>
<td></td>
<td>2&quot; PIPE AND WALL MOUNTING BRACKET</td>
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<td>316L</td>
</tr>
</tbody>
</table>

* = Graphite only available up to 6.000 psi

Included accessories:
- no. 1 drain plug
2052 Series

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
- IN : FEMALE 1/4"...1/2"
- OUT: FEMALE 1/2"
- DRAIN : 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK BODY
- SUITABLE FOR REMOTE MOUNTING W/ BRACKET

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from −54°C to +204°C (−65°F / +400°F)
- Temperature rating GRAPHITE packing from −54°C to +538°C (−65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
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<th>In Size</th>
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<th>Material</th>
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<td>C=6k; D=10k</td>
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<td>A=PTFE, B=Graphite*</td>
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<td>C=6k</td>
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Included accessories:
- no. 1 drain plug

* = Graphite only available up to 6,000 psi
2054 Series

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
- IN : FEMALE 1/2"
- OUT: FEMALE 1/2"
- DRAIN : 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK BODY
- SUITABLE FOR REMOTE MOUNTING W/ BRACKET

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from −54°C to +204°C (-65°F / + 400°F)
- Temperature rating GRAPHITE packing from −54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
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<tr>
<th>Item</th>
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Included accessories:
- no. 1 drain plug

* = Graphite only available up to 6.000 psi
2055 Series

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
- IN: FEMALE 1/2"
- OUT: FEMALE 1/2"
- DRAIN: 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- BAR STOCK BODY

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-51°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
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<th>Out size</th>
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<td>C=6k; D=10k</td>
<td>1/2&quot; NPT-F</td>
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</table>

* = Graphite only available up to 6,000 psi

Included accessories:
- no. 1 drain plug
2056 Series

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
- IN: FEMALE 1/2"
- OUT: FEMALE 1/2"
- DRAIN: 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- BAR STOCK BODY

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-51°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
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<th>Out size</th>
<th>Packing</th>
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<td>1/2&quot; NPT-F</td>
<td>A=PTFE B=Graphite*</td>
<td>316L</td>
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</tbody>
</table>

* = Graphite only available up to 6,000 psi

Included accessories:
- no. 1 drain plug
2150 Series

Two Valve Manifolds 6.000 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 situ and on panels.

Features
- IN : FEMALE 1/2"
- OUT: FLANGED IEC 61518 -B
- DRAIN : 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK BODY
- SUITABLE FOR REMOTE MOUNTING W/ BRACKET

Specifications
- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
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<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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<td>C=6k</td>
<td>1/2&quot;</td>
<td>NPT-F</td>
<td>A=PTFE</td>
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<tr>
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<td></td>
<td>IEC 61518-B</td>
<td>B=Graphite*</td>
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<td>A0540-08-01</td>
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</table>

Included accessories:
- no. 2 galvanized carbon steel screws
- no. 1 drain plug
- no. 1 PTFE gasket
2151 Series

Two Valve Manifolds 6.000 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
- **IN**: FEMALE 1/2" NPT
- **OUT**: FLANGED IEC 61518 - B
- **DRAIN**: 1/4" NPT-F WITH PLUG
- **MATERIAL**: AISI 316L
- **FLAT BAR STOCK BODY**
- **SUITE FOR REMOTE MOUNTING W/ BRACKET**

Specifications
- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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<tbody>
<tr>
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<td>C=6k</td>
<td>1/2&quot;</td>
<td>NPT-F</td>
<td>A=PTFE</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>IEC 61518 - B</td>
<td>B=Graphite*</td>
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<td>A0540-08-01</td>
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<td></td>
<td>2&quot; PIPE AND WALL MOUNTING BRACKET</td>
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</tbody>
</table>

Included accessories:
- no. 2 galvanized carbon steel screws
- no. 1 drain plug
- no. 1 PTFE gasket
**2250 Series**

**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
- **IN:** FEMALE 1/2"
- **OUT:** FEMALE 1/2"
- **DRAIN:** 1/4" NPT-F WITH PLUG
- **MATERIAL:** AISI 316L
- **FLAT BAR STOCK BODY**

### Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from –54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from –54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

### Item Specifications

<table>
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<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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<td>1/2&quot; NPT-F</td>
<td>A=PTFE, B= Graphite*</td>
<td>316L</td>
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</table>

**Included accessories:**
- no. 1 drain plug

* = Graphite only available up to 6.000 psi
2350 Series

Two Valve Manifolds 6.000 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
- IN : FEMALE 1/2"
- OUT: FLANGED IEC 61518 -B
- DRAIN : 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK BODY

Specifications
- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
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<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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<td>A=PTFE B=Graphite*</td>
<td>316L</td>
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</table>

Included accessories:
- no. 2 galvanized carbon steel screws
- no. 1 drain plug
- no. 1 PTFE gasket
**2450 Series**

**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**
- IN : FEMALE 1/4"
- OUT: FEMALE 1/4"
- DRAIN : 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK BODY

**Specifications**
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / + 400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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<tbody>
<tr>
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<td>C=6k; D=10k</td>
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<td>A=PTFE, B=Graphite*</td>
<td>316L</td>
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</tbody>
</table>

* = Graphite only available up to 6,000 psi

**Included accessories:**
- no. 1 drain plug
3000 Series

Three Valve Manifolds 6.000 psi & 10.000 psi
The Three Valve Manifolds 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.

