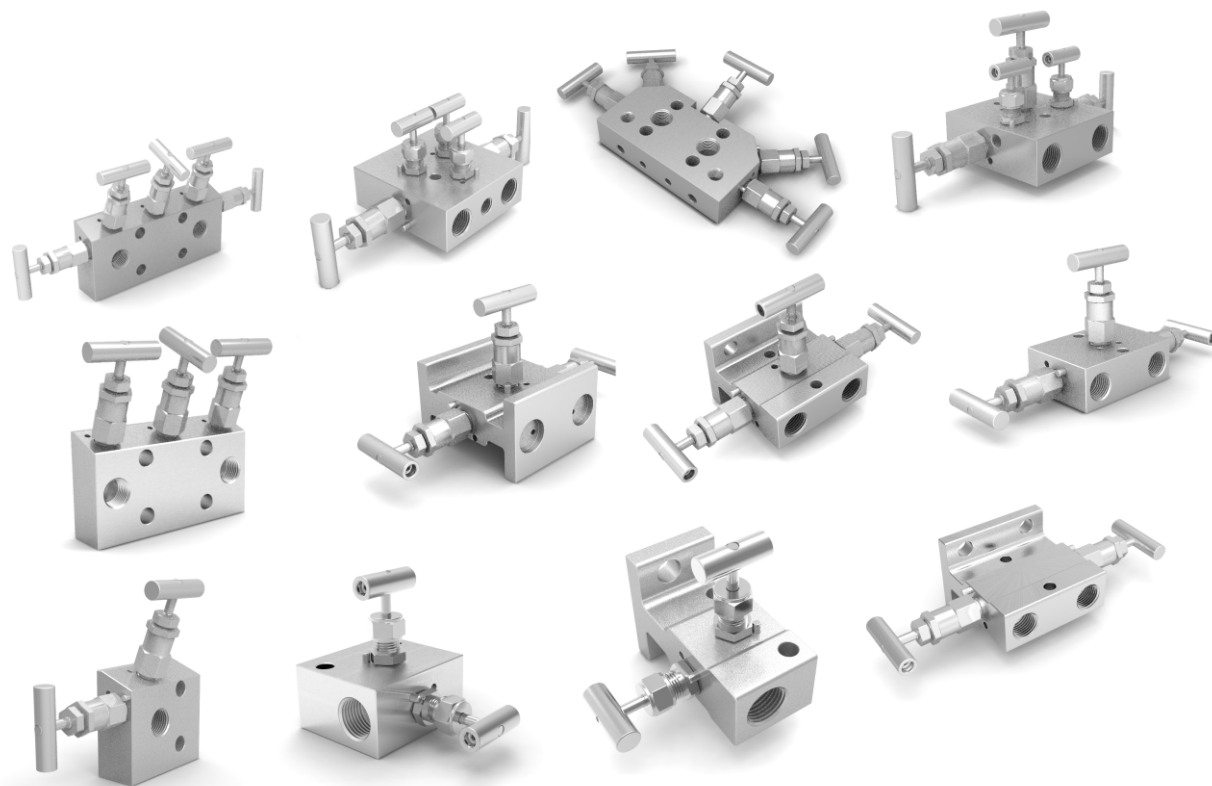
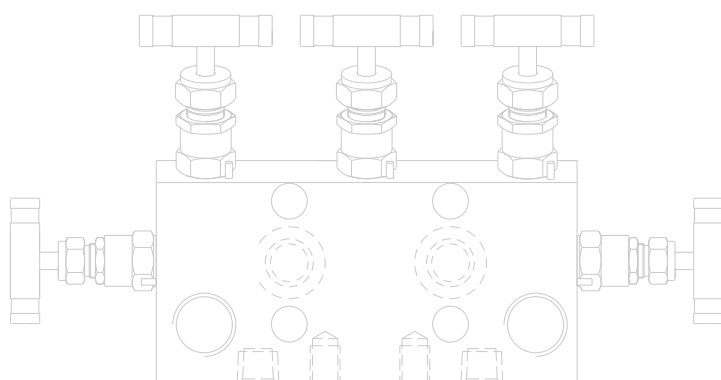
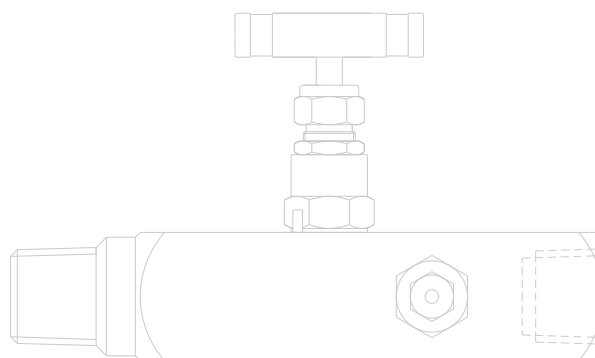


Gauge Valves and Instruments Manifolds



Climate Control
Electromechanical
Filtration
Fluid & Gas Handling
Hydraulics
Process Control
Sealing & Shielding



VFK
Advanced Fluid Control

CONTENTS

Gauge Valves and Instrument Manifolds

| | |
|---|----|
| Gauge Valves 71 Series | 1 |
| Two-Valves Instrument Manifolds 72R and 72D Series | 7 |
| Three-Valves Instrument Manifolds 73R and 73D Series | 11 |
| Five-Valves Instrument Manifolds 75R and 75D Series | 13 |

Gauge Valves

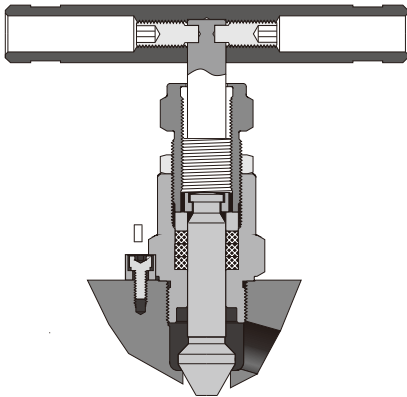
71 Series



Features

- Maximum working pressures:
 - Stainless steel: up to 6000 psig (414 bar)
 - Alloy 400: up to 5000 psig (345 bar)
- Working temperature:
 - PTFE packing: -65°F to 450°F (-54°C to 232°C)
 - Graphite packing: -65°F to 1200°F (-54°C to 649°C)
- Non-rotating lower stem, ball tip and plug tip designs
- Variety of materials for packing
- Safety back seating seals in fully open position
- Rolled spindle operating threads
- Lubricant for stem thread isolated from the media
- Externally adjustable gland
- Bonnet locking pin fitted as standard
- Low torque operating T bar handle
- Steady and durable fastening of the handle by double lock-pins
- Suitable for sour gas service; materials are selected in accordance with NACE MR0175/ISO 15156.
- Every valve is 100% factory tested with nitrogen.

