# TURBINE FLOWMETERS BY

**Best Turbine** in the Industry

**HO Series "Flanged Steam Jacketed" Turbine Flowmeters** for Liquid Service

Product Bulletin HO-SJ-001D

The Turbine Flowmeter Company

#### **OUTSTANDING FEATURES**

- Designed for use on products that require steam or hot water to remain in a liquid state.
- Sizes 1/4" through 3" available.
- Steam jacket pressure rated to 850 psig @ 650°F.
- Output is linear with flow rate.
- Multiple pickup coils optionally available.
- Rotor assembly is hydrodynamically balanced and "floats" on fluid cushion to provide extended bearing life.
- Optional bi-directional flowmeters available.



CHNICAL DATA SHEET

#### GENERAL DESCRIPTION

The Hoffer HO Series "steam jacketed" turbine flowmeters provide extremely accurate flow rate measurement and dependable service for use on liquids that require steam or hot water to remain in a liquid state.

LIQUID SIZE SELECTOR CHART FOR STANDARD HO SERIES TURBINE FLOWMETERS								
Flowmeter Size	MAGNETIC PICKUP COIL				MODULATED PICKUP COIL			
Diameter	Linear Range	Linear Range	Repeatable Range	Repeatable Range	Linear Range	Linear Range	Repeatable Range	Repeatable Range
(inches)	(US GPM)	(LPM)	(US GPM)	(LPM)	(US GPM)	(LPM)	(US GPM)	(LPM)
1/4*	.35-3.5	1.3-13.2	.25-4.5	.95-17	.35-3.5	1.3-13.2	.0625-4.5	.24-17
3/8*	.75-7.5	2.8-28.4	.3-9	1.1-34	.75-7.5	2.8-28.4	.075-9	.28-34
1/2	1.25-9.5	4.7-36	.6-12	2.3-45	1.25-9.5	4.7-36	.12-12	.45-45
5/8	1.75-16	6.6-60.6	.9-20	3.4-75.7	1.75-16	6.6-60.6	.2-20	.75-75.7
3/4	2.5-29	9.5-110	1.5-35	5.7-132.5	2.5-29	9.5-110	.35-35	1.3-132.5
1	4-60	15-227	2-75	7.6-284	4-60	15-227	.75-75	2.8-284
1-1/4	6-93	23-352	3-115	11.4-435	6-93	23-352	1.15-115	4.35-435
1-1/2	8-130	30.3-492	5-175	19-662	8-130	30.3-492	1.75-175	6.6-662
2	15-225	56.8-852	11-275	42-1041	15-225	56.8-852	2.75-275	10.4-1041
2-1/2	25-400	95-1514	15-500	56.8-1893	25-400	95-1514	5-500	19-1893
3	40-650	151-2460	20-800	76-3028	40-650	151-2460	8-800	30.3-3028

#### PERFORMANCE SPECIFICATIONS

Overrange: 150% of maximum flow (intermittently).

**Linearity:**  $\pm 0.5\%$  of reading ( $\pm 0.25\%$  typical) over tabulated linear flow range.

**Repeatability:**  $\pm 0.1\%$  ( $\pm 0.05\%$  typical) over tabulated repeatable range.

Pressure Drop Characteristics: 4 to 5 PSI at maximum linear flow rate at one CSTK.

Available Temperature Range: -450°F to +450°F standard with magnetic coil. High temperature option to +850°F. Refer to various flowmeter configurations for pressure ratings, outline dimensions and available sizes. Available Turn Down Range: 10:1 to 100:1.

**End Fittings:** Available in ANSI and DIN flanged styles.

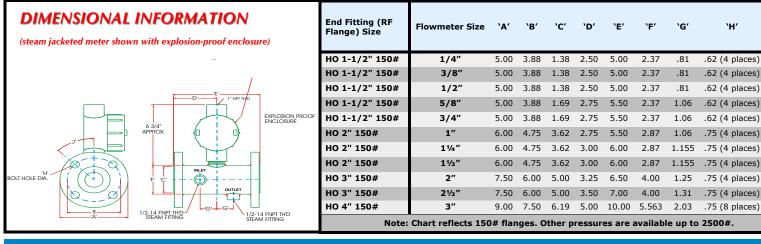
Materials of Construction: All 316 stainless steel including jacket and steam fittings for long life (with exceptions noted below).

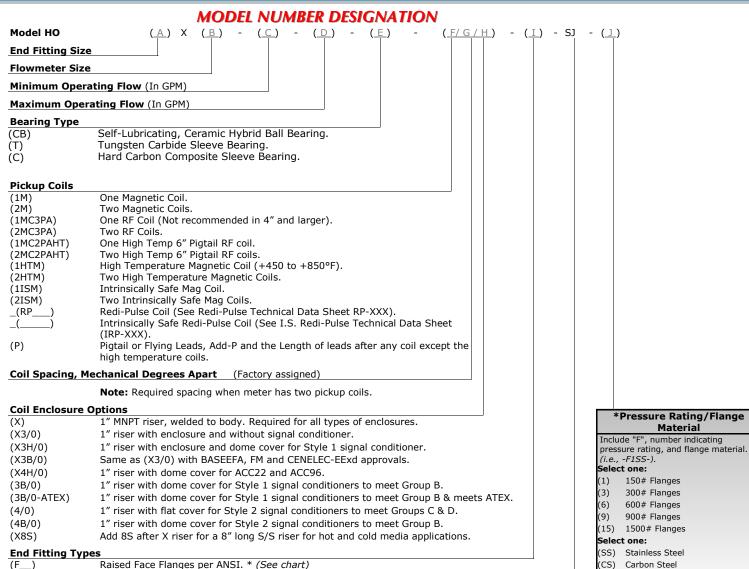
Rotor: 17.4 PH or optional Nickel 200, 430 stainless steel, and others available for media compatibility.

Bearing Styles: 440C stainless steel/ceramic ball bearings, hard carbon composite, tungsten carbide sleeve, and others available for compatibility with flow media.

Performance enhancement techniques are routinely applied to produce larger linear and usable flow ranges. Consult with the applications group at Hoffer with your requirements. Larger sizes are available and quoted upon request.

The linear flow ranges on 1/4" and 3/8" may be derated depending on bearing selection. Consult applications group for additional information.





#### **Special Features**

Steam Jacket

(CE) CE Mark required for Europe. (PED-CE) PED-CE Mark required for Europe.

Steam Jacket.

(SP) Any special features that are not covered in the model number, use -SP and a written description.

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(SJ)

### HOFFER FLOW CONTROLS, INC.

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



Note: 316 SS flanges are standard, add -304 at end of model # if 304

flanges are required.

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45°

45°

45°

45°

459

45°

45°

45°

45°

45°

221/20

(DN\_/PN\_/CS/SS) DN=Metric Size, PN=Flange Pressure Rating (in DIN Std.) and Select Material.