# TURBINE FLOWMETERS BY



## Sanitary Turbine Flowmeters

Product Bulletin HO-SA-107G

The Turbine Flowmeter Company

### TECHNICAL DATA SHEET

#### SANITARY TURBINE FLOWMETER WITH 3-A LABEL FOR PROCESS LIQUID MEASUREMENT

The Hoffer Sanitary Design Turbine flowmeter is accepted as meeting 3-A Sanitary Standard No. 28-03 for measurement of process liquids where high sanitary standards are required. Available in 11 sizes, ¼" to 3" with standard Tri-Clamp™ fittings, covering flow rates for 0.35 to 650 GPM.

Technical Data								
Flowmeter Size				Linear Flow Range		Nominal Pulses/ Gallon 'K' Factor	Nominal Max. Frequency	Length (Inches)
Tri-Clamp™ Size (Inches)				(US GPM) Refer to Note 1				
			<b>↓</b>	Min.	Max.	Pulses/ Gallon	(Hz)	,
* Model HO3A	1½	Х	1/4A	.35	3.5	15,000	900	3.56
Model HO3A	3/4	Х	1/4A	.35	3.5	15,000	900	3.56
*Model HO3A	11/2	Х	3⁄8A	.75	7.5	8,900	1100	3.56
Model HO3A	3/4	Χ	3/8A	.75	7.5	8,900	1100	3.56
*Model HO3A	11/2	Χ	1/2A	1.25	9.5	5,800	900	3.56
Model HO3A	3/4	Х	1/2A	1.25	9.5	5,800	900	3.56
*Model HO3A	11/2	Х	5/8A	1.75	16	5,200	1400	3.56
Model HO3A	3/4	Х	5/8A	1.75	16	5,200	1400	3.56
*Model HO3A	11/2	Х	3/4A	2.5	29	2,200	1065	3.25
Model HO3A	11/2	Х	1A	4	60	660	660	3.56
Model HO3A	11/2	Х	1¼A	6	93	400	620	4.59
Model HO3A	11/2	Х	11/2A	8	130	230	500	4.59
Model HO3A	2	Χ	2A	15	225	120	450	6.06
*Model HO3A	3	Х	21/2A	25	400	97	650	10.00
*Model HO3A	4	Χ	3A	40	650	45	500	10.00

<sup>™</sup> Ladish Tri-Clover Div.

Ranges shown are standard ranges; other ranges are available. (Note 1) Contact factory.

#### **OPTIONAL ACCESSORIES**

#### Signal Conditioners/Converters

CAT Series (Refer to CAT Technical Data Sheets).

#### Meter Mounted Totalizer/Rate Indicators

Model HIT-2A Totalizer/Rate Indicator (Refer to Technical Data Sheet HIT-2A-XXX).

#### Micro Processor Based Flow Computers

Flowstar<sup>™</sup> and Nova-Flow Series (Refer Flowstar Series and Nova-Flow Series Technical Data Sheets).



Note: Turbine meter must be installed with pickup coil pointing down to ensure proper cleanability according to the 3A standard.

#### **PERFORMANCE SPECIFICATIONS**

\*\*Accuracy & Linearity: ±0.5% of reading or better. ±0.1% of reading or better. \*\*Repeatability:

#### **Temperature Range:**

-450°F to +450°F, process fluid with Std. Magnetic pickup coil. -450°F to +850°F, process fluid with high temperature magnetic pickup coil. +1000°F intermittently.

Signal Output: 10 MVRMS or greater into a 10K ohm load at minimum flow rate.

#### **Materials of Construction:**

316/316L Dual Rated Stainless Steel (with exceptions noted below): Rotor: 17.4 PH SS.

15.7 MO PH SS when required. Retaining Rings: Bearings: Hard Carbon Composite.

#### INSTALLATION KITS FOR HOFFER SANITARY TURBINE FLOWMETER

To achieve optimum performance of the Sanitary Turbine Flowmeter, a minimum of 10 pipe diameters upstream and 5 pipe diameters downstream of meter size pipe must be used.

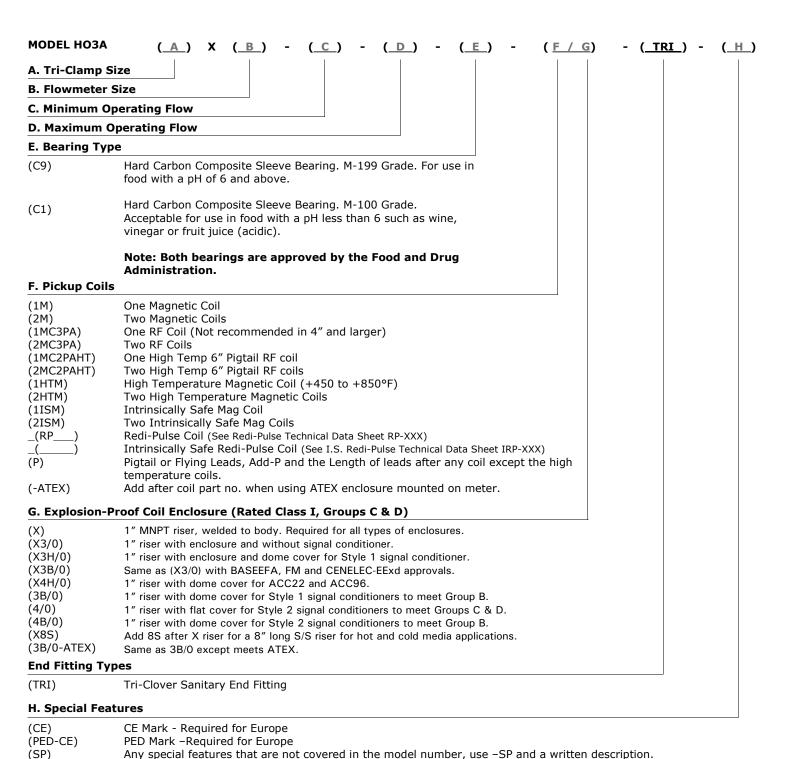
In addition, certain combinations of nominal meter sizes and tri-clamp sizes, as indicated on the sizing chart, require the use of adaptor piping to meet the latest "3A" 28-03 specifications.

To meet these requirements Hoffer offers sanitary installation kits. Please see the sanitary installation kit brochure for complete details.

<sup>\*(</sup>Note 2) These sizes require the use of an installation kit to meet "3A" Standard 28-03 specifications. Other sizes are optional.

<sup>\*\*</sup>Based on 12 point water calibration at 70°F.

#### SANITARY TURBINE FLOWMETER MODEL NUMBERING SYSTEM





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The quality system covering the design, manufacture and testing of our products is certified to International Standard ISO 9001.

