

# Rosemount™ 485 Annubar™ Flange-Lok Assembly



**NOTICE**

This guide provides basic guidelines for Rosemount 485 Annubar. It does not provide instructions for configuration, diagnostics, maintenance, service, troubleshooting, Explosion-proof, Flameproof, or Intrinsically Safe (I.S.) installations. Refer to Rosemount 485 Annubar [Reference Manual](#) for more instruction. This manual is also available electronically on [EmersonProcess.com/Rosemount](http://EmersonProcess.com/Rosemount).

If the Rosemount Annubar was ordered assembled to a Rosemount Pressure Transmitter, see the following Quick Start Guides for information on configuration and hazardous locations certifications:

- Rosemount 3051S Series Pressure Transmitter and Rosemount 3051SF Series Flowmeter [Quick Start Guide](#).
- Rosemount 3051S MultiVariable Transmitter and Rosemount 3051SF Series Flowmeter MultiVariable Transmitter [Quick Start Guide](#).
- Rosemount 3051 Pressure Transmitter and Rosemount 3051CF Series Flowmeter Transmitter [Quick Start Guide](#).
- Rosemount 2051 Pressure Transmitter and Rosemount 2051CF Series Flowmeter Transmitter [Quick Start Guide](#).

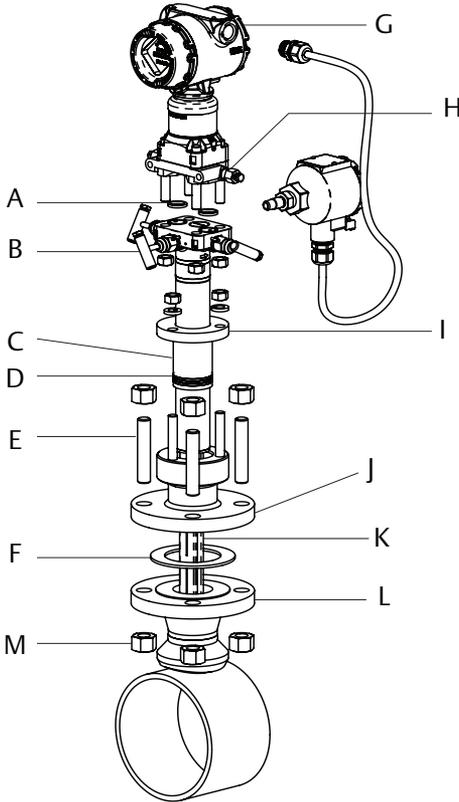
**⚠ WARNING**

Process leaks may cause harm or result in death. To avoid process leaks, only use gaskets designed to seal with the corresponding flange and o-rings to seal process connections. Flowing medium may cause the Rosemount 485 Annubar Assembly to become hot and could result in burns.

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**Figure 1. Rosemount 485 Annubar Flange-Lok Assembly Exploded View<sup>(1)</sup>**



- |  |                                     |
|--|-------------------------------------|
| A. 2× O-rings                                      | H. Coplanar flange with drain vents |
| B. Direct mount transmitter connection with valves | I. Compression plate                |
| C. Follower  | J. Flange-Lok assembly              |
| D. 3× Packing rings                                | K. Rosemount 485 Annubar Sensor     |
| E. Studs   | L. Mounting flange assembly         |
| F. Gasket  | M. Nuts                             |
| G. Transmitter                                     |                                     |

**Note**

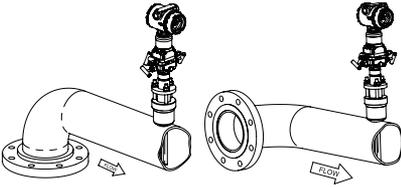
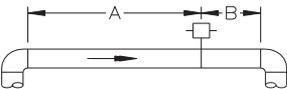
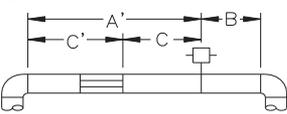
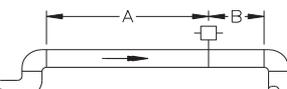
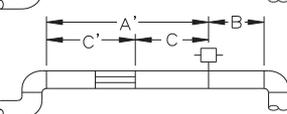
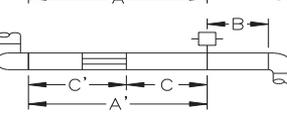
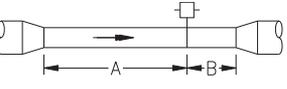
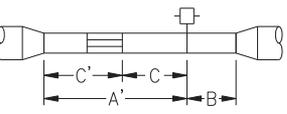
Use an appropriate pipe sealing compound rated for the service temperature on all threaded connections.

