



Stainless Steel - Tri-Clamp Turbine flow meter

The Stainless Steel Tri-Clamp Turbine flow sensor has low flow sensing capabilities in a wide range of applications suitable for neutral, corrosive, aqueous and opaque liquids including fuel. Outstanding performance in high pressure applications. An ultra light-weight turbine rotor follows the fluctuation of the flow very accurately and generates a high resolution IR-reflected digital output signal.

In either flow controlled or monitoring applications, the Stainless Steel Tri-Clamp Turbine flow sensor can measure flow rates and totalize.



Characteristics:

- Stainless Steel Tri-Clamp Turbine flow sensor with high resolution output
- Flow measuring with revolutionary Infra-Red turbine rotor reflection
- Stainless Steel SS 316L – PFA for high corrosive resistance
- Outstanding performance for high process pressure
- High accuracy and repeatability
- Also suitable for opaque liquids

All wetted parts are made of SS.316L / PFA with ruby bearing and FPM (Viton®) sealing.

Patent US5388466

Options:

- Programmable K-factor
- Flow alarm level
- Batch function with preset

Type	0045	0085	0125
Inner diameter in mm	4.5	8.5	12.5
Flow range	0.1 - 2 L/min	0.5 - 20 L/min	1.5 - 40 L/min
Accuracy	1% of reading	1% of reading	1% of reading
Repeatability	< 0.15 %	< 0.15 %	< 0.15 %
Wetted Materials	SS316L / PFA / Ruby	SS316L / PFA / Ruby	SS316L / PFA / Ruby
O- ring Seals	Viton or EPDM	Viton or EPDM	Viton or EPDM
Connections	¾" Tri-Clamp	¾" Tri-Clamp	1" Tri-Clamp
Dimensions incl. housing in mm	L max 68	L max 68	L max 69
Liquid temperature in °C	-20 to +80	-20 to +80	-20 to +80
Max. pressure at 20° C in MPa	10 (100 Bar)	10 (100 Bar)	10 (100 Bar)
Viscosity in cSt.	0.8 - 10	0.8 - 10	0.8 - 10
Approx. K- factor (water) pulse/L	110.000	5.500	2.000
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 cable length	1 meter	1 meter	1 meter

Note:
All data based on water and under ideal laboratory test conditions.
The specification can vary among the different local process conditions.