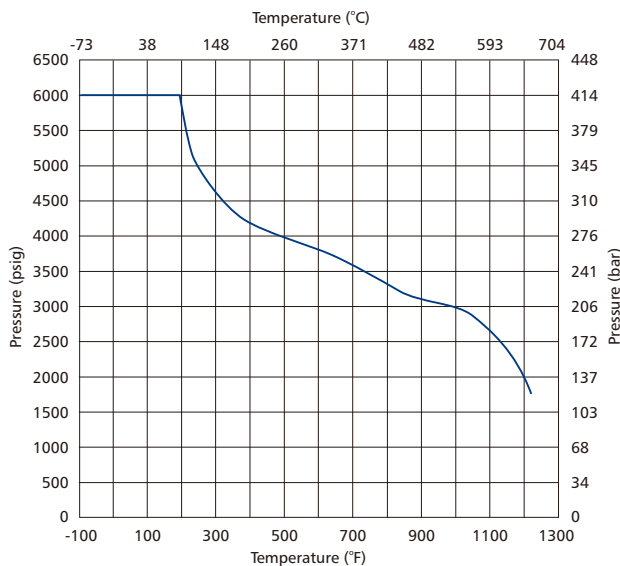
Standard Materials of Construction



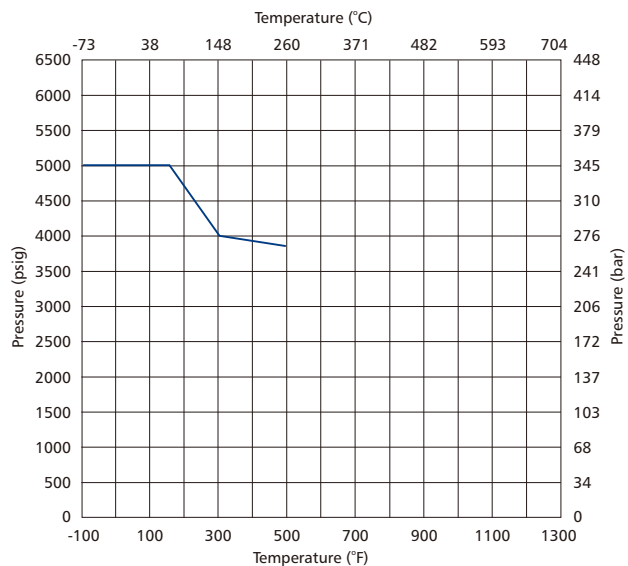
| Item | Part | Valve Body Material | | |
|------|--------------|-----------------------------|------------------------------|----------------------|
| | | 316 SS | Alloy 400 | NACE MR0175 |
| 1 | Handle | Anodized aluminum | | |
| 2 | Set Screw | Nickel cadmium-plated steel | | |
| 3 | Packing Bolt | 321 SS/A276 | | |
| 4 | Upper Stem | 316 SS/A276 | | |
| 5 | Lock Nut | 316 SS/B783 | | |
| 6 | Bonnet | 316 SS/A479 | Alloy R-405/B164 | Annealed 316 SS/A479 |
| 7 | Gland | 316 SS/A276 | | |
| 8 | Packing | PTFE or graphite | | |
| 9 | Lock Pin | 304 SS/A276 | | |
| 10 | Lower Stem | Chrome-plated 316 SS/A276 | Alloy R-405/B164 | Alloy R-405/B164 |
| 11 | Body | 316 SS/A479 316 SS/A182 | Alloy 400/B164, B127,B564 | Annealed 316 SS/A479 |
| | Lubricant | Molybdenum disulfide-based | | |

Pressure vs. Temperature

Graphite packing with 316 SS Valve Body



Graphite packing with Alloy 400 Valve Body



Types and Dimensions

Standard Type

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent/Plug | Flow Diagram |
|-----------------------|---------------|-------------------|----------------|--------------|
| □□71 -N8FN8 | 1/2 Male NPT | 1/2 Female NPT | 1/2 Female NPT | |
| □□71 -N12FN12 | 3/4 Male NPT | 3/4 Female NPT | 1/2 Female NPT | |

Lagging Extension Body Type

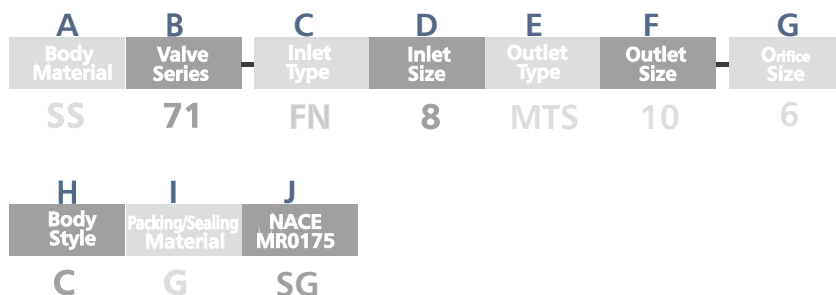
| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent/Plug | Flow Diagram |
|-----------------------|---------------|-------------------|----------------|--------------|
| □□71L -N8FN8 | 1/2 Male NPT | 1/2 Female NPT | 1/2 Female NPT | |
| | | | | |

Lagging extension body is inserted through pipe for insulation.

Miniature Type

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Flow Diagram |
|-----------------------|---------------|-------------------|--------------|
| □□71C -N8FN8 | 1/2 Male NPT | 1/2 Female NPT | |
| | | | |

71 Series Gauge Valves How to Order



| A | Body Material |
|------|---------------|
| SS: | 316 SS |
| 6L: | 316L SS |
| S4: | 304 SS |
| 4L: | 304L SS |
| S1: | 321 SS |
| 91: | F91 |
| 92: | F92 |
| D5: | Duplex 2205 |
| D7: | Duplex 2507 |
| TI: | Titanium |
| A20: | Alloy 20 |
| M: | Alloy 400 |
| INC: | Alloy 600 |
| HC: | Alloy C-276 |

| CE | Inlet/Outlet Type |
|----|-------------------------|
| FN | Female NPT |
| N | Male NPT |
| FR | Female BSPT |
| RT | Male BSPT |
| FM | Female ISO (for MRP) |
| MS | Male ISO (for MRG) |
| FP | Female BSPP (for RP) |
| BP | Male BSPP (for RG) |
| FX | Fractional Tube Fitting |
| MX | Metric Tube Fitting |

| DF | Inlet/Outlet Size |
|----|------------------------------|
| 2 | 1/8" |
| 4 | 1/4" |
| 6 | 3/8" or 6 mm |
| 8 | 1/2" or 8 mm |
| 10 | 10 mm |
| 12 | 3/4" or 12 mm |
| 14 | 14 mm or M14 x 1.5 |
| 16 | 1" or 16 mm |
| 18 | 18 mm |
| 20 | 1 1/4" or 20 mm or M20 x 1.5 |
| 22 | 22 mm or M22 x 1.5 |
| 24 | M24 x 1.5 |

| H | Body Style |
|---------------------------|-------------------|
| Standard Type Body | |
| C | Miniature Pattern |
| E | Extended Type |

| I | Packing/Sealing Material |
|------------------------------|--------------------------|
| Standard chevron PTFE | |
| P | PEEK |
| G | Graphite |

| J | NACE MR0175 |
|---|------------------|
| Standard with no NACE applicable | |
| SG | With NACE MR0175 |

| B | Valve Series |
|-----|------------------------|
| 71: | 71 Series Gauge Valves |

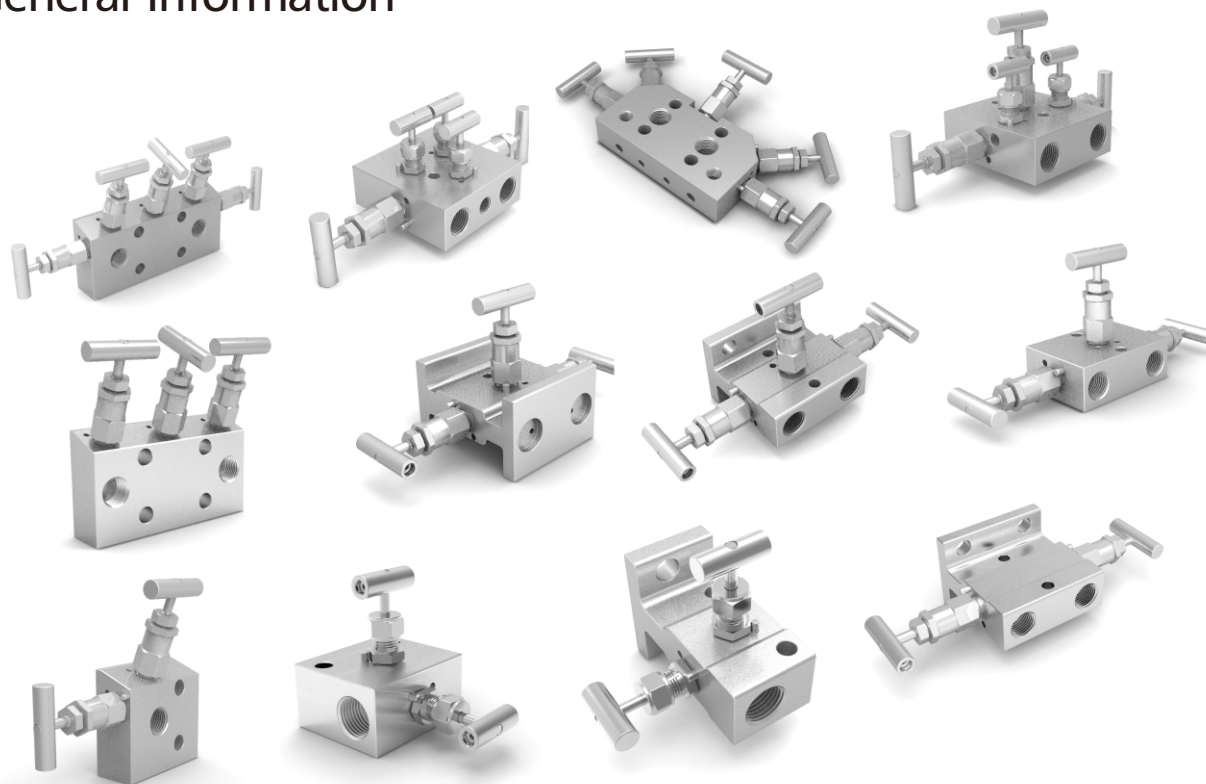
| G | Tipe Material |
|------------------------------|---------------|
| Standard Same as Body | |
| W | Stellite |
| D5 | Duplex 2205 |
| TI | Titanium Gr.4 |
| A20 | Alloy 20 |
| INC | Alloy 600 |
| HC | Alloy C-276 |

