

Rosemount Manifolds



- Factory assembled, leak-tested, and calibrated
- Full breadth of offering including integral, conventional, and in-line designs
- Integral design enables “flangeless” valve integration
- 2, 3, and 5-valve configurations
- Compact, lightweight design
- Easy in-process calibration
- Direct-mount capability

Contents

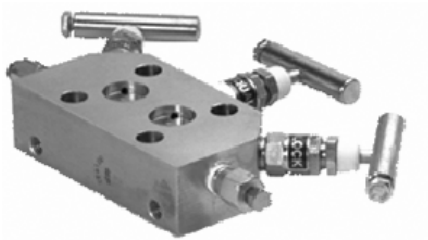
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Rosemount Manifolds Selection Guide

Rosemount 305 Integral Manifold

See “Options” on page 30.

- Assembles directly to transmitter, eliminating need for flange
- 2, 3, and 5-valve configuration
- Available in Coplanar™ and traditional styles
- Compact, lightweight assembly
- Factory assembled, seal-tested, and calibrated
- 50% fewer leak points than conventional transmitter/flange/manifold interface

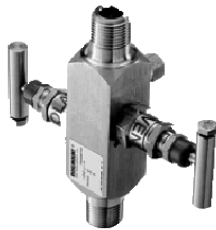


Rosemount 305 Integral Manifold- Coplanar Style

Rosemount 306 In-Line Manifold

See “Options” on page 30.

- Assembled directly to in-line pressure transmitters
- Block-and-Bleed and 2-valve configurations
- Male or female threaded NPT process connection

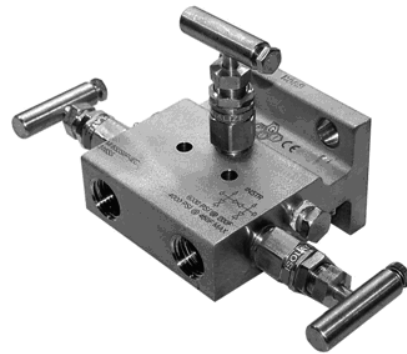


Rosemount 306 In-Line Manifold

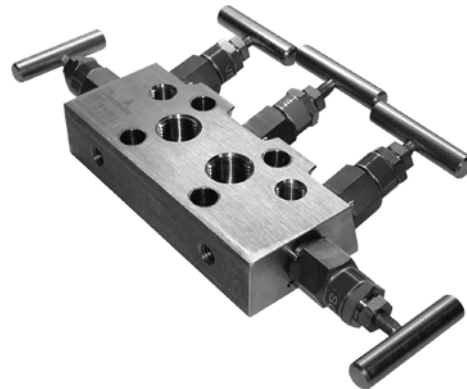
Rosemount 304 Conventional Manifold

See “Options” on page 30.

- Attaches to transmitter flange
- 2, 3, and 5-valve configurations
- Traditional (Flange x Flange, Flange x NPT) & Wafer styles
- Factory assembled, seal-tested, and calibrated



Rosemount 304 Conventional Manifold-Traditional Style



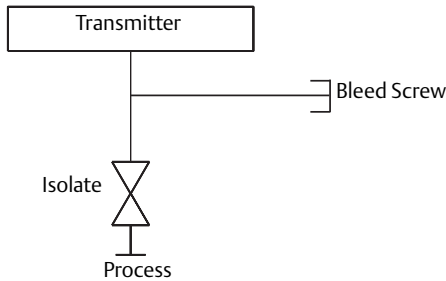
Rosemount 304 Conventional Manifold-Wafer Style

Valve Configuration

Block-and-bleed

The block-and-bleed configuration is available on the Rosemount 306 Manifold for use with in-line gage and absolute pressure transmitters. A single block valve provides instrument isolation and a plug provides drain/vent capabilities.

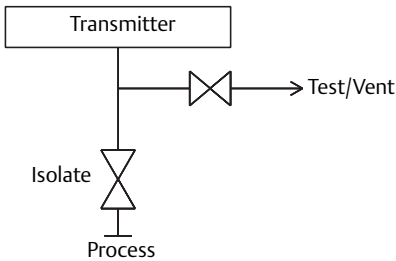
306 Manifold



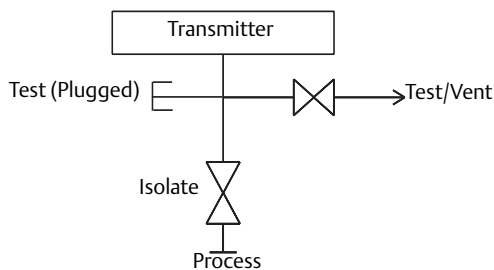
Two-valve

The two-valve configuration is available on Rosemount 305, 306, and 304 Manifolds for use with absolute and gage pressure transmitters. A block valve provides instrument isolation and a drain/vent valve allows venting, draining, or calibration.

305 & 306 Manifolds



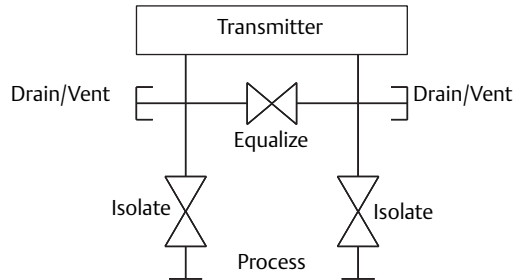
304 Manifold



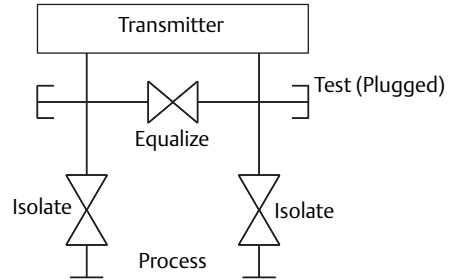
Three-valve

The three-valve configuration is available on Rosemount 305 and 304 Manifolds for use with differential pressure and multi-variable transmitters. Two block valves provide instrument isolation, and one equalize valve is positioned between the high and low transmitter process connections.

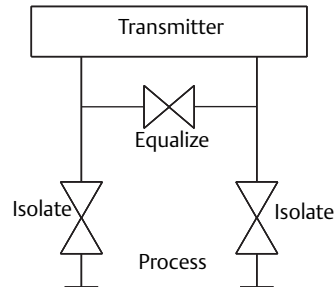
305 Manifold



304 (Traditional) Manifold



304 (Wafer) Manifold



Note

Test/vents receive plastic caps to protect threaded connections unless otherwise noted.

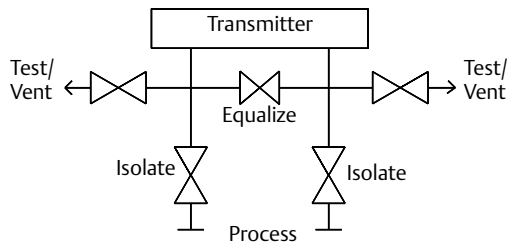
Note

Test (plugged) connections receive 1/4-in. NPT plugs unless otherwise noted.

Five-valve

The five-valve configuration is available on Rosemount 305 and 304 Manifolds for use with differential pressure and multi-variable transmitters. Two block valves provide instrument isolation and one equalize valve is positioned between the high and low transmitter process connections. In addition, two drain/vent valves allow for controlled venting, 100% capture of vented or drained process, and simplified in-process calibration capability.

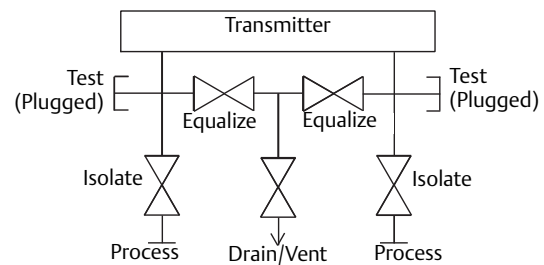
305 Manifolds & 304 (Wafer)



Five-valve natural gas

The five-valve natural gas configuration is available on the Rosemount 305 and 304 Manifolds for use with differential pressure and multi-variable transmitters. Two block valves provide instrument isolation and a single drain/vent valve allows for controlled venting, 100% capture of vented or drained process, and simplified in-process calibration capability. In addition, two equalize valves provide extra protection from leaking to ensure DP signal integrity.

305 Manifolds & 304 (Traditional)



Note

Test/vents receive plastic caps to protect threaded connections unless otherwise noted.

Note

Test (plugged) connections receive 1/4-in. NPT plugs unless otherwise noted.

Ordering Information

Rosemount Manifolds can be ordered as a stand-alone product or as an integrated assembly that is attached to a transmitter.

Stand-alone manifold

1. Reference the “Rosemount Manifolds Selection Guide” (see [page 3](#)) for assistance on choosing the type of manifold needed.
2. Specify a completed model number by referencing the applicable ordering table for the selected manifold type:
 - a. Rosemount 305 Integral Manifold, see [page 7](#).
 - b. Rosemount 306 In-Line Manifold, see [page 13](#).
 - c. Rosemount 304 Conventional Manifold, see [page 7](#).

Transmitter/manifold assembly

1. Specify a completed Rosemount transmitter model number by referencing the applicable product data sheet.
2. Specify a completed manifold model number by referencing the applicable ordering table for the selected manifold type:
 - a. Rosemount 305 Integral Manifold, see [page 7](#).
 - b. Rosemount 306 In-Line Manifold, see [page 13](#).
 - c. Rosemount 304 Conventional Manifold, see [page 7](#).
3. Verify the transmitter model number contains the correct “Process Connection” code or “Manifold Option” code for the desired transmitter manifold assembly (see [Table 1](#)).

Table 1. Ordering Codes for a Transmitter/Manifold Assembly

Transmitter	Manifold	Process connection code	“Manifold” option code
3051S	305	A11	N/A
	306	A11	N/A
	304	A12	N/A
3051/2051	305	N/A	S5
	306	N/A	S5
	304	N/A	S6
2088	305	N/A	N/A
	306	N/A	S5
	304	N/A	N/A

Specification and selection of product materials, options, or components must be made by the purchaser of the equipment. See [page 13](#) for more information on Material Selection.

Table 2. Rosemount 305 Integral Manifold Ordering Information

★ The Standard offering represents the most common options. The starred options (★) should be selected for best delivery.

The Expanded offering is subject to additional delivery lead time.

Model	Product description			
0305	Integral Manifold			
Manufacturer				
R	Rosemount			★
Manifold style				
C	Coplanar			★
T	Traditional			★
M	Traditional (DIN-compliant flange)			★
Manifold type				
2	2-valve			★
3	3-valve			★
5 ⁽¹⁾	5-valve			★
6 ⁽²⁾	5-valve Natural Gas Metering Pattern			★
7 ⁽²⁾⁽³⁾	2-valve (per ASME B31.1 [ANSI] Power and Piping Code)			
8 ⁽²⁾⁽³⁾	3-valve (per ASME B31.1 [ANSI] Power and Piping Code)			
9 ⁽²⁾⁽³⁾	5-valve (per ASME B31.1 [ANSI] Power and Piping Code)			
	Body	Bonnet	Stem and tip/ball	
2	316 SST	316 SST	316 SST	★
3 ⁽⁴⁾	Alloy C-276	Alloy C-276	Alloy C-276	
4	Alloy 400	Alloy 400	Alloy 400/K-500	
Process connection style				
A ⁽⁵⁾	1/4-18 NPT female			★
B ⁽⁶⁾	1/2-14 NPT female			★
Packing material				
1	PTFE			★
2 ⁽⁷⁾	Graphite-based			
Valve seat				
1	Integral			★
5	Soft delrin (only available with natural gas metering pattern)			★

Options

Extended product warranty				
WR3	3-year limited warranty			★
WR5	5-year limited warranty			★
Mounting brackets				
B1	Bracket for 2-in. pipe mounting, CS bolts			★

Table 2. Rosemount 305 Integral Manifold Ordering Information

★ The Standard offering represents the most common options. The starred options (★) should be selected for best delivery.

