FLOWSTAT TURBINE FLOW SENSOR

Ideal for monitoring various fluids in applications such as chillers/cooling circuits, HVAC, medical equipment, batching and industrial process control applications.



TECHNICAL SPECIFICATIONS

Measuring Accuracy

±2% of full scale

Repeatability

±0.5% of full scale

Flow Measuring Range

1/2" porting: 0.5-15 GPM (2-60 LPM) 1/2 " porting low flow option: 0.25-4.5 (1-17 LPM)

3/4" - 1" porting: 1.5-50 GPM (60-200 LPM)

Turn Down Ratio

10:1

Fluid Temperature Range

20-225°F (-7° to 107°)

Maximum Operating Pressure

Stainless steel cover: 500 PSIG (34 Bar) Clear polycarbonate cover: 200 PSIG (14

Bar)

Filtration Requirements

150 Micron filter recommended

Standard Calibration Fluid

Water @ 70°F Temperature (21°C), 1.0 sg

BENEFITS

Choice of Three Port Sizes

Select from 1/2", 3/4" or 1" NPT porting to meet system requirements.

NOTE: Using reduced ID fittings will affect calibrated range.

Encapsulated Circuitry

Withstands the harshest environments.

Several Outputs Available

The standard interface is a 2-wire, 4-20mA current loop. Sensor signal may be transmitted on a low cost wire without degradation. Pulse, relay and 0-5 VDC (regulated) are also available.

Connects Directly to your Flow Monitoring Instruments

Can be connected directly to analog acquisition cards, chart recorders or other monitoring instruments, without external signal conditioning.

Simply Plumb and Apply Power

Comes factory calibrated to your flow range specifications.

Twenty-Four Different Ports Available

Standard selection of NPT, SAE and BSP ports reduces the amount of adapters required for installation.

Low Cost Accuracy

Mid-scale measuring accuracy within $\pm 2.5\%$. Full-scale accuracy within $\pm 4\%$.

MATERIALS OF CONSTRUCTION

Wetted Components			
Component	Materials		
Casing	Stainless Steel 316		
Cover	Clear polycarbonate (Optional Stainless Steel 316)		
Seal	Buna-N® (other options available)		
Impeller	Acetal Copolymer		
Bearing	PEEK (Polyetheretherketone)		
Shaft	316 Stainless Steel		

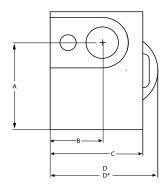
Non-Wetted Components		
Component	Materials	
Encapsulant	Ероху	
Strain Relief	Nylon	
Lock Ring	Stainless Steel	
Wire Insulation	High-Temperature PVC	

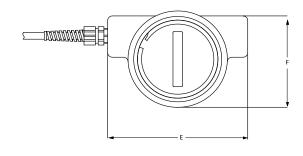
Buna-N is a registered trademark of Chemische Werke Huls.



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MECHANICAL DIMENSIONS

DIM	1/2" NPTF	3/4" NPTF - 1" NPTF
A	1.94" (49mm)	3.06" (78mm)
В	1.13" (29mm)	1.33" (34mm)
С	2.00" (51mm)	2.46" (62mm)
D	2.45" (62mm)	2.78" (71mm)
D*	2.45" (62mm)	2.88" (73mm)
Е	3.70" (94mm)	5.25" (133mm)
F	2.63" (67mm)	3.80" (97mm)

^{*}Dimensions with clear polycarbonate cover installed.

ELECTRONIC SPECIFICATIONS

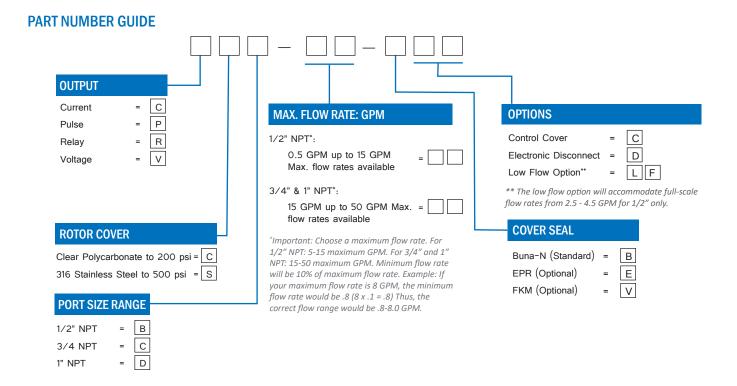
4-20 mA version		0-5 VDC (regulated) version		
Power Requirements	12-24 VDC, Regulated, Loop powered	Power Requirements	12-24 VDC, Regulated	
Load driving capacity	Maximum Current	25 mA DC, Regulated		
	Minimum Load resistance	1000 Ohms		
Maximum Transmission Distance	Limited only by wire resistance & supply voltage	Maximum Transmission Distance	200 feet recommended	
Response time	2 seconds to 90% (step change)			
Resolution	Infinite	Resolution	Infinite	
Over-current limit	Self limiting at 35 mA	Response time	< 5 seconds to 90% (step change)	
Other protection	Reverse polarity			

Relay Output		Pulse Output Version	
Power Requirements	12-24 VDC, Regulated	Power Requirements	12-24 VDC, Regulated
		Response Time	<100 mS
Maximum Transmission Distance 200 f	200 feet recommended	Maximum Current	25 mA DC, Regulated
		Maximum Transmission Distance	200 feet recommended
Switch Contact Form C, 5A max 120 o	Form C, 5A max 120 or 240 VAC	Minimum Load Resistance	1000 Ohms
		Protection	Short circuit & reverse polarity
Set Point Repeatability	1% of full scale	K-Factor	1/2" port ≈ 200 pulses/gallon 3/4" & 1" ports ≈ 60 pulses/gallon

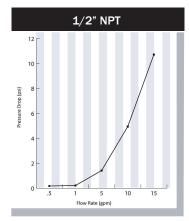


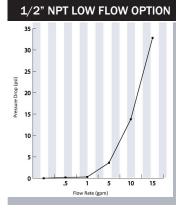
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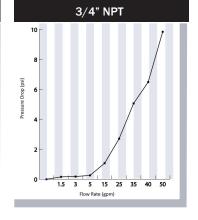
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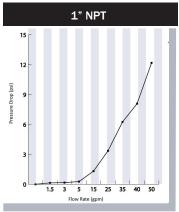


TYPICAL PRESSURE DIFFERENTIALS









Products may be subject to change without notice - Contact factory for the most up-to-date product information.