Remark:

- Standard thread pitch for metric threads are as follows:
M10 and below: 1 mm
M12 to M24: 1.5 mm
M27 and above: 2 mm
Standard thread pitch should be ignored in the ordering number, others should be specified.

Instrument Manifolds

General Information

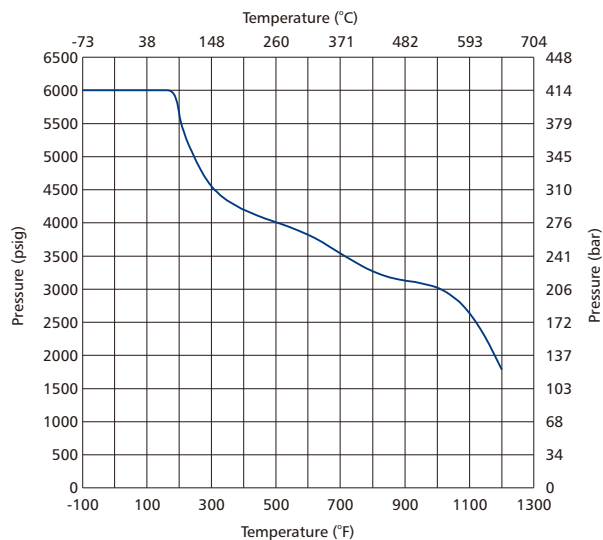


Features

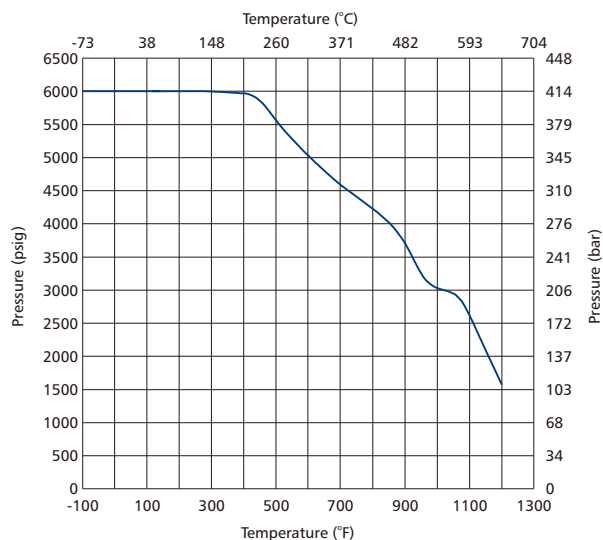
- Maximum working pressures:
 - Stainless steel: up to 6000 psig (414 bar)
 - Alloy C-276: up to 6000 psig (414 bar)
 - Alloy 400: up to 5000 psig (345 bar)
- Working temperatures:
 - PTFE packing: -65°F to 450°F (-54°C to 232°C)
 - Graphite packing: -65°F to 1200°F (-54°C to 649°C)
 - Orifice: 0.157 in. (4.0 mm), CV: 0.35
- Two-stem design: thread hardened upper stem and smooth surface hardened lower stem
 - Upper stem thread lubricant isolated from system media
- Linearly instead of helical movement of the nonrotating lower stem, avoiding galling damage to the seat and tip, as well as reducing the total friction area between the packing and the lower stem
 - Safety back seating seals in fully open position
- Steady and durable fastening of the handle by double lock-pins
-
- Suitable for sour gas service; materials are selected in accordance with NACE MR0175/ISO 15156.
- Every valve is 100% factory tested with nitrogen.

Pressure vs. Temperature

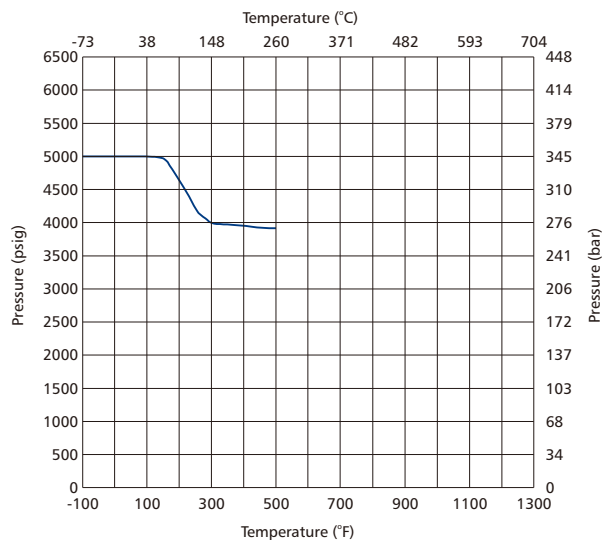
Graphite packing with 316 SS Valve Body



Graphite packing with Alloy C-276 Valve Body



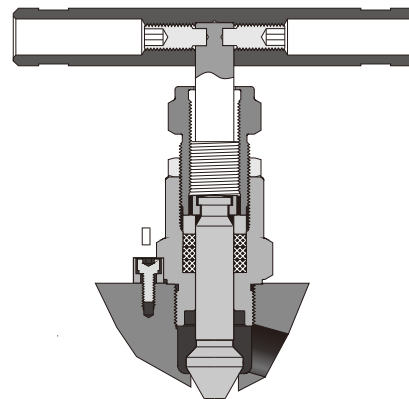
Graphite packing with Alloy 400 Valve Body



Standard Materials of Construction

| Item | Part | Valve Body Material | | |
|-----------|--------------|------------------------------|------------------------------|------------------|
| | | 316 SS | Alloy 400 | Alloy C-276 |
| 1 | Handle | Stainless Steel | | |
| 2 | Set Screw | Nickel cadmium-plated steel | | |
| 3 | Packing Bolt | 321 SS/A276 | | |
| 4 | Upper Stem | 316 SS/A276 | | |
| 5 | Lock Nut | 316 SS/B783 | | |
| 6 | Bonnet | 316 SS/A479 | Alloy R-405/B164 | Alloy C-276/B574 |
| 7 | Gland | 316 SS/A276 | | |
| 8 | Packing | PTFE or PEEK or graphite | | |
| 9 | Lock Pin | 304 SS/A276 | | |
| 10 | Lower Stem | Chrome-plated 316 SS/A276 | Alloy R-405/B164 | Alloy C-276/B574 |
| 11 | Body | 316 SS/A479 316 SS/A182 | Alloy 400/B164, B127,B564 | Alloy C-276/B564 |
| Lubricant | | Molybdenum disulfide-based | | |

Process interface valves for sour gas service are available. Materials are selected in accordance with NACE MR0175/ISO 15150. Contact the authorized representative or VFK if any request.



Instrument Manifolds

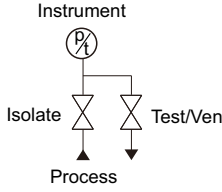
- Instrument manifold are manufactured in accordance with ANSI B31.1 and B31.3, specifications meet MSS-SP-105. Flange design meets the requirements of MSS SP-99.
- 2-valve manifold are used with pressure gauges or pressure transmitters.
- 3-valve and 5-valve manifold are used with differential pressure transmitters.