The Expanded offering is subject to additional delivery lead time.

B3 ⁽⁸⁾	Flat bracket for 2-in. pipe mounting, CS bolts	★
B4	SST Mounting Bracket for 2-in. pipe mounting, 300 SST bolts	★
B7	B1 bracket with 316 SST bolts	★
B9 ⁽⁸⁾	B3 bracket with 316 SST bolts	★
BA	316 SST B1 bracket with 316 SST bolts	★
BC ⁽⁸⁾	316 SST B3 bracket with 316 SST bolts	★
BE	316 SST B4 bracket with 316 SST bolts	★
Bolt materials		
L4 ⁽⁹⁾	Austenitic 316 SST bolts	★
L5	ASTM A193, Grade B7M bolts	★
L8	ASTM A193, Class 2, Grade B8M bolts	★
Cleanings		
P2 ⁽¹⁰⁾	Cleaning for special services	★
Material recommendations for NACE		
SG ⁽⁴⁾⁽¹¹⁾	Sour Gas (Meets NACE MR 0175 / ISO 15156, MR 0103)	★
Adapters		
DF ⁽¹²⁾	1/2-14 NPT female flange adapter	★
DQ ⁽¹²⁾	12 mm ferrule tube flange adapter	
Process flange bolting connection		
HK ⁽¹³⁾	10 mm (M10) process flange bolting connection	★
HL ⁽¹³⁾	12 mm (M12) process flange bolting connection	★
Typical coplanar integral manifold model number: 305RC32B11B4		

(1) Not available with traditional manifold style T.

(2) Only available with Coplanar manifold style code C.

(3) Only available with 316 SST materials of construction code 2 and graphite based backing code 2.

(4) Materials of Construction comply with recommendations per NACE MR 0175/ISO 15156 for sour oil field production environments. Environmental limits apply to certain materials. Consult latest standard for details. Selected materials also conform to NACE MR0103 for sour refining environments.

(5) Only available with traditional manifold style codes T and M.

(6) Not available with traditional manifold style code M.

(7) Includes graphite tape on drain/vent valves and plugs.

(8) Not compatible with the Rosemount 3095 transmitter.

(9) Not available with ASME B31.1 manifold type codes 7, 8, and 9.

(10) Not available with Graphite-Based Packing Material code 2.

(11) Only available with 316 SST Materials of Construction Code 2: 316 SST body and bonnets; Alloy C-276 stems, tip/balls, and drain/vents.

(12) Only allowed with Manifold Style code T. Not allowed with Graphite-Based Packing code 2.

(13) Only available with traditional manifold style code M.

Specification and selection of product materials, options, or components must be made by the purchaser of the equipment. See [page 13](#) for more information on Material Selection.

Table 3. Rosemount 306 Pressure Manifold Ordering Information

★ The Standard offering represents the most common options. The starred options (★) should be selected for best delivery.

The Expanded offering is subject to additional delivery lead time.

Model	Product description			
0306	Pressure Manifold			
Manufacturer				
R	Rosemount Inc.			★
Manifold style				
T	Threaded			★
Manifold type				
1	Block and bleed			★
2	2-valve			★
3 ⁽¹⁾	2-valve (per ASME B31.1 Power Piping Code)			
	Body	Bonnet	Stem and tip/ball	
2	316 SST	316 SST	316 SST	★
3 ⁽²⁾⁽³⁾	Alloy C-276	Alloy C-276	Alloy C-276	
Process connection				
AA	1/2–14 male NPT			★
BA ⁽²⁾	1/2–14 female NPT			★
Packing material				
1	PTFE			★
2 ⁽⁴⁾	Graphite-based			
Valve seat				
1	Integral			★

Options

Extended product warranty				
WR3	3-year limited warranty			★
WR5	5-year limited warranty			★
Cleanings				
P2 ⁽⁵⁾	Cleaning for special services			
Material recommendations for NACE				
SG ⁽³⁾⁽⁶⁾	Sour Gas (Meets NACE MR 0175 / ISO 15156, MR 0103)			★
Typical integral manifold model number: 306RT22BA11				

(1) Only available with 316 SST materials of construction and graphite-based packing.

(2) Not available with block-and-bleed manifold type

- (3) Materials of Construction comply with recommendations per NACE MR0175/ISO 15156 for sour oil field production environments. Environmental limits apply to certain materials. Consult latest standard for details. Selected materials also conform to NACE MR0103 for sour refining environments.
- (4) Includes graphite tape on plugs.
- (5) Not available with Graphite-Based Packing Material code 2.
- (6) Only available with 316 SST material of construction code 2. Manifolds with SG option are built with 316 SST body and bonnets; Alloy C-276 stems, tips/balls.

Specification and selection of product materials, options, or components must be made by the purchaser of the equipment. See [page 13](#) for more information on Material Selection.

Table 4. Rosemount 304 Conventional Manifold Ordering Information

★ The Standard offering represents the most common options. The starred options (★) should be selected for best delivery. The Expanded offering is subject to additional delivery lead time.

Model	Product description				
0304	Conventional Manifold				
Manufacturer					
R	Rosemount				★
Manifold style					
T	Traditional (Flange x Flange or Flange x NPT)				★
W ⁽¹⁾	Wafer				
Manifold type					
2 ⁽²⁾	2-valve				★
3	3-valve				★
5 ⁽³⁾	5-valve				★
6 ⁽²⁾	5-valve Natural Gas Metering Pattern				★
7 ⁽²⁾⁽⁴⁾	2-valve (per ASME B31.1 [ANSI] Power and Piping Code)				
8 ⁽²⁾⁽⁴⁾	3-valve (per ASME B31.1 [ANSI] Power and Piping Code)				
	Body	Bonnet	Stem	Tip	
2	316 SST	316 SST	316 SST	316 SST	★
5	CS	316 SST	316 SST	316 SST	★
Process connection style					
B	1/2-14 NPT				★
F ⁽²⁾	Flanged				★
Packing material					
1	PTFE				★
2 ⁽¹⁾	Graphite-based				
Bolts					
1	For assembly to 2051/3051 Traditional Flange				★
2	For assembly to 2051/3051 DIN Compliant Traditional Flange				★
3	For assembly to 2051/3051 Coplanar Flange				★

Table 4. Rosemount 304 Conventional Manifold Ordering Information

★ The Standard offering represents the most common options. The starred options (★) should be selected for best delivery.

The Expanded offering is subject to additional delivery lead time.

Options

Extended product warranty		
WR3	3-year limited warranty	★
WR5	5-year limited warranty	★
Mounting brackets		
VC ⁽²⁾	Manifold Heavy Duty Mounting Bracket, CS for Traditional Style	★
VS ⁽²⁾	Manifold Heavy Duty Mounting Bracket, 316 SST for Traditional Style	★
B4 ⁽³⁾	Manifold SST Mounting Bracket for 2-in. pipe mount with series 300 SST bolts for wafer style	★
Adapters		
DF ⁽⁵⁾	1/2-14 NPT Female Flange Adapter	★
DT ⁽⁵⁾	1/2-in. ferrule tube flange adapter	★
DQ ⁽⁵⁾	12 mm ferrule tube flange adapter	★
Bolt material		
L4 ⁽⁶⁾	Austenitic 316 SST Bolts	★
L5	ASTM A193, Grade B7M Bolts	★
L8	ASTM A193, Class 2, Grade B8M Bolts	★
Material recommendations for NACE		
SG ⁽¹⁾⁽⁷⁾	Sour Gas (Meets NACE MR 0175 / ISO 15156, MR 0103)	★
Cleanings		
P2 ⁽⁸⁾	Cleaning for special service	
Heater block kits		
SB	Steam block kit, 1/4-in. NPT connection	★
Typical model number: 0304RT32B11VS		

(1) Only allowed with Material of Construction code 2.

(2) Not available with Wafer Manifold Style code W.

(3) Not available with Traditional Manifold Style code T.

(4) Only available with 316 SST materials of construction code 2 and graphite based packing code 2.

(5) Only allowed with both Manifold Style code T and Process Connection code F. Not allowed with Graphite-based Packing Code 2.

(6) Not available with Manifold Type codes 7, 8.

(7) Materials of construction comply with recommendations per NACE MR 0175 / ISO 1516 for sour oil field production environments. Environmental limits apply to certain materials. Consult latest standard for details. Selected materials also conform to NACE MR 0103 for sour refining environments.

(8) Not available with Graphite-Based Packing Material code 2.

Specifications

Material selection

Emerson provides a variety of Rosemount product with various product options and configurations including materials of construction that can be expected to perform well in a wide range of applications. The Rosemount product information presented is intended as a guide for the purchaser to make an appropriate selection for the application. It is the purchaser's sole responsibility to make a careful analysis of all process parameters (such as all chemical components, temperature, pressure, flow rate, abrasives, contaminants, etc.), when specifying product, materials, options and components for the particular application. Emerson Process Management is not in a position to evaluate or guarantee the compatibility of the process fluid or other process parameters with the product, options, configuration or materials of construction selected.

Pressure and temperature ratings

Figure 1. Rosemount 305 Integral Manifolds - Pressure vs. Temperature

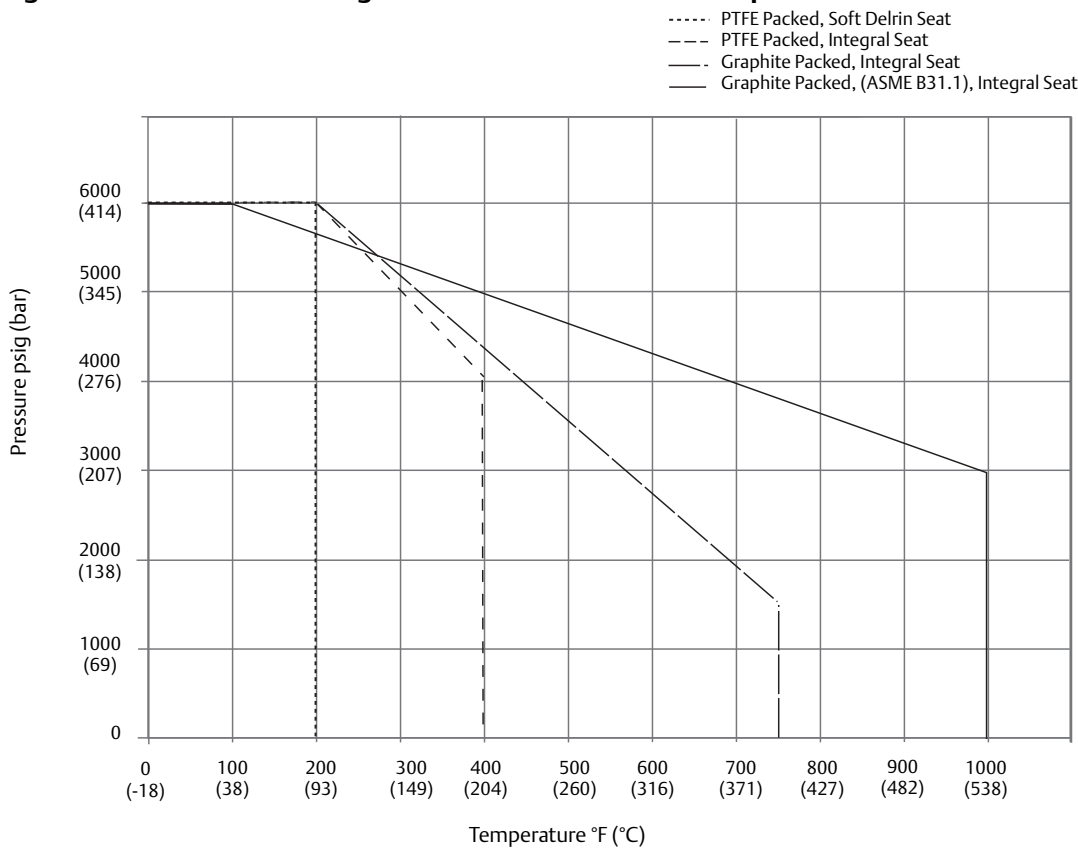


Table 5. Rosemount 305 Integral Manifolds - Pressure and Temperature Ratings⁽¹⁾

Packing ⁽¹⁾	Seat	Pressure and temperature ratings
PTFE	Integral	6092 psi @ 200 °F (420 bar @ 93 °C) 4000 psi @ 400 °F (276 bar @ 204 °C)
PTFE	Soft Delrin	6092 psi @ 200 °F (420 bar @ 38 °C)
Graphite	Integral	6092 psi @ 200 °F (420 bar @ 93 °C) 1500 psi @ 750 °F (103 bar @ 399 °C)
Graphite (ASME B31.1)	Integral	6092 psi @ 100 °F (420 bar @ 38 °C) 2915 psi @ 1000 °F (201 bar @ 538 °C)

