

Specification Sheet

Stainless Steel Precision Meter Sanitary Clamp Style (without Sanitary Clamps)



Sizes: 1", 1 1/2", 2"

Description

Operation. The stainless steel Precision Meter is an inferential turbine type flow meter with a rotor. The fluid passes through the meter without a change in direction driving the rotor in direct proportion to the quantity of fluid passing through the meter.

Installation. This meter, like all turbine type meters, requires installation in a horizontal pipeline with 10 pipe diameters ahead and 5 after the meter of straight pipe the same size as the meter. A full pipe of fluid is also required.

Construction. The meter body, shaft and supports are 316 stainless steel with a stainless steel rotor. The bearings are PEEK. A magnetic pickup is actuated by the rotor, which transfers a specific K factor to one of three output devices: two wire pickup, pre-amplifier, or blind 4-20 mA output.

Applications. Sanitary applications for dairy, food, beverage and pharmaceuticals. Refer to the chemical compatibility chart.

Specifications

Design Type	Turbine
Accuracy	± 0.5% of reading
Repeatability	± 0.1%
Temperature	-100°F to +280°F
Working Pressure	Limited to clamp selection & size

Flow Range	1"	6.7 to 67.0 GPM
	1 1/2"	17.7 to 177 GPM
	2"	33.0 to 330 GPM

Material

Body	316 Stainless Steel
Shaft & Supports	316 Stainless Steel
Rotor	CD4MCu Stainless Steel
Bearings	PEEK

Meter ID	1"	1 1/2" Fittings
	1 1/2"	1 1/2" Fittings
	2"	2" Fittings

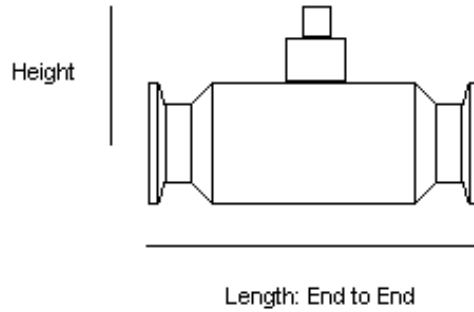
Typical K Factor	1"	896
	1 1/2"	340
	2"	181

Frequency Output	1"	100-1000 Hz
	1 1/2"	100-1000 Hz
	2"	100-1000 Hz

Available with:	Two Wire Magnetic Pickup
	Pre-amplifier/MS-Connector Cable Assembly.
	Blind 4-20mA Output

Dimensions: Sanitary Connection - Inches

Size	Length (mm)	Height (mm)	Weight (lbs)
1"	3.56 (90)	2.75 (70)	2.54
1 1/2"	4.59 (116)	3.00 (76)	4.00
2"	6.06 (154)	3.25 (82)	6.00



Maintenance

Rotor Kits are available for field installation. Meters do not need to be returned to AMCO for repair of the rotor assembly.

Chemical Compatibility Chart is also available for this meter.

Output Options

1. The Blind 4-20mA output option consists of the following components attached to the meter: Wire lead magnetic pickup and 4-20mA-output module. 11.6 to 40V DC power required.
2. The pickup and cable assembly option is for individuals who can supply sine wave frequency signal from the magnetic pickup directly into their own display, computer, PLC, SCADA system, etc. The options consist of: Standard magnetic pickup, Connector, 10ft weather proof cable.
3. The pickup with pre-amp option provides a stronger signal less susceptible to interference from external electromagnetic energy. The pre-amp output is a square wave signal from 9-30 VDC depending on supply voltage. The signal is compatible with assortments of indicators, displays and controls that the user may wish to use. The option consists of:
Wire lead magnetic pickup, pre-amp module threaded to the top of the meter.

Connections

Since the working pressure of the meter is dependant on the TRI-CLAMP connectors, the connectors are to be purchased by the end-user appropriate to their application requirements. The Sanitary Meter body will, in all cases, exceed the connection rating.



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