

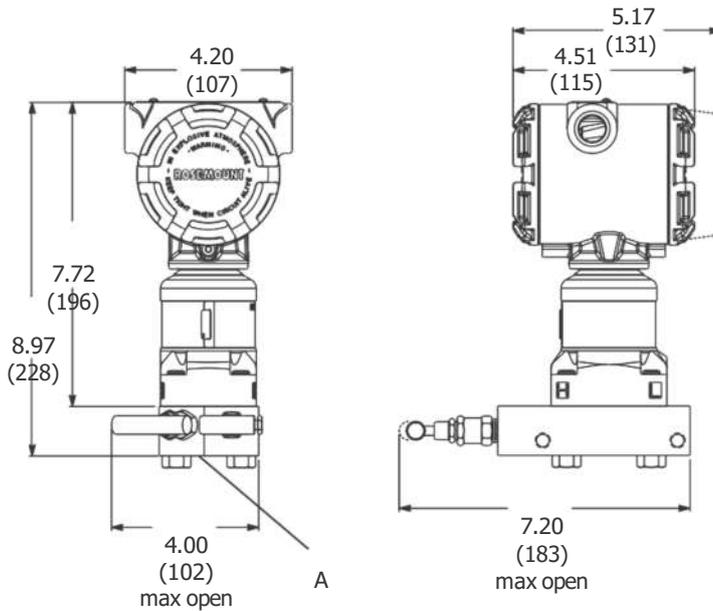


## Dimensional drawings

### Rosemount coplanar style manifolds

Manifold handle assembly may vary slightly from image shown. All valve handle assemblies provide the same function and meet all stated drawing dimensions. Maximum valve handle width is 2.5 inches (63.5 mm).

**Figure 21: Rosemount 305 Two-Valve Coplanar Style Manifold**

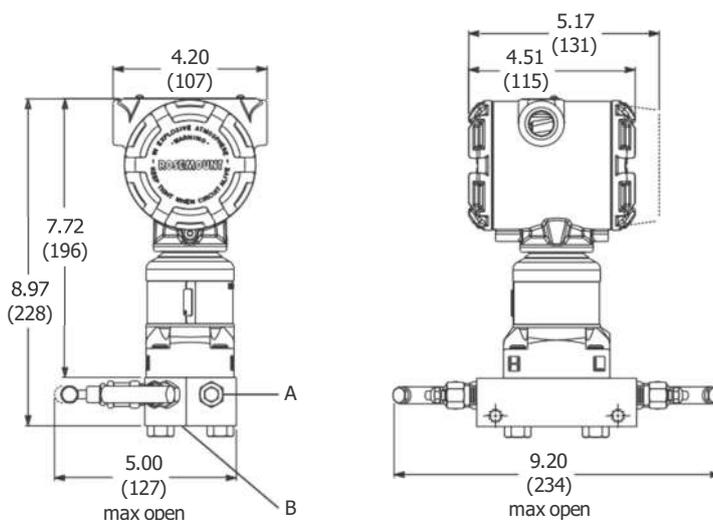


A.  $\frac{1}{2}$ -14 NPT on manifold for process connection,  $\frac{1}{4}$ -18 NPT for test/vent connection

#### Note

Dimensions are in inches (millimeters).

**Figure 22: Rosemount 305 Three-Valve Coplanar Style Manifolds**



A. Drain/vent valve

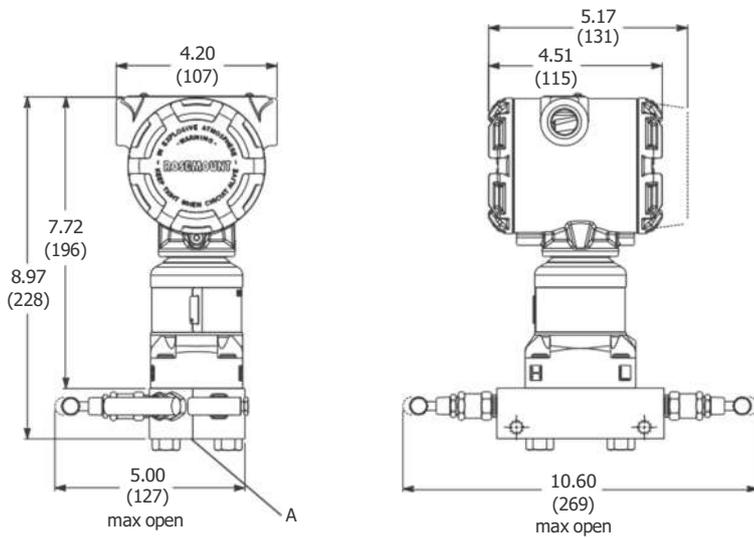
B.  $\frac{1}{2}$ -14 NPT on manifold for process connections,  $2\frac{1}{8}$ -in. (53.98 mm) center-to-center



**Note**

Dimensions are in inches (millimeters).

**Figure 23: Rosemount 305 Five-Valve Coplanar Style Manifold**

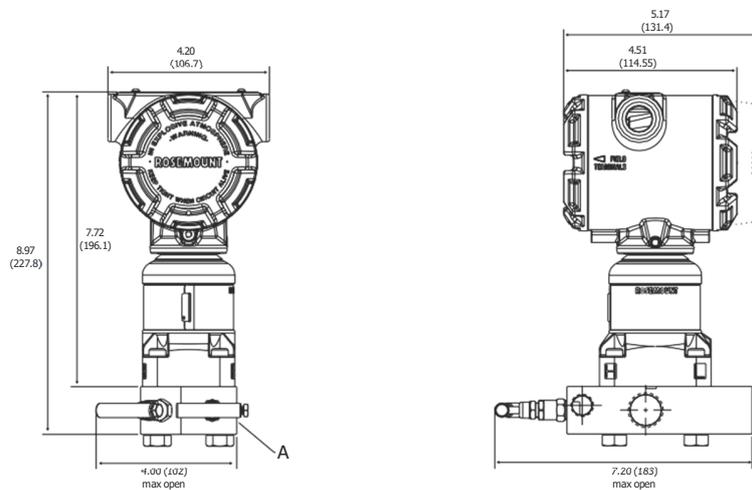


A.  $\frac{1}{2}$ -14 NPT on manifold for process connections,  $2\frac{1}{8}$ -in. (53.98 mm) center-to-center,  $\frac{1}{4}$ -18 NPT for test/vent connection

**Note**

Dimensions are in inches (millimeters).