(1) Except option HK:
 PTFE, Integral seat: 2324 psi @ 200 °F (160 bar @ 93 °C), 1680 psi @ 400 °F (116 bar @ 204 °C)
 Graphite, Integral seat: 2324 psi @ 200 °F (160 bar @ 93 °C), 1125 psi @ 750 °F (78 bar @ 399 °C)

Figure 2. Rosemount 306 In-Line Manifolds - Pressure vs. Temperature

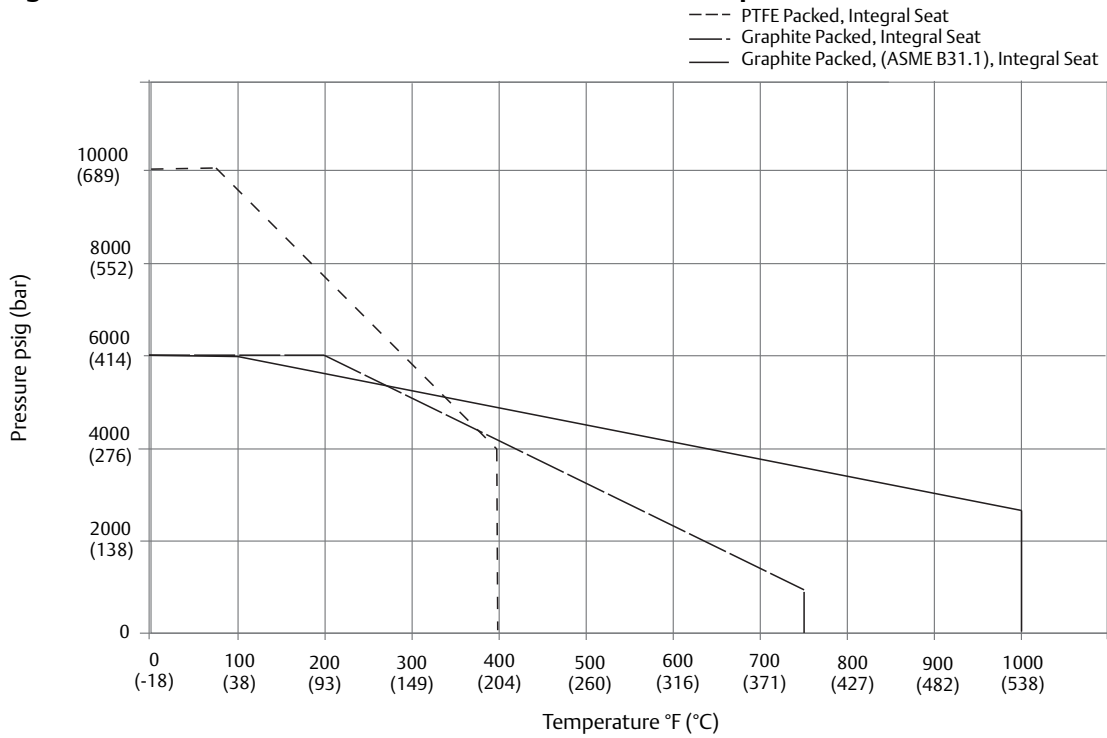


Table 6. Rosemount 306 In-Line Manifolds - Pressure and Temperature Ratings

Packing	Seat	Pressure and temperature ratings
PTFE	Integral	10000 psi @ 85 °F (689 bar @ 29 °C) 4000 psi @ 400 °F (276 bar @ 204 °C)
Graphite	Integral	6000 psi @ 200 °F (414 bar @ 93 °C) 1500 psi @ 750 °F (103 bar @ 399 °C)
Graphite (ASME B31.1)	Integral	6000 psi @ 100 °F (414 bar @ 38 °C) 2915 psi @ 1000 °F (201 bar @ 538 °C)

Figure 3. Rosemount 304 Conventional Manifolds

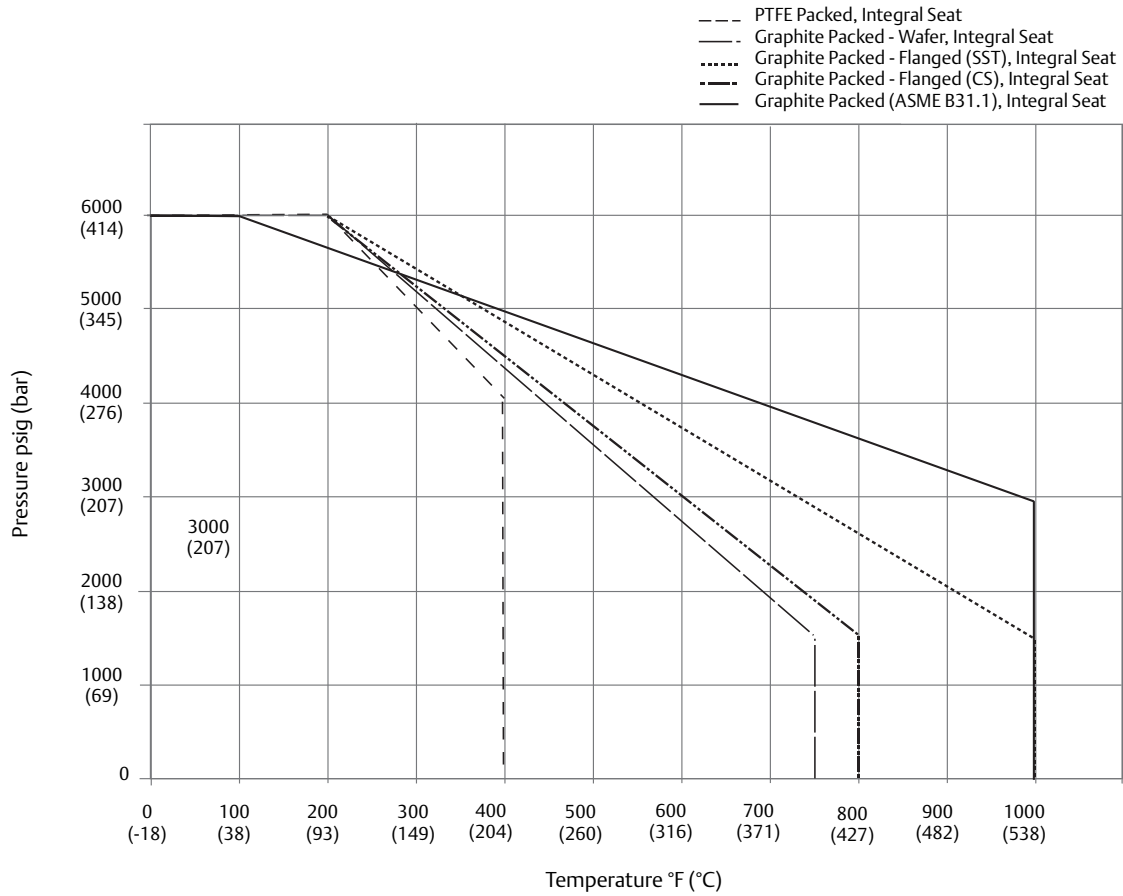


Table 7. 304 Conventional Manifolds - Pressure and Temperature Ratings

Packing	Seat	Pressure and temperature ratings
PTFE	Integral	6000 psi @ 200 °F (414 bar @ 93 °C) 4000 psi @ 400 °F (276 bar @ 204 °C)
Graphite - Wafer	Integral	6000 psi @ 200 °F (414 bar @ 93 °C) 1500 psi @ 750 °F (103 bar @ 399 °C)
Graphite - Flanged (SST)	Integral	6000 psi @ 200 °F (414 bar @ 93 °C) 1500 psi @ 1000 °F (103 bar @ 538 °C)
Graphite - Flanged (CS)	Integral	6000 psi @ 200 °F (414 bar @ 93 °C) 1500 psi @ 800 °F (103 bar @ 427 °C)
Graphite (ASME B31.1)	Integral	6000 psi @ 100 °F (414 bar @ 38 °C) 2915 psi @ 1000 °F (201 bar @ 538 °C)

Process connections

Table 8. Process Connections

Model and style	Connection
Rosemount 305 Integral Manifold Coplanar Traditional	1/2 - 14 Female NPT 1/4 - 18 Female NPT (Process Adapters optional) <u>Optional Process Adapters</u> 1/2 - 14 Female NPT Flange Adapter 12 mm Ferrule Tube Flange Adapter
Rosemount 306 In-Line Manifold Block-and-Bleed 2-Valve	1/2 - 14 Male NPT 1/2 - 14 NPT (Male or Female)
Rosemount 304 Conventional Manifold Flange by Pipe Flange by Flange Wafer	1/2 - 14 Female NPT 2 1/8-in. (54 mm) center-to-center connection (Process Adapters required) 1/2 - 14 Female NPT <u>Process Adapters</u> 1/2 - 14 Female NPT Flange Adapter 1/2-in. Ferrule Tube Flange Adapter 12-mm Ferrule Tube Flange Adapter

Instrument connections

Table 9. Manifold - Transmitter Interface

Model	Connection
Rosemount 305 Integral Manifold	Mounted directly to Coplanar sensor module of transmitter, 1.3-in. (287 mm) center-to-center process isolators
Rosemount 306 In-Line Manifold	1/2 - 14 Male NPT
Rosemount 304 Conventional Manifold	Mounted to traditional transmitter flange, 2 1/8-in. (54 mm) center-to-center connection per IEC 61518, Type B shut-off device (without SPIGOT)

Test/vent connections

1/4-18 Female NPT

Manifold bolts

Standard material is plated carbon steel per ASTM A449, Type 1

Alternative bolt materials offered through Option Codes

- L4 for Austenitic 316 Stainless Steel Bolts
- L5 for ASTM A193, Grade B7M Bolts
- L8 for ASTM A193, Class 2, Grade B8M Bolts

O-rings

Figure 4. Rosemount 305 Integral Manifold O-rings

Sensor Module-to-Manifold O-rings
 Specified in the transmitter model number

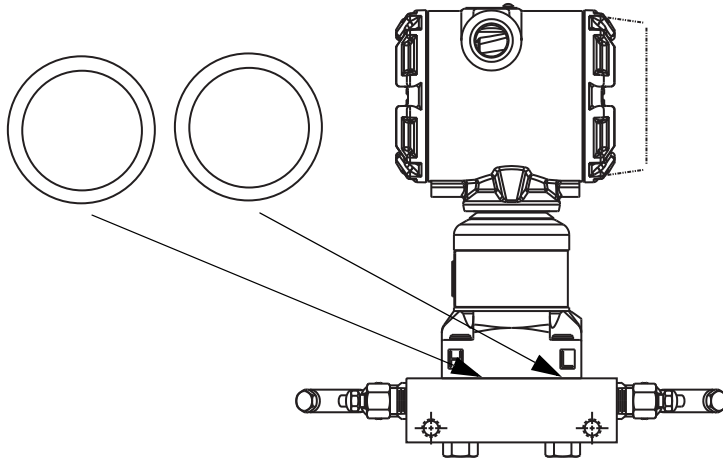


Figure 5. Rosemount 304 Conventional Manifold O-rings

Manifold-to-Flange O-rings
 Same material as specified by manifold "Packing Material" selection:

