

TECHNICAL DATA SHEET



3" Flowmeter Style

**Wing Nut High Pressure (15,000 PSI)
 Turbine Flowmeters for Liquid Service**
 (*10,000 PSIG MAWP for Sour Gas Service— consult factory)

(For Water, Liquid Carbon Dioxide and Cement Slurry*)



1"-2" Flowmeter Style

Model Number										Technical Data			
Flowmeter Size (Inches)				(Ref. Note 1) Linear Flow Range (US GPM)	(Ref. Note 2) Bearing Types	(Refer Note 3 for more options) Standard Magnetic Pickup Coil	Ex-Proof Coil Enclosure	Wing Nut End Fitting - Savage (-S) FMC (-F) or FMC Sour Gas (-FSG) Nuts & Segments	Service Types	Nominal Pulses/ Gallon 'K' Factor	Nominal Max. Freq. (Hz)	Length (inches)	
Wing Nut Size (Inches)													Min.
Model HO	2	X	1A	-4 -8.4	-60 -84	-BP or -T	-1MX	-E2 -X	-1502-F -1502-FSG	-H20 -CO2 -C/S	670 650	670 910	7.62
Model HO	2	X	1 1/2 A	-5 -8	-175 -130	-CB or -T	-1MX	-E2 -X	-1502-F -1502-FSG	-H20 -CO2 -C/S	240 240	700 520	7.62
Model HO	2	X	2A	-42 -65	-420 -650	-CB or -T	-1MX	-E2 -X	-1502-F -1502-FSG	-H20 -CO2 -C/S	65 50	455 540	7.62
Model HO	3	X	3	-84 -105	-840 -1050	-CB or -T	-1MX	-E2 -X	-1502-S -1502-F -1502-FSG	-H20 -CO2 -C/S	55 50	170 875	11.38

FLOW RANGE (Note 1) Ranges are standard ranges — other ranges are available. Contact Hoffer Flow Controls Engineering.

BEARING TYPE (Note 2)
 (-BP) Hybrid ceramic for 1", self-lubricating shielded ball bearings can be used on CO2 and H2O and never on Cement/Sand Slurry.
 (-CB) Hybrid ceramic, self-lubricating shielded ball bearings can be used on CO2 and H2O and never on Cement/Sand Slurry.
 (-T) Tungsten Carbide sleeve bearings can be used on H2O and C/S and never on Liquid CO2.

PICKUP COILS (Note 3)
 (-1MX) One magnetic pickup coil.
Optional
 (-2MX180) Two magnetic pickup coils @ 180°.
 (-1ISM)X Intrinsically Safe magnetic coil.
 (-2ISM)X Two Intrinsically Safe magnetic coils.
 (-1ISM-ATEX)X One ISM ATEX coil.
 (-2ISM-ATEX)X Two ISM ATEX coils.
 -(RPM__)X Redi-Pulse magnetic pickup coil providing a user specified conditioned pulse output. See Redi-Pulse Technical Data Sheet for available options.
 -(DMX__)X Intrinsically Safe Redi-Pulse magnetic pickup coil. See Intrinsically Safe Redi-Pulse Technical Data Sheet for available options.

RISER & EXPLOSION-PROOF COIL ENCLOSURES
 (-E2) 1" MNPT riser with E2 coil enclosure. (See chart)**
 (-X) None

SPECIAL FEATURES (add at end of Model No.)
 (-CE) CE mark required for Europe.
 (BW) Monel 400 internals/Super duplex rotor
 (SG) Sour Gas Service
 (-SP) Special features that are not covered in the Model number, use -SP and a written description.
 (-X) No Special Features.

****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

FLOWMETERS ARE SUPPLIED WITH A 10-POINT CALIBRATION AND WITH 'K' FACTOR TAG ATTACHED TO METER.

*FLOWMETER LIFE IS LIMITED IN CEMENT/SAND SLURRY. CUSTOMER MUST SPECIFY MAXIMUM PARTICULATE SIZE ON CEMENT/SAND SLURRY APPLICATIONS.

GENERAL SPECIFICATIONS:

Linearity: $\pm 0.5\%$ of reading ($\pm 0.25\%$ typical) over tabulated linear flow range.

Repeatability: $\pm 0.1\%$ over tabulated useable range.

Temperature Range: -450° to $+450^{\circ}$ F (Standard).

Pressure Drop Characteristics: Request graphical data.

Overrange: 150% of maximum flow (intermittently).

Construction: Housing - 1"-2"- A286 alloy steel. 3"- 4130 high chrome alloy steel.
Internals - All stainless steel (except "T" bearings).

Wing Nut Calibrated Spare Internal Kits						
Flowmeter Size (Inches)		Linear Flow Range (US GPM)		Bearing Type		Service Types
		Min.	Max.			
Part Number Kit	HO1	-4 -8.4	-60 -84	-BP -T	-INTERNALS-W	-H2O -CO2 -C/S
Part Number Kit	HO1½	-5 -8	-175 -130	-CB -T	-INTERNALS-W	-H2O -CO2 -C/S
Part Number Kit (Note 1)	HO2	-42 -65	-420 -650	-CB -T	-INTERNALS-W	-H2O -CO2 -C/S
Part Number Kit (Note 2)	HO3	-84 -105	-840 -1050	-CB -T	-INTERNALS-W	-H2O -CO2 -C/S
Note: Internal Kits and rotors are calibrated and supplied with 'K' factor.						

Note 1: Retainer Ring RR181 supplied with 2" kit.

Note 2: Retainer Ring RR262 supplied with 3" kit.

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Precisely Right.