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OUTSTANDING FEATURES

TURBINE FLOWMETERS BY

Perfecting Measurement TM

- Cost effective design eliminates flange on meter.
- Outstanding accuracy.

HOFF

- 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.

GAS SIZE SELECTOR CHART FOR STANDARD HO SERIES TURBINE FLOWMETERS

BEST TURBINE

IN THE INDUSTRY

5-YEAR WARRANTY

Flowmeter Size	End Fitting Size	Based on a Gas	le Range** Density of 1#/Ft ³	Based on a Gas	ble Range** Density of .25#/Ft ³
Diameter (inches)	Diameter (inches)	Magnetic Coil (ACF/M)	MCP Coil (ACF/M)	Magnetic Coil (ACF/M)	MCP Coil (ACF/M)
5/8	2	N/A	.5-10	N/A	1-10
3/4	3/4	N/A	.6 – 20	N/A	1.2 – 20
1	1	2.5 – 43	.8 – 43	5 – 43	1.6 - 43
1-1/4	1-1/4	3.5 - 100	1.25 - 100	7 - 100	2.5 - 100
1-1/2	1-1/2	5.0 - 120	1.75 – 120	10 - 120	3.5 – 120
2	2	10 - 200	3.5 – 200	20 - 200	7 – 200
2-1/2	2-1/2	15 - 500	5 - 500	30 - 500	10 - 500
3	3	20 - 600	7.5 - 600	40 - 600	15 - 600
4	4	30 - 1100	N/A	60 - 1100	N/A
5	5	40 - 1800	N/A	80 - 1800	N/A
6	6	50 - 3000	N/A	100 - 3000	N/A
8	8A	100 - 4800	N/A	200 - 4800	N/A

This chart is for quick reference only and not for final size. Calculate using actual service conditions. Flow ranges shown for 15-degree blade angle only. Four standard blade angles available. **Lower limit of flow range is dependent on user's operating density.

SPECIFICATIONS

Overrange: 150% of maximum flow (intermittently).

Linearity: ±1% of reading typical.

Repeatability: ±.25% of reading typical.

Available Turn Down Range: 10:1 Typical.

Optional Mounting Hardware includes:

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

Available Temperature Range: -450°F to +300°F. Dependent upon bearing/coil selection.

Pressure Drop Characteristics: 1 to 3 PSI at maximum linear flow rate.

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



HO SERIES WAFER

Turbine Flowmeters

Product Bulletin HO-SWG-100J

for Gas Service



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GAS WAFER TURBINE FLOWMETER MODEL NUMBERING SYSTEM

MODEL HO	(<u>A</u>) X (<u>B</u>) - (<u>-</u>	<u>C) - (D) -</u>	(<u>E/F/G</u>) - (<u>H</u>) - (<u>I</u>)					
A. End Fitting Size								
B. Flowmeter Size								
C. Blade Angle (See Note at bottom of page)*								
D. Bearing Type								
(BP)Self-lubricating, ceramic hybrid ball bearings. Sizes 5/8" through 1".(CB)Self-lubricating, ceramic hybrid ball bearings. Sizes 1-1/4" and up.								
E. Pickup Coils								
(1M)One Magnetic Coil(2M)Two Magnetic Coils(1MC3PA)One RF Coil(2MC3PA)Two RF Coils(1ISM)Intrinsically Safe Mag Coil(2ISM)Two Intrinsically Safe Mag Coils(1ISM-ATEX)One ISM ATEX magnetic coil(2ISM-ATEX)TWO ISM ATEX magnetic 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 number when using ATEX enclosure mounted on meter								
F. Coil Spacing, Mechanical Degrees Apart								
()	() Factory Assigned. Spacing required when meter has two pickup coils. If second coil not required skip option (F).							
G. Riser and E	Explosion-Proof Coil Enclosures							
(X) (X-ATEX) (XE2) (X-ATEX)E2 (X8S) (X8S-ATEX)	1" MNPT riser, welded to body. Required for all types of e 3/4" MNPT riser, welded to the body. 1" MNPT riser with E2 enclosure. (See Chart) ** 3/4" MNPT riser with E2 enclosure. (See Chart) ** 8" Long S/S 1" MNPT riser. (For fluid temperatures below -40°F (-40°C) or above + 140°F + 60°C) 8" Long S/S 3/4" MNPT riser. (For fluid temperatures below -40°F (-40°C) or above + 140°F + 60°C)	E-PROOF ENCLOSURE WITH ABLE ENTRY RATINGS: ABCD, CLASS II/III, DIV. 1, GR, ABCD, CLASS II, DIV. 1, GR. EFG, X D IIC, CLASS I, ZONE 1, IP 66 IP66/68						
H. End Fitting	Types	IEC: EX D IIC IP68						
() Enter Class of Customer's Existing Mating Flange. (Example: 150)								
I. Special Features								
(SW) (CE) (PED-CE) (SEP-CE) (SP) (EXP) (X)	Short Wafer CE Mark - Required for Europe PED Mark - Required for Europe Sound engineering practice Any special features that are not covered in the mode CSA Explosion-Proof Certification (See Chart)*** No special features	ABCD; CANAD USA:	CLASS I, DIV. 1, GR. ABCD; CLASS I, DIV. 2, GR. CLASS II, DIV. 1, GROUPS EFG DA: CLASS I, ZONE 1 & 2, EX d II C CLASS I, ZONE 1 & 2, AEX d II C CLASS I, ZONE 1 & 2, AEX d II C					
*Note: Blade Angle determined by density, assigned by factory or use of gas sizing program.								
HOFFER FLOW CONTROLS, INC. Hoffer Flow Controls Quality Management System								
The specifications specifications show	Y Kitty Hawk Lane, P. O. Box 2145, Elizabeth City, NC 27906-2 Ho28-4584 252-331-1997 FAX 252-331-2 FAX 252-331-2 w.hofferflow.com email: Info@hofferflow.com contained herein are subject to change without notice and any user or lid verify from the manufacturer that the specifications are currently in or functorial and responsibility for the use of specifications which may or the specificating which may or the specifications which may or the specificating	Certified to ISO 9001:2015 Precisely Right.						

The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacturer that the specifications 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.