- "1" = PTFE
- "2" = Graphite

Flange Adapter O-rings
 Glass-filled PTFE

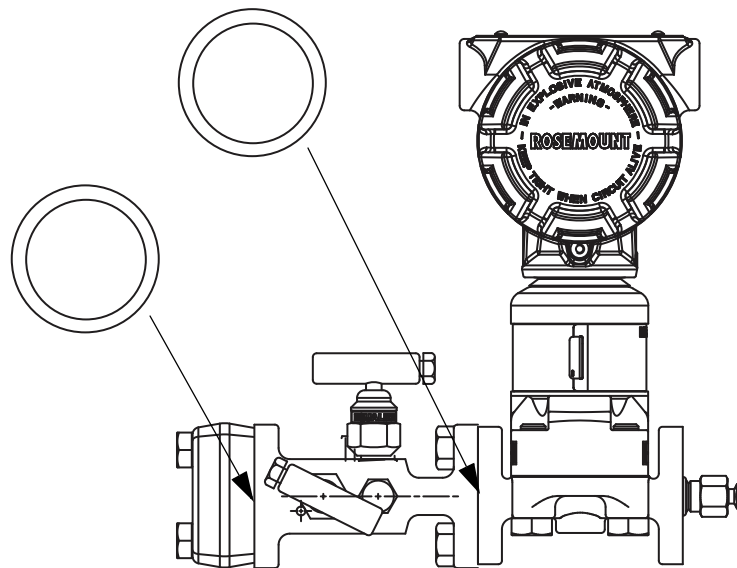


Table 10. Rosemount 305 Integral Manifolds - Process Wetted Materials of Construction

Component	SST	Alloy C-276	316 SST with SG option
Body	316 SST	Alloy C-276	316 SST
Ball/Tip	316 SST /316Ti SST	Alloy C-276	Alloy C-276
Stem	316 SST	Alloy C-276	Alloy C-276
Packing	PTFE/Graphite	PTFE/Graphite	PTFE/Graphite
Bonnet	316 SST	Alloy C-276	316 SST
Pipe Plug	316 SST	Alloy C-276	316 SST
Drain/Vent Valve	316 SST	Alloy C-276	Alloy C-276

Table 11. Rosemount 306 In-line Manifolds - Process Wetted Materials of Construction

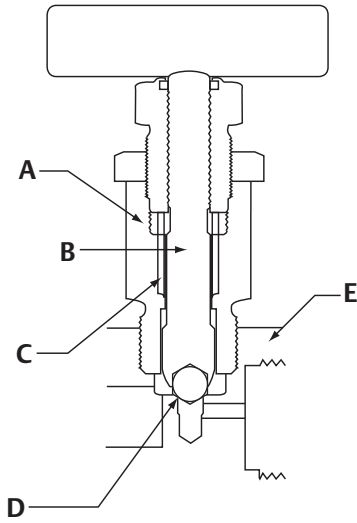
Component	SST	Alloy C-276	316 SST with SG option
Body	316 SST	Alloy C-276	316 SST
Ball/Tip	316 SST /316Ti SST	Alloy C-276	Alloy C-276
Stem	316 SST	Alloy C-276	Alloy C-276
Packing	PTFE/Graphite	PTFE/Graphite	PTFE/Graphite
Bonnet	316 SST	Alloy C-276	316 SST
Pipe Plug	316 SST	Alloy C-276	316 SST
Bleed Screw	316 SST / 316Ti SST	Alloy C-276	Alloy C-276

Table 12. Rosemount 304 Conventional Manifolds - Process Wetted Materials of Construction

Component	SST	CS	SST with SG option
Body	316 SST	CS	316 SST
Ball/Tip	316 SST/316Ti SST	316 SST	Alloy C-276
Stem	316 SST	316 SST	Alloy C-276
Packing	PTFE/Graphite	PTFE	PTFE/Graphite
Bonnet	316 SST	316 SST	316 SST
Pipe Plug	316 SST	CS	316 SST

Materials of construction - typical

Figure 6. Typical Rosemount Manifold Valve



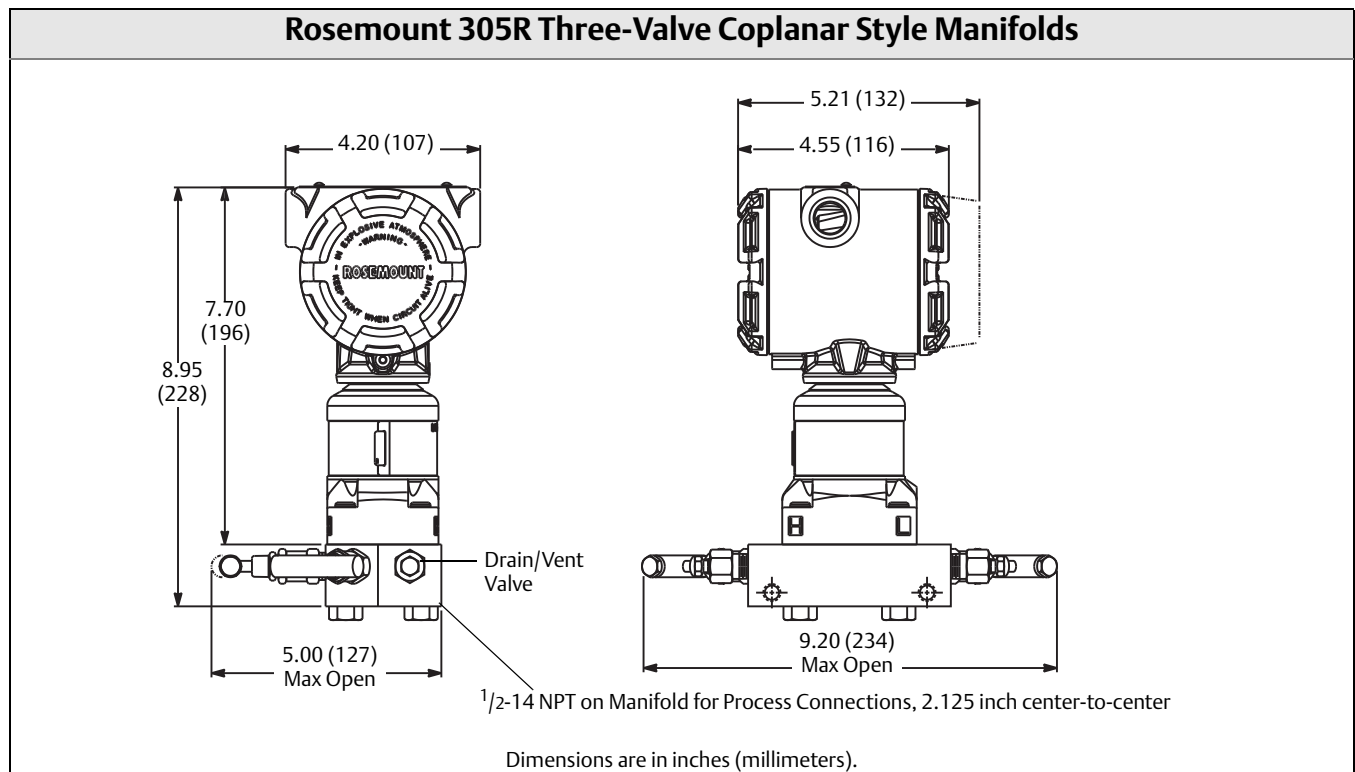
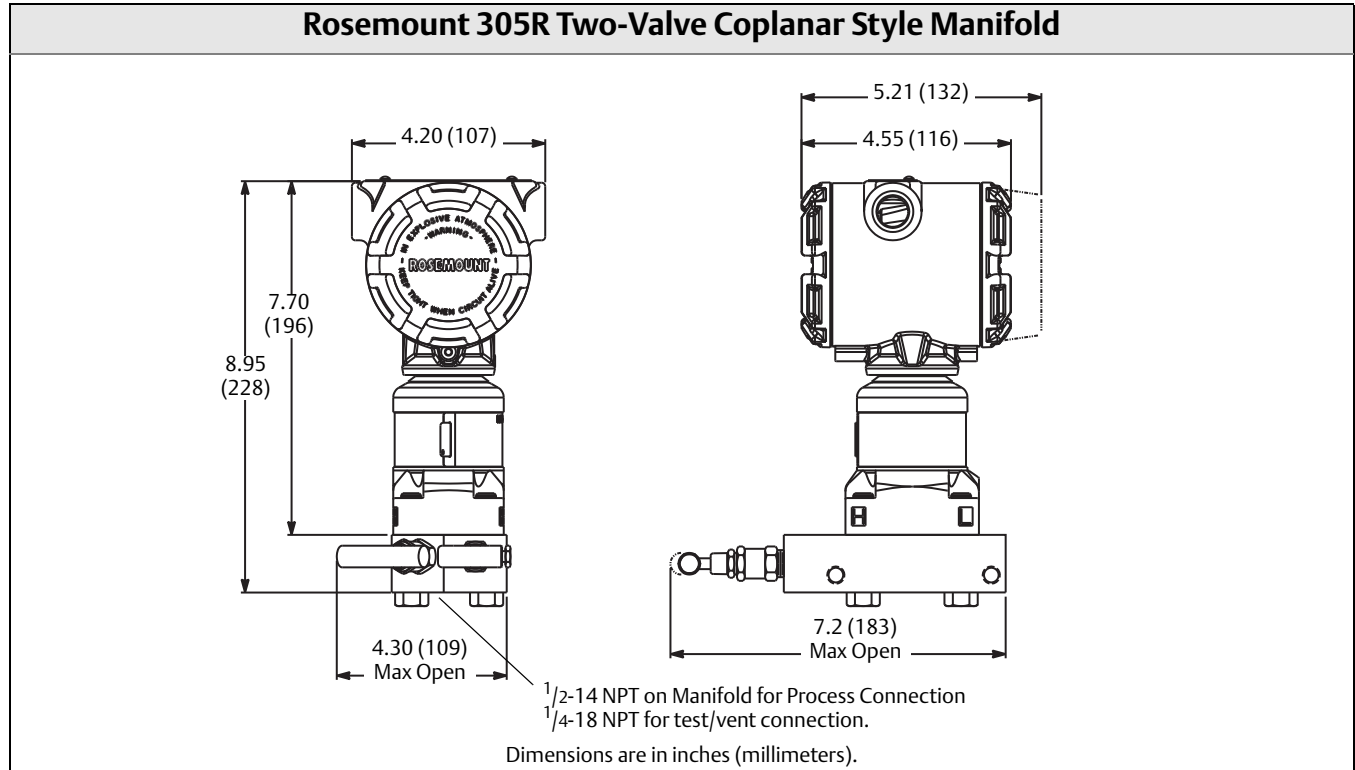
- A. Bonnet
- B. Stem
- C. Packing
- D. Ball/Tip
- E. Body

