



TECHNICAL DATA SHEET

OUTSTANDING FEATURES

- Maximum working pressure of 10,000,15,000 and 20,000 psi dependent upon line size.
- Outstanding accuracy.
- Provides wide flow ranges (10:1 to 100:1 turndown ranges available).
- Autoclave® end connections.



LIQUID SIZE SELECTOR CHART FOR HO AUTOCLAVE® SERIES TURBINE FLOWMETERS

Flowmeter Size	MAGNETIC PICKUP COIL				MODULATED PICKUP COIL			
	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)
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

NOTE: Performance enhancement techniques are routinely applied to produce larger linear and usable flow ranges. Consult with the applications group at Hoffer with your requirements.
 * The linear flow ranges on 1/4" and 3/8" may be derated depending on bearing selection. Consult applications group for additional information.

SPECIFICATIONS

- Overrange:** 150% of maximum flow (intermittently).
- Linearity:** ±0.5% of reading (±0.25% typical) over tabulated linear flow range.
- Repeatability:** ±0.1% (±0.05% typical) over tabulated repeatable range.
- Available Turn Down Range:** 10:1 to 100:1.
- Available Temperature Range:** -450°F to +450°F Standard. High temperature option to +850°F. Refer to various flowmeter configurations for pressure ratings, outline dimensions and available sizes.
- Pressure Drop Characteristics:** 4 to 5 PSI at maximum linear flow rate at one CSTK.
- End Fittings:** 3/4" & 1" Autoclave® male thread.
- Bearing Styles:** Sleeve bearings in tungsten carbide and hard carbon composite are available.
- Materials:** 316/316L dual rated stainless steel standard. Consult with applications group for corrosive applications. Broad material list available.

PRESSURE RATINGS:

Turbine Size	Autoclave® Fitting Size	Pressure Ratings PSIG/BARG*
1/4	3/4	15000/1034
3/8	3/4	15000/1034
1/2	3/4	15000/1034
5/8	1	20000/1380
3/4	1	20000/1380
1/4	1	20000/1380
3/8	1	20000/1380
1/2	1	20000/1380
5/8	1	20000/1380
3/4	1	10000/689

*Pressure ratings based on max/min working temperature of 400°F.

AUTOCLAVE® LIQUID TURBINE FLOWMETER MODEL NUMBERING SYSTEM

MODEL HO **(A) X (B) - (C) - (D) - (E) - (F / G / H) - (I) - (J)**

A. End Fitting Size

B. Flowmeter Size

C. Minimum Operating Flow

D. Maximum Operating Flow

E. Bearing Type

- (BP) Self-Lubricating, Ceramic Hybrid Ball Bearing
- (T) Tungsten Carbide Sleeve Bearing
- (C) Hard Carbon Composite Sleeve Bearing

F. Pickup Coils

- (1M) One Magnetic Coil
- (2M) Two Magnetic Coils

- (1MC3PA) One RF Coil
- (2MC3PA) Two RF Coils

- (1MC2PAHT) One High Temperature 6" pigtail RF Coil w/ 1/2" MNPT threads (+450° to +850°F)
- (2MC2PAHT) Two High Temperature 6" pigtail RF coils

- (1HTM) One ISM ATEX magnetic coil w/ 1" riser
- (2HTM) Two ISM ATEX magnetic coil w/ 1" risers

- (1ISMNE) Two High Temp 6" Pigtail RF coils
- (2ISMNE) High Temperature Magnetic Coil (+450 to +850°F)
- Two High Temperature Magnetic Coils

- (1ISM) Intrinsically Safe Mag Coil (FM/UL)
- (2ISM) Two Intrinsically Safe Mag Coils (FM/UL)

- _(RP___) Redi-Pulse Coil (See Redi-Pulse Technical Data Sheet RP-XXX)
- _(____) Intrinsically Safe Redi-Pulse Coil (See I.S. Redi-Pulse Technical Data Sheet IRP-XXX)

- (P) Pigtail or Flying Leads, Add-P and the Length of leads after any coil except the high temperature coils.
- (-ATEX) Add after coil part no. when using ATEX enclosure mounted on meter.

G. Coil Spacing, Mechanical Degrees Apart

- () Factory Assigned. Spacing required when meter has two pickup coils.

H. Explosion-Proof Coil Enclosure (Rated Class I, Div 1, Groups C & D except as noted)

- (X) 1" MNPT riser, welded to body. Required for all types of enclosures.
- (X3/0) 1" riser with enclosure and without signal conditioner.
- (X3B/0) Same as (X3/0) with BASEEFA, FM and CENELEC-EEExd approvals.
- (X4H/0) 1" riser with dome cover for Style 1 signal conditioners to meet Group B.
- (3B/0) 1" riser with dome cover for Style 2 signal conditioners to meet Group B.
- (X3B/0-ATEX) 3/4" riser with dome cover. Meets ATEX, Class I, Zone 1, AEx d, IIC.
- (4/0) 1" riser with flat cover for Style 2 signal conditioners to meet Group B
- (4B/0) 1" riser with dome cover for Style 2 signal conditioner to meet Group B
- (X8S) Add 8S after X riser for a 8' long S/S riser for hot and cold media applications
- Note: to be used for application temps below -40° and above +140°F.

I. End Fitting Types

- (AC/3/4") 3/4" Autoclave® Male Threaded End
- (AC/1") 1" Autoclave® Male Threaded End

J. Special Features

- (CE) CE Mark - Required for Europe
- (PED-CE) PED Mark- Required for Europe
- (SP) Any special features that are not covered in the model number, use -SP and a written description.

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The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacturer that the specification are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed and are no longer in effect.

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



ISO9001
Registered Company