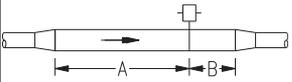
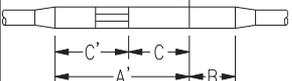
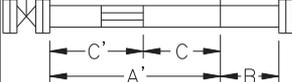
1. Transmitter and housing are shown for clarity purposes – only supplied if ordered.

# 1.0 Location and orientation

Correct orientation and straight run requirements must be met for accurate and repeatable flow measurements. Refer to [Table 1](#) for minimum pipe diameter distances from upstream disturbances.

**Table 1. Straight Run Requirements**

		Upstream pipe diameters					Downstream pipe diameters
		Without straightening vanes		With straightening vanes			
		In plane A	Out of plane A	A'	C	C'	
1		8	10	N/A	N/A	N/A	4
		N/A	N/A	8	4	4	4
2		11	16	N/A	N/A	N/A	4
		N/A	N/A	8	4	4	4
3		23	28	N/A	N/A	N/A	4
		N/A	N/A	8	4	4	4
4		12	12	N/A	N/A	N/A	4
		N/A	N/A	8	4	4	4

5		18	18	N/A	N/A	N/A	4
		N/A	N/A	8	4	4	4
6		30	30	N/A	N/A	N/A	4
		N/A	N/A	8	4	4	4

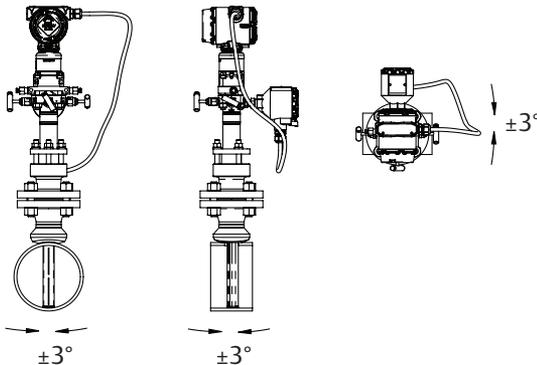
**Note**

- Consult the factory for instructions regarding use in square or rectangular ducts.
- “In plane A” means the sensor is in the same plane as the elbow. “Out of plane A” means the sensor is perpendicular to the plane of the elbow.
- If proper lengths of straight run are not available, position the mounting such that 80% of the run is upstream and 20% is downstream.
- Use straightening vanes to reduce the required straight run length.
- Row 6 in Table 1 applies to gate, globe, plug, and other throttling valves that are partially opened, as well as control valves.

### 1.1 Misalignment

Rosemount 485 Annubar installation allows for a maximum misalignment of 3°.

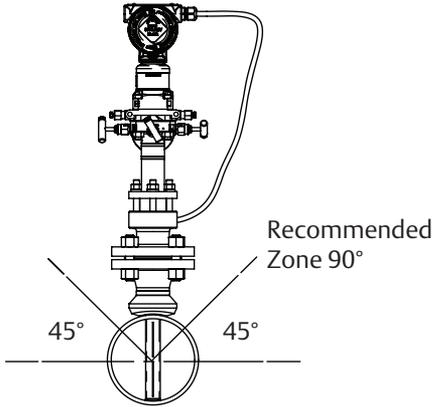
**Figure 2. Misalignment**



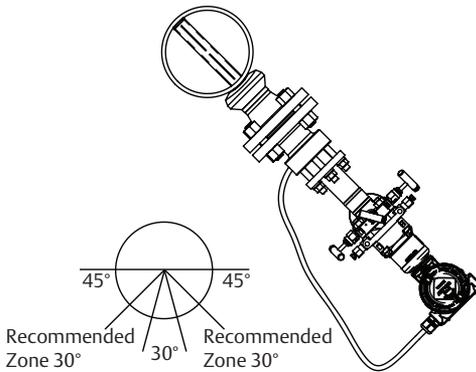
## 1.2 Horizontal orientation

For proper venting and draining, the sensor should be located in the upper half of the pipe for air and gas applications. For liquid and steam applications, the sensor should be located in the bottom half of the pipe. The maximum temperature for a direct mounted transmitter is 500 °F (260 °C).

