

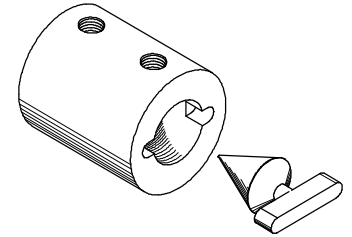
MODEL **VH**

Designed for Flanged Pipelines

Patent 5,814,738

DESCRIPTION AND GENERAL PERFORMANCE SPECIFICATIONS

The Wafer-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 Wafer-Cone to allow sensing of the high and low pressures.



Typical performance specifications:

- Accuracy: ±0.5% of rate \*
- Turndown: 10:1
- Repeatability: ±0.1%
- Standard Betas: 0.45 through 0.85
- Headloss: % of Dp, varies with beta ratio
- Installation: 1-3 diameters upstream and 1 diameter downstream

Unique Features:

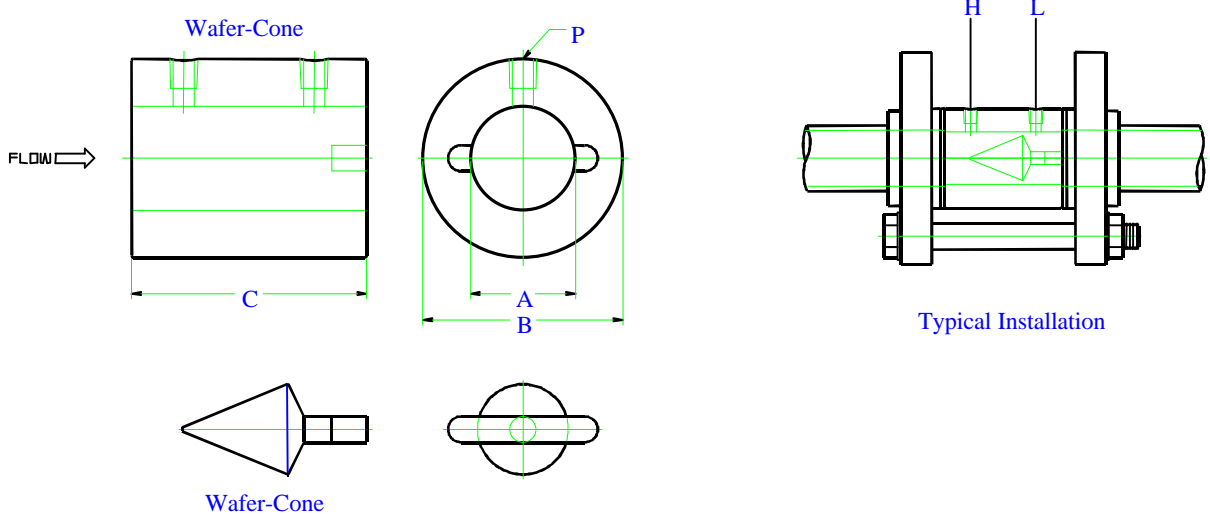
- No Welding (on pressure vessel body)
- Interchangeable Wafer-Cone Elements

Options:

- Gas or Oil Flow Calibration

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

MODEL VH



DIMENSION TABLE

Model	ANSI Class 150-2500 AWWA CL D				DIN, JIS			DIN 2576 DIN 2633	DIN 2635	JIS 10k	Pressure Ports	
	Size inch	A inch	C inch	B inch	Size mm	A mm	C mm	B mm	B mm	B mm	P NPT	P RC
VH0A	1/2"	0.546	2.25	1.38	15	13,87	60	45	45	51	1/16	-
VH0B	3/4"	0.742	2.25	1.68	20	18,85	60	58	58	56	1/16	-
VH01	1"	0.957	2.25	2.00	25	24,31	60	68	68	67	1/8	1/8
VH0C	1 1/2"	1.500	3	2.88	40	38,10	80	88	88	81	1/8	1/4
VH02	2"	1.939	3.38	3.62	50	49,25	85	102	102	96	1/4	1/4
VH0D	2 1/2"	2.323	4	4.12	65	59,00	100	122	122	116	1/4	1/4
VH03	3"	2.900	4.75	5.00	80	73,66	120	138	138	126	1/4	1/4
VH04	4"	3.826	6	6.19	100	97,18	150	158	162	151	1/4	1/4
VH06	6"	5.761	9.5	8.50	150	146,33	240	212	218	212	1/4	1/4

\*Other sizes, lengths and tap specifications are available.

MODEL NUMBER CONFIGURATION VH

Type	Size	Materials	Body Style	Bore	Fittings	Face Style
<b>VH</b>						
0A	1/2"	P CPVC	<b>1 ANSI CL 150 to 2500</b>	<b>S Standard</b>	<b>N NPT</b>	<b>2 O-Ring Seal</b>
0B	3/4"	Q S304	2 DIN 2633	X Other	J RC	<b>3 Serrated</b>
01	1"	L S304L	3 DIN 2635		X Other	X Other
0C	1 1/2"	<b>A S316</b>	4 JIS 10k			
02	2"	T PTFE	X Other Style			
0D	2 1/2"	B Brass				
03	3"	R CPVC Body				
04	4"	S316L Cone				
06	6"	X Other Mat. ‡				

‡Other materials can include the following:

- |                          |              |
|--------------------------|--------------|
| HASTELLOY C-276          | S321H        |
| DUPLEX 2205              | INCONEL 625  |
| CHROMEMOLY P22/P11       | PVC          |
| MONEL K400/K500          | Kel-F, Kynar |
| CARBON STEELS            |              |
| A350, A333, API5L, A106B |              |

**NOTES**

1. Bold items in table above are standard construction.
2. Combinations of two different materials can also be specified.
3. Plastic materials limited to sizes 1" to 3". For other sizes please consult factory.

Examples:

Model	Description
VH01-A1SN3	Wafer-Cone 1" line size, S316, ANSI Style, NPT Pressure Ports, Serrated Face
VH03-A4SJ3	Wafer-Cone 3" line size, S316L, JIS 10K, RC Pressure Ports, Serrated Face

ABBREVIATION

NPT	National Pipe Taper
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Technical questions can be answered through a local representative or through our application engineers.

MANUFACTURING STANDARDS

Specific customer requirements can be complied with upon request.

Non-destructive testing can include:

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

OPTIONS

- Accessory Kit: gaskets, long bolts, and nuts
- Alternate cone for different flow range/differential.

REPRESENTED BY: