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## 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
<b>Repeatability:</b>	±0.1% or better
Turn Down:	Up to 50:1 with stacked configuration 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:	<ul> <li>Housing Material: F30 Aluminum</li> <li>Membrane Material: 316L</li> <li>Enclosure Rating: NEMA 4X/6P, IP66/67</li> <li>Electrical Connections: NPT1/2 thread</li> </ul>
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



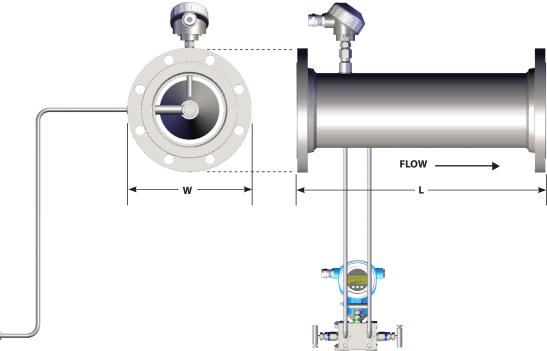


#### 3255 WEST STETSON AVENUE • HEMET, CALIFORNIA 92545 USA

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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	4	6	8	10	12	14	16	18	20	24
	Beveled Flanges										
Approx. Weight - Ibs. (meter only)	12	25	50	110	120	157	208	243	207	258	411
W (width - inches)	2.375	4.5	6.625	8.625	10.75	12.75	14	16	18	20	24
L (length - inches)	11.63	15.5	21.5	25.25	27.25	29.25	29	29	31	35	47
	ANSI 150# Flanges										
Approx. Weight - lbs. (meter only)	20	50	110	160	259	336	388	455	493	620	890
W (width - inches)	6	9	11	13.5	16	19	21	23.5	25	27.5	32
L (length - inches)	12	16	22	26	28	30	30	30	32	36	48
No. of Bolts per Flange	4	8	8	8	12	12	12	16	16	20	20
					A	NSI 300# F	langes				
Approx. Weight - Ibs. (meter only)	25	70	125	220	330	456	486	603	739	920	1430
W (width - inches)	6.5	10	12.5	15	17.5	20.5	23	25.5	28	30.5	36
L (length - inches)	12	16	22	26	28	30	30	30	32	36	48
No. of Bolts per Flange	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", ±1/8" (±4mm); 12" to 24", ±3/16" (±6mm).

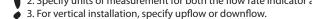
Meter will be 10:1 flow range standard (i.e. 400 to 40 GPM)

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

#### 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.





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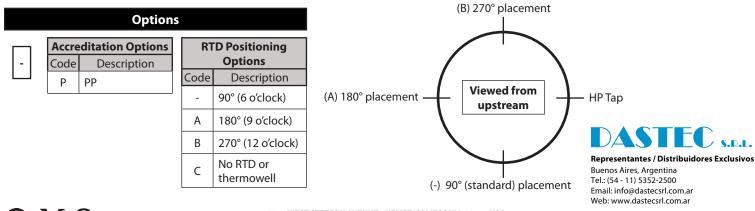
# SPECIFICATION SHEET

### **Latin America**

Primary Element												
Steam	Line		Materials	S	chedule		Fla	nge & Class	Process Connection			
Designation	Size	Code	Description	Code	Description	n	Code	de Description		Description		
EVS	02*	F	Carbon Steel Body, 316/L Cone, A105	D	STD	STD		Beveled	N	Traditional Mount		
	04*		Carbon Steel Flange and Coupling	E	S40		13	ANSI 150#		(1/2"NPT 3000#)		
	06	Α	All S316/L	F	F \$80		14	ANSI 300#	w	Universal Mount for Vertical Flow		
	08				l					VEITICALFIOW		
	10		Ť			Notes:						
	12				No							
	14				• 1	• RTE		D orientation is viewed from upstream.				
	16		*Carbon steel construction			<ul> <li>Standard RTD location (90° clockwise from HP tap viewed upstream)</li> <li>Steam package includes 3-valve traditional manifold.</li> </ul>						
	18		not recommended for line sizes less than 6".									
	20				• :							
	24											

Electronics

$\square$	Make			DP Range*			LCD Display		Communication		Dutput*	Flow Computer*						
	Code	Description	C		Description	Code	ode Description		Protocol		Description	Code	Description					
	E	Endress + Hauser DP Transmitter		1	Standard DP Range	N	No LCD	Code 1	Description HART	A	Mass Flow Rate	1	Panel Mount					
	S	Stacked Endress + Hauser DP Transmitters	2		Low DP Range	Y	LCD	0	None	В	Energy	2	NEMA 4X					
	R	Rosemount DP Transmitter		3	High DP Range					N	None	0	No Flow Computer					
	т	Stacked Rosemount DP Transmitters		0	None	_							1					
	м	Rosemount MV Transmitter			* Manufactu Indress+Hause		DP Range - 200″WC	* Standard outp Mass - Ibs / hr		computer not								
	N	No Transmitter	* Stacked transmitters recommended for Turndowns greater				recommended for			5		2	- 40″WC	Ene	rgy - BTU / hr	mı	available with nultivariable	
				than 10:1. Not				3	- 1200″WC			tra	nsmitter.					
				vailable with MV		F	Rosemount	1	- 250″WC									
			transmitter.					2	- 25″WC									
								3	- 1000″WC									



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