Features
- IN : 1/4" NPT-F
- OUT : 1/4" NPT-F
- DRAIN : none
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : 54 mm

Specifications
- Pressure up to 10,000 Psi ( 689 Bar )
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F )
- Temperature rating GRAPHITE packing from –54°C to + 538° C (-65°F / +1000°F ), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
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<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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<td>1/4&quot; NPT-F</td>
<td>A=PTFE</td>
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<td>A0540-06-01</td>
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<td>2&quot; PIPE AND WALL MOUNTING BRACKET</td>
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<td>B= Graphite*</td>
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</tbody>
</table>

* = Graphite only available up to 6.000 psi
3001 Series

Three Valve Manifolds 6.000 psi
The Three Valve Manifolds 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.

Features
- IN : 1/2" NPT-F
- OUT : 1/2" NPT-F
- DRAIN : none
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : 54 mm

Specifications
- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
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<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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<td>A0540-12-01</td>
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<td>2&quot; PIPE AND WALL MOUNTING BRACKET</td>
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<td>316L</td>
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</table>

* = Graphite only available up to 6.000 psi
3003 Series

Three Valve Manifolds 6.000 psi & 10.000 psi
The Three Valve Manifolds 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.

Features
- IN : 1/4" NPT-F
- OUT : 1/4" NPT-F
- DRAIN : none
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN/OUT= 54 mm

Specifications
- Pressure up to 10,000 Psi ( 689 Bar )
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / + 400°F )
- Temperature rating GRAPHITE packing from -54°C to + 538° C (-65°F / + 1000° F ), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
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<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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<td>A=PTFE&lt; B= Graphite*</td>
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</table>

* = Graphite only available up to 6.000 psi
### 3050 Series

#### Three Valve Manifolds 6.000 psi

The Three Valve Manifolds 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.

#### Features
- **IN**: 1/2” NPT-F
- **OUT**: FLANGED IEC 61518 - B
- **DRAIN**: none
- **MATERIAL**: AISI 316L
- **FLAT BAR STOCK**
- **CENTER TO CENTER DISTANCE**: IN=35 mm ; OUT= 54 mm

#### Specifications
- **Pressure** up to 6,000 Psi (414 Bar)
- **Temperature rating**
  - PTFE packing from -54°C to +204°C (-65°F / +400°F)
  - GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- **Standard orifice diameter** 4.0 mm
- **Standard 316L stainless steel**

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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<td>2” PIPE AND WALL HORIZONTAL MOUNTING BRACKET</td>
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**Included accessories:**
- no. 4 galvanized carbon steel screws
- no. 2 PTFE gaskets
Needle and Manifold valves

3100 Series

Three Valve Manifolds 6.000 psi & 10.000 psi
The Three Valve Manifolds 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.

Features
- IN : 1/4" NPT- F
- OUT : 1/4" NPT- F
- DRAIN : 1/4" NPT- F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN=35 mm ; OUT= 54 mm

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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<tr>
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<td>316L</td>
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<tr>
<td>A0540-06-01</td>
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<td>2&quot; PIPE AND WALL MOUNTING BRACKET</td>
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<td></td>
<td>316L</td>
</tr>
</tbody>
</table>

* = Graphite only available up to 6,000 psi

Included accessories:
- no. 1 drain plug
3101 Series

Three Valve Manifolds 6.000 psi & 10.000 psi

The Three Valve Manifolds 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.

### Features
- **IN**: 1/2" NPT-F
- **OUT**: 1/2" NPT F
- **DRAIN**: 1/4" NPT-F WITH PLUG
- **MATERIAL**: AISI 316L
- **FLAT BAR STOCK**
- **CENTER TO CENTER DISTANCE**: IN/OUT= 54 mm

### Specifications
- **Pressure up to 10,000 Psi (689 Bar)**
- **Temperature rating**
  - PTFE packing from -54°C to +204°C (-65°F / +400°F)
  - Graphite packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- **Standard orifice diameter**: 4.0 mm
- **Standard 316L stainless steel**

### Item Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
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<td>A=PTFE, B= Graphite*</td>
<td>316L</td>
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<td>A0540-12-01</td>
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</tbody>
</table>

* = Graphite only available up to 6,000 psi

**Included accessories:**
- no. 1 drain plug
3104 Series

Three Valve Manifolds 6.000 psi & 10.000 psi
The Three Valve Manifolds 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.

Features
- IN: 1/2" NPT-M
- OUT: 1/2" NPT-F
- DRAIN: 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
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<td>316L</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>B= Graphite*</td>
<td></td>
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</tbody>
</table>

* = Graphite only available up to 6.000 psi

Included accessories:
- no. 1 drain plug
3105 Series

Three Valve Manifolds 6.000 psi & 10.000 psi

The Three Valve Manifolds 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.

