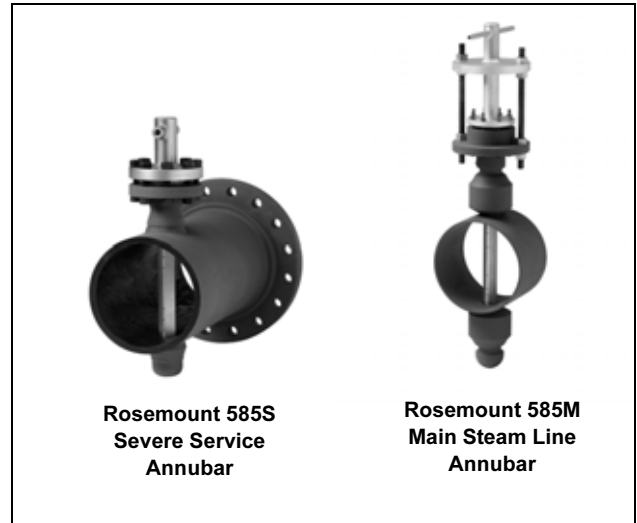


# Rosemount 585 Annubar<sup>®</sup> Primary Element

- *Handles applications that exceed the structural limitations of other primary elements up to 3788 psig @ 1100 °F (261 barg @ 593 °C).*
- *Offered in a variety of materials for optimal compatibility with the process and maximum strength.*
- *Symmetrical sensor design allows bi-directional flow measurement.*
- *Allows for insertion under full flowing conditions, requiring no process shutdown.*
- *Energy savings gained through minimal permanent pressure loss.*



**Rosemount 585S  
Severe Service  
Annubar**

**Rosemount 585M  
Main Steam Line  
Annubar**



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# 585 Annubar Primary Element

## The 585 Annubar Primary Element

### Provides a solutions where conditions exceed the structural limitations of all other primary elements

The Rosemount 585 Annubar primary element is designed to withstand applications with extreme flowing conditions that reach a maximum of 3788 psig @ 1100 °F (261 barg @ 593 °C). This is achieved through a solid sensor design and precision machining processes.

### Offered in a variety of materials for optimal compatibility with the process and maximum strength

The sensor materials available allow the optimal material compatibility with corrosive process fluids and the maximum resistance to high temperatures. These materials include 316 SST, Alloy C-276, Alloy 800H, and PVDF.

### Symmetrical design allows bi-directional flow measurement

The symmetrical design of the Diamond shaped sensor means that a single DP Flow Primary Element is all that is required for a bi-directional flow measurement.

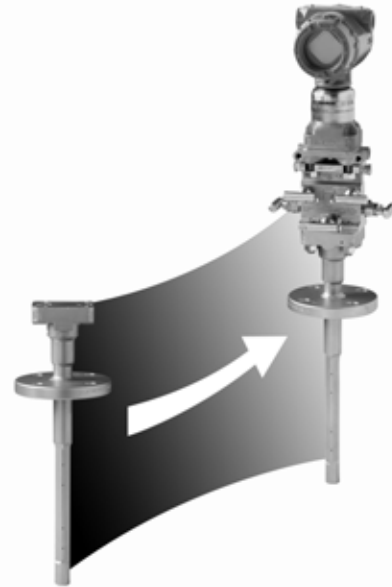
### Allows for insertion under full flowing conditions, requiring no process shutdown

The Gear-Drive Flo-tap Annubar allows the process to be hot-tapped. This allows a flow measurement point to be added without service interruption.

### Energy savings gained through minimal permanent pressure loss

The non-constricting design of the Annubar sensor creates minimal blockage in the pipe, which reduces permanent pressure loss. Permanent pressure loss can be converted directly into energy savings in the form of compressor cost for gas, electrical cost for pumping liquids, and fuel costs for generating steam.

Integral mount head allows coupling to most Rosemount transmitters which provides flowmeter capabilities.



## Rosemount Pressure Solutions

### Rosemount 3051S Series of Instrumentation

Highest performing scalable pressure, flow and level measurement solutions drive better plant efficiency and more productivity. Innovative features include wireless, advanced diagnostics, and multivariable technologies.

### Rosemount 3095 Mass Flow Transmitter

Accurately measures differential pressure, static pressure and process temperature to dynamically calculate fully compensated mass flow.

### Rosemount 305, 306 and 304 Manifolds

Factory-assembled, calibrated and seal-tested transmitter-to-manifold assemblies reduce installation costs.

### Rosemount 1199 Diaphragm Seals

Provides reliable, remote measurements of process pressure and protects the transmitter from hot, corrosive, or viscous fluids.

### Orifice Plate Primary Element Systems: Rosemount 1495 and 1595 Orifice Plates, 1496 Flange Unions and 1497 Meter Sections

A comprehensive offering of orifice plates, flange unions and meter sections that are easy to specify and order. The 1595 Conditioning Orifice provides superior performance in tight fit applications.

### Rosemount 3051SFA Annubar Flowmeters, Rosemount 3095MFA Annubar Flowmeters, and Rosemount 485 Annubar Flowmeter Series

The state-of-the-art, fifth generation Rosemount 485 Annubar combined with the Rosemount MultiVariable transmitter technology creates an accurate, repeatable and dependable insertion-type flowmeter.

