



Stainless Steel Turbine Flowmeter

The SS flow sensor of Equiflow has low flow sensing capabilities in a wide range of applications, including corrosive aqueous liquids and high pressure applications.

A digital output signal, generated by a reflected IR-beam offers an accurate, economical and flexible design to meet customer requirements. In either flow controlled or monitoring applications, the SS flowsensor can measure flow rates and totalize.

Characteristics:

Turbine flowsensor with high resolution output, measuring by revolutionary IR Turbine reflection.

Stainless Steel / PFA materials for high chemical resistance and process pressure

High accuracy and repeatability ("swiss made")

Suitable for opaque liquids

Programmable pulse output

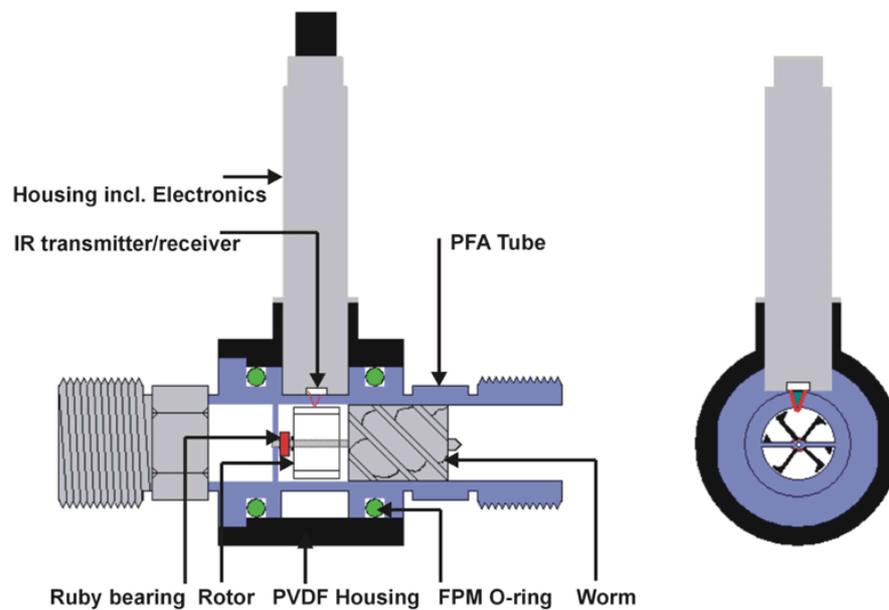
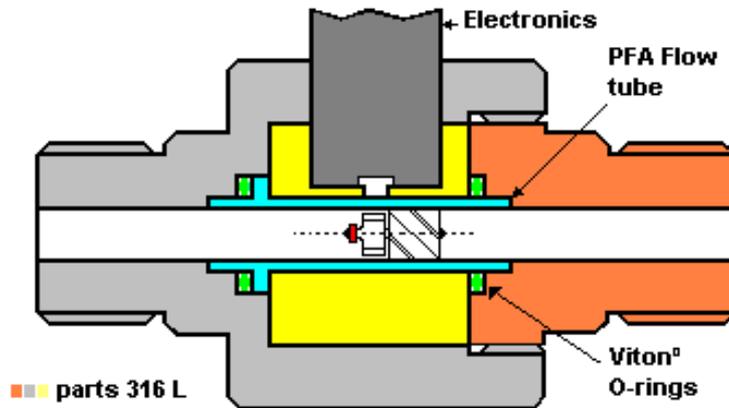
All wetted parts are made of SS.316 / PFA with ruby bearing.

Type	0045	0085	0125
Inner diameter in mm	4,5	8,5	12,5
Flow range	0,06 - 2 L/min	1 - 20 L/min	2 - 38 L/min
Accuracy	appr. 1% of reading	appr. 2% of reading	appr. 3% of reading
Repeatability	< 0,15 %	< 0,15 %	< 0,15 %
Materials	SS/PFA/Ruby	SS/PFA/Ruby	SS/PFA/Ruby
O-ring Seals	Viton or EPDM	Viton or EPDM	Viton or EPDM
Tube connection in	¼ "NPT/BSP	⅜ "NPT/BSP	½ "NPT/BSP
Tube dimensions incl. housing in mm	L. 72,6; Ø 40	L. 72,3; Ø 40	L73,6; Ø 45
Liquid temperature in °C	-20 tot +80	-20 tot +80	-20 tot +80
Max. pressure at 20° C in MPa	20 (200 Bar)	20 (200 Bar)	15 (150 Bar)
Viscosity in cSt.	0,8 - 10	0,8 - 10	0,8 - 10
Resolution in microL/puls	9	158	488
K factor (water) in pulse/Litre	110.000	6.350	2.050
Power supply	5 - 30 Vdc	5 - 30 Vdc	5 - 30 Vdc
Output signal	5 - 30 V square wave	5 - 30 V square wave	5 - 30 V square wave
Power consumption	34 mA at 5 V	34 mA at 5 V	34 mA at 5 V
Electrical lead	PVC 1 meter	PVC 1meter	PVC 1 meter

Other Specs on request

Additional models: Standard version with fixed PFA housing around the tube

Click version with removable PVDF housing for easy exchange of the tube (hygienic)



Working principal:

1. a static worm forces the passing fluid to spin
2. the spinning fluid drives a rotor with reflectors into a frictionless rotation
3. a high resolution infrared sensor determines the rate of flow by counting the passing reflections
4. the set up even allows the flow of opaque liquids to be determined accurately
5. the ultra low mass of the rotor guarantees a quick response to changes in the rate of flow

Products Equiflow:



Standard



Disposable



Stainless Steel



Electronics