**Features**
- IN : 1/2" NPT-F
- OUT : 1/2" NPT-F
- DRAIN : 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK

**Specifications**
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
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</tbody>
</table>

* = Graphite only available up to 6.000 psi

**Included accessories:**
- no. 1 drain plug
3150 Series

Three Valve Manifolds 6.000 psi
The Three Valve Manifolds 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.

Features
- IN : 1/2" NPT-F
- OUT : FLANGED IEC 61518-B
- DRAIN : 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN=35 mm ; OUT= 54 mm

Specifications
- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to + 538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

Item | Rating psi | In Size | Out size | Packing | Material
--- | --- | --- | --- | --- | ---
3150CDAHHBAA | C=6k | 1/2" NPT-F | IEC 61518-B | A=PTFE B= Graphite* | 316L
A0540-04-01 | 2" PIPE AND WALL VERTICAL MOUNTING BRACKET | 316L
A0540-07-01 | 2" PIPE AND WALL HORIZONTAL MOUNTING BRACKET | 316L

Included accessories:
- no. 4 galvanized carbon steel screws
- no. 1 drain plug
- no. 2 PTFE gaskets
3152 Series

Three Valve Manifolds 6.000 psi

The Three Valve Manifolds 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.

Features
- IN : 1/2" NPT-F
- OUT : FLANGED IEC 61518-B
- DRAIN : 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN=110 mm ; OUT= 54 mm

Specifications
- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / + 400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
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<tr>
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</table>

Included accessories:
- no. 4 galvanized carbon steel screws
- no. 1 drain plug
- no. 2 PTFE gaskets

FLOW

Kg 2,600
3154 Series

Three Valve Manifolds 6.000 psi

The Three Valve Manifolds 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.

Features
- IN : 1/2" NPT-F
- OUT : FLANGED IEC 61518-B
- DRAIN : 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN=54 mm ; OUT= 54 mm

Specifications
- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
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<td>IEC 61518-B</td>
<td>( A=\text{PTFE} ) ( B=\text{Graphite}^* )</td>
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<td>A0540-04-01</td>
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</table>

Included accessories:
- no. 4 galvanized carbon steel screws
- no. 1 drain plug
- no. 2 PTFE gaskets
3156 Series

Three Valve Manifolds 6.000 psi
The Three Valve Manifolds 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.

Features
- IN : 1/2" NPT-F
- OUT : FLANGED IEC 61518-B
- DRAIN : 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN=54 mm ; OUT= 54 mm

Specifications
- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
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<th>Material</th>
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<tr>
<td>A0540-23-01</td>
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<td>2&quot; PIPE AND WALL HORIZONTAL MOUNTING BRACKET</td>
<td></td>
<td>B= Graphite*</td>
<td>316L</td>
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</tbody>
</table>

Included accessories:
- no. 4 galvanized carbon steel screws
- no. 1 drain plug
- no. 2 PTFE gaskets
### 3160 Series

**Three Valve Manifolds 6.000 psi**

The Three Valve Manifolds, which 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.

#### Features
- IN : FLANGED NPT-F
- OUT : FLANGED IEC 61518-B
- DRAIN : 1/4” NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FORGED OR COLD DRAWN BAR STOCK
- CENTER TO CENTER DISTANCE : IN/OUT 54 mm

#### Specifications
- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
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<td>A0540-30-01</td>
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<td>2” PIPE AND WALL HORIZONTAL MOUNTING BRACKET</td>
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</table>

**Included accessories:**
- no. 4 galvanized carbon steel screws
- no. 1 drain plug
- no. 2 PTFE gaskets
3160 Series

Three Valve Manifolds 6.000 psi
The Three Valve Manifolds, which 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.

Features
- IN : FLANGED IEC 61518
- OUT : FLANGED IEC 61518-B
- DRAIN : 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FORGED OR COLD DRAWN BAR STOCK
- CENTER TO CENTER DISTANCE : IN/OUT 54 mm

Specifications
- Pressure up to 6,000 Psi ( 414 Bar )
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F )
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F ), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
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<tr>
<th>Item</th>
<th>Rating psi</th>
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<th>Out size</th>
<th>Packing</th>
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Included accessories:
- no. 8 galvanized carbon steel screws
- no. 1 drain plug
- no. 2 PTFE gaskets
3250 Series

Three Valve Manifolds 6.000 psi
The Three Valve Manifolds 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.

Features
- IN : 1/2” NPT-F
- OUT : FLANGED IEC 61518-B
- DRAIN : NONE
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : 54 mm

Specifications
- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F/+1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
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Included accessories:
- no. 4 galvanized carbon steel screws
- no. 1 drain plug
- no. 2 PTFE gaskets
Needle and Manifold valves

3452 Series

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.