### Rosemount 3051SFC Compact Orifice Flowmeters, Rosemount 3095MFC Compact Orifice Flowmeters, and Rosemount 405 Compact Orifice Flowmeter Series

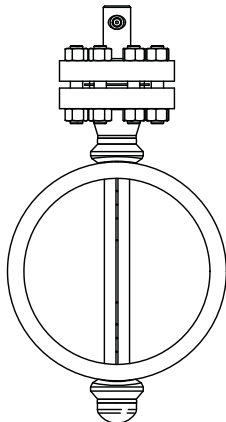
Compact Orifice Flowmeters can be installed between existing flanges, up to a Class 600 (PN100) rating. A conditioning orifice plate version offers installation in tight fit applications requiring only two diameters of straight run upstream after a flow disturbance.

### Rosemount 3051SFP Integral Orifice Flowmeters, Rosemount 3095MFP Integral Orifice Flowmeters, and Rosemount 1195 Integral Orifice Flowmeter Series

These integral orifice flowmeters eliminate the inaccuracies that become more pronounced in small orifice line installations. The completely assembled, ready to install flowmeters reduce cost and simplify installation.

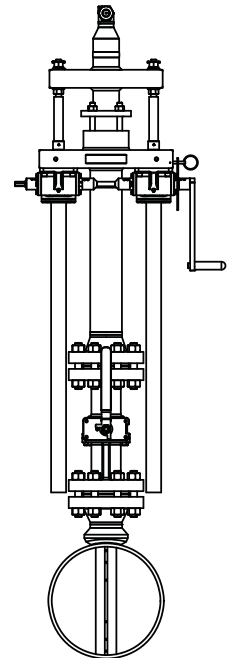
## Rosemount 585 Annubar Primary Element Selection Guide

### Rosemount 585S Severe Service Annubar Primary Element



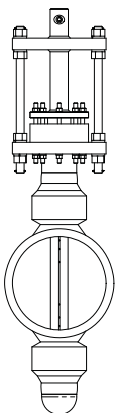
**Flanged with  
Opposite Side Support**

- Designed for the best performance in applications with high pressure and temperature requirements and extreme flowing conditions
- Optional Direct Mount Transmitter Connection allows direct mounting to any Rosemount transmitter
- Complete solution for bi-directional flow with symmetric sensor design and optional double instrument valves
- Gear-Drive Flo-tap mounting hardware solves applications requiring installation under full flowing conditions
- Ideal fluid type: liquid, gas, steam



**Gear-Drive Flo-Tap**

### Rosemount 585M Main Steam Line Annubar Primary Element



**Main Steam Annubar with  
Opposite Side Support**

- Designed for the measurement of critical steam service in power plants and cogeneration systems
- Easy to maintain design allows for removal during line flushing
- Main Steam Line design allows greater pressure containment than a 2500-lb. ANSI flange (DIN PN400)
- Ideal fluid type: superheated steam

# 585 Annubar Primary Element

## Rosemount 585 Annubar Primary Element

### SPECIFICATIONS

#### Performance

##### Performance Statement Assumptions

Measured pipe I.D.

##### Discharge Coefficient Factor

±1.50% of flow rate

##### Repeatability

±0.10%

##### Line Sizes

- Sensor Size 11: 4-in. to 24-in. (102 to 610 mm)
- Sensor Size 22: 6-in. to 36-in. (152 to 914 mm)
- Sensor Size 44: 10-in. to 96-in. (254 to 2438 mm)

TABLE 1. Reynolds Number and Probe Width

Sensor Size	Minimum Rod Reynolds Number ( $R_d$ )	Probe Width ( $d$ ) (inches)
11	6500	0.80-in. (20,32 mm)
22	10000	1.20-in. (30,48 mm)
44	25000	2.28-in. (57,91 mm)

Where

$d$  = Probe width (feet)

$v$  = Velocity of fluid (ft/sec)

$\rho$  = Density of fluid (lbm/ft<sup>3</sup>)

$\mu$  = Viscosity of the fluid (lbm/ft-sec)

$$R_d = \frac{d \times v \times \rho}{\mu}$$

#### Sizing

Contact an Emerson Process Management representative for assistance. A Configuration Data Sheet is required prior to order for application verification.

#### Flow Turndown

10:1 or better

#### Functional

##### Service

- Liquid
- Gas
- Steam

##### Process Temperature Limits

TABLE 2. Direct Mount Transmitter Connection Platform

Transmitter Connection Platform	Temperature Limit
3-valve manifold (Option code 3)	500 °F (260 °C)
5-valve manifold (Option code 6)	750 °F (398 °C)

TABLE 3. Remote Mount Transmitter Connection Platform

Sensor Material	Temperature Limit
316 Stainless Steel (Option code S)	850 °F (454 °C)
Alloy C-276 (Option code H)	1250 °F (677 °C)
Alloy 800H (Option code W)	1500 °F (816 °C)
PVDF (KYNAR) (Option code K)	250 °F (121 °C)

##### Pressure and Temperature Limits<sup>(1)</sup>

TABLE 4. Main Steam Line Annubar

Mounting Material	Sensor Material	Max. Pressure @ Temp.	Max. Temp.
Chrome-Moly Grade F-11	Alloy	2317 psig @ 1000 °F	1100 °F
	800H	(160 bar @ 538 °C)	(593 °C)
Chrome-Moly Grade F-22	Alloy	2868 psig @ 1000 °F	1100 °F
	800H	(198 bar @ 538 °C)	(593 °C)
Chrome-Moly Grade F-91	Alloy	3788 psig @ 1100 °F	1200 °F
	800H	(261 bar @ 593 °C)	(649 °C)

(1) Static pressure selection may effect pressure limitations.