**Figure 3. Gas**



**Figure 4. Liquid and Steam**



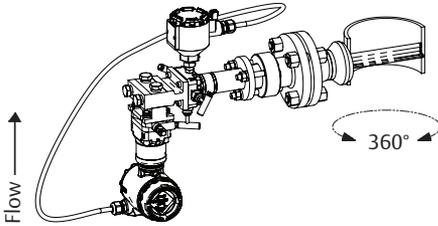
**Note**

Top mounting for steam application is an alternate mounting option in some cases. Consult Rosemount Customer Central for instruction regarding steam on top mounting.

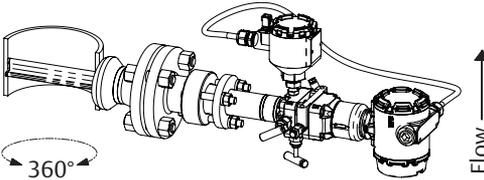
### 1.3 Vertical orientation

The sensor can be installed in any position around the circumference of the pipe, provided the vents are positioned properly for bleeding or venting. Optimal results for liquid or steam are obtained when flow is up. The preferred orientation for air or gas is flow down, but upwards flow is acceptable. For steam applications, a 90° spacer will be added to provide water legs to ensure the transmitter stays within temperature limits. The maximum temperature for a direct mounted transmitter is 500 °F (260 °C).

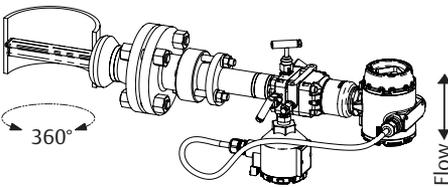
**Figure 5. Steam**



**Figure 6. Liquid**



**Figure 7. Gas**



## 2.0 Drill holes into pipe

1. Determine the sensor size based on the probe width (see [Table 2](#)).

**Table 2. Sensor Size/Hole Diameter Chart**

Sensor size	Sensor width	Hole diameter	
1	0.590-in. (14,99 mm)	$\frac{3}{4}$ -in. (19 mm)	+1/32-in (0,8 mm) – 0.00
2	1.060-in. (26,92 mm)	$1\frac{5}{16}$ -in. (34 mm)	+ $\frac{1}{16}$ -in. (1,6 mm) – 0.00
3	1.935-in. (49,15 mm)	$2\frac{1}{2}$ -in. (64 mm)	+ $\frac{1}{16}$ -in. (1,6 mm) – 0.00

2. Depressurize and drain the pipe.
3. Select the location to drill the hole.
4. Determine the diameter of the hole to be drilled according to the specifications in [Table 2](#). Drill the mounting hole into the pipe with a hole saw or drill. **DO NOT TORCH CUT THE HOLE.**

### Note

Drill the hole 180° from the first hole for opposite- side support models.

5. If opposite-side support model is supplied, a second identically sized hole must be drilled opposite the first hole so the sensor can pass completely through the pipe. (To determine if you have an opposite-side support model, measure the distance from the tip to the first slot or hole. If the distance is greater than 1-in. (25,4 mm), it is the opposite-side support model.) To drill the second hole, follow these steps:
  - a. Measure the pipe circumference with a pipe tape, soft wire, or string. (For the most accurate measurement the pipe tape needs to be perpendicular to the axis of flow.)
  - b. Divide the measured circumference by two to determine the location of the second hole.
  - c. Re-wrap the pipe tape, soft wire, or string from the center of the first hole. Then, using the number calculated in the preceding step, mark the center of what will become the second hole.
  - d. Using the diameter determined in step 3, drill the hole into the pipe with a hole saw or drill. **DO NOT TORCH CUT THE HOLE.**



Drill the appropriate diameter hole through the pipe wall.