Features

- IN : 1/4" NPT-F
- OUT : 1/4" NPT-F
- DRAIN : 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : 54 mm

Specifications

- Pressure up to 10,000 Psi ( 689 Bar )
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / + 400°F )
- Temperature rating GRAPHITE packing from -54°C to + 538° C (-65°F / + 1000°F ), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
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<td>B= Graphite*</td>
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</tbody>
</table>

* = Graphite only available up to 6.000 psi

Included accessories:
- no. 1 drain plug
3501 Series

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.

Features
- IN : THREADED MALE
- OUT : THREADED FIXED * OR SWIVEL
- DRAIN : NONE
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN/OUT 54 mm

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
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<td>C=6k</td>
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<td>2&quot; PIPE AND WALL MOUNTING BRACKET</td>
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</tr>
</tbody>
</table>

Note:
* Fixed

* = Graphite only available up to 6.000 psi
3502 Series

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.

Features
- IN : THREADED MALE
- OUT : 1/4" BSP-M SWIVEL
- DRAIN : NONE
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN/OUT 37 mm

Specifications
- Pressure up to 10,000 Psi ( 689 Bar )
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / + 400°F )
- Temperature rating GRAPHITE packing from -54°C to + 538°C (-65°F / + 1000°F ), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
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<td></td>
<td></td>
<td>B= Graphite*</td>
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<td>B= Graphite*</td>
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</tbody>
</table>
Needle and Manifold valves

3503 Series

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.

Features
- IN : THREADED FEMALE
- OUT : 1/4” BSP-M SWIVEL
- DRAIN : NONE
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN/OUT 37 mm

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
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<td></td>
<td></td>
<td>BSP-F</td>
<td>BSP-M</td>
<td>B=Graphite*</td>
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3504 Series

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.

Features
- IN : THREADED MALE
- OUT : 1/2" BSP-F SWIVEL
- DRAIN : NONE
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN/OUT 37 mm

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
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3505 Series

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.

Features
- IN : THREADED MALE
- OUT : 1/2" BSP-M SWIVEL
- DRAIN : NONE
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN/OUT=54 mm

Specifications
- Pressure up to 10,000 Psi ( 689 Bar )
- Temperature rating PTFE packing from -54°C to +204°C ( -65°F / + 400°F )
- Temperature rating GRAPHITE packing from -54°C to + 538° C ( -65°F / + 1000°F ), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
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<tr>
<th>Item</th>
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3506 Series

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.

Features
- IN : THREADED FEMALE
- OUT : 1/2" BSP-F SWIVEL
- DRAIN : NONE
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN/OUT=54 mm

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
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<td>3506CDADBBAA</td>
<td>C=6k</td>
<td>1/2&quot; NPT-F</td>
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</table>
3508 Series

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.

Features
- IN : THREADED MALE
- OUT : 1/2" BSP-M SWIVEL
- DRAIN : NONE
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN/OUT=54 mm

Specifications
- Pressure up to 10,000 Psi ( 689 Bar )
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / + 400°F )
- Temperature rating GRAPHITE packing from -54°C to + 538° C (-65°F / + 1000°F ), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
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</table>
3550 Series

Three Valve Manifolds 6.000 psi / Coplanar
The Three Valve Manifolds 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.

Features
- IN : 1/2" NPT-F
- OUT : FLANGED IEC 61518-B
- DRAIN : 1/4 NPT-F
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : 54 mm

Specifications
- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / + 400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
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<th>Material</th>
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<td>FLANGED</td>
<td>A=PTFE</td>
<td>B= Graphite*</td>
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</tbody>
</table>

Included accessories:
- no. 4 galvanized carbon steel screws
- no. 1 drain plug
- no. 2 PTFE gaskets
**4300 Series**

**Four Valve Manifolds 6.000 psi & 10.000 psi / Coplanar**

The Four Valve Manifolds 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.

**Features**
- IN-OUT: THREADED/O.D.
- MATERIAL: AISI 316L / BRASS
- BAR STOCK VALVE FEMALE/FEMALE
- WITH DRAIN G1/8
- CENTER TO CENTER DISTANCE : 30 mm

**Specifications**
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel
- Packing : C=Viton-10/+100°C

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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<td>Ø6</td>
<td>C= VITON</td>
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</table>

Included accessories:
- no. 1 drain plug
5000 Series

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.

Features

- IN : 1/2" NPT-F
- OUT : 1/2" NPT-F
- DRAIN : 2 X 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN=110 mm ; OUT=54 mm

Specifications

- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
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<th>Out size</th>
<th>Packing</th>
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<td>B= Graphite*</td>
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<tr>
<td>A0540-04-01</td>
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<td>2&quot; PIPE AND WALL VERTICAL MOUNTING BRACKET</td>
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<td>316L</td>
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<td>2&quot; PIPE AND WALL HORIZONTAL MOUNTING BRACKET</td>
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<td></td>
<td>316L</td>
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</tbody>
</table>