Estimated weight

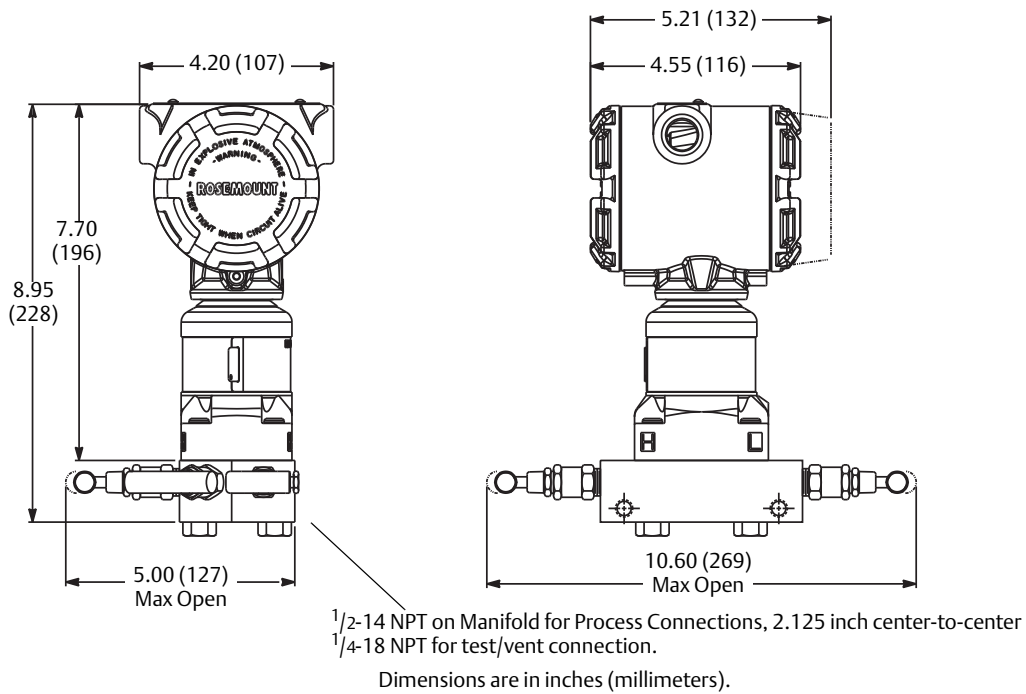
Model and description	Weight
Rosemount 305 Integral Manifold	
2-valve coplanar	4.5 lbs (2.0 kg)
2-valve traditional	6.0 lbs (2.7 kg)
3-valve coplanar	4.7 lbs (2.1 kg)
3-valve traditional	6.0 lbs (2.7 kg)
5-valve coplanar	6.5 lbs (3.0 kg)
Rosemount 306 In-Line Manifold	
Block-and-Bleed	1.1 lbs (0.5 kg)
2-valve	2.5 lbs (1.1 kg)
Rosemount 304 Conventional Manifold	
2-valve traditional flange x NPT	5.0 lbs (2.3 kg)
2-valve traditional flange-x flange	5.5 lbs (2.5 kg)
3-valve traditional flange x NPT	5.2 lbs (2.4 kg)
3-valve traditional flange x flange	5.7 lbs (2.6 kg)
3-valve wafer flange x NPT	4.0 lbs (1.8 kg)
5-valve wafer flange x NPT	5.7 lbs (2.6 kg)
5-valve traditional flange x NPT	5.7 lbs (2.6 kg)
5-valve traditional flange x flange	5.7 lbs (2.6 kg)

Dimensional Drawings

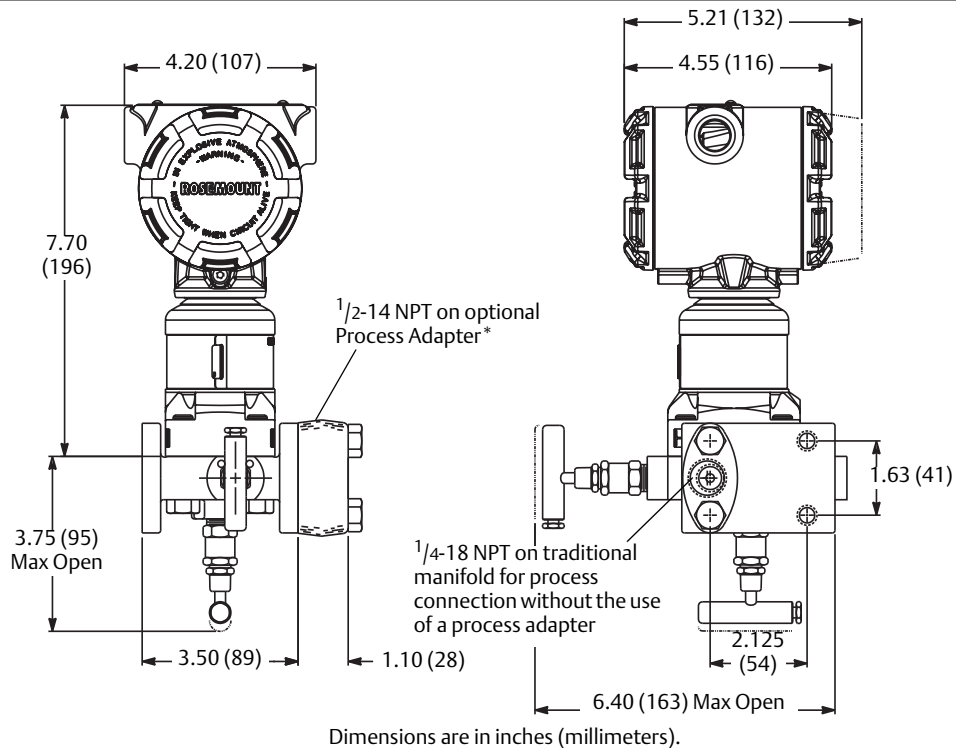
Rosemount 305 Manifold



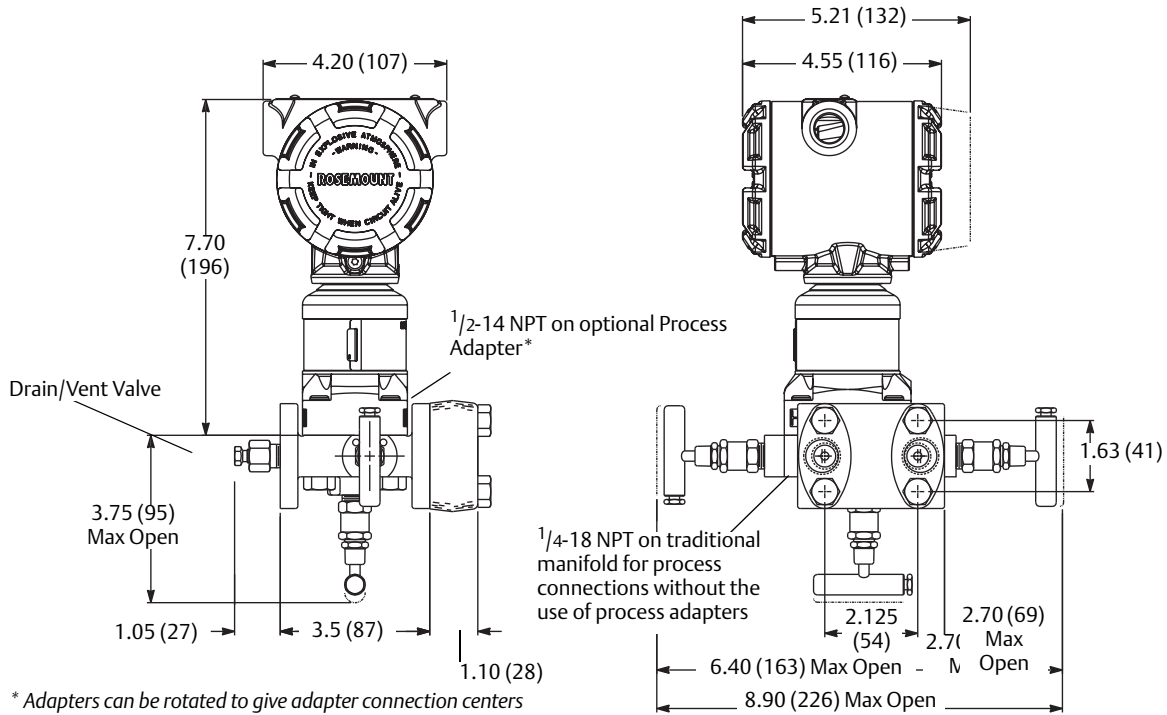
Rosemount 305R Five-Valve Coplanar Style Manifold



Rosemount 305RT Two-Valve Traditional Style Manifold



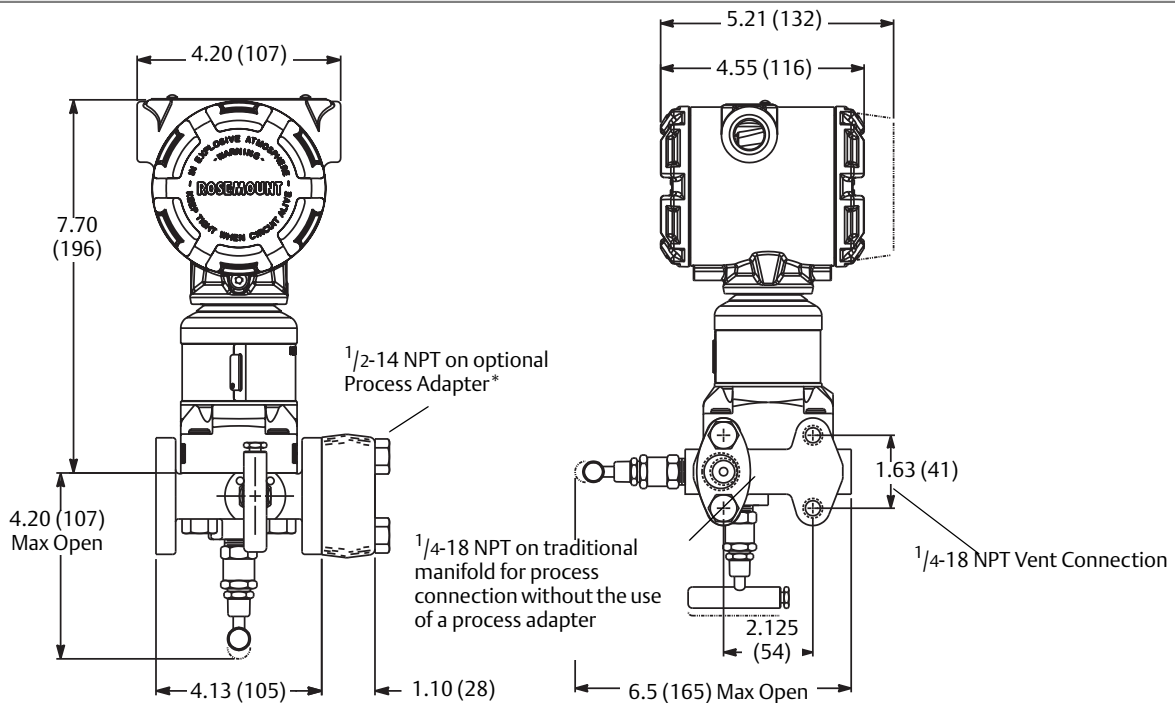
Rosemount 305RT Three-Valve Traditional Style Manifold



* Adapters can be rotated to give adapter connection centers of 2.0 (51), 2.125 (54), or 2.25 (57).

