MODEL ExactSteam™ V-Cone®

Latin America

DESCRIPTION

The ExactSteam V-Cone System's innovative design delivers repeatable accuracy of +0.5% of rate with up to a 50:1 flow range under the most difficult flow conditions. The ExactSteam V-Cone System acts as its own flow conditioner, fully conditioning and mixing the flow prior to measurement. Readings are always precise and reliable, even under changing flow situations.

With this unique ability to self-condition flow, the ExactSteam V-Cone System virtually eliminates the need for upstream or downstream straight pipe runs. Thus, the ExactSteam V-Cone System can be installed virtually anywhere in a piping system or easily retrofit into an existing piping layout, resulting in significant installation flexibility and cost savings. In addition, the ExactSteam V-Cone System has proven to provide long-term performance with no moving parts to replace or maintain.

SPECIFICATIONS

Accuracy:	\pm 0.5% for primary element \pm 1% for total system
Repeatability:	±0.1% or better
Turn Down:	Up to 50:1 with stacked configuratio or 10:1 with compact
Installation Piping Requirements:	0-3 diameters upstream, 0-1 diameters downstream
Materials of Construction:	Stainless Steel or Carbon Steel
Line Sizes:	2" to 24"
End Fittings:	Beveled or Raised Face 150# or 300# Flanges
RTD:	• Sensor Type: PT-100, thin film • Range: -58° to 752° F (-50° to 400° C
Manifold:	Configuration: 3-Valve
dP Transmitter:	 Housing Material: F30 Aluminum Membrane Material: 316L Enclosure Rating: NEMA 4X/6P, IP66/67 Electrical Connections: NPT1/2 thread
Flow Computer:	Output: 4-20 mA, Isolated Pulse

Contact vconerfg@mccrometer.com for other sizes or

configuration options.

KEY FEATURES

- A complete flowmeter for steam metering, factory configured for energy metering or mass flow
- Accurately measure steam across the entire range with technology-leading low flow cut off
- Makes retrofitting and new installations easier with minimum installation requirements – no flow conditioner required!
- V-Cone technology enables the lowest permanent pressure loss to maximize plant efficiency
- Reduce maintenance costs with the V-Cone flowmeter primary element's 25+ year lifespan

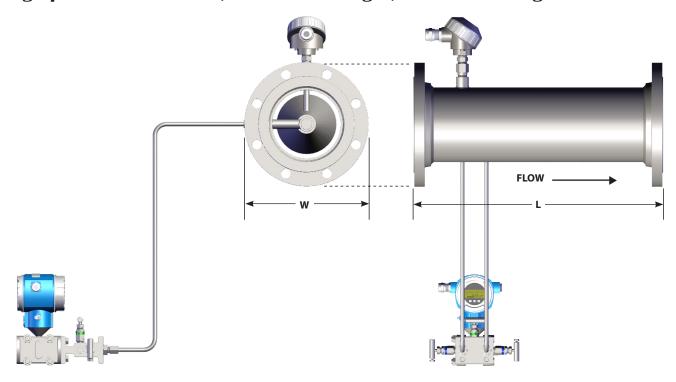




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Fitting Options: Beveled Ends, ANSI 150# Flanges, ANSI 300# Flanges



McCrometer reserves the right to change design specifications without notice.

Size (in)	2	3	4	6	8	10	12	14	16	18	20	24
						Bevo	eled Flange	es				
Approx. Weight - lbs. (meter only)	12	18	25	50	110	120	157	208	243	207	258	411
W (width - inches)	2.375	3.5	4.5	6.625	8.625	10.75	12.75	14	16	18	20	24
L (length - inches)	11.63	13.5	15.5	21.5	25.25	27.25	29.25	29	29	31	35	47
						ANSI	150# Flang	jes				
Approx. Weight - lbs. (meter only)	20	35	50	110	160	259	336	388	455	493	620	890
W (width - inches)	6	7.5	9	11	13.5	16	19	21	23.5	25	27.5	32
L (length - inches)	12	14	16	22	26	28	30	30	30	32	36	48
No. of Bolts per Flange	4	4	8	8	8	12	12	12	16	16	20	20
						ANSI	300# Flang	jes				
Approx. Weight - lbs. (meter only)	25	42	70	125	220	330	456	486	603	739	920	1430
W (width - inches)	6.5	8.25	10	12.5	15	17.5	20.5	23	25.5	28	30.5	36
L (length - inches)	12	14	16	22	26	28	30	30	30	32	36	48
No. of Bolts per Flange	8	8	8	12	12	16	16	20	20	24	24	24