* = Graphite only available up to 6.000 psi

Included accessories:
- no. 2 drain plugs
### 5050 Series

**Five Valve Manifolds 6.000 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.

**Features**
- **IN**: 1/2" NPT-F
- **OUT**: IEC 61518 - B
- **DRAIN**: 2 X 1/4" NPT-F WITH PLUG
- **MATERIAL**: AISI 316L
- **FLAT BAR STOCK**
- **CENTER TO CENTER DISTANCE**: IN/OUT=54 mm

**Specifications**
- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
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<th>In Size</th>
<th>Out size</th>
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<th>Material</th>
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<td>1/2&quot; NPT-F</td>
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<td>A=PTFE, B=Graphite*</td>
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<tr>
<td>A0540-04-01</td>
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<td>2&quot; PIPE AND WALL HORIZONTAL MOUNTING BRACKET</td>
<td>316L</td>
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</tbody>
</table>

**Included accessories:**
- no. 4 galvanized carbon steel screws
- no. 2 drain plugs
- no. 2 PTFE gaskets
Needle and Manifold valves

5064 Series

Five Valve Manifolds 6.000 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.

Features
- IN : 1/2" NPT-F
- OUT : IEC 61518-B
- DRAIN : 2 X 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN/OUT=54 mm

Specifications
- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F /+100°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
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<tr>
<th>Item</th>
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<th>Out size</th>
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<td>1/2&quot; NPT-F</td>
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<td></td>
<td>316L</td>
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</tbody>
</table>

Included accessories:
- no. 4 galvanized carbon steel screws
- no. 2 drain plugs
- no. 2 PTFE gaskets
5066 Series

Five Valve Manifolds 6.000 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.

Features

- IN : 1/2" NPT-F
- OUT : IEC 61518-B
- DRAIN : 2 X 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN/OUT=54 mm

Specifications

- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
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<td>B=Graphite*</td>
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Included accessories:
- no. 4 galvanized carbon steel screws
- no. 2 drain plugs
- no. 2 PTFE gaskets
5069 Series

Five Valve Manifolds 6.000 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.

Features
- **IN**: 1/2” NPT-F
- **OUT**: IEC 61518-A
- **DRAIN**: 1 X 1/4” NPT-F WITH PLUG
- **MATERIAL**: AISI 316L
- **FLAT BAR STOCK**
- **CENTER TO CENTER DISTANCE** IN/OUT=54 mm

Specifications
- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
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</table>

Included accessories:
- no. 4 galvanized carbon steel screws
- no. 1 drain plug
- no. 2 PTFE gaskets
5150 Series

Five Valve Manifolds 6.000 psi / 90°

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.

Features
- IN : 1/2" NPT-F
- OUT : IEC 61518-A
- DRAIN : 21X 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN/OUT=54 mm

Specifications
- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
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<td>IEC 61518-A</td>
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</table>

Included accessories:
- no. 4 galvanized carbon steel screws
- no. 1 drain plug
- no. 2 PTFE gaskets
5203 Series

Five Valve Manifolds 6.000 psi/90°

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.

Features
- IN: 1/2" NPT-F
- OUT: IEC 61518-B
- DRAIN: 2 X 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE: IN/OUT=54 mm

Specifications
- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F/+400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F/+1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
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<th>Rating psi</th>
<th>In Size</th>
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</table>

Included accessories:
- no. 4 galvanized carbon steel screws
- no. 2 drain plugs
- no. 2 PTFE gaskets
5251 Series

**Five Valve Manifolds 6.000 psi & 10.000 psi / 90°**

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.

**Features**
- IN : THREADED
- OUT : G1/2 FEMALE SWIVEL
- DRAIN : 2 X 1/4” NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : I N/OUT=54 mm

**Specifications**
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / + 400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F/+1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

### Item Table

<table>
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<th>Item</th>
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<th>In Size</th>
<th>Out size</th>
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<tbody>
<tr>
<td>5251CDDBBBAA</td>
<td>C=6k</td>
<td>1/2” BSP-M</td>
<td>1/2” BSP-F</td>
<td>A=PTFE, B=Graphite*</td>
<td>316L</td>
</tr>
<tr>
<td>5251CDADBBAA</td>
<td>C=6k</td>
<td>1/2” NPT-M</td>
<td>1/2” BSP-F</td>
<td>A=PTFE, B=Graphite*</td>
<td>316L</td>
</tr>
<tr>
<td>A0540-36-01</td>
<td></td>
<td>2” PIPE AND WALL MOUNTING BRACKET</td>
<td></td>
<td></td>
<td>316L</td>
</tr>
</tbody>
</table>

**Included accessories:**
- no. 2 drain plugs
5301 Series

Five Valve Manifolds 6.000 psi & 10.000 psi / 90°

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.