6. Deburr the drilled holes on the inside of the pipe.

### 3.0 Weld mounting hardware

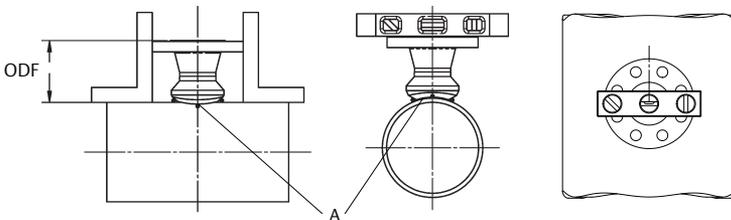
- Center the flanged assembly over the mounting hole, gap 1/16-in. (1,6 mm), and measure the distance from the outer diameter of the pipe to the face of the flange. Compare this to [Table 3](#) and adjust the gap as necessary.

**Table 3. Flange Sizes and Outer Diameter to Flange (ODF) per Sensor Size**

Sensor size	Flange size	ODF (in. [mm])	Size	ODF (in. [mm])
1	1 1/2-in. 150#	3.88 (98,5)	DN40 PN16	3.09 (78,6)
1	1 1/2-in. 300#	4.13 (104,9)	DN40 PN40	3.21 (81,6)
1	1 1/2-in. 600#	4.44 (112,7)	DN40 PN100	3.88 (98,6)
1	1 1/2-in. 900#	4.94 (125,4)	N/A	N/A
1	1 1/2-in. 1500#	4.94 (125,4)	N/A	N/A
1	1 1/2-in. 2500#	6.76 (171,6)	N/A	N/A
2	2.0-in. 150#	4.13 (104,8)	DN50 PN16	3.40 (86,3)
2	2.0-in. 300#	4.38 (111,2)	DN50 PN40	3.51 (89,3)
2	2.0-in. 600#	4.76 (120,8)	DN50 PN100	4.30 (109,3)
2	2.0-in. 900#	5.88 (149,2)	N/A	N/A
2	2.0-in. 1500#	5.88 (149,2)	N/A	N/A
2	3.0-in. 2500#	9.87 (250,7)	N/A	N/A
3	3.0-in. 150#	4.63 (117,5)	DN80 PN16	3.84 (97,6)
3	3.0-in. 300#	5.00 (126,9)	DN80 PN40	4.16 (105,6)
3	3.0-in. 600#	5.38 (136,6)	DN80 PN100	4.95 (125,6)
3	4.0-in. 900#	8.19 (208,0)	N/A	N/A
3	4.0-in. 1500#	8.56 (217,5)	N/A	N/A
3	4.0-in. 2500#	11.19 (284,2)	N/A	N/A

- Place four 1/4-in. (6 mm) tack welds at 90° increments. Check alignment of the mounting both parallel and perpendicular to the axis of flow (see [Figure 8](#)). If alignment of the mounting is within tolerances, finish weld per local codes. If alignment is outside of specified tolerance, make adjustments prior to making the finish weld.

**Figure 8. Alignment**



A. Tack welds

3. If opposite-side support is being used, perform the following steps:
  - a. Center the fitting for the opposite side support over the opposite side hole, gap  $\frac{1}{16}$ -in. (1,6 mm).
  - b. Place four  $\frac{1}{4}$ -in. (6 mm) tack welds at 90° increments.
  - c. Insert the sensor into the mounting hardware.
  - d. Verify the tip of the sensor is centered in the opposite side fitting and the plug will fit around sensor.
  - e. Finish weld per local codes.
  - f. If alignment of the bar does not allow enough clearance to insert the opposite side plug, make adjustments prior to making the finish weld.
4. To avoid serious burns, allow the mounting hardware to cool before continuing.

