

Vortex Flow Sensors

Series VVX



Vortices for precise flow measurement

Properties

- Solid state flow sensor with no moving parts for liquids
- Rugged glass fibre reinforced plastic ensures highest strength and performance
- Completely encapsulated piezoceramic pick-up to detect the vortices
- Wide measuring span (1:20)
- Max. medium temperature up to 194 °F
- Temperature sensor integrated
- Analog or pulse output signals for flow and/or temperature

Technical data	VVX 15	VVX 25
Size	DN 15	DN 25
Flow range	0.5...10 gpm	2...40 gpm
Process connection	½" NPT	1" NPT
Inner diameter	Ø ½"	Ø 1"
Accuracy	±2 % of range	
Reproducibility	±0.2 % of range	
Nominal pressure	145 psi	
medium temperature	Max. 194 °F	
Materials		
Body / tube	PPS Fortron® 40 % GF	
Pick-up	ETFE Tefzel®	
Cover plate	PA 6.6	



Approval

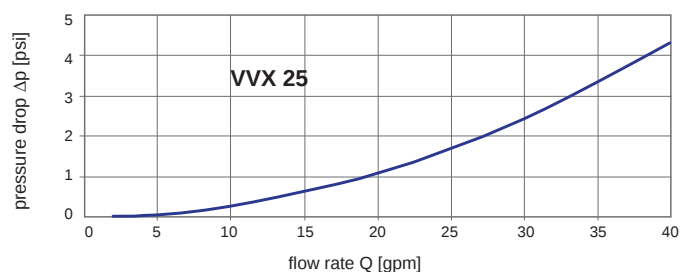
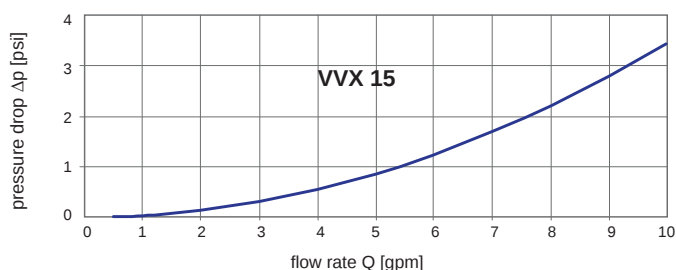


- Conforms to ANSI/UL Std.61010-1
- Cert. to CAN/CSA C22.2 No.61010-1

Electrical data	Pulse output	Analog output
Flow Output Signal • Pulse rate VVX 15 • Pulse rate VVX 25	Square wave signal pulse duty ratio 50:50 Signal current max. 20 mA 2000 pulses per gallon optional 4...4000 pulses per gallon 400 pulses per gallon optional 4...2000 pulses per gallon	Analog signal 0.5...3.5 V
Temperature Output Signal	NTC 10K or Pt1000	Analog signal 0.5...3.5 V or NTC 10K or Pt1000
Power supply	8...30 V DC or 5 V DC ±5 %	5 V DC ±5 %
Current consumption	< 25 mA	< 15 mA
Electrical connection	5-pin plug M12x1 or RAST 2.5	
Protection class (according to DIN EN 60529)	M12x1 RAST 2.5	➔ IP 65* ➔ IP 20*

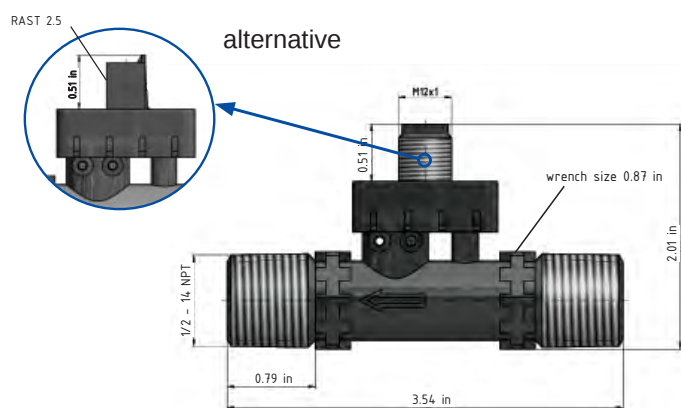
*Only with connected cable socket.

Pressure drop

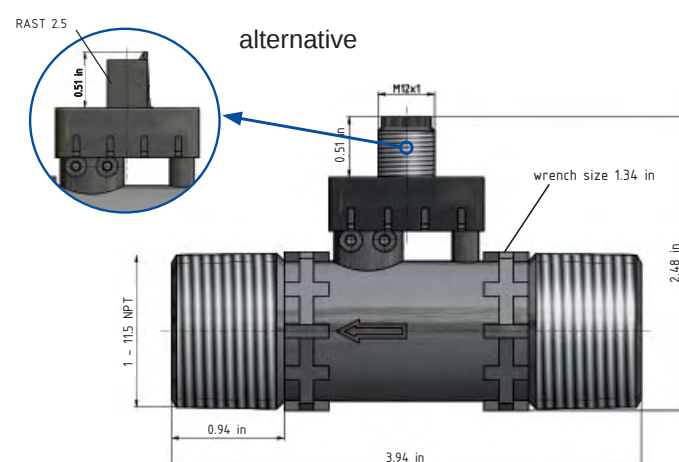


Dimensions

VVX 15



VVX 25



Order code			Pulse output				Analog output			
Size	DN 15 DN 25	VVXAAE VVXBBE	1RRR 2RRR			1C0 1E0	VVXAAEN1UA VVXBBEN2UB			1C0 1E0
Temperature Output Signal	0.5...3.5 V Pt1000 NTC			---	P N			U1 RP RN		
Power supply	8...30 V DC 5 V DC		G P		1 2			---	2	
Electrical connection	5-pin plug M12x1 RAST 2.5					5 2				5 2
Your selection										

Accessory part	Length	Order code	
Connection cable with 5-pin cable socket M 12x1, angle type molded lead, sheathing material PUR, ($T_{max} = 176\text{ °F}$) UL-approval	3 m 5 m 10 m	XVVX 017 XVVX 018 XVVX 019	
PVC-Ribbon cable 5x AWG24 with RAST 2.5 duomodul	1 m 2 m	XVVX 031 XVVX 021	

Our Production and Sales Range



Flow Sensors without moving Parts



Turbine Flow Sensors



Flow Switches



Pressure Gauges and Pressure Sensors



Industrial Thermometers



Electronic Digital Thermometers, Dial Thermometers



Measuring Instruments



Temperature Sensors



Calibrators, DKD-Laboratory

Your competent partner for measurement and control

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Subject to technical modification

