

tekVar Variable Area Flow Sensors

The **tekVar** series is a comprehensive range of variable area flow sensors, which indicate the flow rate of gases and low viscosity liquids. Although simple in construction and low in cost, all **tekVar** sensors are provided with a USA NIST traceable Calibration Certificate, and are manufactured with ISO 9001 quality guarantee.

tekVar metal tube VA sensors are suitable for gases and low viscosity liquids for 15 - 100mm (0.5" - 4") pipes. A sensing float in an internal tapered metal flow tube is magnetically coupled to the indicator unit, which provides flow rate analog or digital scaling over a 10 : 1 range. A 4 - 20mA output is available. A wide range of process flanges provide pressure ranges from 20 - 92 barg (290 - 1330psig)

Accuracy depends on **tekVar** type, but varies from $\pm 2\%$ of full scale to $\pm 5\%$ of full scale. Liquid flow rates range from 2.5 to 100000 lpm (0.01 - 440 gpm), or gases from 0.07 - 2500 nm³/hr (2.5 - 89000 scfh) normally over a 10 : 1 range.

Features:

tekVAR Metal tube VA

- Accuracy : $< \pm 2.0\%$ of full scale
USA NIST and international traceability
- Connections : DN15mm - 100mm (1/2" - 4"), JIS10K or ANSI 150lb
- Flow Tube/Float: Mat'l of SS304, 316, 1.4571ti, Hastelloy C
- Flow Ranges :

mm	inches	Water (lph)	Water (gpm)	Air (nm ³ /hr / scfh)
15	0.5"	2.5 - 630	0.01 - 2.8	0.07-16 / 2.5-570
25	1"	63 - 4000	0.28 - 18	1.6-110 / 60 -3900
50	2"	630 - 16000	2.8 - 70	18-400 /640-14500
80	3"	2500-40000	11 - 180	70-1000 / 2500-36000
100	4"	6300 - 100000	28 - 440	160 - 2500 / 5700 - 89000

Notes : For each size flow ranges are in 10 :1 increments

- Pressure : 0.6MPa - 1.6MPa
- Temperature : minus 25°C to + 150°C (-13°F to +300°F)
- Indicator : mechanical analog or LCD/analog
- Transmitter : analog 4 -20mA
- Protection : IP65 weatherproof and NEMA 4X
- Options : Temperature shield for high temperature application

tekVAR Glass tube VA

- Media : Gas and low viscosity liquids
- Accuracy : $< \pm 2.5\%$ of full scale
USA NIST and international traceability
- Flow Tube / Seal: Tough Borosilicate Glass / Viton, EPDM
- Float : PTFE (gases), AISI 316 stainless steel (liquids)
- Connections : 1/2" - 2" FNPT or FBSPT or flange to DIN PN10, JIS10K, ANSI 150lb in AISI 304 or 316 SS
- Pressure : < 1.0 MPa
- Temperature : minus 25°C to + 150°C (-13°F to +300°F)
- Protective Cover : Epoxy coated carbon steel or stainless steel 304



tekVar Metal tube VA Meter



tekVar Glass tube VA Meter