## 4.0 Insert the Rosemount Annubar Sensor

1. Align the flow arrow on the head with the direction of flow. Assemble the bar to the mounting flange using a gasket, bolts, and nuts.
2. Tighten the nuts in a cross pattern to allow even compression of the gasket.
3. Thread the studs into Flange-Lok body.
4. To ensure the flowmeter contacts the opposite side wall, mark the tip of the sensor with a marker. (Do not mark if ordered with option code P2 or PA.)
5. Insert the flowmeter into the Flange-Lok body until the sensor tip contacts the pipe wall (or support plug), rotating the flowmeter back and forth.
6. Remove the flowmeter.
7. Verify the sensor tip made contact with the pipe wall by ensuring that some of the marker has been rubbed off. For special-cleaned bars, look for wear marks on the tip. If the tip did not touch the wall, verify pipe dimensions and the height of the mounting body from the outer diameter of the pipe and re-insert.
8. Re-insert the flow meter into the Flange-Lok body and install the first packing ring on the sensor between the retaining ring and the packing follower. Take care not to damage the split packing rings.
9. Push the packing ring into the Flange-Lok body and against the weld retaining ring. Repeat this process for the two remaining rings, alternating the location of the packing ring split by 180°.

10. Tighten the nuts onto the studs.
  - a. Place the included split-ring lock washer between each of the nuts and the compression plate. Give each nut one half turn in succession until the split-ring lock washer is flat between the nut and the compression plate. Torque is as follows:

**Table 4. Torque Requirements**

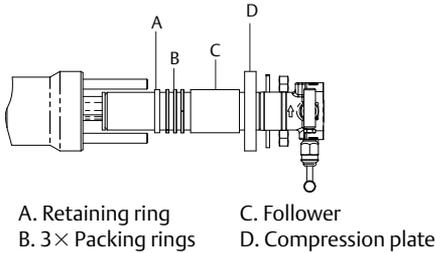
Sensor size	Torque
1	40 in-lb (4,5 N-m)
2	100 in-lb (11,3 N-m)
3	250 in-lb (28,2 N-m)

- b. Inspect the unit for leakage. If any exists, tighten the nuts in one-quarter turn increments until there is no leakage.

**NOTICE**

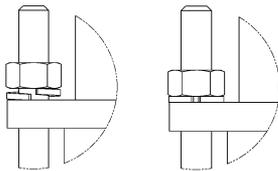
If alignment of the bar does not allow enough clearance to insert the opposite side plug, make adjustments prior to making the finish weld.

**Figure 9. Packing Ring Detail**



**Figure 10. Split-Ring Lock Washer Orientation**

Before tightening    After tightening



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**Note**

Flange-Lok sealing mechanisms generate significant force at the point where the sensor contacts the opposite pipe wall. Caution needs to be exercised on thin-walled piping (ANSI Sch 10 and lower) to avoid damage to the pipe.

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## 5.0 Mount the transmitter

### 5.1 Transmitter mounting, direct mount head with valves

It is not necessary to retract the Rosemount Annubar when direct mounting a transmitter with valves.

1. Place PTFE O-rings into grooves on the Rosemount Annubar head.
2. Align the high side of the transmitter to the high side of the sensor (“Hi” is stamped on the side of the head) and install.
3. Tighten the nuts in a cross pattern to 384 in-lb (43 N-m).

### 5.2 Transmitter mounting with remote mount head

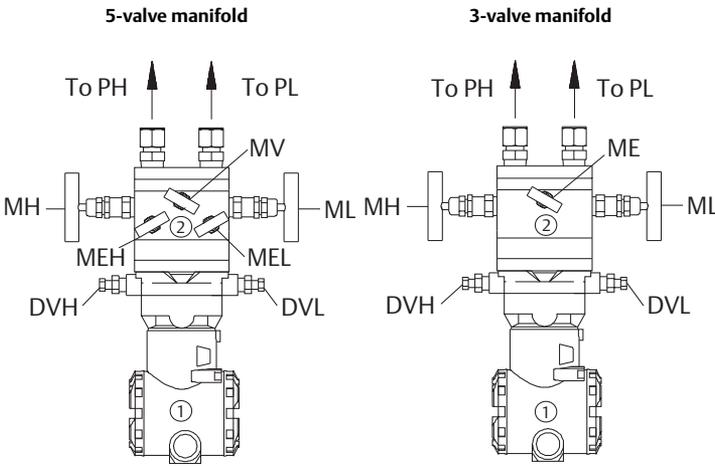
Temperatures in excess of 250 °F (121 °C) at the sensor module diaphragms will damage the transmitter. Remote mounted transmitters are connected to the sensor by means of impulse piping, which allows process temperatures to decrease to a point where the transmitter is no longer vulnerable.