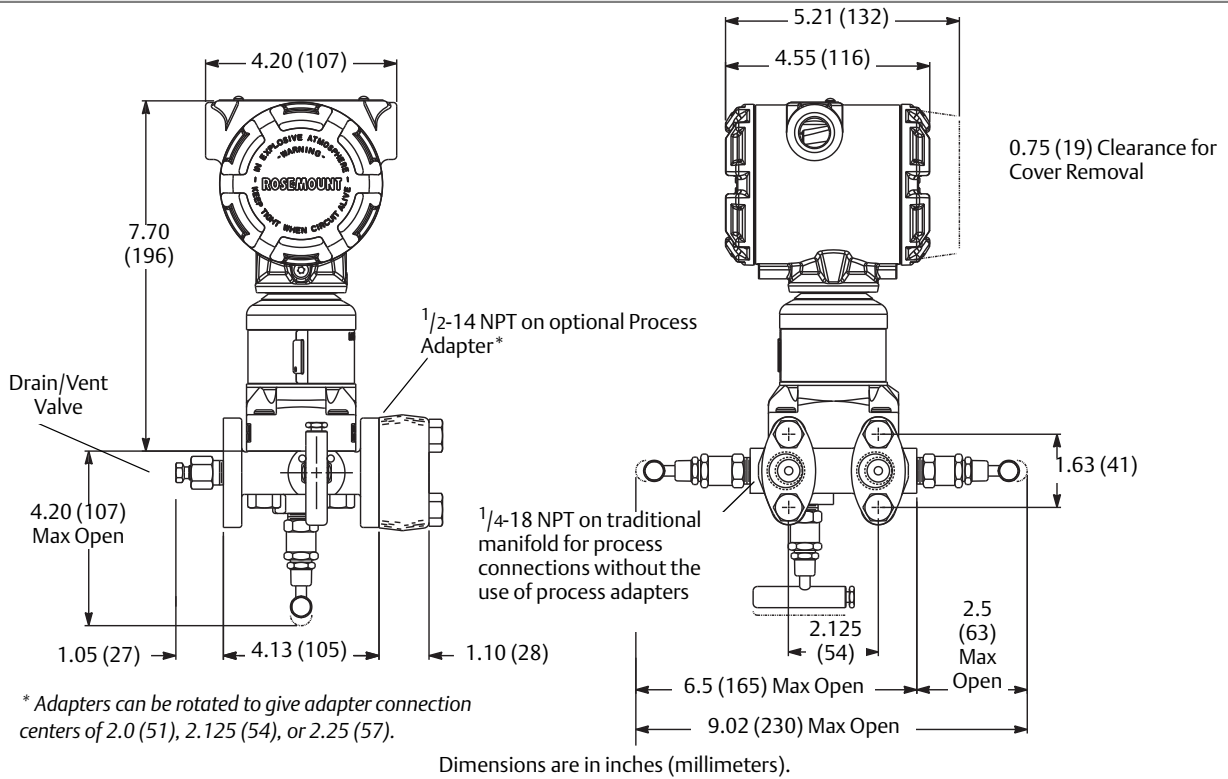
Dimensions are in inches (millimeters).

Rosemount 305RM Two-Valve Traditional Style Manifold

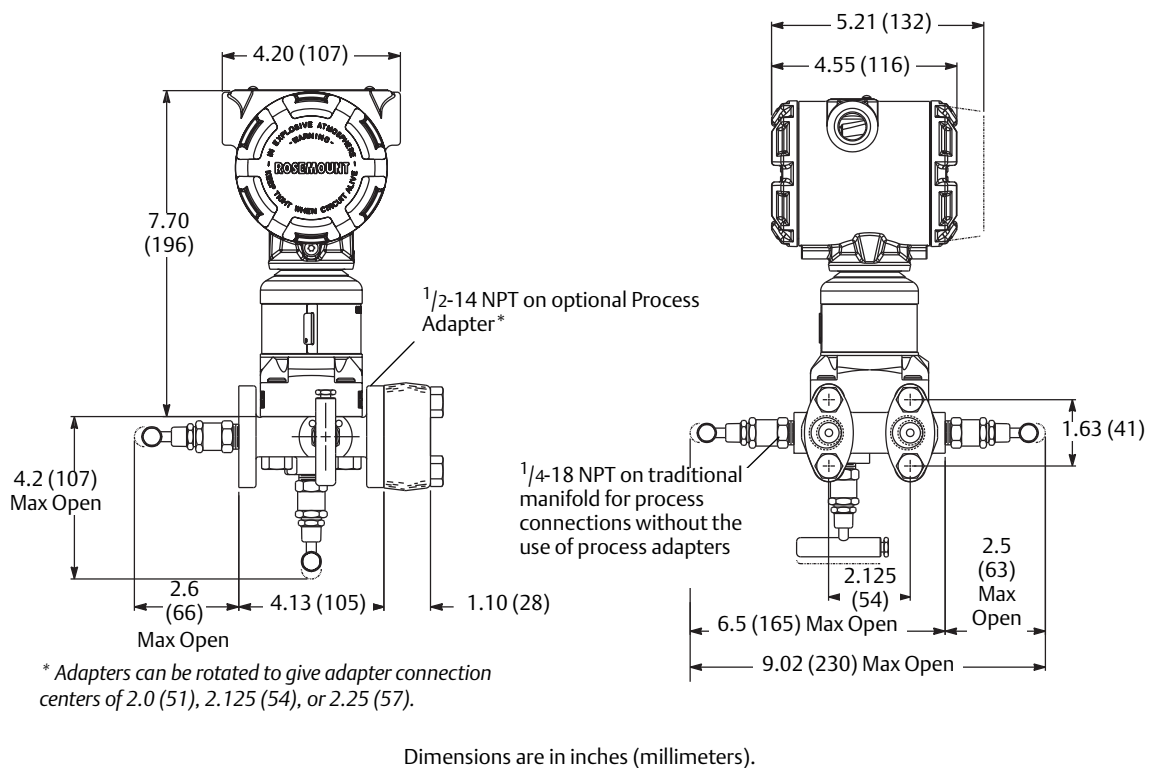


Dimensions are in inches (millimeters).

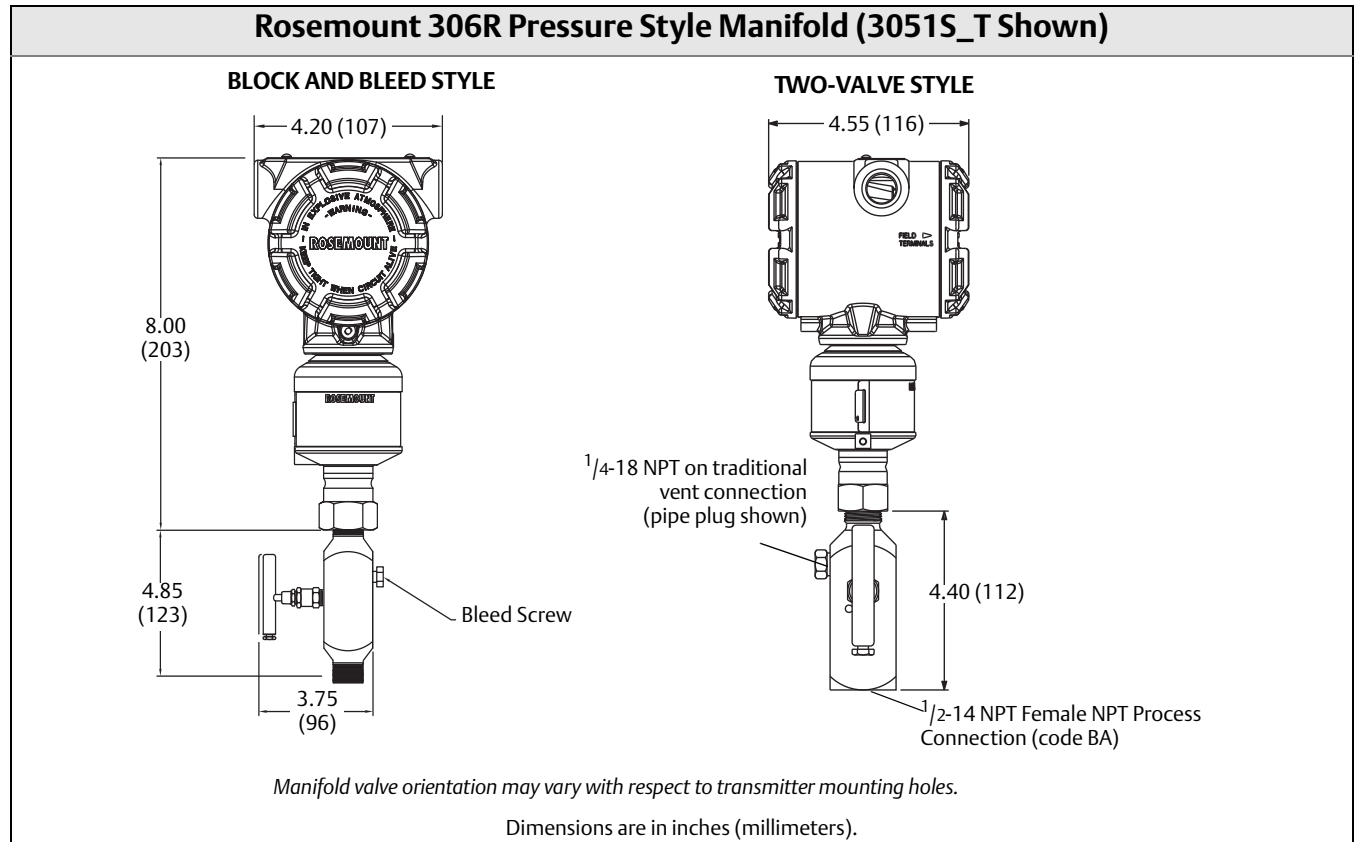
Rosemount 305RM Three-Valve Traditional Style Manifold

