

# 



### **SPECIFICATION SHEET**

### **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 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 12" / 50 mm to 300 mm
End Fittings:	Beveled or DIN PN16 or DIN PN40 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

### **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





## Fuji Electric France S.A.S.

46 rue Georges Besse - ZI du brézet 63039 Clermont ferrand Tél : 04 73 98 26 98 Fax : 04 73 98 26 99 Mail : sales.dpt@fujielectric.fr web : www.fujielectric.fr

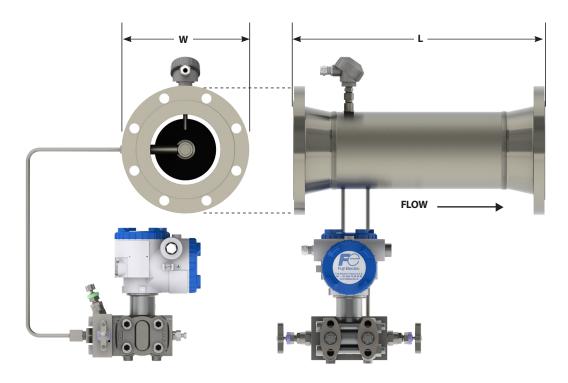




# **ExactSteam<sup>™</sup> V-Cone<sup>®</sup>**

### **SPECIFICATION SHEET**

## Fitting Options: Beveled Ends, DIN PN 16 Flanges, DIN PN40 Flanges



Fuji Electric France reserves the right to change design speci ications without notice.

Size (in / mm)	2/50	4 / 100	6 / 150	9 / 200	10 / 250	12 / 300
Size (in / mm)	2/50	4/100	6 / 150	8 / 200	10 / 230	12/300
			Beveled	Flanges		
Approx. Weight - lbs / kg (meter only)	12 / 5.4	25 / 11.3	50 / 22.7	110 / 49.9	120 / 54.4	157 / 71.2
W (width - in / mm)	2.375 / 60.3	4.5 / 114.3	6.625 / 168.3	8.625 / 219.1	10.75 / 273.1	12.75 / 323.9
L (length - in / mm)	11.63 / 295.4	15.5 / 393.7	21.5 / 546.1	25.25 / 641.4	27.25 / 692.2	29.25 / 743.0
			DIN I	PN16		
Approx. Weight - lbs / kg (meter only)	20 / 9.1	50 / 22.7	110 / 49.9	160 / 72.6	259 / 117.5	336 / 152.4
W (width - in / mm)	6 / 152.4	9 / 228.6	11 / 279.4	13.5 / 342.9	16 / 406.4	19 / 482.6
L (length - in / mm)	12 / 304.8	16 / 406.4	22 / 558.8	26 / 660.4	28 / 711.2	30 / 762.0
No. of Bolts per Flange	4	8	8	8	12	12
			DIN	PN40		
Approx. Weight - lbs / kg (meter only)	25 / 11.3	70 / 31.8	125 / 56.7	220 / 99.8	330 / 149.7	456 / 206.8
W (width - in / mm)	6.5 / 165.1	10 / 254.0	12.5 / 317.5	15 / 381.0	17.5 / 444.5	20.5 / 520.7
L (length - in / mm)	12 / 304.8	16 / 406.4	22 / 558.8	26 / 660.4	28 / 711.2	30 / 762.0
No. of Bolts per Flange	8	8	12	12	16	16

**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)

**DIN Flanges:** Overall length (L) tolerance varies with line size:

½" to 1", ±1/16" (±2mm) 1½" to 10", ±1/8" (±4mm) 12", ±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.

Any published technical data and instructions are subject to change without notice.



# Fuji Electric

# **ExactSteam<sup>™</sup> V-Cone<sup>®</sup>**

### SPECIFICATION SHEET

### **Primary Element**

Steam	Li	ne Size		N	Materials	
Designation	Code	Description	Code		Description	
EVS	Code	(in / mm)	Α		All S316/L	
	02*	2/50			A333 Gr. 6 Low Temp	1
	04*	4/100		Body:	Carbon Steel	
	06	6 / 150		Cone:	S316/L	
	08	8 / 200	G		A350LF2 CL1 LowTemp	
	10	10 / 250		Coupling:	Carbon Steel	
	12	12 / 300		Flange:	P250GH	
		<b>^</b>			1	
	*Carbon steel cons			n not recon	nmended for line sizes	
	less th	an 6". All line	sizes a	re schedule	e standard.	

S	chedule		Class	
Code	Description	Code	Description	(
D	Standard	21	Beveled	
		23	DIN PN16 Weld Neck	
		24	DIN PN40 Weld Neck	L

<b>Process Connection</b>		
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
	F		Fuji Electric DP Transmitter
N		N	No Transmitter

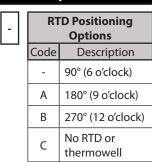
DP Range		
Code	Description	
1	Standard DP Range	
2	Low DP Range	
3	High DP Range	
4	Very High DP range	
0	None	

	LC	CD Display Communication			Ì
	Code	Description	F	rotocol	Į
	N	No LCD	Code	Description	J
		1.60	1	HART	
	Y	LCD	0	None	1
			0	None	
	_				
$\dashv$		Manufacturer	- DP R	ange	

C	Output*	Flow	Computer*
Code	Description	Code	Description
V	Mass Flow Rate	1	Panel Mount
N	None	2	NEMA 4X
	1	0	No Flow Computer
* Sta	ndard output		

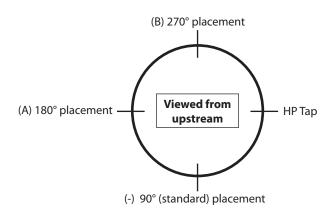
Manufacturer - DP Range		
Fuji Electric	1 - 0 to 10 mbar	
	2 - 0 to 60 mbar	
	3 - 0 to 320 mbar	
	4 - 0 to 1300 mbar	
	0 - None	

### **Options**



## Required





Any published technical data and instructions are subject to change without notice.



## Fuji Electric France S.A.S.

46 rue Georges Besse - ZI du brézet 63039 Clermont ferrand Tél: 04 73 98 26 98 Fax: 04 73 98 26 99

Mail: sales.dpt@fujielectric.fr web: www.fujielectric.fr