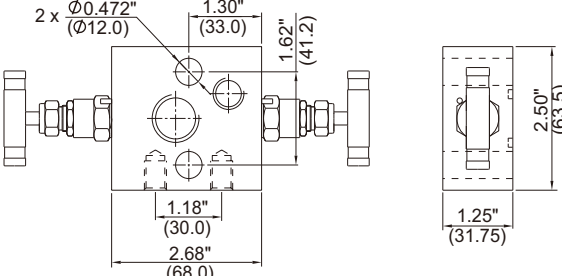
2-valve Manifolds

Consist of one block valve and one bleed valve

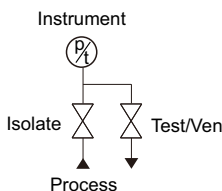
| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|--|----------------|-------------------|----------------|--------------|
| <div><input type="checkbox"/> 72D-FN8-A</div> <div><input type="checkbox"/> 72D-FN8-AG</div> | 1/2 Female NPT | Flanged | 1/4 Female NPT | |
| | | | | |

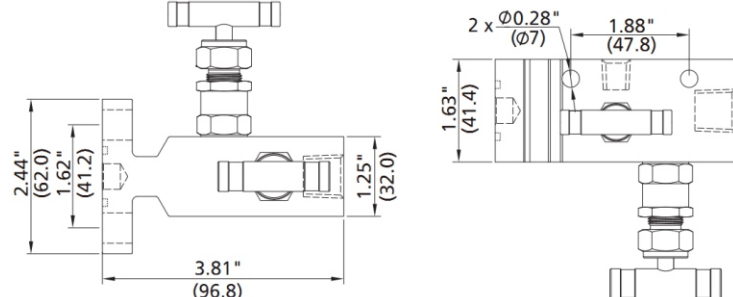
Every manifold is supplied with one PTFE sealing ring for manifold-to-instrument and four 7/16" UNF x 1.75" high tensile bolts.

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|--|----------------|-------------------|----------------|---|
| <input type="checkbox"/> <input type="checkbox"/> 72D-FN8-L | 1/2 Female NPT | Flange | 1/4 Female NPT |  |
| <input type="checkbox"/> <input type="checkbox"/> 72D-FN8-LG | | | | |

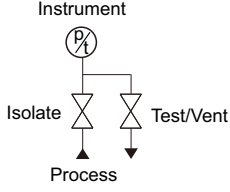


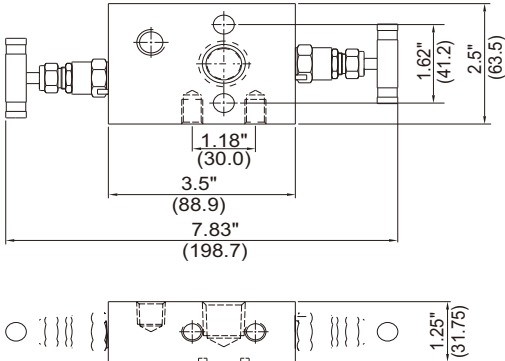
Every manifold is supplied with one PTFE sealing ring for manifold-to-instrument and two 7/16" UNF x 1.75" high tensile bolts.

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|--|----------------|-------------------|----------------|--|
| <input type="checkbox"/> <input type="checkbox"/> 72D-FN8-T | 1/2 Female NPT | Flange | 1/4 Female NPT |  |
| <input type="checkbox"/> <input type="checkbox"/> 72D-FN8-TG | | | | |



Every manifold is supplied with one PTFE sealing ring for manifold-to-instrument and two 7/16" UNF x 24 mm high tensile bolts.

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|--|----------------|-------------------|----------------|---|
| <input type="checkbox"/> <input type="checkbox"/> 72D-FN8-H | 1/2 Female NPT | Flange | 1/4 Female NPT |  |
| <input type="checkbox"/> <input type="checkbox"/> 72D-FN8-HG | | | | |

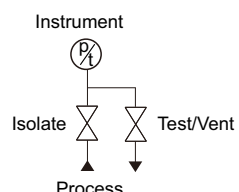


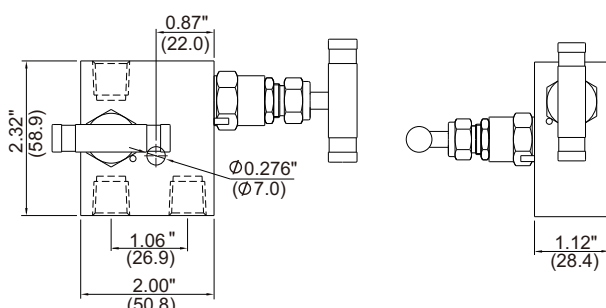
Every manifold is supplied with one PTFE sealing ring for manifold-to-instrument and two 7/16" UNF x 1.75" high tensile bolts.

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|--|---------------|-------------------|----------------|---|
| <div><div><div></div><div></div></div>72D-F-H</div> <div><div><div></div><div></div></div>72D-F-HG</div> | Flange | Flange | 1/4 Female NPT | <div><div><div>Instrument</div><div><div><div><div><div><div><div></div><div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div><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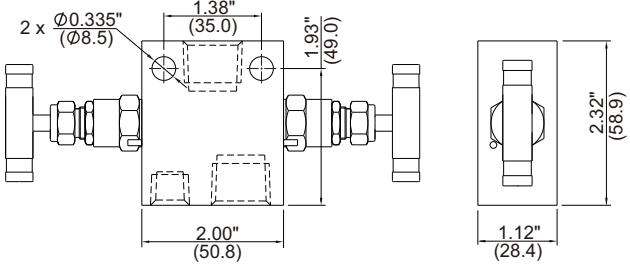
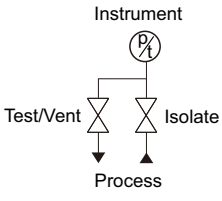
Every manifold is supplied with one PTFE sealing ring for manifold-to-instrument and two 7/16" UNF x 1.75" high tensile bolts.

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|--|----------------|-------------------|----------------|--------------|
| <div><div><input type="checkbox"/> 72R-FN4-A</div><div><input type="checkbox"/> 72R-FN4-AG</div></div> | 1/4 Female NPT | 1/4 Female NPT | 1/4 Female NPT | |
| <div><div></div><div></div></div> | | | | |
| <div><div></div></div> | | | | |

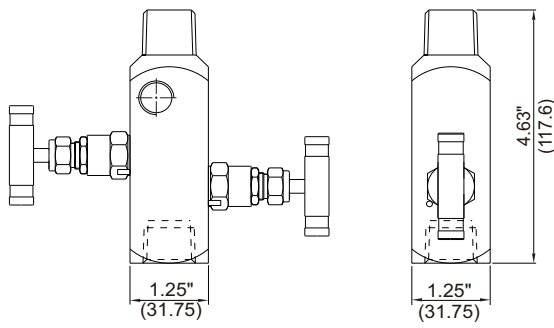
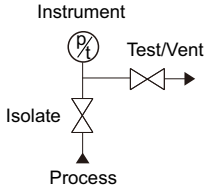
| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|--|----------------|-------------------|----------------|---|
| <input type="checkbox"/> <input type="checkbox"/> 72R-FN4-C | 1/4 Female NPT | 1/4 Female NPT | 1/4 Female NPT |  |
| <input type="checkbox"/> <input type="checkbox"/> 72R-FN4-CG | | | | |



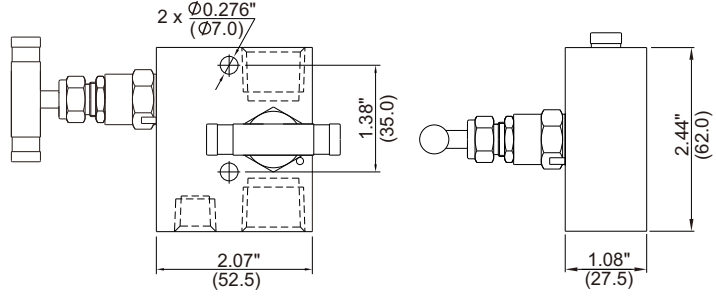
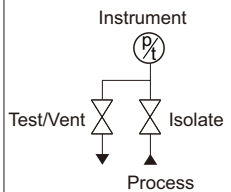
| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|-----------------------|----------------|-------------------|----------------|--------------|
| □□72R-FN8-L | 1/2 Female NPT | 1/2 Female NPT | 1/4 Female NPT | |
| □□72R-FN8-LG | | | | |