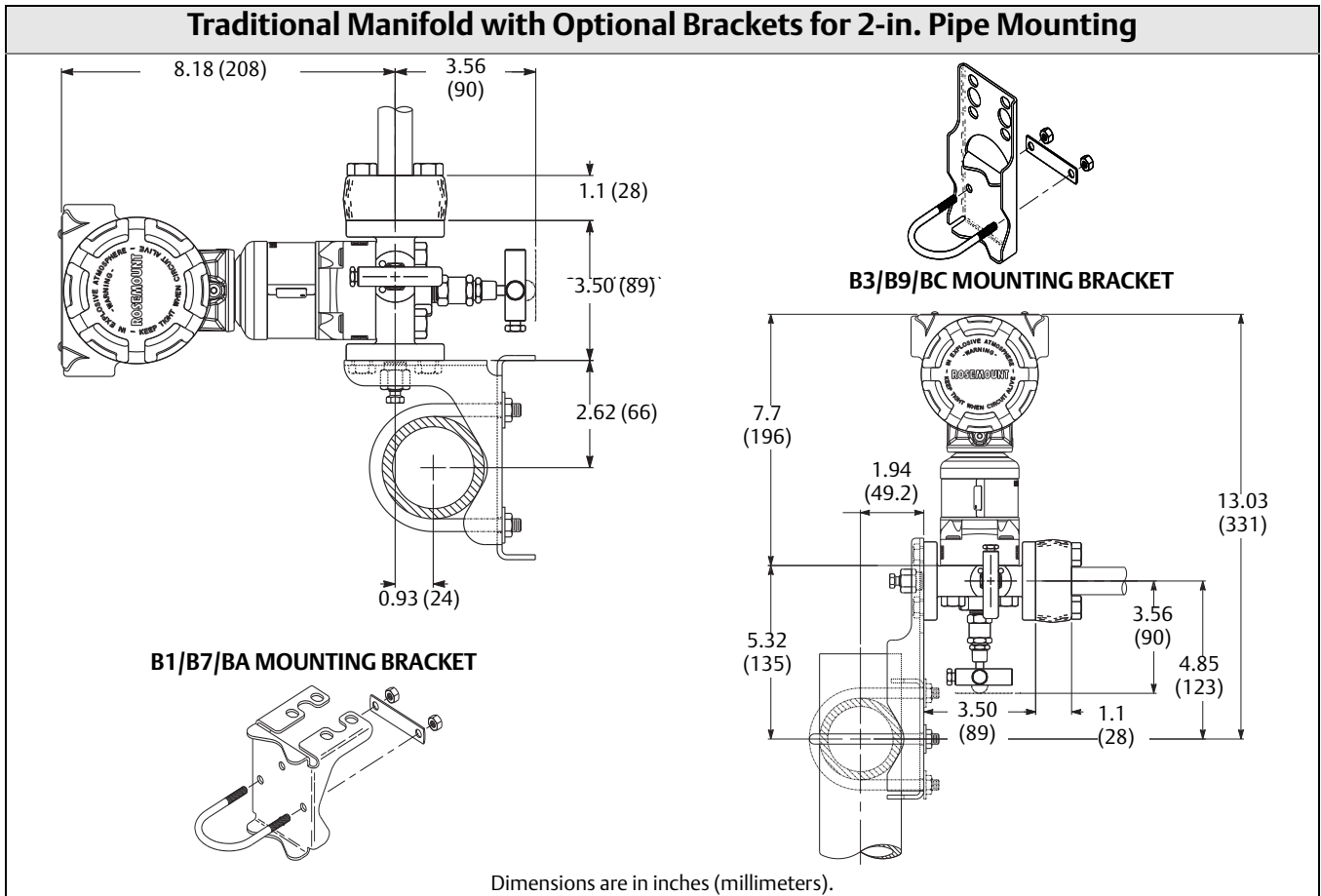


Rosemount 305RM Five-Valve Traditional Style Manifold

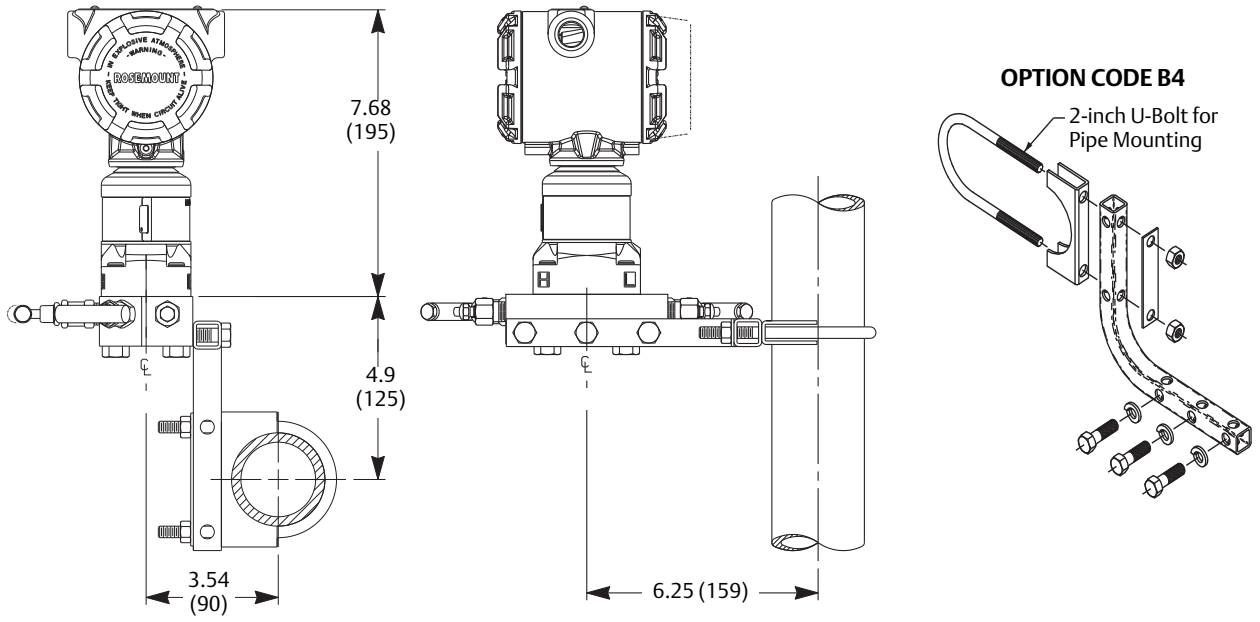


Rosemount 306 Manifold



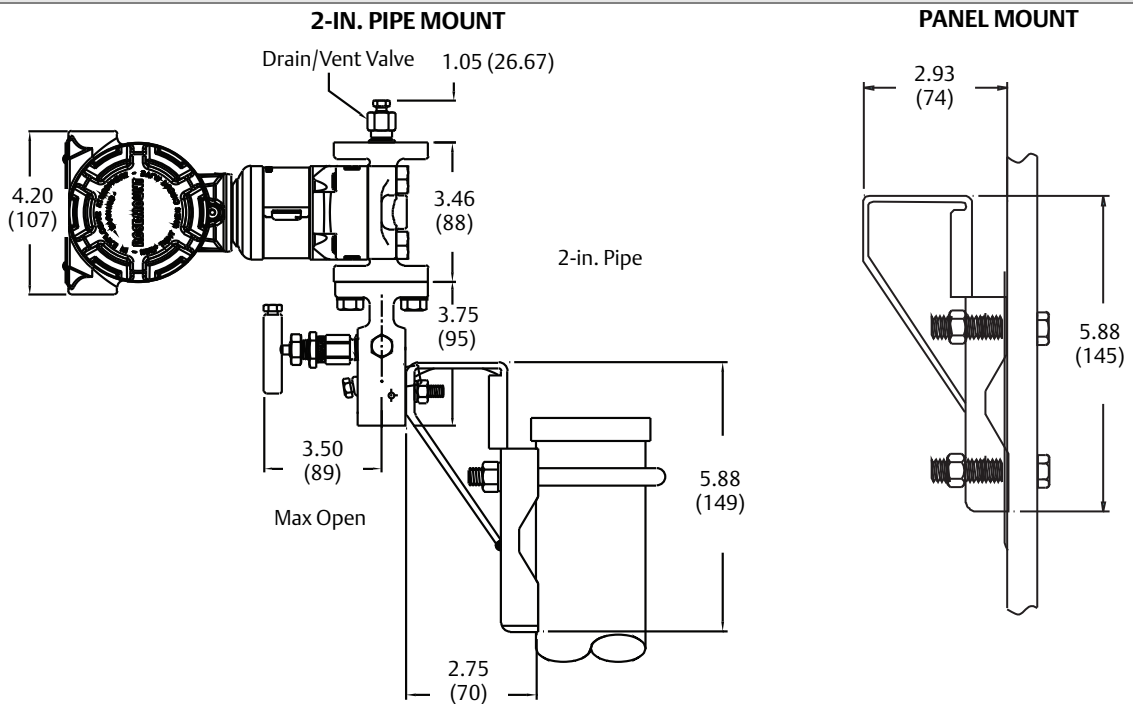


Coplanar Manifold with Optional Bracket for 2-in. Pipe Mounting



Dimensions are in inches (millimeters).

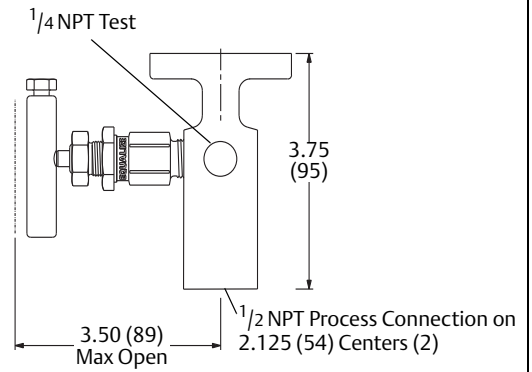
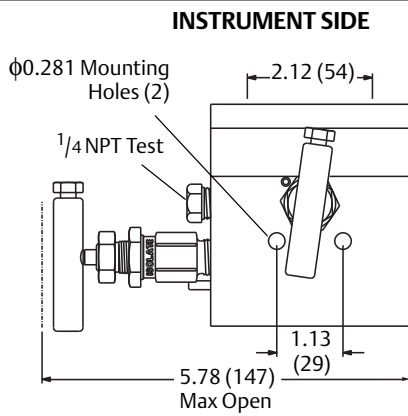
VS/VC Heavy Duty Manifold Mounting Bracket



Dimensions are in inches (millimeters).

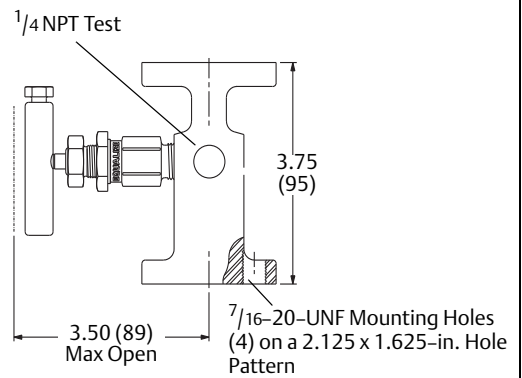
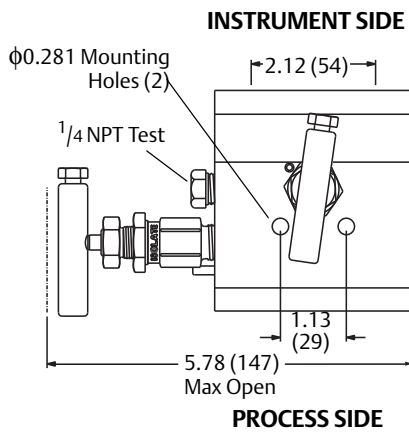
Rosemount 304 Manifold

Rosemount 304 Two-Valve Flange X NPT Conventional Manifold



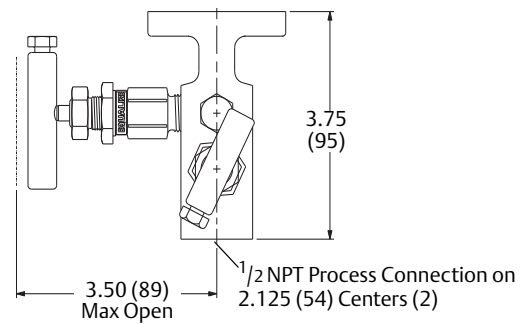
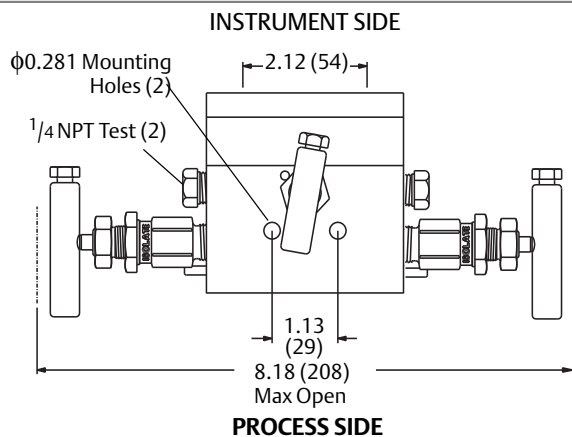
Dimensions are in inches (millimeters).

Rosemount 304 Two-Valve Flange X Flange Conventional Manifold



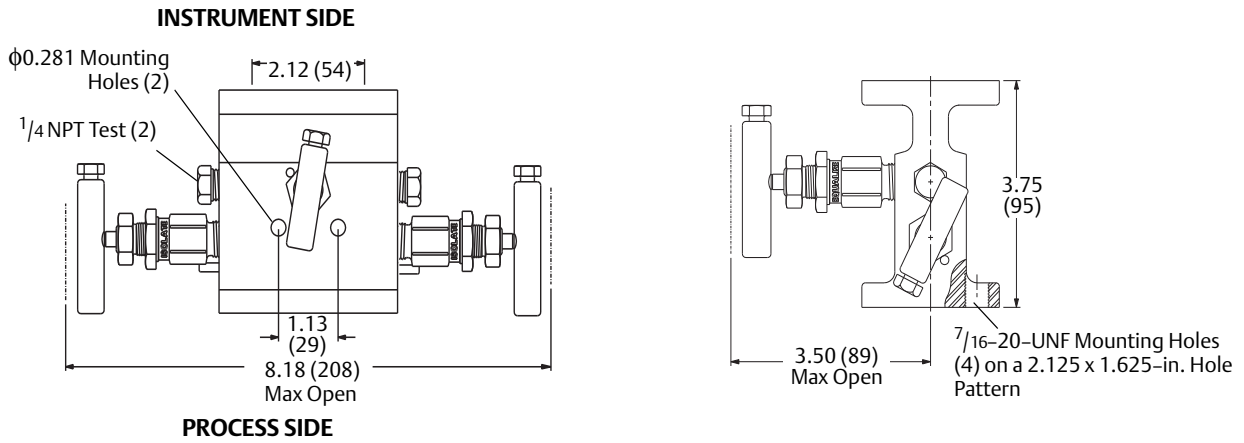
Dimensions are in inches (millimeters).