**Figure 24: Rosemount 305 Two-Valve Coplanar Style Side Entry Manifold**



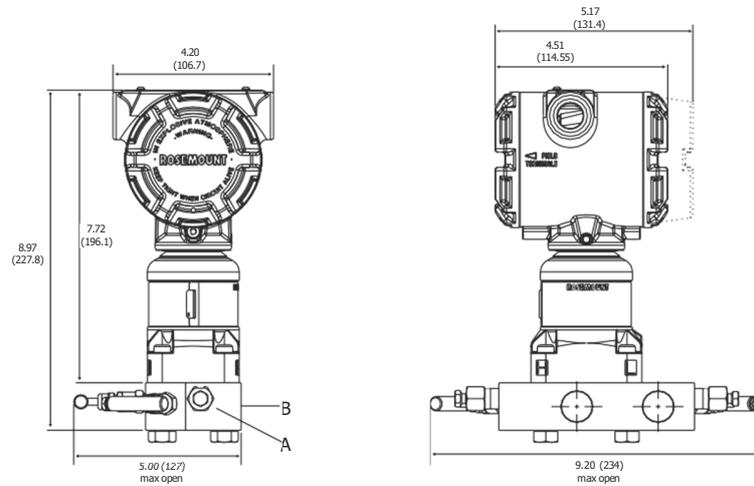
A.  $\frac{1}{2}$ -14 NPT on manifold for process connections,  $\frac{1}{4}$ -18 NPT for test/vent connection

**Note**

Dimensions are in inches (millimeters).



**Figure 25: Rosemount 305 Three-Valve Coplanar Style Side Entry Manifold**



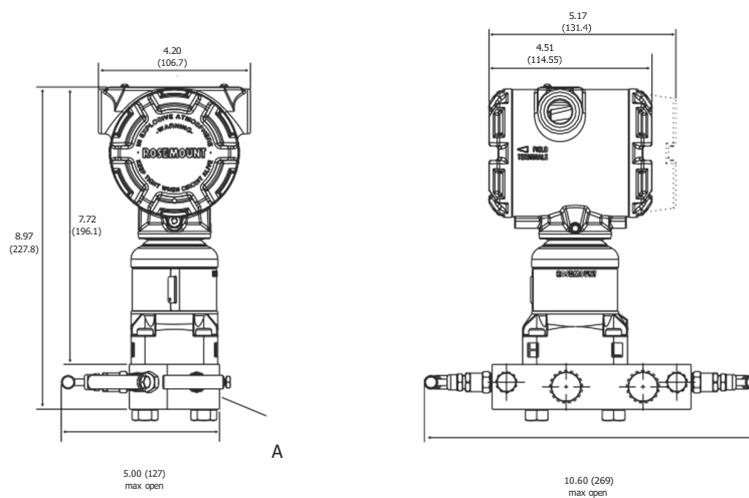
A. Drain/vent valve

B.  $\frac{1}{2}$ -14 NPT on manifold for process connections,  $2\frac{1}{8}$ -in. (53.98 mm) center-to-center

**Note**

Dimensions are in inches (millimeters).

**Figure 26: Rosemount 305 Five-Valve Coplanar Style Side Entry Manifold**



A.  $\frac{1}{2}$ -14 NPT on manifold for process connections,  $2\frac{1}{8}$ -in. (53.98 mm) center-to-center,  $\frac{1}{4}$ -18 NPT for test/vent connection

**Note**

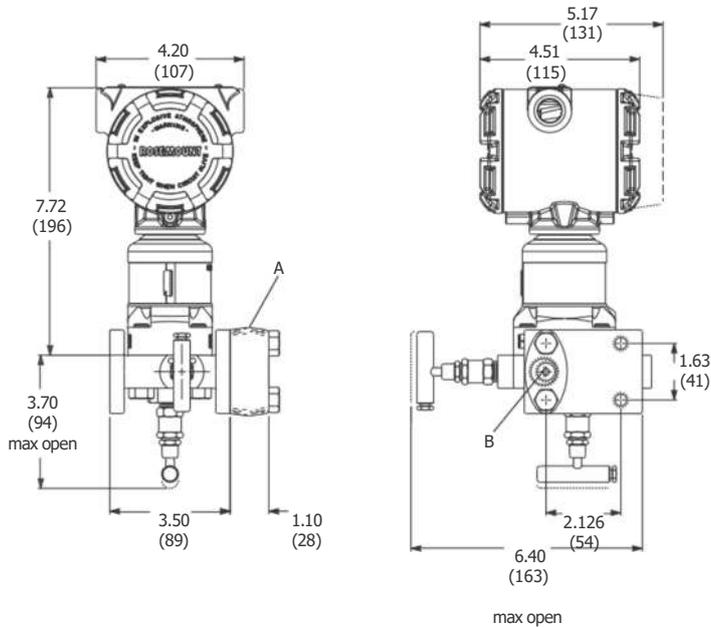
Dimensions are in inches (millimeters).



## Rosemount traditional style manifolds

Manifold handle assembly may vary slightly from image shown. All valve handle assemblies provide the same function and meet all stated drawing dimensions. Maximum valve handle width is 2.5 inches (63.5 mm).