Different impulse piping arrangements are used depending on the process fluid and must be rated for continuous operation at the pipeline design pressure and temperature. A minimum of 1/2-in. (12 mm) outer diameter stainless steel tubing with a wall thickness of at least 0.035-in. (0,9 mm) is recommended including and under 600# ANSI (DN50 PN100). Above 600# ANSI (DN50 PN100), stainless steel tubing with 1/16-in. wall thickness. Threaded pipe fittings are not recommended because they create voids where air can become entrapped and create leakage points.

The following restrictions and recommendations apply to impulse piping location:

1. Impulse piping that runs horizontally must slope at least one inch per foot (83 mm per m).
  - Slope downward (toward the transmitter) for liquid and steam applications.
  - Slope upward (toward the transmitter) for gas applications.
2. Outdoor installations for liquid, saturated gas, or steam may require insulation and heat tracing to prevent freezing.
3. An instrument manifold is recommended for all installations. Manifolds allow an operator to equalize the pressures prior to zeroing and isolates the process fluid from the transmitter.

**Figure 11. Valve Identification for 5-Valve and 3-Valve Manifolds**



**Table 5. Description of Impulse Valves and Components**

Name	Description	Purpose
Components		
1	Transmitter	Reads Differential Pressure
2	Manifold	Isolates and equalizes transmitter
Manifold and impulse valves		
PH	Primary sensor <sup>(1)</sup>	High and low side pressure process connections.
PL	Primary sensor <sup>(2)</sup>	
DVH	Drain/vent valve <sup>(1)</sup>	Drains (for gas service) or vents (for liquid or steam service) the DP transmitter chambers
DVL	Drain/vent valve <sup>(2)</sup>	
MH	Manifold <sup>(1)</sup>	Isolates high side or low side pressure from the process
ML	Manifold <sup>(2)</sup>	
MEH	Manifold equalizer <sup>(1)</sup>	Allows high and low pressure side access to the vent valve, or for isolating the process fluid
MEL	Manifold equalizer <sup>(2)</sup>	
ME	Manifold equalizer	Allows high and low side pressure to equalize
MV	Manifold vent valve	Vents process fluid

1. High pressure

2. Low pressure

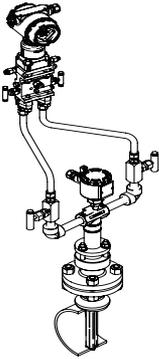
## 5.3 Recommended installations

### Gas service

Secure the transmitter above the sensor to prevent condensible liquids from collecting in the impulse piping and the DP cell.

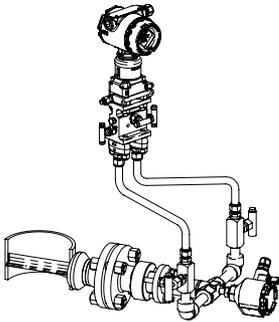
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**Figure 12. Horizontal Gas**



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**Figure 13. Vertical Gas**

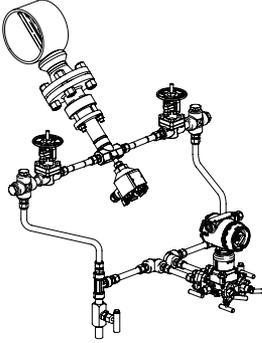


### Steam or liquid service

Mount the transmitter below the process piping, adjust 10 to 15 degree above direct vertical down. Route the impulse piping down to the transmitter and fill the system with cool water through the two cross fittings.