**Features**
- IN : THREADED
- OUT : G1/2 FEMALE SWIVEL
- DRAIN : 2 X 1/4" NPT-F WITH PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN/OUT=54 mm

**Specifications**
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>5301CDADBBAA</td>
<td>C=6k</td>
<td>1/2&quot;</td>
<td>NPT-F</td>
<td>1/2&quot; BSP-F</td>
<td>A=PTFE ; B=Graphite*</td>
</tr>
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<td>5301CDBDBBBAA</td>
<td>C=6k</td>
<td>1/2&quot;</td>
<td>BSP-F</td>
<td>1/2&quot; BSP-F</td>
<td>A=PTFE ; B=Graphite*</td>
</tr>
<tr>
<td>A0540-36-01</td>
<td></td>
<td></td>
<td></td>
<td>2&quot; PIPE AND WALL MOUNTING BRACKET</td>
<td>316L</td>
</tr>
</tbody>
</table>

Included accessories:
- no. 2 drain plugs
5350 Series

Five Valve Manifolds 6.000 psi & 10.000 psi / 90°

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.

Features
- IN : THREADED
- OUT : G1/2 A - SWIVEL
- DRAIN : 2 X 1/4" BSP-F WITHOUT PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN/OUT=54 mm

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F )
- Temperature rating GRAPHITE packing from -54°C to + 538°C (-65°F / +1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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</thead>
<tbody>
<tr>
<td>5350CCBBAA</td>
<td>C=6k</td>
<td>3/8” BSP-F</td>
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<td>A=PTFE B= Graphite*</td>
<td>316L</td>
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<tr>
<td>5350CDADBBAA</td>
<td>C=6k</td>
<td>1/2” NPT-F</td>
<td>1/2” BSP-M</td>
<td>A=PTFE B= Graphite*</td>
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<tr>
<td>A0540-36-01</td>
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<td>2” PIPE AND WALL MOUNTING BRACKET</td>
<td>316L</td>
</tr>
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</table>

Included accessories:
- no. 2 drain plugs
**5351 Series**

Five Valve Manifolds 6.000 psi & 10.000 psi / 90°

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.

### Features
- **IN**: THREADED
- **OUT**: G1/2 A - SWIVEL
- **DRAIN**: 2 X 1/4" BSP-F WITHOUT PLUG
- **MATERIAL**: AISI 316L
- **FLAT BAR STOCK**
- **CENTER TO CENTER DISTANCE**: IN/OUT=54 mm

### Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F/+1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
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<th>Material</th>
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<tr>
<td>5351CDBDBBAA</td>
<td>C=6k</td>
<td>1/2&quot; BSP-M</td>
<td>1/2&quot; BSP-M</td>
<td>A=PTFE B=Graphite*</td>
<td>316L</td>
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<tr>
<td>5351CDADDBAA</td>
<td>C=6k</td>
<td>1/2&quot; NPT-M</td>
<td>1/2&quot; BSP-M</td>
<td>A=PTFE B=Graphite*</td>
<td>316L</td>
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<tr>
<td>A0540-36-01</td>
<td></td>
<td>2&quot; PIPE AND WALL MOUNTING BRACKET</td>
<td></td>
<td></td>
<td>316L</td>
</tr>
</tbody>
</table>

**Included accessories:**
- no. 2 drain plugs
5400 Series

Five Valve Manifolds 6.000 psi & 10.000 psi / 90°

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.

Features
- **IN : THREADED**
- **OUT : THREADED - SWIVEL**
- **DRAIN : 2 X 1/8" BSP-F WITHOUT PLUG**
- **MATERIAL: AISI 316L**
- **FLAT BAR STOCK**
- **CENTER TO CENTER DISTANCE : IN/OUT=37 mm**

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F/+1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>5400CDABBBA AA</td>
<td>C=6k</td>
<td>1/2&quot; NPT-M</td>
<td>1/4&quot; BSP-M</td>
<td>A=PTFE B= Graphite*</td>
<td>316L</td>
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<tr>
<td>5400CDBBBBA AA</td>
<td>C=6k</td>
<td>1/2&quot; BSP-M</td>
<td>1/4&quot; BSP-M</td>
<td>A=PTFE B= Graphite*</td>
<td>316L</td>
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<tr>
<td>A0540-48-01</td>
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<td>2&quot; PIPE AND WALL MOUNTING BRACKET</td>
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<td></td>
<td>316L</td>
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</tbody>
</table>

Included accessories:
- no. 2 drain plugs
5401 Series

Five Valve Manifolds 6.000 psi & 10.000 psi / 90°

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.

Features
- IN : THREADED
- OUT : THREADED - SWIVEL
- DRAIN : 2 X 1/8" BSP-F WITHOUT PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN/OUT=37 mm

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F/+1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>5401CCBBBBA</td>
<td>C=6k</td>
<td>3/8”</td>
<td>1/4”</td>
<td>A=PTFE, B=Graphite*</td>
<td>316L</td>
</tr>
<tr>
<td>A0540-48-01</td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Included accessories:</td>
<td></td>
<td></td>
<td></td>
<td>2&quot; PIPE AND WALL MOUNTING BRACKET</td>
<td>316L</td>
</tr>
</tbody>
</table>
**5403 Series**

**Five Valve Manifolds 6.000 psi & 10.000 psi / 90°**

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.