**Figure 27: Rosemount 305 Two-Valve Traditional Style Manifold**



A.  $\frac{1}{2}$ -14 NPT on optional process adapter

B.  $\frac{1}{4}$ -18 NPT on traditional manifold for process connection without the use of a process adapter

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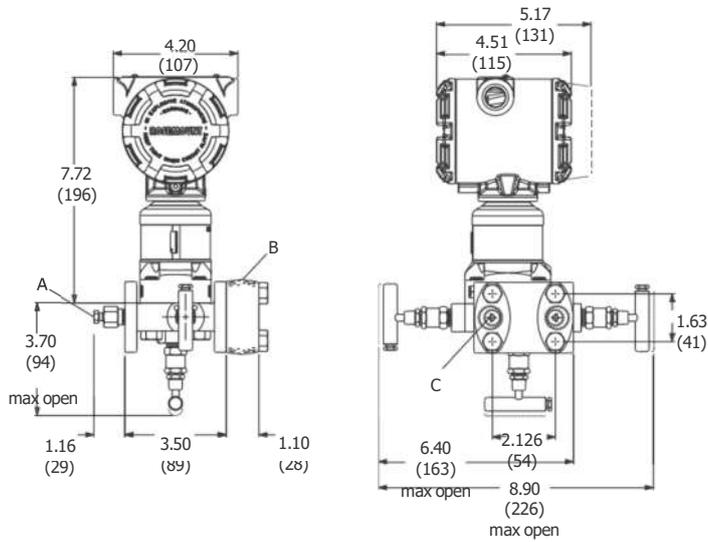
### Note

Dimensions are in inches (millimeters).

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**Figure 28: Rosemount 305 Three-Valve Traditional Style Manifold**

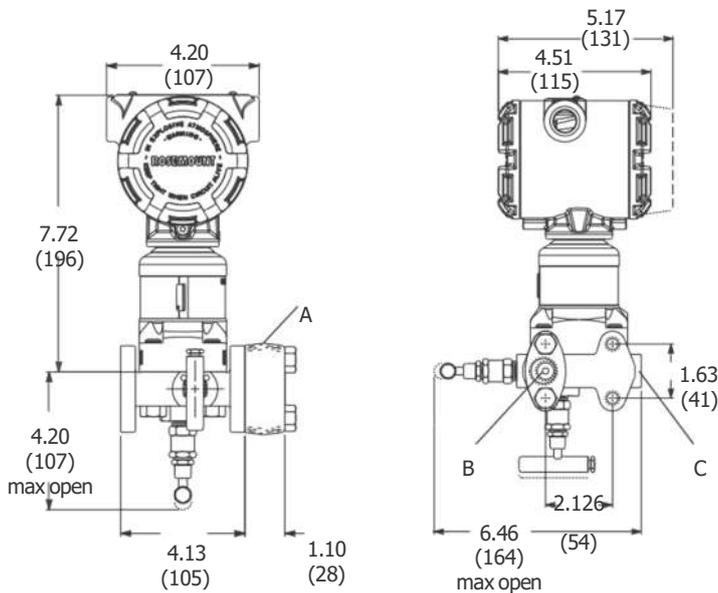


- A. Drain/vent valve
- B. ½-14 NPT on optional process adapter <sup>(2)</sup>
- C. ¼-18 NPT on traditional manifold for process connections without the use of process adapters

**Note**

Dimensions are in inches (millimeters).

**Figure 29: Rosemount 305 Two-Valve Traditional DIN Style Manifold**



- A. ½-14 NPT on optional process adapter
- B. ¼-18 NPT on traditional manifold for process connection without the use of a process adapter
- C. ¼-18 NPT vent connection

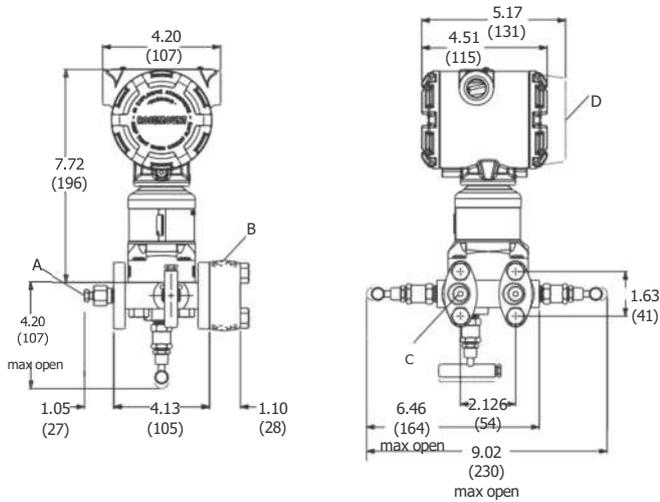
**Note**

Dimensions are in inches (millimeters).

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



**Figure 30: Rosemount 305 Three-Valve Traditional DIN Style Manifold**

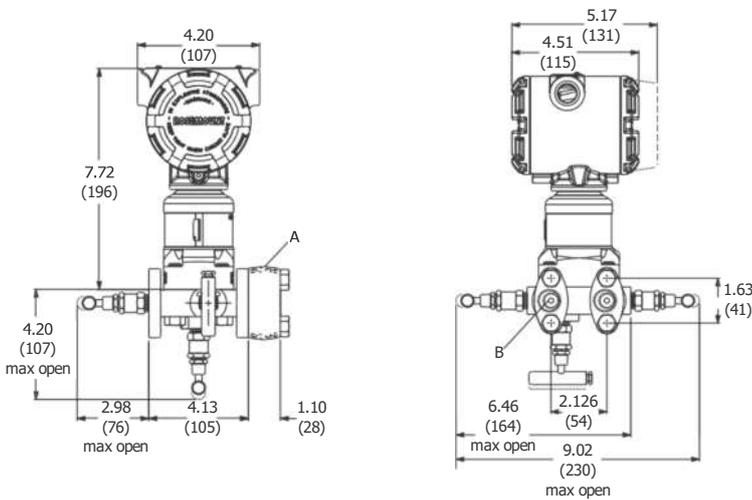


- A. Drain/vent valve
- B. 1/2-14 NPT on optional process adapter (2)
- C. 1/4-18 NPT on traditional manifold for process connections without the use of process adapters

**Note**

Dimensions are in inches (millimeters).