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|-----------------------|----------------|-------------------|----------------|--------------|
| □□72R-FN8N8-H | 1/2 Female NPT | 1/2 Male NPT | 1/4 Female NPT | |
| □□72R-FN8N8-HG | | | | |
| □□72R-N8-H | 1/2 Male NPT | 1/2 Male NPT | 1/4 Female NPT | |
| □□72R-N8-HG | | | | |

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|-----------------------|----------------|-------------------|----------------|--------------|
| □□72R-FN8-V | 1/2 Female NPT | 1/2 Female NPT | 1/4 Female NPT | |
| □□72R-FN8-VG | | | | |

3-valve Manifolds

Consist of two block valves and one equalizer valve

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Flow Diagram |
|--|----------------|-------------------|--------------|
| <input type="checkbox"/> <input type="checkbox"/> 73D-FN8-T | 1/2 Female NPT | Flange | |
| <input type="checkbox"/> <input type="checkbox"/> 73D-FN8-TG | | | |
| <input type="checkbox"/> <input type="checkbox"/> 73D-FX8-T | 1/2" VFK | Flange | |
| <input type="checkbox"/> <input type="checkbox"/> 73D-FX8-TG | | | |

Technical drawing of the 3-valve manifold showing front and side views with dimensions.

Front View Dimensions:

- Overall width: 3.74" (95.0)
- Port spacing: 1.14" (29)
- Port diameter: 2 x $\varnothing 0.28"$ ($\varnothing 7$)

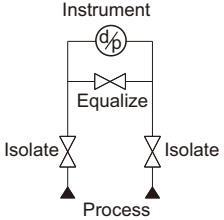
Side View Dimensions:

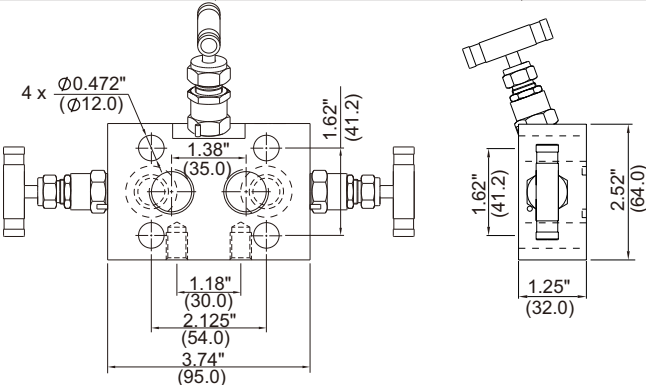
- Overall height: 3.38" (86)
- Port height: 2.13" (54)
- Port diameter: 1.25" (32.0)
- Port spacing: 1.62" (41.2)
- Port diameter: 2.40" (61)

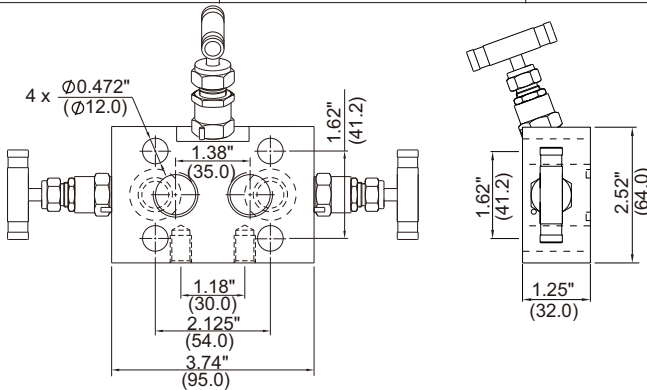
Every manifold is supplied with two PTFE sealing rings manifold-to-instrument and four 7/16" UNF x 24 mm high tensile bolts.

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Flow Diagram |
|---|---------------|-------------------|--------------|
| <div><div><div></div><div></div></div><div>73D-F-I</div></div> | Flange | Flange | |
| <div><div><div></div><div></div></div><div>73D-F-IG</div></div> | | | |
| | | | |
| | | | |

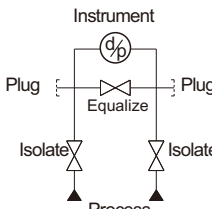
Every manifold is supplied with two PTFE sealing rings for manifold-to-instrument and eight 7/16" UNF x 24 mm high tensile bolts.

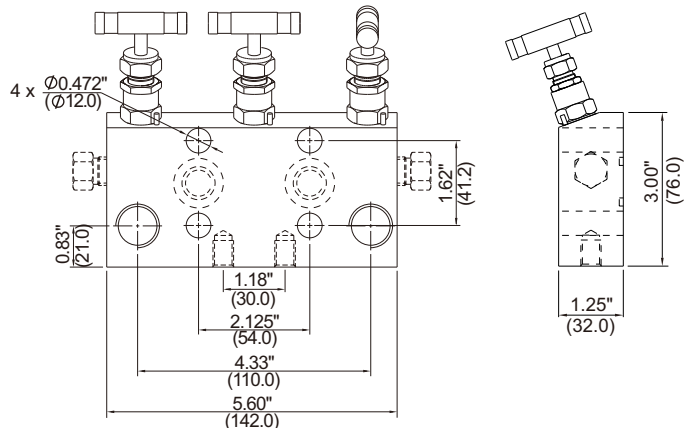
| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Flow Diagram |
|--|----------------|-------------------|---|
| <input type="checkbox"/> <input type="checkbox"/> 73D-FN8-A | 1/2 Female NPT | Flange |  |
| <input type="checkbox"/> <input type="checkbox"/> 73D-FN8-AG | | | |
| <input type="checkbox"/> <input type="checkbox"/> 73D-FX8-A | 1/2" VFK | Flange | |
| <input type="checkbox"/> <input type="checkbox"/> 73D-FX8-AG | | | |

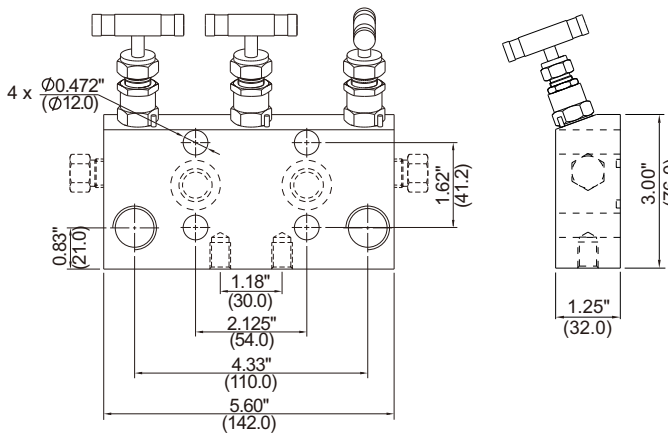




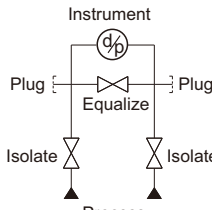
Every manifold is supplied with two PTFE sealing rings manifold-to-instrument and four 7/16" UNF x 1.75" high tensile bolts.