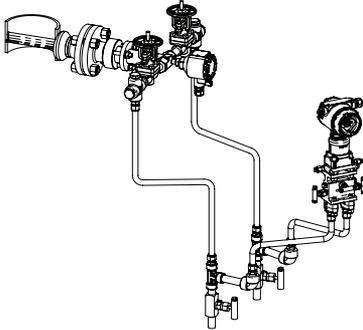
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**Figure 14. Horizontal Steam and Liquid**



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**Figure 15. Vertical Steam and Liquid**



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**Note**

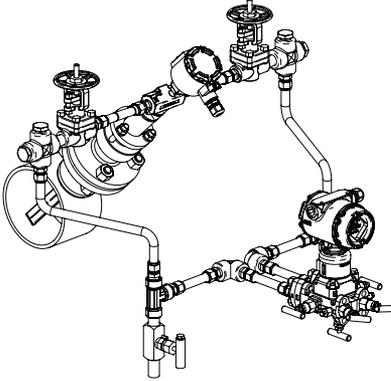
Ensure the drain legs are long enough to capture the dirt particles and sediment.

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## Top mounting for steam service

Top mounting for steam applications is an appropriate mounting option in many cases. Consult Rosemount Customer Central for instructions regarding steam on top mounting.

**Figure 16. Horizontal Top Mounting for Steam**



## 6.0 Product certifications

### 6.1 Approved Manufacturing Locations

Rosemount Inc. – Shakopee, Minnesota USA

Rosemount DP Flow Design and Operations – Boulder, Colorado USA

Emerson Process Management GmbH & Co. OHG – Wessling, Germany

Emerson Process Management Asia Pacific Private Limited – Singapore

Emerson Beijing Instrument Co., Ltd – Beijing, China

### 6.2 European Directive Information

The EC declaration of conformity for all applicable European directives for this product can be found on the Rosemount website at [EmersonProcess.com/Rosemount](http://EmersonProcess.com/Rosemount). A hard copy may be obtained by contacting our local sales office.

#### European Pressure Equipment Directive (PED) (97/23/EC)

Rosemount 485 Annubar — Refer to EC declaration of conformity for conformity assessment

Pressure Transmitter — See appropriate Pressure Transmitter QSG

### 6.3 Hazardous Locations Certifications

For information regarding the transmitter product certification, see the appropriate transmitter QSG:

- Rosemount 3051S Series Pressure Transmitter and Rosemount 3051SF Series Flowmeter [Quick Start Guide](#).
- Rosemount 3051S MultiVariable Transmitter and Rosemount 3051SF Series Flowmeter MultiVariable Transmitter [Quick Start Guide](#).
- Rosemount 3051 Pressure Transmitter and Rosemount 3051CF Series Flowmeter Transmitter [Quick Start Guide](#).
- Rosemount 2051 Pressure Transmitter and Rosemount 2051CF Series Flowmeter Transmitter [Quick Start Guide](#).

Figure 17. Rosemount 485 Declaration of Conformity

	<h1>EU Declaration of Conformity</h1>	
<p>No: DSI 1000 Rev. L</p>		
<p>We,</p>		
<p><b>Rosemount, Inc.</b>  <b>8200 Market Boulevard</b>  <b>Chanhassen, MN 55317-9685</b>  <b>USA</b></p>		
<p>declare under our sole responsibility that the products,</p>		
<p><b>Rosemount Primary Elements: 405x, 485, 585, 1195, 1495, 1595</b>  <b>Rosemount DP Flowmeters: 2051CFx, 3051CFx, 3051SFx</b></p>		
<p>manufactured by,</p>		
<p><b>Rosemount / Dieterich Standard, Inc.</b>  <b>5601 North 71<sup>st</sup> Street</b>  <b>Boulder, CO 80301</b>  <b>USA</b></p>		
<p>to which this declaration relates, is in conformity with the provisions of the European Union Directives as shown in the attached schedule.</p>		
<p>Assumption of conformity is based on the application of the harmonized standards and, when applicable or required, a European Union notified body certification, as shown in the attached schedule.</p>		
 (signature)	Vice President of Global Quality (function)	
Kelly Klein (name)	19 Apr 2016 (date of issue)	
<p>Page 1 of 3</p>		<p>DSI 1000.docx</p>