TABLE 5. Severe Service Annubar

Annubar Type	Sensor Material	Max. Flange Rating
Flanged (option code F)	316 SST	2500# ANSI
	Alloy C-276	2500# ANSI
	Alloy 800H	2500# ANSI
	PVDF (KYNAR)	150# ANSI
Flanged Flo-Tap (option code G)	316 SST	600# ANSI

## Physical

### Temperature Measurement

Remote RTD

- Series 78 with Rosemount 644 housing 100 Ohm platinum RTD
- Spring loaded with 1/2-in. NPT nipple and union

Thermowell

- 1/2-in. NPT x 3/4-in. socket weld
- 316 Stainless Steel and Alloy C-276 Material
- 2.5-in. insertion length provided

### Annubar Sensor Material

- 316 Stainless Steel
- Alloy C-276
- Alloy 800H
- PVDF (KYNAR)

### Annubar Type

See "Dimensional Drawings" on page 8

Flanged with Opposite Side Support Model (option F)

- Provided with opposite side support, which is the same material as the pipe and requires a second pipe penetration
- Sensor flange is the same material as the Annubar sensor and the mounting flange is the same material as the pipe material
- Flanged mounting hardware: nuts, studs and gaskets (DIN units supplied without nuts, studs and gaskets)
- SST: -325 to 850 °F (-198 to 454 °C)
- Alloy C-276: -325 to 1250 °F (-198 to 677 °C)
- PVDF (KYNAR): -40 to 250 °F (-40 to 121 °C)
- Alloy 800H: -325 to 1500 °F (-198 to 816 °C)

Main Steam Annubar with Opposite Side Support (option L)

- Provided with opposite side support, which is the same material as the pipe and requires a second pipe penetration
- Alloy 800H: -325 to 1500 °F (-198 to 816 °C)
- Only available in sensor size 44

Flanged Flo-Tap Models (option G)

- Opposite side support is not available
- Packing Gland Material Temperature Limits
  - Graphite: -40 to 850 °F (-40 to 454 °C)
- Isolation valve option
  - The isolation valve will carry the same pressure rating as the sensor flange and mounting flange specified in the mounting type
- SST: -325 to 850 °F (-198 to 454 °C)
- Maximum allowable insertion pressure: 1440 psig (99 bar)
- Only available in sensor size 44

### Annubar Type Specification Chart

Option Code	Mounting Type/ Pressure Class	Flanged	Main Steam	Gear-Drive Flo-Tap
A1	150# RF ANSI	X		X
A3	300# RF ANSI	X		X
A6	600# RF ANSI	X		X
AN <sup>(1)</sup>	900# RF ANSI	X		
AF <sup>(1)</sup>	1500# RF ANSI	X		
AT <sup>(1)</sup>	2500# RF ANSI	X		
D1	DIN PN 16	X		X
D3	DIN PN 40	X		X
D6	DIN PN 100	X		X
R1	150# RTJ Flange	X		X
R3	300# RTJ Flange	X		X
R6	600# RTJ Flange	X		X
RN <sup>(1)</sup>	900# RTJ Flange	X		
RF <sup>(1)</sup>	1500# RTJ Flange	X		
RT <sup>(1)</sup>	2500# RTJ Flange	X		
00 <sup>(1)</sup>	Main Steam Packing Gland		X	

(1) Remote mount only.

### Instrument Connection Temperature Ranges

TABLE 6. Minimum / Maximum Temperature Range

Code	Description	Temperature
G1	Needle Valves, Carbon Steel	-20 to 550 °F (-29 to 288 °C)
G2	Needle Valves, Stainless Steel	-20 to 1000 °F (-29 to 538 °C)
G3	Needle Valves, Alloy C-276	-20 to 1000 °F (-29 to 538 °C)
G5	OS&Y Gate Valve, Carbon Steel	-20 to 800 °F (-29 to 427 °C)
G6	OS&Y Gate Valve, Stainless Steel	-20 to 850 °F (-29 to 454 °C)

# 585 Annubar Primary Element

## Installation Considerations

### Straight Run Requirements<sup>(1)</sup>

	In Plane		Upstream Dimensions (Pipe Diameters)					Downstream
	Out of Plane		Without Straightening Vanes <sup>(2)</sup>		With Straightening Vanes <sup>(3)</sup>			
	In Plane	Out of Plane						
	A	A	A'	C	C'	B		
1			8	10	—	—	—	4
			—	—	8	4	4	4
2			11	16	—	—	—	4
			—	—	8	4	4	4
3			23	28	—	—	—	4
			—	—	8	4	4	4
4			12	12	—	—	—	4
			—	—	8	4	4	4
5			18	18	—	—	—	4
			—	—	8	4	4	4
6			30	30	—	—	—	4
			—	—	8	4	4	4

- (1) Consult the factory for instructions regarding use in square or rectangular ducts.
- (2) "In Plane A" means the bar is in the same plane as the elbow. "Out of Plane A" means the bar is perpendicular to the plane of the upstream elbow.
- (3) Use straightening vane to reduce the required straight run length.