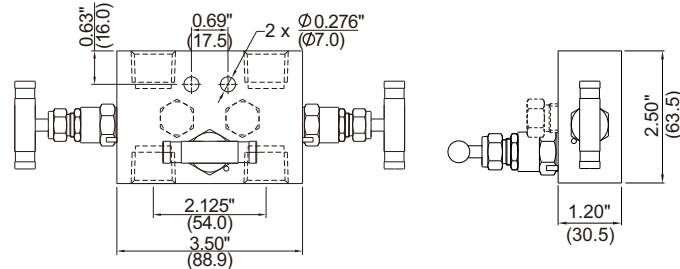
| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|-----------------------|----------------|-------------------|-----------|---|
| □□73D-FN8-L | 1/2 Female NPT | Flange | Optional |  |
| □□73D-FN8-LG | | | | |
| □□73D-FX8-L | 1/2" VFK | Flange | Optional | |
| □□73D-FX8-LG | | | | |

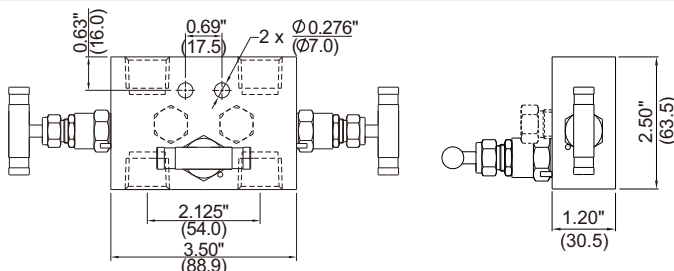




Every manifold is supplied with two PTFE sealing rings for manifold-to-instrument and four 7/16" UNF x 1.75" high tensile bolts.

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|--|----------------|-------------------|-----------|---|
| <input type="checkbox"/> <input type="checkbox"/> 73R-FN8-V | 1/2 Female NPT | 1/2 Female NPT | Optional |  |
| <input type="checkbox"/> <input type="checkbox"/> 73R-FN8-VG | | | | |
| <input type="checkbox"/> <input type="checkbox"/> 73R-FX8-V | 1/2" VFK | 1/2" VFK | Optional | |
| <input type="checkbox"/> <input type="checkbox"/> 73R-FX8-VG | | | | |





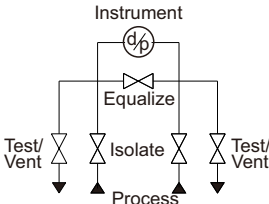
5-valve Manifolds

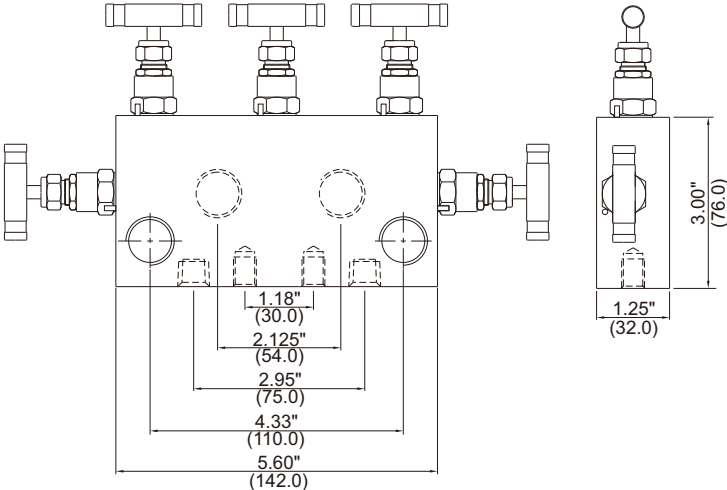
Double-bleed Function of 5-valve Manifold

Consist of two block valves, two bleed valves, and one equalizer valve

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|---|----------------|-------------------|----------------|--------------|
| <div><div>□□75D-FN8-A</div><div>□□75D-FN8-AG</div><div>□□75D-FX8-A</div><div>□□75D-FX8-AG</div></div> | 1/2 Female NPT | Flange | 1/4 Female NPT | |
| | 1/2" VFK | Flange | 1/4 Female NPT | |
| | | | | |
| | | | | |

Every manifold is supplied with two PTFE sealing rings for manifold-to-instrument and four 7/16" UNF x 1.75" high tensile bolts.

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|-----------------------|----------------|-------------------|----------------|---|
| □□75R-FN8-L | 1/2 Female NPT | 1/2 Female NPT | 1/4 Female NPT |  |
| □□75R-FN8-LG | | | | |
| □□75R-FX8FN8-L | 1/2" VFK | 1/2 Female NPT | 1/4 Female NPT | |
| □□75R-FX8FN8-LG | | | | |



| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|-----------------------|----------------|-------------------|----------------|--------------|
| □□75D-FN8-T | 1/2 Female NPT | Flange | 1/4 Female NPT | |
| □□75D-FN8-TG | | | | |

Every manifold is supplied with two PTFE sealing rings for manifold-to-instrument and four 7/16" UNF x 24 mm high tensile bolts.

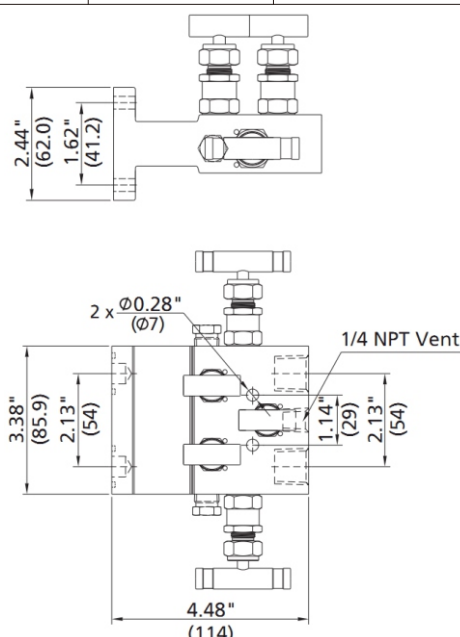
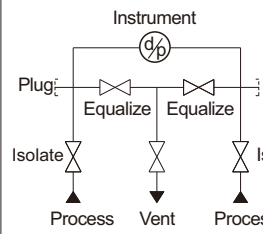
5-valve Custody Transfer/Fiscal Metering Manifold

Consist of two block valves, one bleed valve, and two equalizer valves

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Vent | Test | Flow Diagram |
|-----------------------|----------------|-------------------|----------------|----------|--------------|
| □□75D-FN8-B | 1/2 Female NPT | Flanged | 1/4 Female NPT | Optional | |
| □□75D-FN8-BG | | | | | |
| □□75D-FX8-B | 1/2" VFK | Flanged | 1/4 Female NPT | Optional | |
| □□75D-FX8-BG | | | | | |

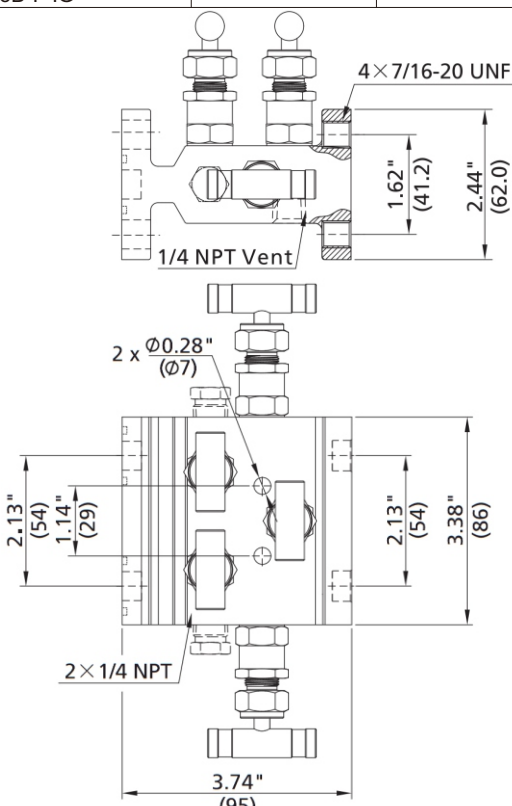
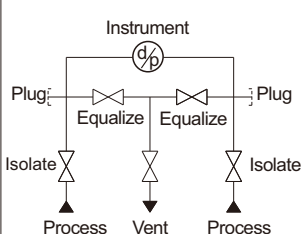
Every manifold is supplied with two PTFE sealing rings for manifold-to-instrument and four 7/16" UNF x 1.75" high tensile bolts.

