The V-Cone is manufactured under



DIN Slip-on, Flat Face Flanges 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. A typical V-Cone application can follow these general performance specifications:

up to $\pm 0.5\%$ of rate Accuracy:

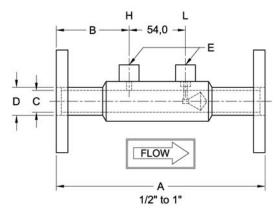
Repeatability: $\pm 0.1\%$ Turndown: 10:1

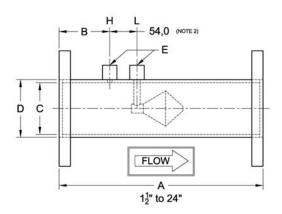
Standard Betas: 0.45 through 0.85

Headloss: Percentage of differential pressure produced varies with beta ratio.

a quality management system that is certified to ISO 9001:2008. Typically 0-3 diameters upstream and 0-1 diameters downstream. Installation: * Each V-Cone is sized for the intended application. Specific performance ratings must be obtained through the sizing process.

MODEL VC DIMENSIONS





DIMENSION TABLE

Size	Α	В	C-Stainless	C-Carbon	D	E
	(Note 1)		(Note 2) (Note 2)			(Note 2)
inch	mm	mm	m mm mm mm		mm	NPT
1/2	203	75	15,8	-	21,3	1/4
3/4	203	75	20,9	-	26,7	1/4
1	203	75	26,64	-	33,4	1/4
1½	254	76	41,78	-	48,3	1/4
2	305	89	53,44	-	60,3	1/2
21/2	305	89	63,60	-	73,0	1/2
3	356	89	78,84	-	88,9	1/2
4	406	102	103,8	-	114	1/2
6	559	108	154,1	154,1	168	1/2
8	660	127	202,7	202,7	219	1/2
10	711	127	254,5	254,5	273	1/2
12	762	133	304,8	303,3	323	1/2
14	762	152	336,6	333,5	355	1/2
16	762	152	387,4	381,0	406	1/2
18	813	152	438,2	438,2	457	1/2
20	914	152	489,0	489,0	508	1/2
24	1219	254	590,6	590,6	609	1/2

- 1. 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)
- 2. Typical values shown.
- 3. Wall pressure ports are required for vertical up flow applications.



CONFIGURATION SHEET

MODEL NUMBER CONFIGURATION VC

Туре	S	ize	Materials‡		Pipe Schedule		End Connections	Fittings
VC		120	iviateriais‡		Ochedule		End connections	1 ittings
	0A 0B 01 0C 02 0D 03 04 06 08 10 12 14 16 18 20 24	½" ¾" 1" 1½" 2" 2½" 3" 4" 6" 8" 10" 12" 14" 16" 18" 20" 24"	Q L A P N	S304 S304L S316L CPVC S304 Tube, Cone, Support & Couplings CS Steel Flanges Flanges painted CS Tube & Flanges S304 Cone, Support, & Couplings Epoxy Coated Blue (excluding cone) CS Tube & Flanges S304 Cone, Support, & Couplings Coating / Painting Per Customer Req.	A B D E F J K L G H M P	10 20 Std 40 80 100 120 140 160 XXS 10S XS	‡Other materials can in HASTELLOY C-276 DUPLEX 2205 CHROMEMOLY P22/P11 MONEL K400/K500 CARBON STEELS A350, A333, API5L, A106	S321H INCONEL 62: PVC PTFE

Example: VC03AC13N V-Cone 3 inch line size, S316L, Bored to 78,84mm, DIN 2576 PN 10 FF SO, 1/2" NPT fittings

STANDARD PIPE SCHEDULES

OFFICE THE CONTENTS							
Stainless S	teel	Carbon Steel					
Size Std		Size	Std.				
½" to 10"	Е	6" to 16"	Е				
12" and up	D	18" and up	D				

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

ABBREVIATIONS

ĺ	ASME	American Society of Mechanical Engineers				
	NPT	National pipe taper	CS	Carbon steel		
	SS	Stainless steel	FF	Flat Face		
	DIN	European Standard	SO	Slip On		

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 ASME Section IX. All meters are visually inspected for weld defects. Specific customer requirements can be complied with upon request.

The welding can be in accordance with:

- ASME Section VIII
- ASME B31.1
- ASME B31.3

Non-destructive testing can include:

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

REPRESENTED BY:								

