

MODEL EVI-PED

Weld Neck Flanges - DIN 2633 (PN16), DIN 2634 (PN25), and DIN 2635 (PN40)

DESCRIPTION AND GENERAL PERFORMANCE SPECIFICATIONS

The V-Cone® flowmeter is a patented, differential pressure type flow measurement device. A cone is positioned in the center of the pipe to increase the velocity of the flowing fluid and create a differential pressure. This pressure difference can be measured and used to accurately interpret flowrate. Two taps are provided on every V-Cone to allow sensing of the high and low pressures. All EVI-PED V-Cones comply with PED 97/23/EC Cat I, II or III, depending on design conditions. A typical V-Cone application can follow these general performance specifications:

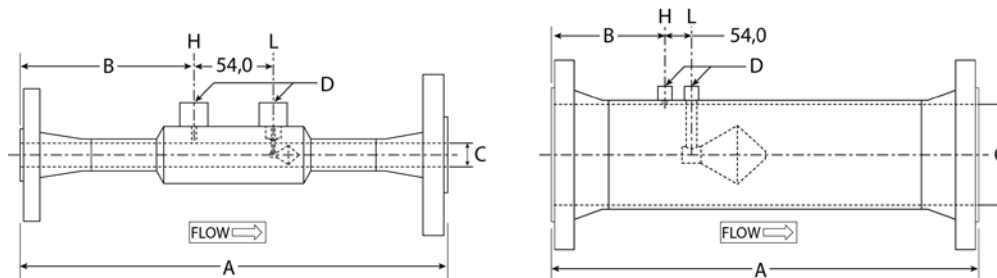
- Accuracy: up to $\pm 0.5\%$ of rate
- Repeatability: $\pm 0.1\%$
- Turndown: 10:1
- Standard Betas: 0.45 through 0.85
- Headloss: Percentage of differential pressure produced varies with beta ratio.
- Installation: Typically 0-3 diameters upstream and 0-1 diameters downstream.



The V-Cone is manufactured under a quality management system that is certified to ISO 9001:2008.

* Each V-Cone is sized for the intended application. Specific performance ratings must be obtained through the sizing process.

MODEL EVI-PED DIMENSIONS



DIMENSION TABLE

Size		DIN 2633 (PN16)		DIN 2634 (PN25)		DIN 2635 (PN40)		ID	
		A (Note 1)	B	A	B	A (Note 1)	B	C (Note 2)	D (Note 2)
DN	inch	mm	mm	mm	mm	mm	mm	mm	NPT
15	1/2	263,7	104,9	269,7	107,9	269,7	107,9	15,8	1/4
20	3/4	269,7	107,9	273,6	109,9	273,6	109,9	20,9	1/4
25	1	269,7	107,9	273,6	109,9	273,6	109,9	26,6	1/4
40	1 1/2	325,4	112,0	331,2	115,1	331,2	115,1	41,8	1/4
50	2	379,0	126,0	385,1	128,8	385,1	128,8	53,4	1/2
65	2 1/2	375,7	124,5	389,6	131,3	389,6	131,3	63,6	1/2
80	3	436,6	129,3	452,6	137,4	452,6	137,4	78,8	1/2
100	4	491,2	144,0	517,4	157,0	517,4	157,0	103,9	1/2
150	6	649,7	153,4	689,9	173,5	689,9	173,5	154,1	1/2
200	8	759,0	176,5	795,3	195,3	811,0	202,4	202,7	1/2
250	10	825,8	184,4	860,4	201,6	895,9	219,5	254,5	1/2
300	12	892,6	198,9	919,2	211,2	966,7	235,7	304,8	1/2
350	14	894,3	218,4	930,3	235,0	980,2	261,6	336,6	1/2
400	16	900,2	221,5	949,4	246,1	1000,3	271,5	Note 4	1/2
500	20	1062,7	226,6	1130,3	260,4	1162,6	276,6	Note 4	1/2
600	24	1377,4	333,2	1438,3	363,6			Note 4	1/2

1. Overall length (A) tolerance varies with line size: 15 to 25mm, ± 2 mm; 40 to 250mm, ± 4 mm; 300 to 600mm, ± 6 mm.
2. Typical values shown for meter ID. Meter ID is tapered to standard DIN flange ID.
3. Wall pressure ports are required for vertical up flow applications.
4. Varies with flange class



CONFIGURATION SHEET

MODEL NUMBER CONFIGURATION EVI-PED

Type	Size		Materials‡		Pipe Schedule		End Connections		Fittings	
EVI										-PED
	0A	15	Q	S304/L	D	Std	24	PN16 RF WN	N	NPT
	0B	20	A	S316/L	E	40	25	PN40 RF WN	S	Socket
	01	25	F	P250GH Flanges	F	80	55	PN25 RF WN	Several types of fittings available.	
	0C	40		LTCS Pipe	J	100				
	02	50		S316/L Cone	K	120				
	0D	65			G	160				
	03	80			H	XXS				
	04	100			P	XS				
	06	150						‡Other materials can include:		
	08	200						HASTELLOY C-276		
	10	250						S321H		
	12	300						DUPLEX 2205		
	14	350						INCONEL 625		
	16	400						CHROMEMOLY P22/P11		
	20	500						MONEL K400/K500		
	24	600						CARBON STEELS A350, A333, API5L, A106B		

Example: EVI06QE24N-PED is a V-Cone 150mm line size, S304, schedule 40 pipe, PN16 RF WN flanges, and 1/2" NPT fittings.

STANDARD PIPE SCHEDULES

Stainless Steel		Carbon Steel	
Size (mm)	Std.	Size (mm)	Std.
15 to 250	E	150 to 400	E
300 and up	D	500 and up	D

Meters 6" and smaller utilize seamless pipe.
Meters 8" and larger utilize welded pipe.

ABBREVIATIONS

ASME	American Society of Mechanical Engineers		
NPT	National pipe taper		
SS	Stainless steel	RF	Raised Face
CS	Carbon steel	WN	Weld Neck

Technical questions can be answered through a local representative or through our application engineers.

MANUFACTURING STANDARDS

McCrometer's welders and welding procedures are qualified in accordance with EN 15614. All meters are visually inspected for weld defects. Specific customer requirements can be complied with upon request.

All meters are compliant with PED 97/23/EC Cat I, II, or III with "-PED" suffix.

Non-destructive testing can include:

- Hydrostatic Pressure Testing
- Penetrant Examination
- Radiographic Examination
- Positive Material Inspection
- Magnetic Particle Examination

REPRESENTED BY:



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