### Drill Hole Size According to Sensor Size

Sensor Size	Hole Diameter	Hole Diameter
11	7/8-in. (23 mm)	+ 1/32-in. (0,80 mm) - 0.00
22	1 <sup>5</sup> / <sub>16</sub> -in. (34 mm)	+ 1/16-in. (1,59 mm) - 0.00
44	2 <sup>1</sup> / <sub>2</sub> -in. (64 mm)	+ 1/16-in. (1,59 mm) - 0.00



# 585 Annubar Primary Element

## DIMENSIONAL DRAWINGS

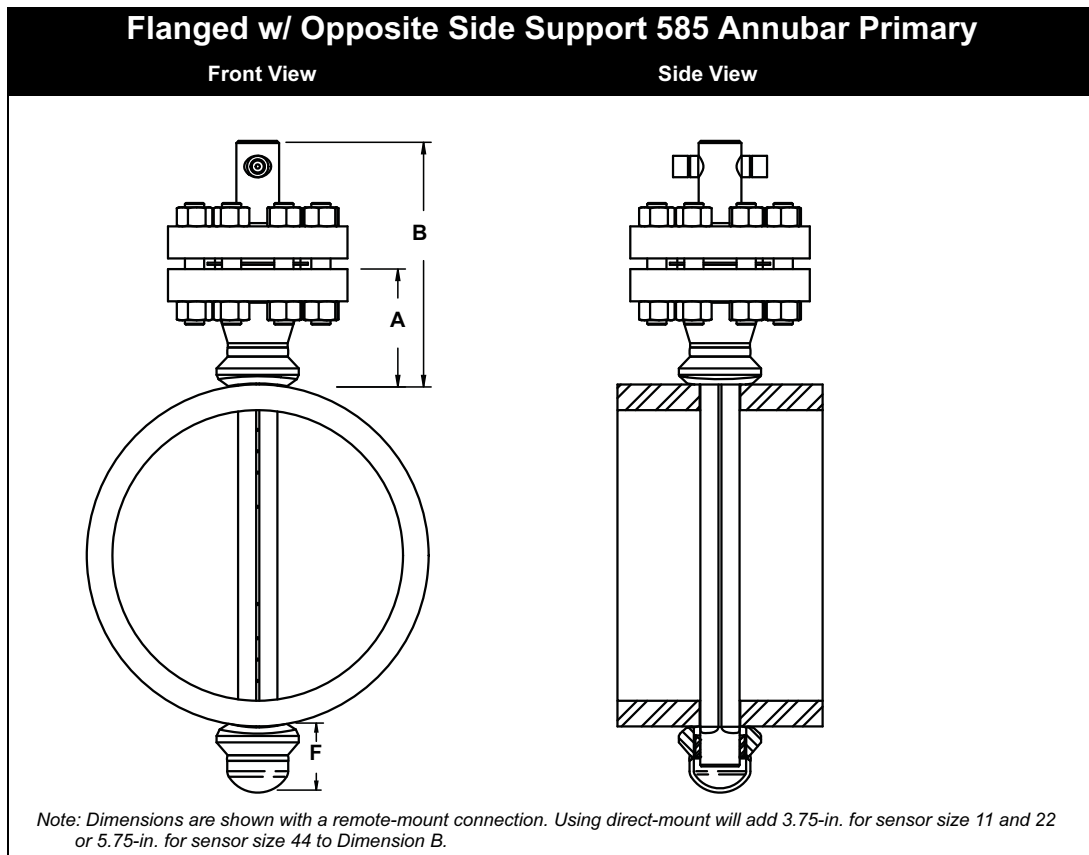


TABLE 7. Flanged w/ Opposite Side Support Dimensional Data

Sensor Size	Flange Size and Rating	A ± 0.125 (3.2)	B ± 0.25 (6.4)	F (Max)
11	1½ – 150#	3.88 (98.6)	11.00 (279.4)	3.50 (88.9)
11	1½ – 300#	4.13 (104.9)	11.00 (279.4)	3.50 (88.9)
11	1½ – 600#	4.44 (112.8)	11.00 (279.4)	3.50 (88.9)
11	DIN40/PN16	3.21 (81.5)	11.00 (279.4)	3.50 (88.9)
11	DIN40/PN40	3.21 (81.5)	11.00 (279.4)	3.50 (88.9)
11	DIN40/ PN100	3.88 (98.6)	11.00 (279.4)	3.50 (88.9)
11	1½ – 900#	4.94 (125.5)	9.32 (236.6)	3.50 (88.9)
11	1½ – 1500#	4.94 (125.5)	9.32 (236.6)	3.50 (88.9)
11	1½ – 2500#	6.76 (171.7)	11.64 (295.5)	4.00 (101.6)
22	2 – 150#	4.13 (104.9)	12.00 (304.8)	5.00 (127.0)
22	2 – 300#	4.38 (111.3)	12.00 (304.8)	5.00 (127.0)
22	2 – 600#	4.76 (120.9)	12.00 (304.8)	5.00 (127.0)
22	DIN50/PN16	3.40 (86.4)	12.00 (304.8)	5.00 (127.0)
22	DIN50/PN40	3.51 (89.2)	12.00 (304.8)	5.00 (127.0)
22	DIN50/ PN100	4.30 (109.2)	12.00 (304.8)	5.00 (127.0)
22	2 – 900#	5.88 (149.4)	10.51 (266.8)	5.00 (127.0)
22	2 – 1500#	5.88 (149.4)	10.51 (266.8)	5.00 (127.0)
22	3 – 2500#	9.87 (250.7)	15.62 (396.7)	4.50 (114.3)
44	3 – 150#	4.63 (117.6)	13.50 (342.9)	4.00 (101.6)
44	3 – 300#	5.00 (127.0)	13.50 (342.9)	4.00 (101.6)
44	3 – 600#	5.38 (136.7)	13.50 (342.9)	4.00 (101.6)
44	DIN80/PN16	3.84 (97.5)	13.50 (342.9)	4.00 (101.6)

Table 32 Continued on Next Page

## Product Data Sheet

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January 2009

# 585 Annubar Primary Element

TABLE 7. Flanged w/ Opposite Side Support Dimensional Data

Sensor Size	Flange Size and Rating	A ± 0.125 (3.2)	B ± 0.25 (6.4)	F (Max)
44	DIN80/PN40	4.16 (105.7)	13.50 (342.9)	4.00 (101.6)
44	DIN80/ PN100	4.95 (125.7)	13.50 (342.9)	4.00 (101.6)
44	4 – 900#	8.19 (208.0)	13.44 (341.3)	7.00 (177.8)
44	4 – 1500#	8.56 (217.4)	13.81 (350.8)	7.00 (177.8)
44	4 – 2500#	11.19 (284.2)	17.32 (439.8)	7.00 (177.8)