Beveled: Overall length (A) tolerance varies with line size:

½" to 1", ±0.01" (±0.3mm) 1½" to 4", ±0.06" (±2mm) 6" to 10", ±0.12" (±4mm) 12" to 24", ±0.19" (±6mm) 28" to 60", ±0.25" (±7mm).

150#/300#: Overall length (A) tolerance varies with line size: ½" to 1", ±1/16" (±2mm)

1½" to 10", ±1/10" (±211111) 1½" to 10", ±1/8" (±4mm) 12" to 24", ±3/16" (±6mm)

ORDERING INFORMATION:

- 1. Select Nominal Pipe Size and include Maximum Flow Rate.
- 2. Specify units of measurement for both the flow rate indicator and totalizer.
- 3. For vertical installation, specify upflow or downflow.

Meter will be 10:1 flow range standard (i.e. 400 to 40 GPM)

NOTE: Larger meter sizes, special laying lengths, other flow ranges available by special order.





ExactSteam[™] V-Cone[®]

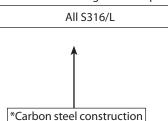
Latin America

Primary Element

Steam
Designation
EVS

24

	Materials				
Code	Description				
F	Carbon Steel Body, 316/L Cone, A105 Carbon Steel Flange and Coupling				
Α	All S316/L				



not recommended for line

sizes less than 6".

Schedule				
Code Description				
D	STD			
Е	S40			
F	S80			

Flar	Flange & Class				
Code	Description				
01	Beveled				
03	ANSI 150# Slip-on				
04	ANSI 300# Slip-on				

Process Connection				
Code	Description			
N	Traditional Mount (1/2"NPT 3000#)			
W	Universal Mount for Vertical Flow			

Notes:

- RTD orientation is viewed from upstream.
- Standard RTD location (90° clockwise from HP tap viewed upstream)
- · Steam package includes 3-valve traditional manifold.

Electronics

	Make				
	Code	Description			
	Е	Endress + Hauser DP Transmitter			
	S	Stacked Endress + Hauser DP Transmitters			
	R	Rosemount DP Transmitter			
	Т	Stacked Rosemount DP Transmitters			
	М	Rosemount MV Transmitter			
	N	No Transmitter			

DP Range*			
Code	Description		
1	Standard DP Range		
2	Low DP Range		
3	High DP Range		
0	None		
	↑		

* Stacked transmitters
recommended for
Turndowns greater
than 10:1. Not
available with MV
transmitter.

	LCD Display					
n	Code	Description				
	N	No LCD	C			
	Υ	LCD				

	Communication				
١	Protocol				
	Code	Description			
_	1	HART			
	0	None			

1 - 200"WC

2 - 40"WC

3 - 1200"WC

1 - 250"WC 2 - 25"WC 3 - 1000"WC

* Manufacturer - DP Range

Endress+Hauser

Rosemount

Communication Protocol		Output*		Flow Computer*	
		Code	Description	Code	Description
Code	Description		Mass		Panel
1	HART	A	Flow Rate	1	Mount
0	None	В	Energy	2	NEMA 4X
-		N	None	0	No Flow
			<u> </u>		Computer

Mount NEMA 4X No Flow Computer

* Standard output Mass - lbs / hr Energy - BTU / hr

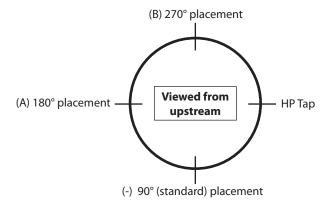
* Flow computer not available with multivariable transmitter.

Options



Accreditation Options			
Code	Description		
Р	PP		

RT	RTD Positioning Options				
Code	Description				
-	90° (6 oʻclock)				
Α	180° (9 oʻclock)				
В	270° (12 oʻclock)				
С	No RTD or thermowell				





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