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|-----------------------|----------------|-------------------|----------------|--------------|
| □□75D-FN8-TB | 1/2 Female NPT | Flange | 1/4 Female NPT | |
| □□75D-FN8-TBG | | | | |

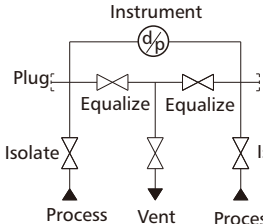



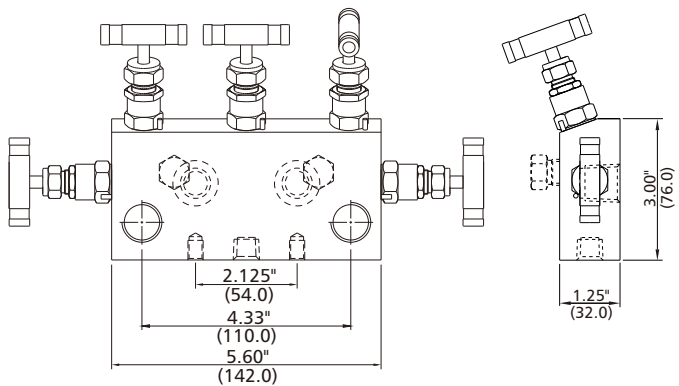
Every manifold is supplied with two PTFE sealing rings for manifold-to-instrument and four 7/16" UNF x 24 mm high tensile bolts.

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|-----------------------|---------------|-------------------|----------------|--------------|
| □□75D-F-I | Flange | Flange | 1/4 Female NPT | |
| □□75D-F-IG | | | | |

Every manifold is supplied with two PTFE sealing rings for manifold-to-instrument and four 7/16" UNF x 24 mm high tensile bolts.

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Vent | Test | Flow Diagram |
|--|----------------|-------------------|----------------|----------|---|
| <input type="checkbox"/> <input type="checkbox"/> 75R -FN8-B | 1/2 Female NPT | 1/2 Female NPT | 1/4 Female NPT | Optional |  |
| <input type="checkbox"/> <input type="checkbox"/> 75R -FN8-BG | | | | | |
| <input type="checkbox"/> <input type="checkbox"/> 75R -FX8FN8-B | 1/2" VFK | 1/2 Female NPT | 1/4 Female NPT | Optional | |
| <input type="checkbox"/> <input type="checkbox"/> 75R -FX8FN8-BG | | | | | |



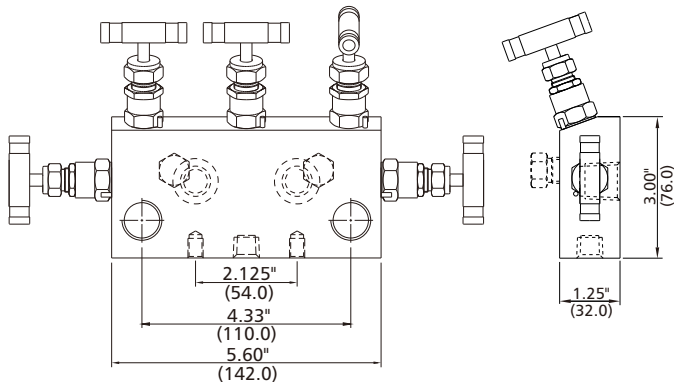
Technical drawing of the manifold showing top and side views with dimensions.

Top View Dimensions:

- Overall width: 5.60" (142.0)
- Distance between top ports: 4.33" (110.0)
- Distance between bottom ports: 2.125" (54.0)

Side View Dimensions:

- Overall height: 3.00" (76.0)
- Distance from bottom to top port: 1.25" (32.0)



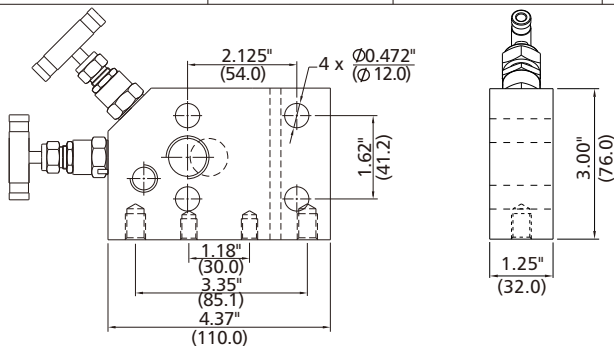
C-Integral Manifolds

This section is presently characterized by manifold designed specifically for Rosemount® coplanar™ pressure transmitters including the model 3051C, model 3051P, model 2024 and the model 3095.

Each of the following manifold contains four 7/16" UNF x 1.75" high tensile bolts.

2-valve Manifolds

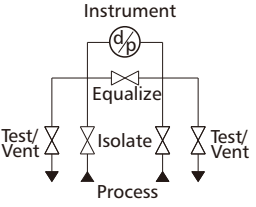
| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|-----------------------|----------------|-------------------|----------------|--------------|
| □□72D -FN8-C | 1/2 Female NPT | Flanged | 1/4 Female NPT | |
| □□72D -FN8-CG | | | | |

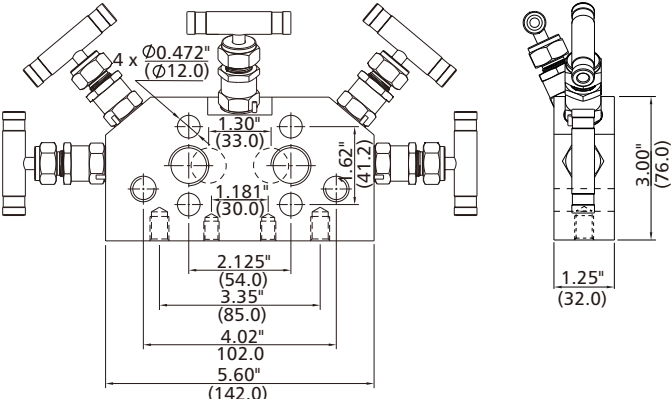


3-valve Manifolds

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|-----------------------|----------------|-------------------|-----------|--------------|
| □□73D-FN8-C | 1/2 Female NPT | Flange | Optional | |
| □□73D-FN8-CG | | | | |
| □□73D-FX8-C | 1/2" VFK | Flange | Optional | |
| □□73D-FX8-CG | | | | |

5-valve Manifolds

| Basic Ordering Number | Inlet/Process | Outlet/Instrument | Test/Vent | Flow Diagram |
|-----------------------|----------------|-------------------|----------------|---|
| □□75D -FN8-C | 1/2 Female NPT | Flange | 1/4 Female NPT |  |
| □□75D -FN8-CG | | | 1/4 Female NPT | |
| □□75D -FX8-C | 1/2" VFK | Flange | 1/4 Female NPT | |
| □□75D -FX8-CG | | | 1/4 Female NPT | |



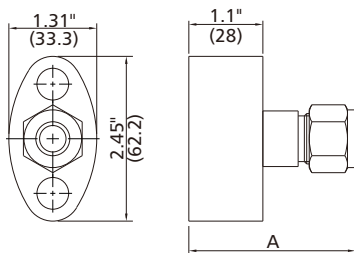
Accessories

Kidney Flange and Eccentric Flange

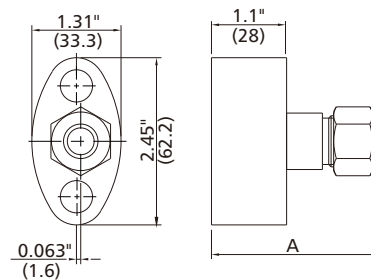
Features

- Working temperature :
PTFE: -65°F to 450°F (-54°C to 232°C)
Graphite: -65°F to 1000°F (-54°C to 538°C)
- Integral forged body
- Standard material: A182 F316

Kidney Flange



Eccentric Flange



The process connection type of transmitter can be transformed to other connection types.

Ordering Information

| Basic Ordering Number | Connection Type and Size | Dimension in. (mm) |
|-----------------------|--------------------------|--------------------|
| | | A |
| SSKF-FN4 | 1/4 Female NPT | 1.1 (28) |
| SSKF-FN8 | 1/2 Female NPT | 1.1 (28) |
| SSKF-FX8 | 1/2" VFK | 2.48 (63) |
| SSKF-PB8 | 1/2 PB | 2.1 (53.3) |

A kidney flange set contains a PTFE flange seal ring and two 7/16 - 20 UNF high tensile bolts.