**Figure 31: Rosemount 305 Three-Valve Traditional DIN Style Manifold**



- A. Drain/vent valve
- B. 1/2-14 NPT on optional process adapter(3)
- C. 1/4-18 NPT on traditional manifold for process connections without the use of process adapters

**Note**

Dimensions are in inches (millimeters).

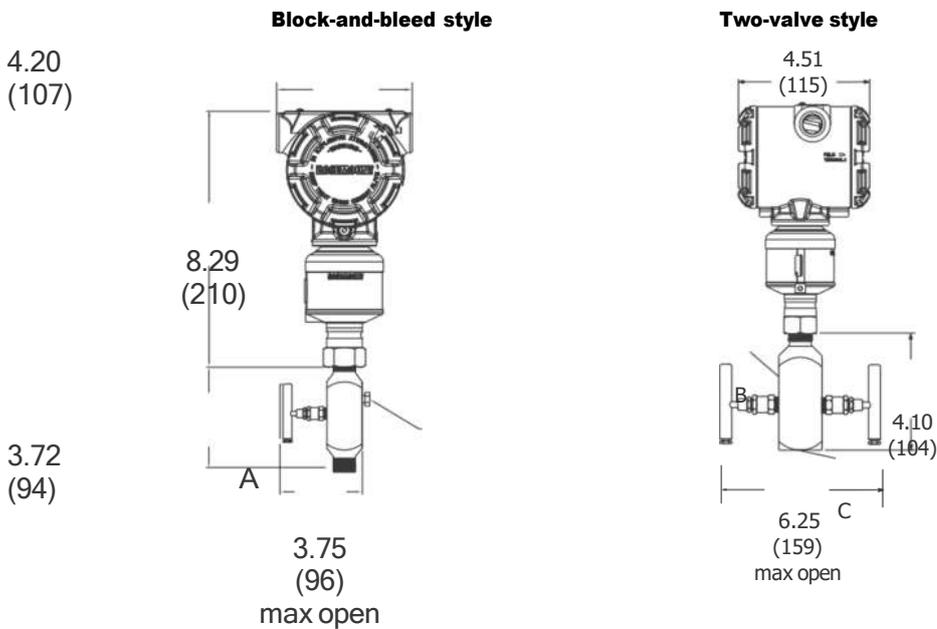
(2) Adapters can be rotated to give adapter connection centers of 2.0 in. (51 mm), 2.125 in. (54 mm), or 2.25 in. (57 mm).



## Rosemount In-line style manifolds

Manifold handle assembly may vary slightly from image shown. All valve handle assemblies provide the same function and meet all stated drawing dimensions. Maximum valve handle width is 2.5 inches (63.5 mm).

**Figure 32: Rosemount 306 Pressure Style Manifold (Rosemount 3051S\_T Shown)**



- A. Bleed screw (5/16-24 UNF on Rosemount R306)
- B. ¼-in. (6.35 mm) vent connection pipe plug supplied with manifold, but not installed at the factory (pipe plug supplied loose)
- C. ½-14 NPT female process connection (code BA) designed for accessory attachments

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### Note

Dimensions are in inches (millimeters).

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### Note

Manifold valve orientation may vary with respect to transmitter mounting holes.

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### Note

½-14 MNPT and ½-14 FNPT with 316 SST process wetted connections shown. For more detailed dimensions and other configurations of the Rosemount 306 Manifold, see Type 1 drawings at [Emerson.com/Global](http://Emerson.com/Global).

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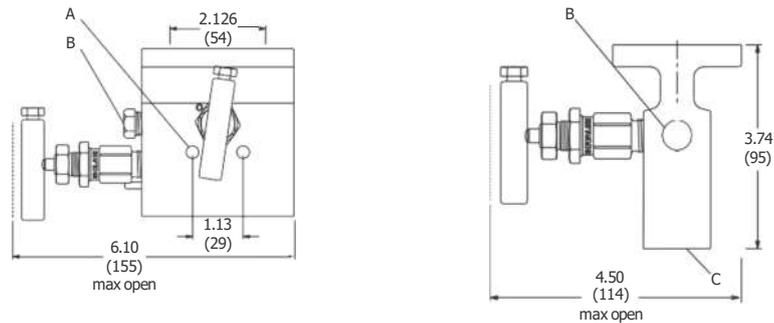
## Rosemount conventional style manifolds

Manifold handle assembly may vary slightly from image shown. All valve handle assemblies provide the same function and meet all stated drawing dimensions. Maximum valve handle width is 2.5 inches (63.5 mm).

**Figure 33: Rosemount 304 Two-Valve Flange x NPT Conventional Manifold**

**Note**

Top of images are instrument side, bottom of images are process side.



- A. 0.281 mounting holes (2)
- B. ¼-in. NPT test (plugged)
- C. ½-in. NPT process connection on 2.125 (53.98) centers (2)

**Note**

Dimensions are in inches (millimeters).

**Figure 34: Rosemount 304 Two-Valve Flange x Flange Conventional Manifold**

**Note**

Top of images are instrument side, bottom of images are process side.



- A. 0.281 mounting holes (2)
- B. ¼-in. NPT test (plugged)
- C. 7/16-20-UNF mounting holes (4) on a 2.125 (53.98) x 1.625 (41.28) hole pattern

**Note**

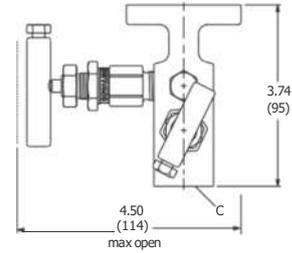
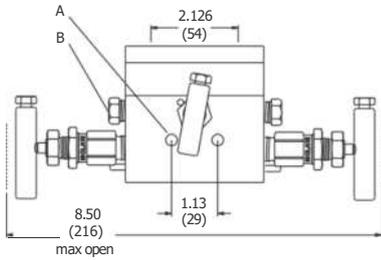
Dimensions are in inches (millimeters).