*Dimensions are in inches (millimeters)*

# 585 Annubar Primary Element

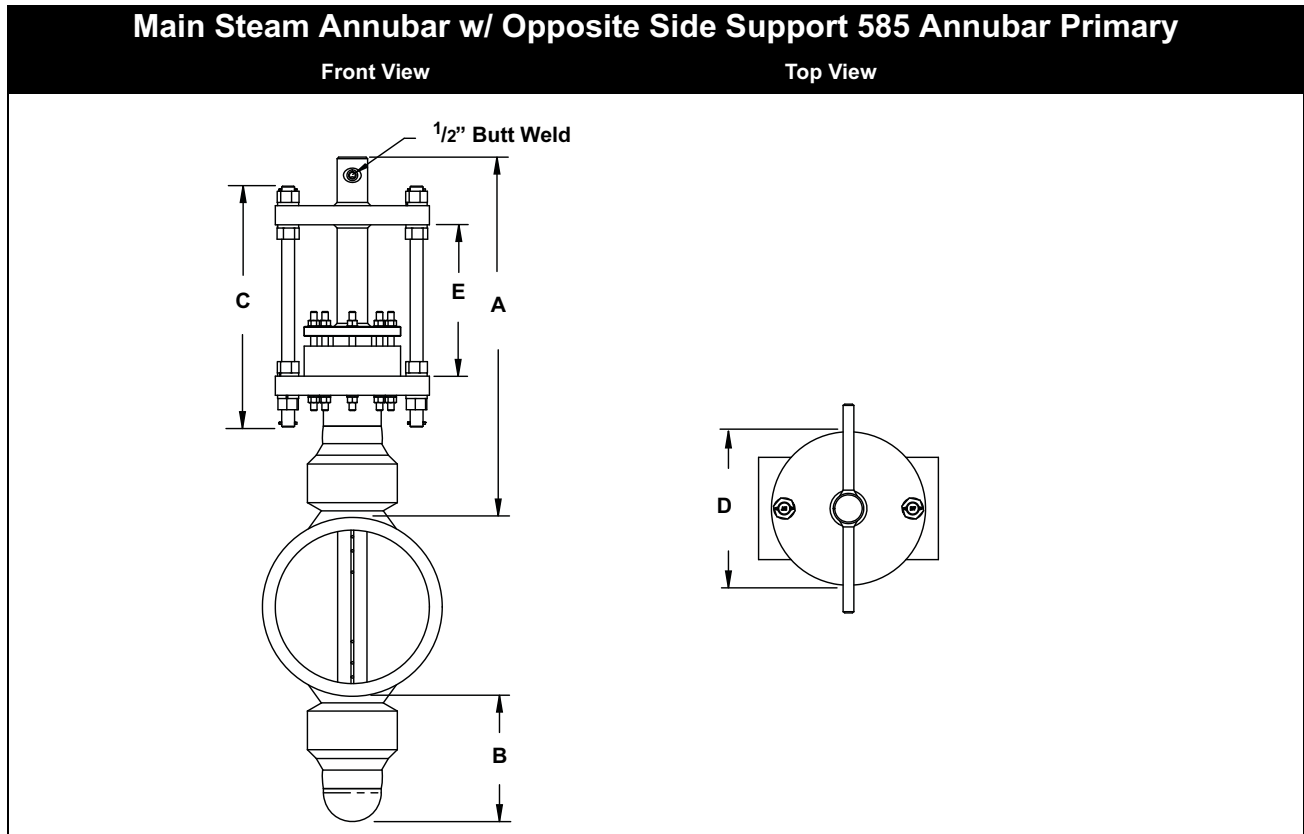


TABLE 8. Main Steam Annubar w/ Opposite Side Support Dimensional Data

Sensor Size	A (Max)	B	C	D	E
44	29.6 (752)	10.0 (254)	19.0 (483)	12.0 (305)	11.0 (279)

*Dimensions are in inches (millimeters)*

**NOTE**

Locking rods are always located 90° from the instrument connections. For horizontal installations, the instrument connections will be parallel to the pipe. For vertical installations, the instrument connections will be perpendicular to the pipe.

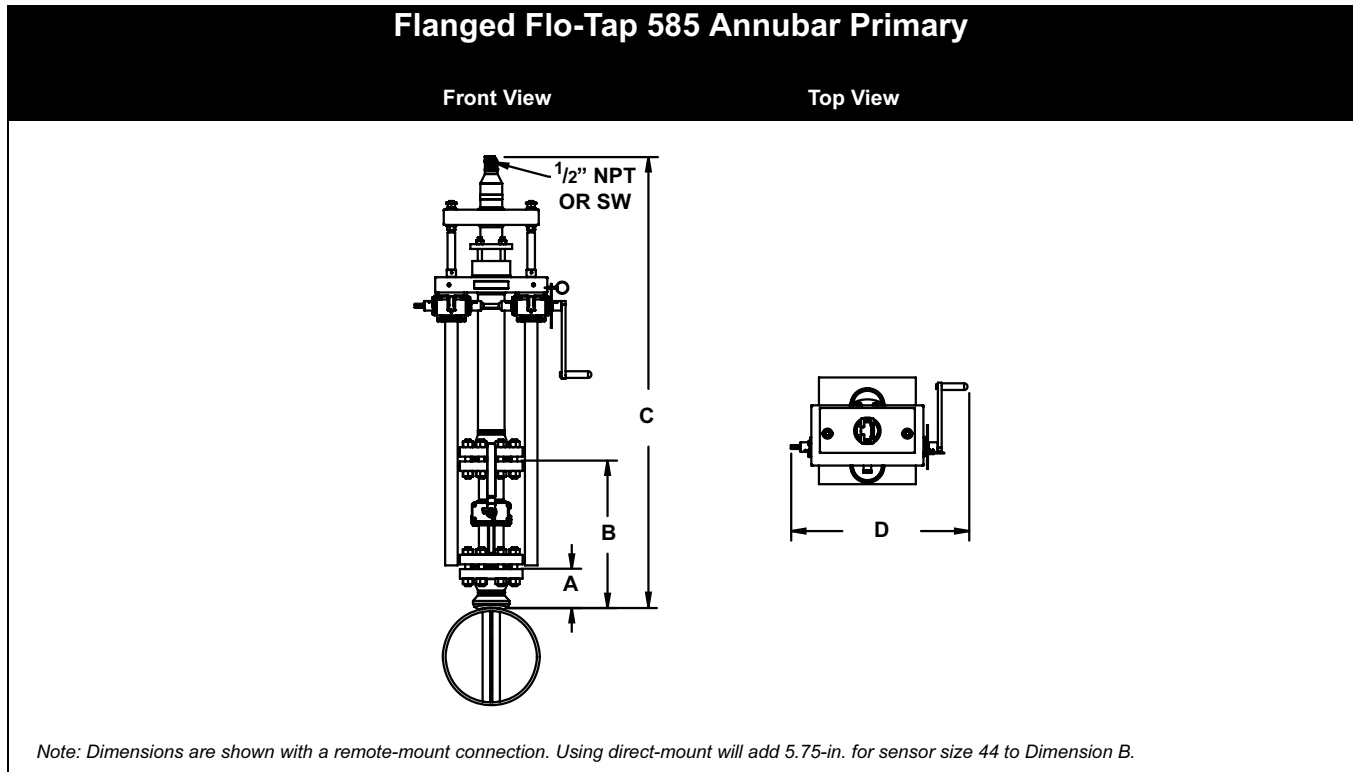


TABLE 9. Flanged Flo-Tap 585 Annubar Primary Dimensional Data

Sensor Size	Flange Size and Rating	A ± 0.125 (3.2)	B ± 0.25 (6.4)	C <sup>1</sup> (Max) (Gear Drive)	D (Max)
44	3 – 150#	4.63 (117,6)	12.75 (323,9)	26.5 (673,1)	23.3 (591,8)
44	3 – 300#	5.00 (127,0)	16.25 (412,8)	26.5 (673,1)	23.3 (591,8)
44	3 – 600#	5.38 (136,7)	19.50 (495,4)	26.5 (673,1)	23.3 (591,8)

