

Flow measuring instruments - made of plastic -

Series VS...

- Robust construction
- Corrosion-proof
- Accuracy: class 4

according to VDI 3513, page 2

- Easy installation
- Option:
special scales for air

Functional description

The VS series of flow measuring instruments are operated by the well tried system of a using a floating element that rises with increasing flow and with decreasing flow. The float is contained in a conical plastic tube and measurement is read by matching the top of the float to the graduations on the tube. As standard, the plastic measuring tube is marked with a scale of l/h (water) and %-scale. The units are supplied with 2 adjustable set value indicators.

Special scales and scales specifically for use with air are available as an option.



Operative range

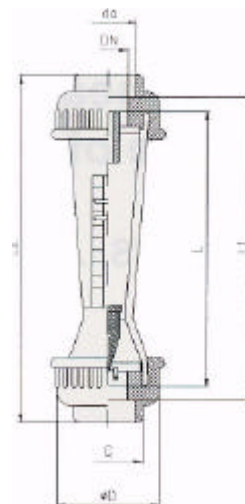
- Water technology
- Process technology
- Environmental technology

Technical data

	VS 1... (Trogamid)	VS 2... (Polysulfone)
Medium temperature	0...+60°C	0... + 100°C
Accuracy	Class 4, ace. to VDI 3513, page 2	
Max. operating pressure (20°C)	PN 10	

Materials

	VS 1...	VS 2...
Measuring tube	PA Trogamid	PSU Polysulfone
Floated element	PVDF	PVDF
O-ring	FKM	FKM
Union nut Adhesive sleeve	PVC	PVC



Air scales

If the standard unit marked in l/h (water) is used to measure air, a reasonably accurate measurement can be obtained by using the table shown below. Figures have been calculated with a temperature of 20°C.

Operating pressure	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar
Multiplier	1,414	1,732	2	2,236	2,449	2,646	2,828	3

Dimensions

G	DN	da	L	L1	L2	D
R 1 1/2"	25	32	335	341	385	60
R 2 1/4"	40	50	335	341	403	83
R 2 3/4"	50	63	335	339	417	103
R 3 1/2"	65	75	335	341	429	122

Ordering codes =

Ordering codes =					Type ↓	+	Scale ↓
Measuring range			Connection		Type		Scale
l/h water (20°C)	Nm ³ /h air (20°C, 0 bar rel.)	pressure drop (mbar)	G	DN	measuring tube PA Trogamid	measuring tube PSU Polysulfon	
15 - 150	0,8-5	19	R 1½"	25	VS 101...	VS201...	HP = water /% LO = air (0bar)/% L1 = air (1 bar)/% L2 = air (2 bar)/% L3 = air (3bar)/% L4 = air (4 bar)/% L5 = air (5 bar)/% L6 = air (6 bar)/% L7 = air (7 bar)/% L8 = air (8 bar)/% SK= special scale acc. to definition
50 - 500	2 - 18	19	R 1½"	25	VS 102...	VS202...	
100 - 1000	4 - 34	19	R 1½"	25	VS 103...	VS203...	
200 - 2000	10 - 70	25	R 2 ^{1/4"}	40	VS 104...	VS204...	
300 - 3000	10 - 90	25	R 2 ^{1/4"}	40	VS 105...	VS205...	
600 - 6000	22 - 190	25	R 2 ^{3/4"}	50	VS 106...	VS206...	
1200 - 12.000	45 - 370	25	R 2 ^{3/4"}	50	VS 107...	VS207...	
2000-20.000	60 - 580	25	R 3½"	65	VS 108...	VS208...	
3000 - 30.000	100 - 860	25	R 3½"	65	VS 109...	VS209...	
8000 - 80.000	---	34	R 3½"	65	VS 110...	VS210...	