**Figure 35: Rosemount 304 Three-Valve Flange x NPT Conventional Manifold**

**Note**

Top of images are instrument side, bottom of images are process side.



- A.  $\varnothing$  0.281 mounting holes (2)
- B. 1/4-in. NPT test (plugged)
- C. 1/2-in. NPT process connection on 2.125 (53.98) centers (2)

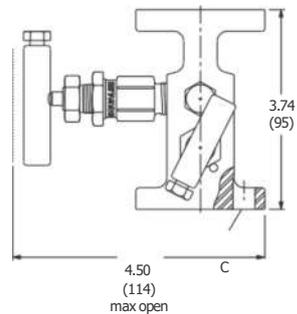
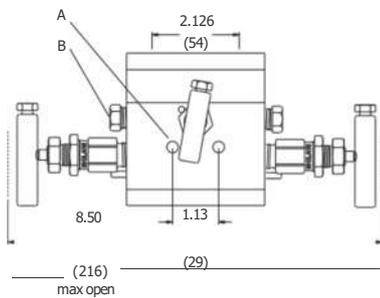
**Note**

Dimensions are in inches (millimeters).

**Figure 36: Rosemount 304 Three-Valve Flange x Flange Conventional Manifold**

**Note**

Top of images are instrument side, bottom of images are process side.



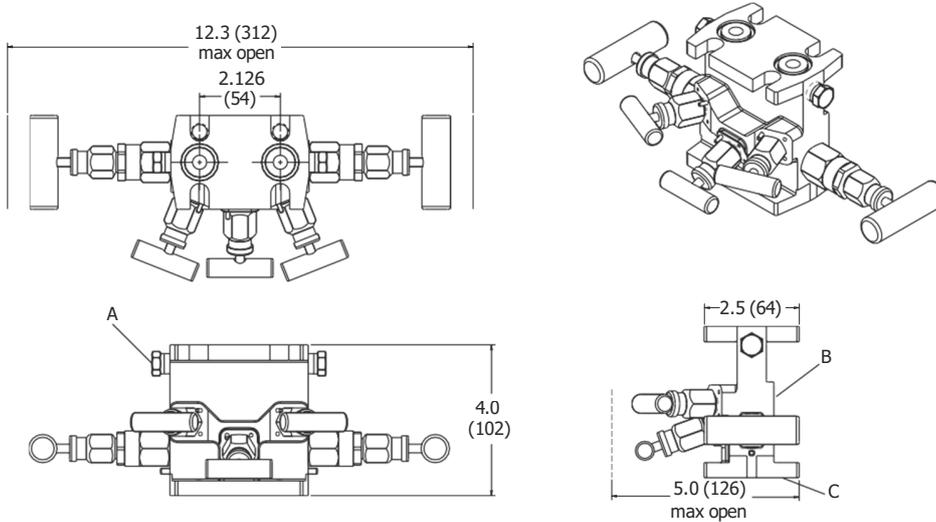
- A. 0.281 mounting holes (2)
- B. 7/16-20-UNF mounting holes (4) on a 2.125 (53.98) x 1.625 (41.28 mm) hole pattern

**Note**

Dimensions are in inches (millimeters).



**Figure 37: Rosemount 304 Natural Gas Five-Valve Flange x NPT Conventional Manifold with NG Option**

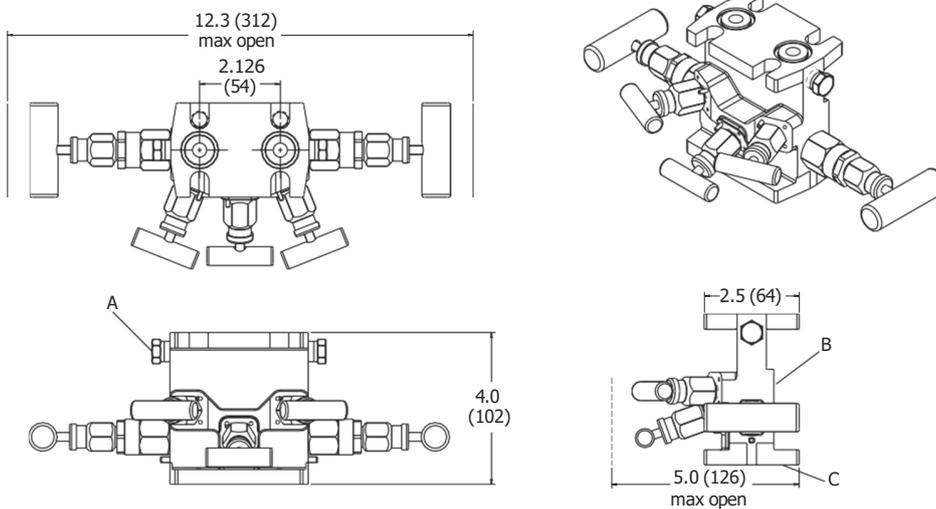


- A. 0.281 mounting holes (2)
- B. ¼-in. NPT test (plugged) (2)
- C. ¼-in. NPT process connection on 2.125 (53.98) centers (2)
- D. ¼-in. NPT vent

**Note**

Dimensions are in inches (millimeters).

**Figure 38: Rosemount 304 Natural Gas Five-Valve Conventional Manifold with NG Option**



- A. ¼-in. NPT test (plugged) (2)
- B. ¼-in. NPT vent
- C. 7/16-20-UNF mounting holes (4) on a 2.125 (53.98) x 1.625 (41.28) hole pattern

**Note**

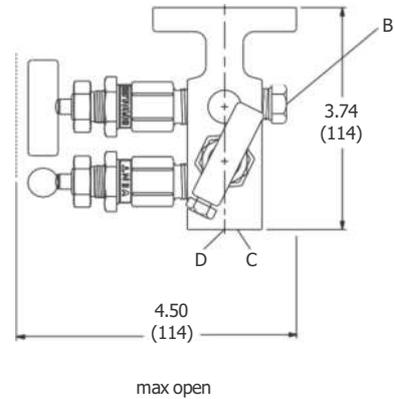
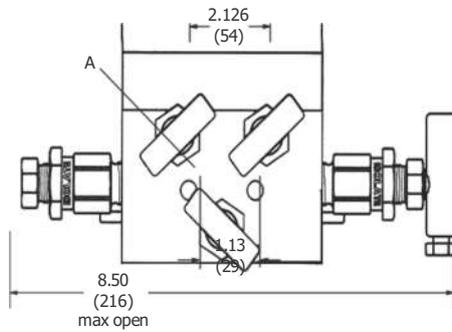
Dimensions are in inches (millimeters).