Rosemount 304 Three-Valve Flange X NPT Conventional Manifold



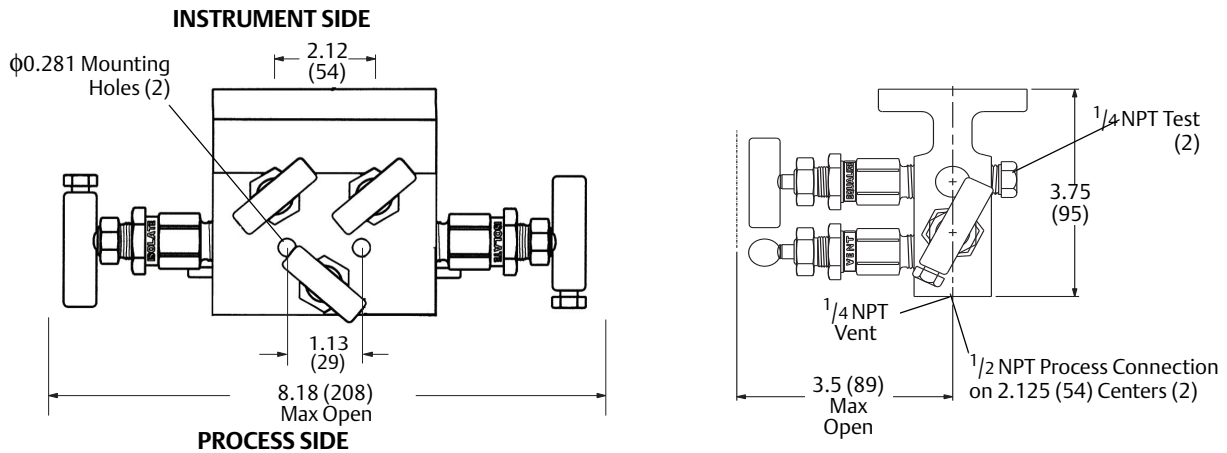
Dimensions are in inches (millimeters).

Rosemount 304 Three-Valve Flange X Flange Conventional Manifold



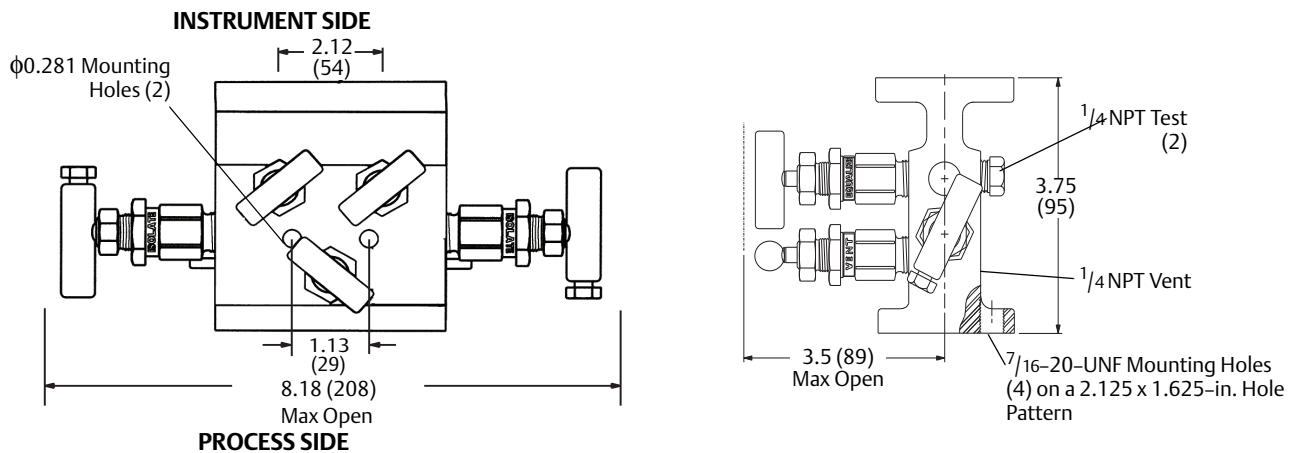
Dimensions are in inches (millimeters).

Rosemount 304 Natural Gas Five-Valve Flange X NPT Conventional Manifold

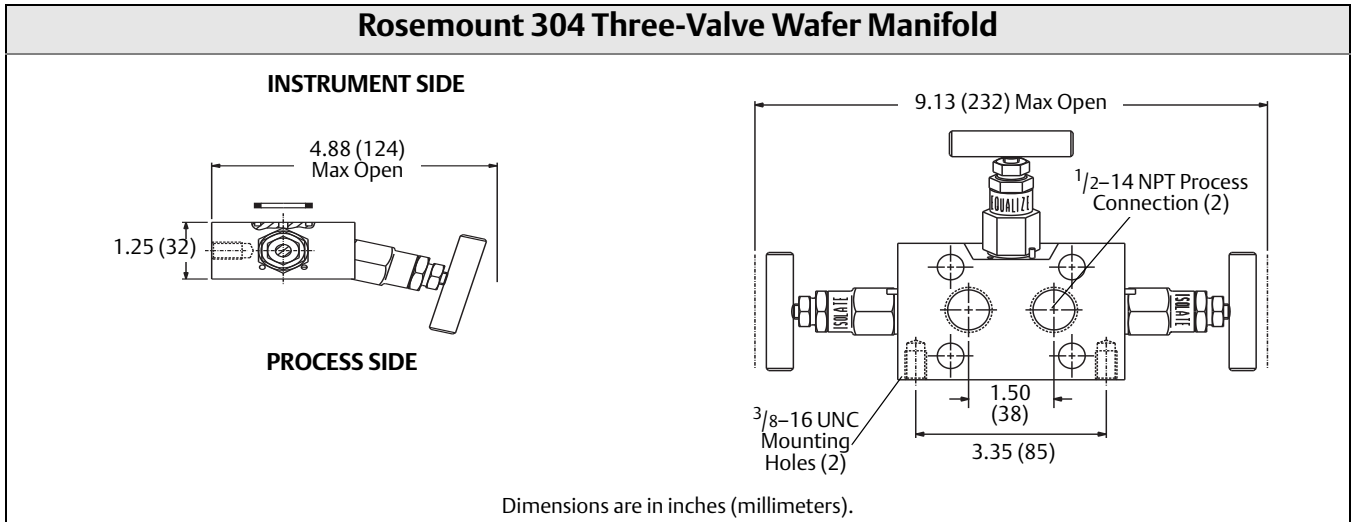


Dimensions are in inches (millimeters).

Rosemount 304 Natural Gas Five-Valve Flange X Flange Conventional Manifold



Dimensions are in inches (millimeters).

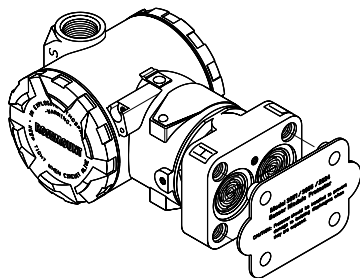


Options

Module guard

A sensor module guard is available to protect the transmitter process isolating diaphragms. This guard should be used whenever the transmitter is removed from the integral manifold to avoid damage to the isolating diaphragms.

Part number: 00305-1000-0001 (5/pack)



P2 Cleaning for Special Services

Per ASTM G93-96, this option minimizes process contaminants by cleaning wetted surfaces with a suitable detergent.

SG Sour Gas

Materials of Construction comply with recommendations per NACE MR 0175/ISO 15156 for sour oil field production environments. Environmental limits apply to certain materials. Consult latest standard for details. Selected materials also conform to NACE MR0103 for sour refining environments.

Heat block kits

Rosemount 304 Manifolds are available with steam heat block kits for cold environments and services. The steam block attaches directly to the manifold to prevent the process from freezing.

ASME B31.1 Power Piping Code

Rosemount Manifolds are available in configurations that meet the requirements of the ASME B31.1 Power Piping Code. This code specifies design criteria for most air, gas, steam, water, and oil systems used in electric generating systems, central and district heating systems, industrial power plants, and geothermal plants. ASME B31.1 includes requirements for manifolds, valves, and piping. Transmitters and other measuring devices do not fall within the scope of this code.

Marking

Manifolds are tagged with a part number, schematic drawing, temperature, and pressure limits.

Other publications

For additional information, go to www.rosemount.com.

Spare parts list

Table 13. Rosemount 305 Integral Manifold

Part description	Part number (traditional style)	Part number (coplanar style)
Mounting brackets (qty. 1)		
Manifold SST Mounting Bracket for 2-in Pipe Mount	N/A	00305-0405-0001
Bolt kits (set of 4)		
CS Bolt Kit	03031-0312-0001	03031-0311-0001
SST Bolt Kit	03031-0312-0002	03031-0311-0002
ANSI/ASTM-A-193-B7M Bolt Kit	03031-0312-0003	03031-0311-0003
Drain/vents (qty. 1)		
316 SST Drain/Vent for use with 3-valve 305 Manifold	01151-0028-0012	01151-0028-0012
Alloy C-276 Drain/Vent for use with 3-valve 305 Manifold	01151-0028-0013	01151-0028-0013
Coplanar flange kits (qty. 1)		
Differential Flange Kit, SST	N/A	00305-1001-0001
Gauge Flange Kit, SST	N/A	00305-1001-1001
O-rings (set of 12)		
Manifold-to-Module O-ring, Glass-filled PTFE	03031-0234-0001	03031-0234-0001
Manifold-to-Module O-ring, Graphite-filled PTFE	03031-0234-0002	03031-0234-0002
Sensor guard (set of 5)		
Coplanar Module Sensor Guard	00305-1000-0001	00305-1000-0001

Table 14. Rosemount 304 Conventional Manifold

Part description	Part number (traditional style)	Part number (wafer style)
Mounting brackets (qty. 1)		
Manifold Heavy Duty Mounting Bracket, CS	01166-8005-0002	N/A
Manifold Heavy Duty Mounting Bracket, 316 SST	01166-8005-0001	N/A
Manifold SST Mounting Bracket for 2-in. Pipe Mount	N/A	00305-0405-0001
O-rings (set of 12)		
Manifold-to-Flange O-ring, Virgin PTFE	03031-0019-0003	03031-0019-0003
Manifold-to-Flange O-ring, Graphite.	03031-1302-0002	03031-1302-0002
Manifold-to-flange bolt kits (set of 4)		
Consult factory for part numbers	Consult factory	Consult factory
Heater block kits (qty. 1)		
Steam Block Kit	00305-0406-0001	N/A
Socket weld adapter kit (qty. 2)		
Virgin PTFE O-rings, Carbon Steel Bolts, 316L SST adapter	03031-1320-0002	N/A

Table 14. Rosemount 304 Conventional Manifold

Part description	Part number (traditional style)	Part number (wafer style)
Virgin PTFE O-rings, 316 SST Bolts, 316L SST adapter	03031-1320-0012	N/A
Graphite O-rings, Carbon Steel Bolts, 316L SST adapter	03031-1320-0102	N/A
Graphite O-rings, 316 SST Bolts, 316L SST adapter	03031-1320-0112	N/A

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