**Use the appropriate formula to determine C value:**

*Inserted formula:* Pipe I.D. + Wall Thickness + Value B + C<sup>1</sup> (use the Gear drive values for C<sup>1</sup>)

*Retracted formula:* [2 x (Pipe I.D. + Wall Thickness + Value B)] + C<sup>1</sup> (use the Gear drive values for C<sup>1</sup>)

*Dimensions are in inches (millimeters)*

# 585 Annubar Primary Element

## ORDERING INFORMATION

### Rosemount 585 Annubar Ordering Information

Model	DP Flow Primary Type		
585	Severe Service Annubar Primary Element		
Code	Application Type		
M <sup>(1)</sup>	Main Steam Line Annubar		
S <sup>(2)(3)</sup>	Severe Service Annubar		
Code	Fluid Type		
L	Liquid		
G	Gas		
S	Steam		
Code	Annubar Type		
F	Flanged with Opposite Side Support		
L	Main Steam Annubar with Opposite Side Support		
G	Gear-Drive Flo-Tap		
Code	Line Size	Code	Line Size
040	4-in. (100 mm)	240	24-in. (600 mm)
050	5-in. (125 mm)	300	30-in. (750 mm)
060	6-in. (150 mm)	360	36-in. (900 mm)
080	8-in. (200 mm)	420	42-in. (1066 mm)
100	10-in. (250 mm)	480	48-in. (1210 mm)
120	12-in. (300 mm)	600	60-in. (1520 mm)
140	14-in. (350 mm)	720	72-in. (1820 mm)
160	16-in. (400 mm)	840	84-in. (2100 mm)
180	18-in. (450 mm)	960	96-in. (2400 mm)
200	20-in. (500 mm)		
Code	Mounting Assembly Material		
C	Carbon Steel (A105)		
L	Carbon Steel (A350 LF2)		
S	316/316L Stainless Steel		
G	Chrome-Moly Grade F-11		
N	Chrome-Moly Grade F-22		
J	Chrome-Moly Grade F-91		
0 <sup>(4)</sup>	No Mounting (Customer Supplied)		
Code	Piping Orientation		
H	Horizontal Piping		
D	Vertical Piping with Downwards Flow		
U	Vertical Piping with Upwards Flow		
Code	Sensor Material		
S	316/316L Stainless Steel		
H	Alloy C-276		
W <sup>(1)</sup>	Alloy 800H		
K <sup>(5)</sup>	PVDF (KYNAR)		

## Product Data Sheet

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# 585 Annubar Primary Element

### Rosemount 585 Annubar Ordering Information

Code	Sensor Size
11	Sensor size 11
22 <sup>(6)</sup>	Sensor size 22
44 <sup>(1)(3)</sup>	Sensor size 44
Code	Mounting Type
A	ANSI B16.5 Raised Face Flanges
R <sup>(7)</sup>	ANSI B16.5 Ring Type Joint Flanges
D <sup>(8)</sup>	DIN Raised Face Flanges
0 <sup>(1)</sup>	Main Steam Packing Gland
Code	Mounting Pressure Class
1	ANSI 150 / DIN PN16
3 <sup>(6)</sup>	ANSI 300 / DIN PN40
6 <sup>(6)</sup>	ANSI 600 / DIN PN100
N <sup>(5)(6)</sup>	ANSI 900
F <sup>(5)(6)</sup>	ANSI 1500
T <sup>(5)(6)</sup>	ANSI 2500
0 <sup>(1)</sup>	Main Steam Packing Gland
Code	Opposite Side Support
C	NPT Threaded Opposite Support Assembly
D <sup>(1)</sup>	Welded Opposite Support Assembly
E	Flanged Opposite Support Assembly
0 <sup>(3)</sup>	No Opposite Side Support Required
Code	Packing Gland/ Packing
L <sup>(3)</sup>	SS Packing Gland / Graphite Packing
T <sup>(1)</sup>	Main Steam Packing Gland / Graphite Packing
0 <sup>(2)</sup>	Not Applicable
Code	Insertion Mechanism
C	Alloy Steel Insertion Rods / Nuts
S	Stainless Steel Insertion Rods / Nuts
0 <sup>(1)(2)</sup>	Not Applicable
Code	Isolation Valve
0 <sup>(1)(2)</sup>	Not Applicable or Customer Supplied
1	Gate Valve, Carbon Steel
2	Gate Valve, Stainless Steel
5	Ball Valve, Carbon Steel
6	Ball Valve, Stainless Steel
Code	Temperature Measurement
0 <sup>(4)(6)</sup>	No Temperature Sensor Required
R	Remote RTD (1/2-in. NPT Aluminum Housing) with Thermowell
S	Remote RTD (1/2-in. NPT Stainless Housing) with Thermowell
Code	Transmitter Connection Platform
3 <sup>(6)(9)</sup>	Direct-Mount, 3-Valve Manifold
4 <sup>(6)(9)</sup>	Direct-Mount, Dual 3-Valve Manifolds
6 <sup>(6)(9)</sup>	High Temperature Direct-Mount 5-Valve Manifold
7	Remote-Mount 1/2-in. Threaded Connections
8 <sup>(1)</sup>	Remote-Mount 1/2-in. Welded Connections
Code	Mounting Flange Bolting materials
A	193 Gr B7 Studs w/ A194 Gr 2H Nuts
0	No Flange Studs/Nuts Supplied