**Figure 39: Rosemount 304 Natural Gas Five-Valve Flange x NPT Conventional Manifold**

**Note**

Top of images are instrument side, bottom of images are process side.



- A. 0.281 Mounting holes (2)
- B. ¼-in. NPT test (plugged) (2)
- C. ½-in. NPT process connection on 2.125 (53.98) centers (2)
- D. 1¼-in. NPT vent

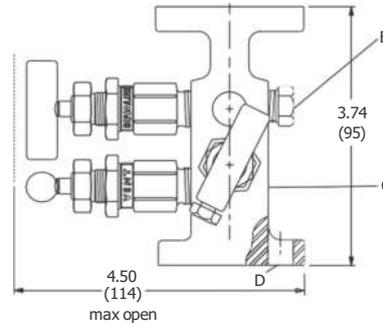
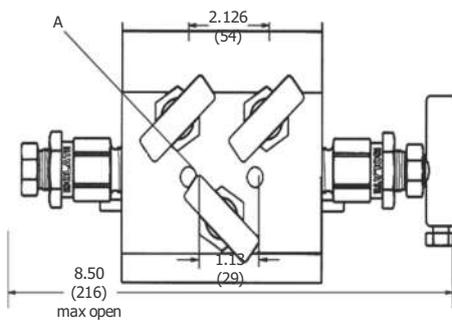
**Note**

Dimensions are in inches (millimeters).

**Figure 40: Rosemount 304RT Natural Gas Five-Valve Flange x Flange Conventional Manifold**

**Note**

Top of images are instrument side, bottom of images are process side.



- A. 0.281 mounting holes (2)
- B. ¼-in. NPT test (plugged) (2)
- C. ¼ -in. NPT vent
- D. 7/16-20-UNF mounting holes (4) on a 2.125 (53.98) x 1.625 (41.28) hole pattern

**Note**

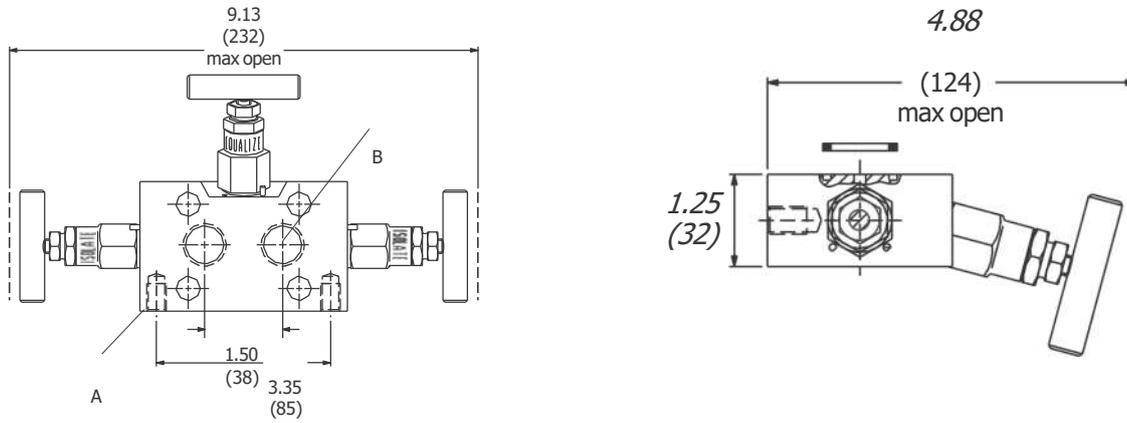
Dimensions are in inches (millimeters).



**Figure 41: Rosemount 304RW Three-Valve Wafer Manifold**

**Note**

Top of images are instrument side, bottom of images are process side.



- A.  $\frac{3}{8}$ -16 UNC mounting holes (2)
- B.  $\frac{1}{2}$ -14 NPT process connection (2)

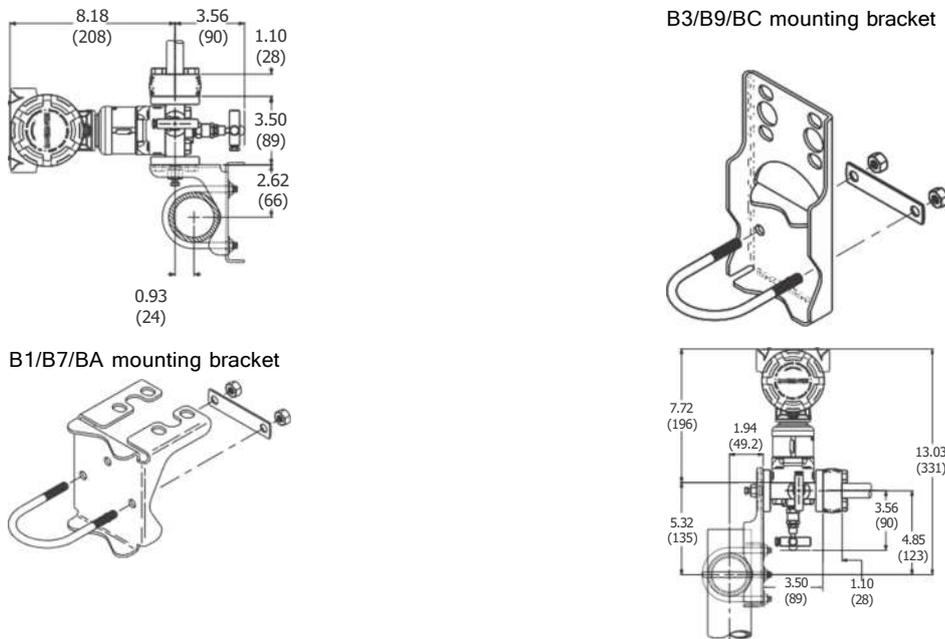
**Note**

Dimensions are in inches (millimeters).