**Features**
- IN : THREADED
- OUT : THREADED - SWIVEL
- DRAIN : 2 X 1/8” BSP-F WITHOUT PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN/OUT=37 mm

**Specifications**
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F/+1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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</thead>
<tbody>
<tr>
<td>5403CCBDBBA</td>
<td>C=6k</td>
<td>3/8”</td>
<td>1/2”</td>
<td>A=PTFE B= Graphite*</td>
<td>316L</td>
</tr>
<tr>
<td>A0540-48-01</td>
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<td></td>
<td></td>
<td>2” PIPE AND WALL MOUNTING BRACKET</td>
<td>316L</td>
</tr>
</tbody>
</table>

**Included accessories:**
- no. 2 drain plugs
5405 Series

Five Valve Manifolds 6.000 psi & 10.000 psi / 90°

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.

Features
- IN : THREADED
- OUT : THREADED - SWIVEL
- DRAIN : 2 X 1/8" BSP-F WITHOUT PLUG
- MATERIAL: AISI 316L
- FLAT BAR STOCK
- CENTER TO CENTER DISTANCE : IN/OUT=37 mm

Specifications
- Pressure up to 10,000 Psi (689 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F/+1000°F), only for pressures up to 6.000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>5405CDABBBAA</td>
<td>C=6k</td>
<td>1/2&quot; NPT-F</td>
<td>1/4&quot; BSP-M</td>
<td>A=PTFE</td>
<td>316L</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>B= Graphite*</td>
<td></td>
</tr>
<tr>
<td>A0540-48-01</td>
<td></td>
<td>2&quot; PIPE AND WALL MOUNTING BRACKET</td>
<td></td>
<td></td>
<td>316L</td>
</tr>
</tbody>
</table>

Included accessories:
- no. 2 drain plugs
**5450 Series**

**Five Valve Manifolds 6.000 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.

---

### Features

- **IN**: SOCKET WELD
- **OUT**: FLANGED
- **DRAIN**: 2 X 1/4" NPT-F
- **MATERIAL**: AISI 316L
- **FLAT BAR STOCK**

### Specifications

- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating GRAPHITE packing from −54°C to +538°C (-65°F/+1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

---

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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</thead>
<tbody>
<tr>
<td>5450CDDHHBBA</td>
<td>C=6k</td>
<td>SOCKET WELD</td>
<td>FLANGED</td>
<td>B= Graphite*</td>
<td>316L</td>
</tr>
</tbody>
</table>

**Included accessories:**
- no. 4 galvanized carbon steel screws
- no. 2 drain plugs
- no. 2 PTFE gaskets
5600 Series

Five Valve Manifolds 6.000 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.

Features

- IN : 1/2" NPT-F
- OUT : FLANGED IEC 61518 - B
- DRAIN : 1 X 1/4" NPT-F
- MATERIAL: AISI 316L
- FLAT BAR STOCK

Specifications

- Pressure up to 6,000 Psi (414 Bar)
- Temperature rating PTFE packing from -54°C to +204°C (-65°F / +400°F)
- Temperature rating GRAPHITE packing from -54°C to +538°C (-65°F/+1000°F), only for pressures up to 6,000 psi
- Standard orifice diameter 4.0 mm
- Standard 316L stainless steel

<table>
<thead>
<tr>
<th>Item</th>
<th>Rating psi</th>
<th>In Size</th>
<th>Out size</th>
<th>Packing</th>
<th>Material</th>
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<tbody>
<tr>
<td>5600CDAHHBAA</td>
<td>C=6k</td>
<td>1/2&quot; NPT-F</td>
<td>FLANGED</td>
<td>A=PTFE B=Graphite*</td>
<td>316L</td>
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</table>

Included accessories:
- no. 2 drain plugs
Special Items

<table>
<thead>
<tr>
<th>Distribution and control panel</th>
<th>15,000 psi Double Block &amp; Bleed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distributors</td>
<td></td>
</tr>
<tr>
<td>Needle valves with extended connections for assembly with flushing rings</td>
<td>Safety systems</td>
</tr>
</tbody>
</table>

