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

Product Bulletin HO-SJ-001G

TECHNICAL DATA SHEET

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 hydro-dynamically balanced and "floats" on fluid cushion to provide extended bearing life.
- Optional bi-directional flowmeters available.

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.

BEST TURBINE

IN THE INDUSTRY

FLOWMETER SIZEImage Range (US GPM)Image Range (US GPM)Image Range (US GPM)Image Range (US GPM)Image Range (US GPM)Image Range (US GPM)Repeatable Range (US GPM)Image Range (US GPM)Repeatable Range (US	LIQUID SIZE SELECTOR CHART FOR STANDARD HO SERIES TURBINE FLOWMETERS									
Diameter (inches) Linear Range (US GPM) Repeatable Range (US GPM)	FLOWMETER SIZE	MAGNETIC PICKUP COIL				MODULATED PICKUP COIL				
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 6.6-12 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 2.3-352 3.115 11.4-435 6-93 2.3-352 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 6.6-602	Diameter (inches)	Linear Range (US GPM)	Linear Range (LPM)	Repeatable Range (US GPM)	Repeatable Range (LPM)	Linear Range (US GPM)	Linear Range (LPM)	Repeatable Range (US GPM)	Repeatable Range (LPM)	
3/8* .7.57.5 2.8-28.4 .3.9 1.1-34 .7.57.5 2.8-28.4 .0.075-9 .2.8-34 1/2 1.25-9.5 4.7-36 .6-12 2.3-45 1.25-9.5 4.7-36 .1.21.2 .4.5-45 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 2.3-352 3.115 11.4-435 6-93 2.3-352 1.15-115 4.35-435 1-1/2 8-130 30.3-492 5-175 10.4-1441 116-215 1.5-275 10.4-1441	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	
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 2.3-352 3.115 11.4-435 6-93 2.3-352 1.15-115 4.35435 1-1/2 8-130 30.3-492 5-175 19-662 8-130 30.3-492 1.75-175 6.6-662	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	
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	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	
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	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	
1 4-60 15-227 2-75 7.6-284 4-60 15-227 .7.5-75 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 25 11.275 4.01444 15-235 5.757 10.4.1444	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	
1-1/4 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 1-1/2 15-25 15-69.852 11.275 10.4.1041 15-255 56.8.852 2.75.275 10.4.1041	1	4-60	15-227	2-75	7.6-284	4-60	15-227	.75-75	2.8-284	
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 56.9 852 11-275 40.1041 15-225 56.8 852 2.75-275 10.4 1041	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 50.0-052 11-2/5 42-1041 15-225 50.8-652 2./5-2/5 10.4-1041	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	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	3	40-650	151-2460	20-800	76-3028	40-650	151-2460	8-800	30.3-3028	

NOTES: 1) Performance enhancement techniques are routinely applied to produce larger linear and usable flow ranges. Consult with the applications group at Hoffer with your requirements. 2) 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.

PERFORMANCE SPECIFICATIONS

Overrange: 150% of maximum flow (intermittently).

Linearity: ±0.5% of reading (±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.

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