## Rosemount mounting brackets

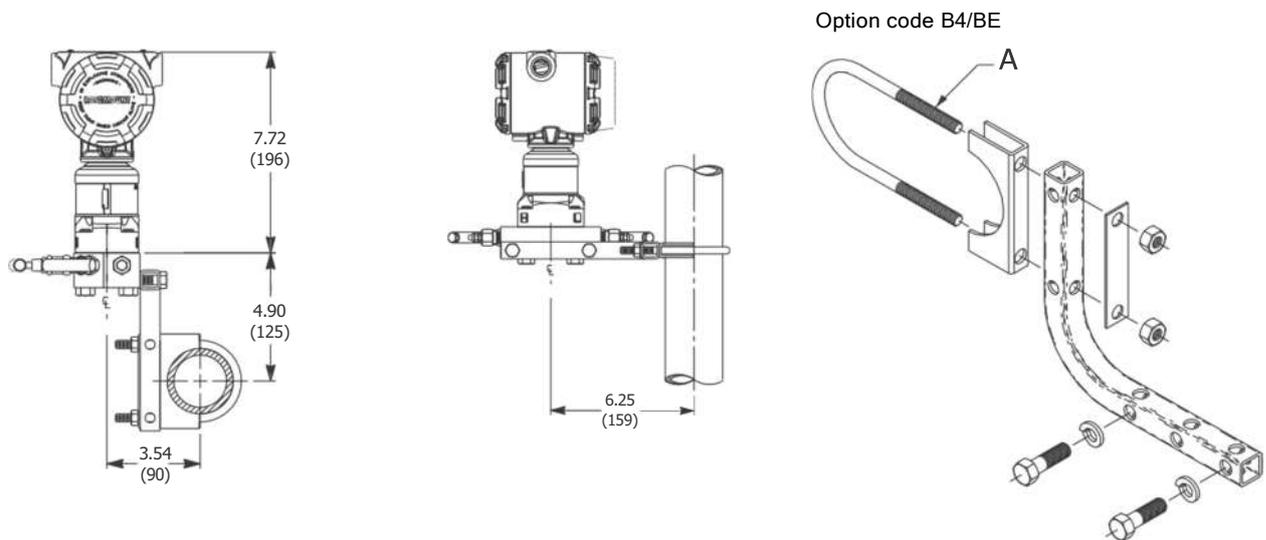
**Figure 42: Traditional Manifold with Optional Brackets for 2-in. (50.8 mm) Pipe Mounting**



**Note**

Dimensions are in inches (millimeters).

**Figure 43: Coplanar Manifold with Optional Bracket for 2-in. (50.8 mm) Pipe Mounting**



A. 2-in. (50.8 mm) U-bolt for pipe mounting

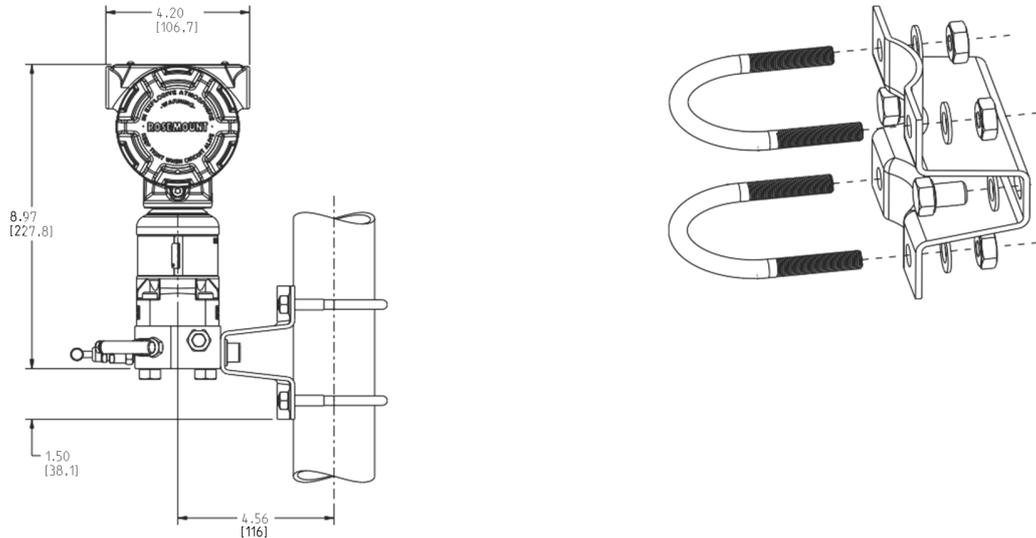
**Note**

Dimensions are in inches (millimeters).



**Figure 44: Coplanar Manifold with Optional Bracket for 2-in. (50.8 mm) Panel Mounting**

Option code BF/BG

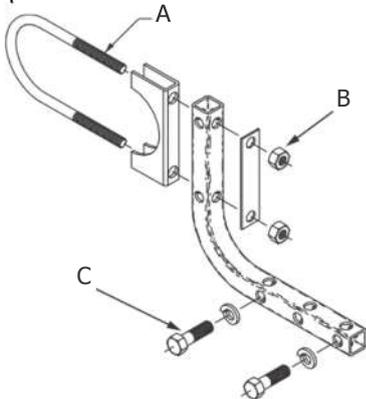


**Note**

Dimensions are in inches (millimeters).