Needle and Manifold valves
Special Items

Flanged/Flanged Needle Valves

Socket Weld Version

Distributors
## Brackets

### Two Valve Manifolds
- **Model:** A0540-06-01
- [Image](#)

### Two Valve Manifolds
- **Model:** A0540-10-01
- [Image](#)

### Two Valve Manifolds
- **Model:** A0540-08-01
- [Image](#)

### Two Valve Manifolds
- **Model:** A0540-11-01
- [Image](#)

### Three Valve Manifolds
- **Model:** A0540-04-01
- [Image](#)

### Five Valve Manifolds
- **Model:** A0540-04-01
- [Image](#)

### Three Valve Manifolds
- **Model:** A0540-07-01
- [Image](#)

### Three Valve Manifolds
- **Model:** A0540-07-01
- [Image](#)

### CODE (MATERIAL MOUNTED ON MANIFOLDS:)

<table>
<thead>
<tr>
<th>CODE (MATERIAL)</th>
<th>MOUNTED ON MANIFOLDS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>A0540-04-01</td>
<td>VERT. BRACKET KIT FOR MANIFOLDS 3002-3050-3150-3151-</td>
</tr>
<tr>
<td>A0540-06-01</td>
<td>BRACKET KIT FOR MANIFOLDS 2015-2017</td>
</tr>
<tr>
<td>A0540-07-01</td>
<td>HORIZ. BRACKET KIT FOR MANIFOLDS 3002-3050-3150-3151-</td>
</tr>
<tr>
<td>A0540-08-01</td>
<td>BRACKET KIT FOR MANIFOLD 2150 (M2L)</td>
</tr>
<tr>
<td>A0540-09-01</td>
<td>BRACKET KIT FOR MANIFOLD 3451</td>
</tr>
<tr>
<td>A0540-10-01</td>
<td>BRACKET KIT FOR MANIFOLD 2052</td>
</tr>
<tr>
<td>A0540-11-01</td>
<td>BRACKET KIT FOR MANIFOLD 2050</td>
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<tr>
<td>A0540-12-01</td>
<td>BRACKET KIT FOR MANIFOLDS 3001-2015-2017</td>
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<td>A0540-17-01</td>
<td>BRACKET KIT FOR MANIFOLD 2152</td>
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<td>A0540-18-01</td>
<td>BRACKET KIT FOR MANIFOLD 2052</td>
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<td>BRACKET KIT FOR MANIFOLDS 2161-2162</td>
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<td>BRACKET KIT FOR MANIFOLDS 5201</td>
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<td>A0540-30-01</td>
<td>HORIZ. BRACKET KIT FOR FORGED 5 VALVE MANIFOLD</td>
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<td>A0540-31-01</td>
<td>BRACKET KIT FOR MANIFOLD 5301</td>
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<td>A0540-32-01</td>
<td>HORIZ. BRACKET KIT FOR FORGED 2 VALVE MANIFOLD</td>
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<td>A0540-33-01</td>
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<tr>
<td>A0540-34-01</td>
<td>BRACKET KIT FOR MANIFOLD 5204</td>
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</table>
Metering Needle Valves

Needle valve soft seat type NV1

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

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/+204°C (-20/+400°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

<table>
<thead>
<tr>
<th>No</th>
<th>DESCRIPTION</th>
<th>MAT.</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Back-up ring</td>
<td>PTFE</td>
</tr>
<tr>
<td>2</td>
<td>Body  O-RING</td>
<td>Viton</td>
</tr>
<tr>
<td>3</td>
<td>Bonnet body</td>
<td>AISI 316L</td>
</tr>
<tr>
<td>4</td>
<td>Bonnet O-RING</td>
<td>Viton</td>
</tr>
<tr>
<td>5</td>
<td>Bushing</td>
<td>AISI 316L</td>
</tr>
<tr>
<td>6</td>
<td>Handle</td>
<td>Aluminium</td>
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<tr>
<td>7</td>
<td>ISOLATE Cap</td>
<td>Hytrel BLUE</td>
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<td>8</td>
<td>SCREW STEI UNI 5925 M6X12</td>
<td>A4 - AISI 316L</td>
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<td>9</td>
<td>Soft seat</td>
<td>KEL-F (PCTFE)</td>
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<td>10</td>
<td>Steam</td>
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<td>11</td>
<td>Valve body</td>
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* Optional seat material: DELRIN/PEEK

<table>
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<th>TYPE</th>
<th>CONNECTIONS</th>
<th>INLET</th>
<th>OUTLET</th>
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<td>NV1</td>
<td>FEM-FEM</td>
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<td>NPT</td>
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<td>VITON</td>
<td>KEL-F</td>
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<td>NV1FFBABABVM</td>
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<td>1/4&quot; NPT</td>
<td>AISI 316</td>
<td>VITON</td>
<td>METAL</td>
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</table>
Cartridge Needle Valves

Cartridge metering needle valve type CMV - 1/4”
Cartridge metering needle valves are designed for hydraulic application especially with high pressure and viscous fluids.

Our 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.

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/+204°C (-4/+400°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”

<table>
<thead>
<tr>
<th>No</th>
<th>DESCRIPTION</th>
<th>MAT.</th>
<th>Q.TY</th>
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<tbody>
<tr>
<td>1</td>
<td>Back up ring - stem</td>
<td>Nylon</td>
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<tr>
<td>2</td>
<td>Back-up ring - body</td>
<td>PTFE</td>
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<tr>
<td>3</td>
<td>Body D-RING</td>
<td>NBR</td>
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<tr>
<td>4</td>
<td>Gasket bushing</td>
<td>AISI 316L</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>A4 - AISI 316L</td>
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<td>7</td>
<td>Locking nut</td>
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<td>8</td>
<td>Lower body D-RING</td>
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<td>Metal ring</td>
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<td>Plain washer M4 screw</td>
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<th>CODE</th>
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<td>NBR</td>
<td>STANDARD 30°</td>
<td>AISI 316</td>
<td>5000 PSI</td>
<td>4.6 mm</td>
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