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FLUID SYSTEMS & COMPONENTS

TURBINE FLOWMETERS BY HOFFER

Perfecting Measurement™



HO SERIES WAFER
Turbine Flowmeters
for Liquid Service

Product Bulletin HO-SWL-100J

TECHNICAL DATA SHEET

OUTSTANDING FEATURES

- Cost effective design eliminates flange on meter.
- Outstanding accuracy.
- Short Wafer Series meters are rated to meet the pressure rating of any flange as listed in ASME B 16.5.
- Provides wide flow ranges 10:1 turndown typical.
- Alignment rings provided.



LIQUID SIZE SELECTOR CHART FOR HO WAFER SERIES TURBINE FLOWMETERS

Flowmeter Size	End Fitting 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)
5/8	2	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	3/4	2.5-29	9.5-110	1.5-35	5.7-132.5	2.5-29	9.5-110	.35-35	.24-17
1	1	4-60	15-227	2-75	7.6-284	4-60	15-227	.75-75	.28-34
1-1/4	1-1/4	6-93	23-352	3-115	11.4-435	6-93	23-352	1.15-115	.45-45
1-1/2	1-1/2	8-130	30.3-492	5-175	19-662	8-130	30.3-492	1.75-175	.75-75.7
2	2	15-225	56.8-852	11-275	42-1041	15-225	56.8-852	2.75-275	1.3-132.5
2-1/2	2-1/2	25-400	95-1514	15-500	56.8-1893	25-400	95-1514	5-500	2.8-284
3	3	40-650	151-2460	20-800	76-3028	40-650	151-2460	8-800	
4	4	75-1250	284-4731	50-1500	189-5678	MCP not recommended in 4" and larger sizes			
5	5	140-2000	530-7570	100-2500	379-9463				
6	6	200-2900	757-10977	125-3600	473-13626				
8	8A	330-5200	1249-19682	270-6400	1022-24224				

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.

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 Typical.

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.

Materials: 316/316L dual stainless steel standard. Consult with applications group for corrosive applications. Broad material list available.

Optional Mounting Hardware includes:

- Stud Bolts per ASTM A 193 Grade B7
- Hex Nuts per ASTM A 194 Grade 2H with flat washers



LIQUID WAFER 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 Bearings. Sizes 5/8" through 1"
- (CB) Self-Lubricating, Ceramic Hybrid Ball Bearing. Sizes 1¼" and up
- (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 (Not recommended in 4" and larger)
- (2MC3PA) Two RF Coils
- (1MC2PAHT) One High Temp 6" Pigtail RF coil
- (2MC2PAHT) Two High Temp 6" Pigtail RF coils
- (1HTM) High Temperature Magnetic Coil
- (2HTM) Two High Temperature Magnetic Coils
- (1ISM) Intrinsically Safe Mag Coil
- (2ISM) Two Intrinsically Safe Mag Coils
- (1ISM-ATEX) One ISM ATEX coil
- (2ISM-ATEX) Two ISM ATEX coils
- _(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. Riser and Explosion-Proof Coil Enclosures

- (X) 1" MNPT riser, welded to body. Required for all types of enclosures.
- (X-ATEX) 3/4" MNPT riser, welded to the body.
- (XE2) 1" MNPT riser with E2 enclosure. (See Chart)*
- (X-ATEX)E2 3/4" MNPT riser with E2 enclosure. (See Chart)*
- (X8S-ATEX) 8" Long S/S 3/4" MNPT riser. (For fluid temperatures below -40°F (-40°C) or above +140°F + 60°C)
- (X8S) 8" Long S/S 1" MNPT riser. (For fluid temperatures below -40°F (-40°C) or above +140°F + 60°C)

***E2 EXPLOSION-PROOF/FLAME-PROOF ENCLOSURE WITH 3/4" FNPT MOUNT AND 3/4" CABLE ENTRY RATINGS:**

FM: CLASS I, DIV. 1, GR. ABCD, CLASS II/III, DIV. 1, GR. EFG, TYPE 4X

CSA: CLASS I, DIV. 1, GR. ABCD, CLASS II, DIV. 1, GR. EFG, CLASS III, TYPE 4X EX D IIC, CLASS I, ZONE 1, IP 66

ATEX: EX II 2GD Ex d tD IIC, IP66/68

IEC: EX D IIC IP68

I. Pressure Rating of Housing

- () Enter Class of Customer's Existing Mating Flange. (Example: 150)

J. Special Features

- (SW) Short Wafer
- (CE) CE Mark - Required for Europe
- (PED-CE) PED Mark- Required for Europe
- (SEP-CE) Sound Engineering Practice
- (SP) Any special features that are not covered in the model number, use -SP and a written description
- (EXP) CSA Explosion-Proof Certification (See Chart)**
- (X) No Special Features

** CLASS I, DIV. 1, GR. ABCD; CLASS I, DIV. 2, GR. ABCD; CLASS II, DIV. 1, GROUPS EFG
CANADA: CLASS I, ZONE 1 & 2, Ex d II C
USA: CLASS I, ZONE 1 & 2, AEx d II C

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