**Figure 45: Coplanar Side Entry with Optional Bracket for 2-in. (50.8 mm) Pipe Mounting**

Option code BF/BG



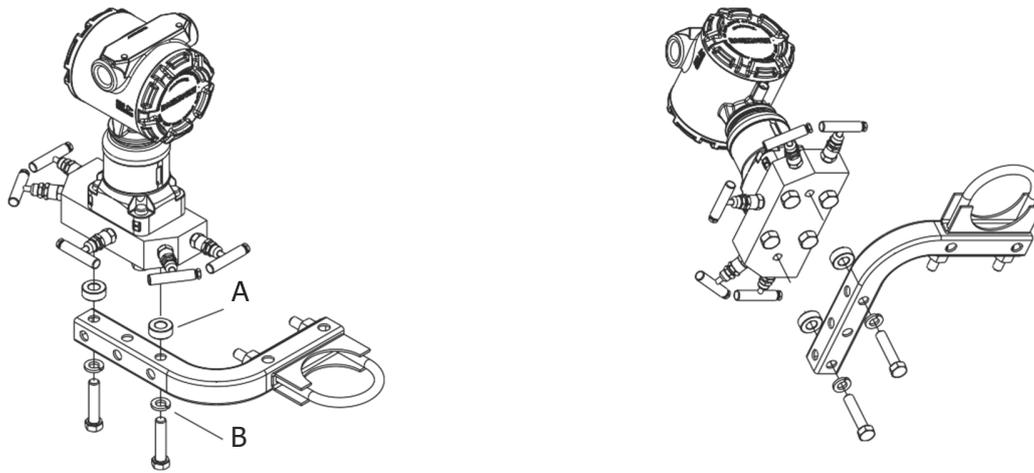
- A. 2-in. (50.8 mm) U-bolt for pipe mounting
- B. Spacer
- C.  $\frac{3}{8}$ -16 bolts for transmitter mounting

**Note**

Dimensions are in inches (millimeters).

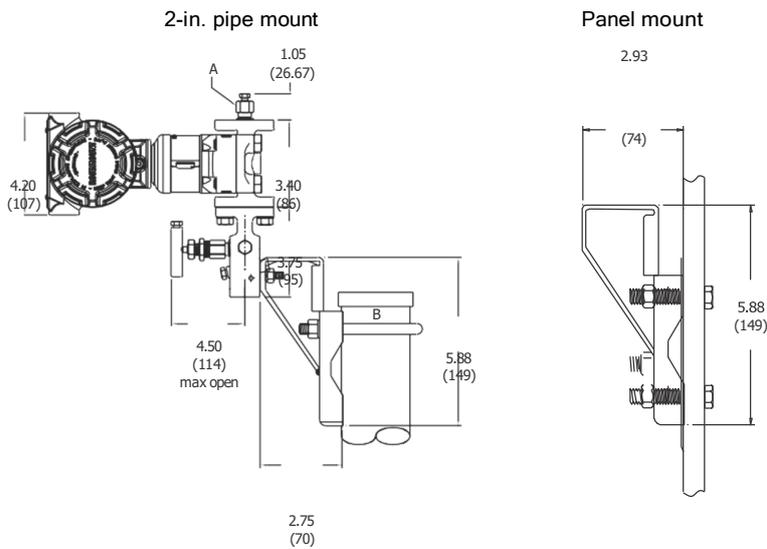


**Figure 46: Bracket Installation for Coplanar Side Entry Manifold**



- A. Spacer
- B. Washer

**Figure 47: VS/VC Heavy Duty Manifold Mounting Bracket**



- A. Drain/vent valve
- B. 2-in. (50.8 mm) pipe

**Note**

Dimensions are in inches (millimeters).

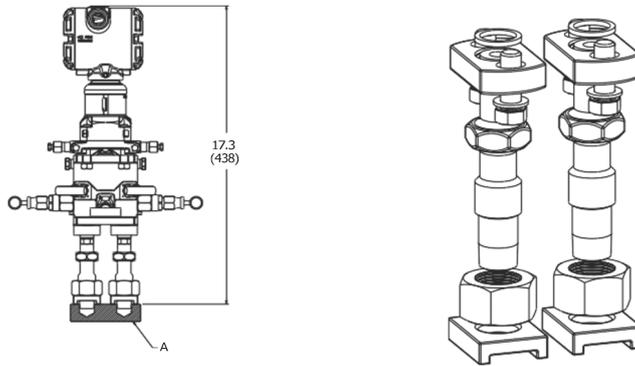


## Rosemount connectors

Manifold handle assembly may vary slightly from image shown. All valve handle assemblies provide the same function and meet all stated drawing dimensions.

**Figure 48: DH Extended Stabilized Connectors for Direct Mounting**

**Option code DH**



A. Cross section image is shown for dimensioning purposes only; it is not part of the transmitter assembly.

**Note**

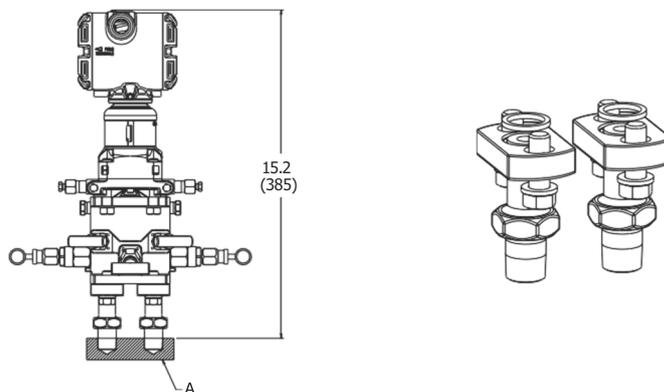
Dimensions are in inches (millimeters).

**Note**

In default assembly orientation, manifold valves will face towards user when module high side is on user's left.

**Figure 49: DV Non-Stabilized Connectors for Direct Mounting**

**Option code DV**



A. Cross section image is shown for dimensioning purposes only; it is not part of the transmitter assembly.

**Note**

Dimensions are in inches (millimeters).

**Note**

In default assembly orientation, manifold valves will face towards user when module high side is on user's left.