# 585 Annubar Primary Element

## Rosemount 585 Annubar Ordering Information

Code	Mounting Flange Gasket Materials
1	Spiral Wound, 304SS, Flexible-Graphite Filler
2	Ring-Joint, ANSI B16.20, Hexagonal, 316L
3	Spiral Wound, B16.20, 316SS, PTFE Filler
0	No Flange Gasket Supplied
Code	Options
<b>Optional Mounting for Rectangular Ducts</b>	
RD	Annubar Mounting for rectangular ducts
<b>Pressure Testing</b>	
P1 <sup>(10)</sup>	Hydrostatic Testing
PX <sup>(10)</sup>	Extended Hydrostatic Testing
<b>Special Cleaning</b>	
PA <sup>(5)</sup> (11)	Cleaning per ASTM G93 Level D
<b>Material Testing</b>	
V1	Dye Penetrant Weld Exam
<b>Material Examination</b>	
V2	Radiographic Weld Examination
<b>Flow Calibration</b>	
W1	Flow Calibration (Average K)
<b>Special Inspection</b>	
QC1	Visual & Dimensional Inspection w/ Cert.
QC7	Inspection & Performance Certificate
<b>Material Traceability Certification</b>	
Q8 <sup>(12)</sup>	Material Cert. per ISO 10474 3.1 and EN 10204 3.1
<b>Positive Material Testing</b>	
V4 <sup>(12)</sup>	Positive Material Identification
<b>Code Conformance</b>	
J2	ANSI/ASME B31.1
J3	ANSI/ASME B31.3
<b>Materials Conformance</b>	
J5 <sup>(13)</sup>	NACE MR-0175 / ISO 15156
<b>Country Certification</b>	
J1	Canadian Registration Certificate
J6	European Pressure Directive (PED)
<b>Instrument Valves for Remote Mount Option</b>	
G1	1/2-in. Needle Valves, CS
G2	1/2-in. Needle Valves, SS
G3	1/2-in. Needle Valves, Alloy C-276
G5	1/2-in. OS&Y Gate Valve, CS
G6	1/2-in. OS&Y Gate Valve, SS
<b>Instrument Valve Options</b>	
DV <sup>(14)</sup>	Double Instrument Valves (4 valves total)
<b>Special Shipment</b>	
Y1	Mounting Hardware Shipped Separately
<b>Assemble Mounting Hardware</b>	
WP <sup>(15)</sup>	Assemble Weldolet to Packing body
<b>Special Dimensions</b>	
VM	Variable Mounting

# Product Data Sheet

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January 2009

# 585 Annubar Primary Element

## Rosemount 585 Annubar Ordering Information

### 585 Packing Gland Plug

TP<sup>(15)</sup> Packing Gland Plug for Steam Blow Down

### 585 Installation Alignment Bar

A1<sup>(15)</sup> Installation Alignment Bar

**Typical Model Number: 585 M S L 120 J H W 44 0 0 0 T 0 0 8 0 0**

- (1) Required for Annubar Type L.
- (2) Required for Annubar Type F.
- (3) Required for Annubar Type G.
- (4) Not available with Annubar Type L.
- (5) Not available with Annubar Type G.
- (6) Not available with Sensor Material K.
- (7) Mounting Flange Gasket Material option code 2 must be selected.
- (8) Mounting Flange Bolting and Gasket option code 0 must be selected.
- (9) Not available with Mounting Pressure Class N, T, or F.
- (10) Applies to flow element only, mounting not tested.
- (11) If selected with Annubar Type F, Mounting Flange Gasket Material option code 3 must be selected.
- (12) For pressure retaining parts only, isolation and instrument valves are not included.
- (13) Materials of Construction comply with metallurgical requirements within 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.
- (14) Only available if Instrument Valves for Remote Mount Option are selected.
- (15) Only available with Annubar Type L.

# 585 Annubar Primary Element

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**Product Data Sheet**  
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**Emerson Process Management  
Rosemount Measurement**  
8200 Market Boulevard  
Chanhassen MN 55317 USA  
Tel (USA) 1 800 999 9307  
Tel (International) +1 952 906 8888  
Fax +1 952 949 7001

**Emerson Process Management**  
Blegistrasse 23  
P.O. Box 1046  
CH 6341 Baar  
Switzerland  
Tel +41 (0) 41 768 6111  
Fax +41 (0) 41 768 6300

**Emerson FZE**  
P.O. Box 17033  
Jebel Ali Free Zone  
Dubai UAE  
Tel +971 4 811 8100  
Fax +971 4 886 5465

**Emerson Process Management Asia Pacific  
Pte Ltd**  
1 Pandan Crescent  
Singapore 128461  
Tel +65 6777 8211  
Fax +65 6777 0947  
Service Support Hotline : +65 6770 8711  
Email : [Enquiries@AP.EmersonProcess.com](mailto:Enquiries@AP.EmersonProcess.com)



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