The Selection of Flange Seal Materials

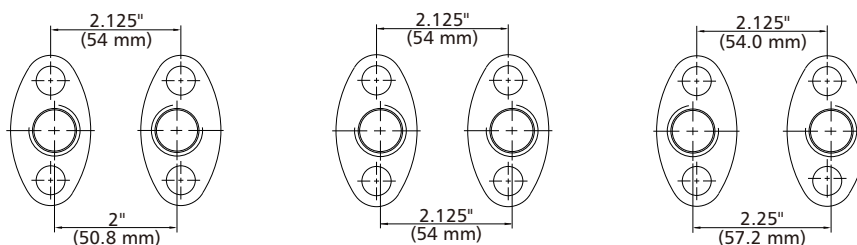
The standard flange seal material is PTFE, graphite is an option, to order graphite flange seal material, add -G as a suffix.

Ordering Information

| Basic Ordering Number | Connection Type and Size | Dimension in. (mm) |
|-----------------------|--------------------------|--------------------|
| | | A |
| SSEF-FN4 | 1/4 Female NPT | 1.1 (28) |
| SSEF-FN8 | 1/2 Female NPT | 1.1 (28) |
| SSEF-FX8 | 1/2" VFK | 2.48 (63) |
| SSEF-PB8 | 1/2 PB | 2.1 (53.3) |

1. Eccentric flange needs to be ordered in whole set.
2. A whole eccentric flange set contains two eccentric flanges, two PTFE flange seal rings and four 7/16 - 20 UNF high tensile bolts.

Various Combinations of Eccentric Flange Set



Combinations of eccentric flange set can give different center line distances of 2.0" (50.8 mm) , 2.125" (54 mm) and 2.25" (57 mm).

Instrument Manifolds How to Order

| A | B | C | D | E | F | G |
|---------------|--------------|------------|------------|-------------|-------------|-------------------|
| Body Material | Valve Series | Inlet Type | Inlet Size | Outlet Type | Outlet Size | Test Ports /Plugs |
| SS | 75 | FN | 8 | MTS | 10 | 6 |

| H | I | J |
|------------|--------------------------|-------------|
| Body Style | Packing/Sealing Material | NACE MR0175 |
| C | G | SG |

| A | Body Material |
|-------------|---------------|
| SS: | 316 SS |
| 6L: | 316L SS |
| S4: | 304 SS |
| 4L: | 304L SS |
| S1: | 321 SS |
| 91: | F91 |
| 92: | F92 |
| D5: | Duplex 2205 |
| D7: | Duplex 2507 |
| TI: | Titanium |
| A20: | Alloy 20 |
| M: | Alloy 400 |
| INC: | Alloy 600 |
| HC: | Alloy C-276 |

| CE | Inlet/Outlet Type |
|-----------|-------------------------|
| FN | Female NPT |
| N | Male NPT |
| FR | Female BSPT |
| RT | Male BSPT |
| FM | Female ISO (for MRP) |
| MS | Male ISO (for MRG) |
| FP | Female BSPP (for RP) |
| BP | Male BSPP (for RG) |
| FX | Fractional Tube Fitting |
| MX | Metric Tube Fitting |
| F | Flange |

| DF | Inlet/Outlet Size |
|-----------|------------------------------|
| 2 | 1/8" |
| 4 | 1/4" |
| 6 | 3/8" or 6 mm |
| 8 | 1/2" or 8 mm |
| 10 | 10 mm |
| 12 | 3/4" or 12 mm |
| 14 | 14 mm or M14 x 1.5 |
| 16 | 1" or 16 mm |
| 18 | 18 mm |
| 20 | 1 1/4" or 20 mm or M20 x 1.5 |
| 22 | 22 mm or M22 x 1.5 |
| 24 | M24 x 1.5 |

| H | Body Style |
|----------|-------------------------------|
| A | Angle Pattern |
| B | Double-equalize Function |
| C | Compact Pattern |
| L | Valves In-Line Mounted |
| H | Valves Horizontally Mounted |
| V | Valves Vertically Mounted |
| T | Valves Body "T" Style Mounted |
| I | Valves Body "H" Style Mounted |

| B | Valve Series |
|-------------|-----------------------|
| 72D: | 2-Valves Direct Mount |
| 72R: | 2-Valves Remote Mount |
| 73D: | 3-Valves Direct Mount |
| 73R: | 3-Valves Remote Mount |
| 75D: | 5-Valves Direct Mount |
| 75R: | 5-Valves Remote Mount |

| G | Test Ports/Plugs |
|---------------------------------------|----------------------------------|
| Standard with no Test Ports and Plugs | |
| T | 1/4 Female NPT with Relief Valve |
| P | 1/4 Female NPT with Plug |

| I | Packing/Sealing Material |
|-----------------------|--------------------------|
| Standard chevron PTFE | |
| P | PEEK |
| G | Graphite |

| J | NACE MR0175 |
|----------------------------------|------------------|
| Standard with no NACE applicable | |
| SG | With NACE MR0175 |

The auxiliary installation for manifolds and transmitters of different brands

| Model of FEDEX Manifolds Model of Transmitters | 73(5)DXX-XX-X | 73(5)RXX-FXXX-X | 72DXX-XXX-X | 72RXX-FXXX-X |
|---|---------------|-----------------|-------------|--------------|
| Rosemount Transmitters | | | | |
| 3051 CD X X 2 (3, 4, 5, 7, 8) X X X X | A4 | | | |
| 3051 CD X X 0 X X X X H2 (H3, H4, H7, HJ) | A1 | | | |
| 3051 CD X X 0 X X X X HK | A2 | | | |
| 3051 CD X X 0 X X X X HL | A3 | | | |
| 3051 CD X X 0 X X X X DF | A5 | A | | |
| 3051 CG (CA) X X 2 (3, 4, 5, 7, 8) X X X X | | | A4 | |
| 3051 CG (CA) X X 0 X X X X H2 (H3, H4, H7, HJ) | | | A1 | |
| 3051 CG (CA) X X 0 X X X X HK | | | A2 | |
| 3051 CG (CA) X X 0 X X X X HL | | | A3 | |
| 3051 CG (CA) X X 0 X X X X DF | | | A5 | A |
| 1151 D (H) P 3 (4, 5) X XX XX | A1 | | | |
| 1151 A (G) P 3 (4, 5) X XX XX | | | A1 | |
| 1151 D (H) P X X XX XX DF | A5 | A | | |
| EJA Transmitters | | | | |
| EJA1X0A-XXX0 (5) X-XXXX | A1 | | | |
| EJA1X0A-XXX1 (2, 3, 4) X-XXXX | A5 | A | | |
| EJA3 (4, 5) X0A-XXX0 (5)X-XXXX | | | A1 | |
| EJA3 (4, 5) X0A-XXX1 (2,3,4)X-XXXX | | | A5 | A |
| Honeywell Transmitters | | | | |
| STDXXX-XXA-XXX | A1 | | | |
| STDXXX-XXH-XXX | A5 | A | A5 | |
| STXXX-XXG-XXX | | | A1 | A |
| STGXXX-XXA-XXX | | | | |
| SMXXXX-XXA-XXX | A1 | | | |
| SMXXXX-XXH-XXX | A5 | A | | |
| SIEMENS Transmitters | | | | |
| 7MF433X-XXX0 (4) X-XXXX | | | A2 | A |
| 7MF433X-XXX2 (6) X-XXXX | | | A1 | A |
| 7MF44 (5) 3X-XXX0 (4) X-XXXX | A2 | | | |
| 7MF44 (5) 3X-XXX2 (3, 6, 7) X-XXXX | A1 | | | |
| 7MF44 (5) 3X-XXX1 (5) X-XXXX | A3 | | | |

A: Connecting with fittings

A1: Connecting with flange and sealing rings, using 7/16 - 20 UNF x 1.75" bolts

A2: Connecting with flange and sealing rings, using M10 x 40 mm bolts

A3: Connecting with flange and sealing rings, using M12 x 40 mm bolts

A4: Connecting with flange and sealing rings, using 7/16 - 20 UNF x 3" bolts

A5: Remove the kidney flanges and then connect with flange and sealing rings



VFK

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