# EU Declaration of Conformity



No: DSI 1000 Rev. L

**PED Directive (97/23/EC) This directive is valid until 18 July 2016**  
**PED Directive (2014/68/EU) This directive is valid from 19 July 2016**

Summary of Classifications		
Model/Range	PED Category	
	Group 1 Fluid	Group 2 Fluid
Rosemount 585 - 150#-900# All Lines	SEP	SEP
Rosemount 585 - 1500# & 2500# All Lines	III	SEP
Rosemount 405C, 405A, x051xFC	SEP	SEP
Rosemount 1195, x051xFP with 150#, 1-1/2" Flange	I	SEP
Rosemount 1195, x051xFP with 300# or 600#, 1" or 1-1/2" Flange	II	I
Rosemount 1195, x051xFP with 1" or 1-1/2" Threaded & Welded Connection	II	I
Rosemount 485/x051xFA: 1500# & 2500# All Line Sizes, Flanged	III	SEP
Rosemount 485/x051xFA: Sensor Size 2, 150#, 6" to 24" Line Sizes, FloTap	I	SEP
Rosemount 485/x051xFA: Sensor Size 2, 300#, 6" to 24" Line Sizes, FloTap	II	I
Rosemount 485/x051xFA: Sensor Size 2, 600#, 6" to 16" Line Sizes, FloTap	II	I
Rosemount 485/x051xFA: Sensor Size 2, 600#, 18" to 24" Line Sizes, FloTap	III	II
Rosemount 485/x051xFA: Sensor Size 3, 150#, 12" to 44" Line Sizes, FloTap	II	I
Rosemount 485/x051xFA: Sensor Size 3, 150#, 46" to 72" Line Sizes, FloTap	III	II
Rosemount 485/x051xFA: Sensor Size 3, 300#, 12" to 72" Line Sizes, FloTap	III	II
Rosemount 485/x051xFA: Sensor Size 3, 600#, 12" to 36" Line Sizes, FloTap	III	II
Rosemount 485/x051xFA: Sensor Size 3, 600#, 48" to 72" Line Sizes, FloTap	IV*	III
All other Rosemount Primary Elements and DP Flowmeters	SEP	SEP

**Certificate of Assessment – CE-0041-H-RMT-001-13-USA**

*IV\* Category IV Flo Tap requires a B1 Certificate for design examination and H1 Certificate for special surveillance*



# EU Declaration of Conformity



No: DSI 1000 Rev. L

**Pressure Equipment Directive Notified Body:**

**Bureau Veritas UK Limited** [Notified Body Number: 0041]

Parklands, Wilmslow Road, Didsbury  
Manchester M20 2RE  
United Kingdom

**表格 1B: 含有 China RoHS 管控物质超过最大浓度限值的部件型号列表 Rosemount 485**  
**Table 1B: List of Rosemount 485 Parts with China RoHS Concentration above MCVs**

部件名称 Part Name	有害物质 / Hazardous Substances					
	铅 Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr +6)	多溴联苯 Polybrominated biphenyls (PBB)	多溴联苯醚 Polybrominated diphenyl ethers 多溴联苯醚 (PBDE)
铝制温度传感器外壳组件 Aluminum RTD Housing Assembly	O	O	O	X	O	O

本表格系依据 SJ/T11364 的规定而制作。

This table is proposed in accordance with the provision of SJ/T11364

O: 意为该部件的所有均质材料中该有害物质的含量均低于 GB/T 26572 所规定的限量要求。

O: Indicate that said hazardous substance in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.

X: 意为在该部件所使用的所有均质材料里，至少有一类均质材料中该有害物质的含量高于 GB/T 26572 所规定的限量要求。

X: Indicate that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572.

上述申明仅适用于选择铝制外壳组件的产品。其他所有差压流量一次元件的组件所含有的 China RoHS 管控物质浓度均低于 GB/T 26572 所规定的限量要求。关于差压流量计变送器组件的管控物质浓度的申明，请参看变送器的快速安装指南。

The disclosure above applies to units supplied with aluminum connection heads. No other components supplied with DP Flow primary elements contain any restricted substances. Please consult the transmitter Quick Start Guide (QIG) for disclosure information on transmitter components.



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