TURBINE FLOWMETERS BY

Perfecting Measurement[™]

Grooved Turbine Flowmeters

Product Bulletin HO-GF-105B

TECHNICAL DATA SHEET

Grooved Turbine Flowmeters

for Water, Water/Sand, Liquid Carbon Dioxide and Cement Slurry.



Flow Range and Model Information						Technical Data				
Flowmeter Size (Inches) Victaulic® Size (Inches)				(Refer to Note 1) Linear Flow Range (US GPM)		Nominal Pulses/Gallon 'K' Factor	Nominal Max. Frequency (Hz)	Length (inches)	Working I (PS Victaulic	I)
—				Min.	Max.				Type 75	Type 77
Model HO	1	Х	1	-4	-60	670	670	4.0	500	1000
Model HO	1 ½	Х	1 ½	-8	-130	220	500	6.0	500	1000
Model HO	2	Х	2	-15	-225	126	500	6.0	500	1000
Model HO	2 1/2	Х	2 1/2	-25	-400	75	500	10.0	500	1000
Model HO	3	Х	3	-40	-650	45	500	12.5	500	1000
Model HO	4	Х	4	-75	-1250	20	400	12.0	400	1000
Model HO	6	Х	6	-200	-2900	8	400	12.0	400	1000
Model HO	8	Х	8	-330	-5200	3	250	12.0	350	800
Model HO	10	Х	10A	-650	-8000	1.11	150	16.0	N/A	800
Model HO	12	Х	12A	-1400	-12000	.69	140	22.0	N/A	800

FOR COMPLETE MODEL NUMBER INFORMATION, PLEASE SEE REVERSE.

Flow Range (Note 1)

Temperature Range:

Ranges shown are standard ranges — other ranges are available. Contact Hoffer Flow Controls Applications Group.

Bearing Selection:Hybrid Ceramic, Self-lubricating shielded ball bearings must be used on CO2, may be used on H2O and never on H2O/Sand or CS. Hard Carbon Composite Sleeve bearings. For use on H2O only.
Tungsten Carbide Sleeve bearings must be used on H2O/Sand and CS, may be used on H2O and never used on CO2.

Please Note: Flowmeter service life is reduced when flows contain particulate.

GENERAL SPECIFICATIONS

Linearity: $\pm 0.5\%$ of reading ($\pm 0.25\%$ typical)

Pressure Drop Characteristics:

over tabulated linear flow range.

-450°F to +450°F (Standard).

Request graphical data.

Repeatability: $\pm 0.1\%$ over tabulated useable range. Overrange: 150% of maximum flow (intermittently).

Construction: All stainless steel.

Flowmeters are calibrated and supplied with "K" Factor Tag.

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GROOVED TURBINE FLOWMETER MODEL NUMBERING SYSTEM

MODEL HO	(A) X (B) - (C) - (D) - (E) - (F/G/H) - (I) - (J) - (K									
A. End Fitting	Size									
B. Flowmeter	Size									
C. Minimum O	perating Flow									
D. Maximum C	perating Flow									
E. Bearing Typ	e									
(BP) (CB) (C) (T)	Self-Lubricating, Ceramic Hybrid Ball Bearing for 1" and smaller. Self-Lubricating, Ceramic Hybrid Ball Bearing for 1-1/2" and larger. Hard Carbon Composite Sleeve Bearing Tungsten Carbide Sleeve Bearing									
F. Pickup Coils										
(1M) (2M) (1MC3PA) (2MC3PA) (1MC2PAHT) (2MC2PAHT) (1HTM) (2HTM) (1ISM) (1ISM-ATEX) (2ISM) (2ISM-ATEX) _(RP) _(P)	One Magnetic Coil Two Magnetic Coils One RF Coil Two RF Coils One High Temp 6" Pigtail RF coil Two High Temp 6" Pigtail RF coils High Temperature Magnetic Coil (+450 to +850°F) Two High Temperature Magnetic Coils Intrinsically Safe Mag Coil One ISM ATEX Coil Two Ism ATEX Coils Two Ism ATEX Coils 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) Pigtail or Flying Leads, Add-P and the Length of leads after any coil except the high temperature coils.									
G. Coil Spacing	g, Mechanical Degrees Apart									
()	Factory Assigned. Spacing required when meter has two pickup coils.									
H. Explosion-Proof Coil Enclosure (Rated Class I, Groups C & D)										
(X) (X3/O) (X3H/O) (X3B/O) (X4H/O) (3B/O) (X3B/O-ATEX) (XD-AD) (4/O) (4B/O) (X8S)	1" MNPT riser, welded to body. Required for all types of enclosures. 1" riser with enclosure and without signal conditioner. 1" riser with enclosure and dome cover for Style 1 signal conditioner. Same as (X3/0) with BASEEFA, FM and CENELEC-EExd approvals. 1" riser with dome cover for ACC22 and ACC96. 1" riser with dome cover for Style 1 signal conditioners to meet Group B. 3/4" MNPT coil riser with ATEX-approved enclosure. 3/4" MNPT coil riser with IEC, ATEX, FM, CSA, IP66, NEMA 4X enclosure. 1" riser with flat cover for Style 2 signal conditioners to meet Groups C & D. 1" riser with dome cover for Style 2 signal conditioners to meet Group B. Add 8S after X riser for a 8" long S/S riser for hot and cold media applications.									
I. End Fitting	ypes									
(VIC)	Grooved End Fittings									
J. Service Type										
(L) (S) (SP)	Clean Liquid Slurry Special									
K. Special Features										

(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



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.

