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## TURBINE FLOWMETERS BY HOFFER Perfecting Measurement ™

Wing Nut High Pressure Turbine Flowmeters For Liquid Service Product Bulletin HO-WF-1080

## TECHNICAL DATA SHEET

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\*)

Model Number						Technical Data			
Flowmeter Size (Inches) Wing Nut Size (Inches)	(Ref. Note 1) Linear Flow Range (US GPM)	(Ref. Note 2) Bearing Types	(Refer Note 3 for more op- tions) Standard Magnetic	Ex-Proof Coil Enclosure	Wing Nut End Fitting - FMC (-F) or FMC sour Gas (-FSG) Nuts &Segments	Service Types	Nominal Pulses/ Gallon 'K' Factor	Nominal Max. Freq. (Hz)	Length (inches)
<del>\</del>	Min. Max.		Pickup Coil						
Model 2 X 1A HO	-4 -60 -8.4 -84	-BP or -T	-1MX	-E2 -X	-1502-F -1502-FSG	-H20 -CO2 -C/S	670 650	670 910	7.62
Model 2 X 1½A HO	-5 -175 -8 -130	-CB or -T	-1MX	-E2 -X	-1502-F -1502-FSG	-H20 -CO2 -C/S	240 240	700 520	7.62
Model 2 X 2A HO	-42 -420 -65 -650	-CB or -T	-1MX	-E2 -X	-1502-F -1502-FSG	-H20 -CO2 -C/S	65 50	455 540	7.62
Model 3 X 3A HO	-84 -840 -105 -1050	-CB or -T	-1MX	-E2 -X	-1502-F -1502-FSG	-H20 -CO2 -C/S	55 50	170 875	10.00
PICKUP COILS (Note 3) Optiona RISER & EXPLOSION-PROOF	(-T) Tungster (-1MX) One m. (-2MX180) Tw (-1ISM)X Intr (-2ISM)X Two (-1ISM-ATEX)X (-2ISM-ATEX)X (RPMX	n Carbide sleev agnetic pickup ro magnetic pic insically Safe ro Intrinsically S One ISM ATE Two ISM ATE Redi-Pulse m Sheet for ava	ve bearings can be coil. ckup coils @ 180° nagnetic coil. afe magnetic coils EX coil. EX coils. agnetic pickup coil ilable options. afe Redi-Pulse mag	used on H2O and providing a user s	e used on CO2 and H2O a I C/S and never on Liquid C specified conditioned pulse See Intrinsically Safe Red	CO2. e output. See	Redi-Pulse 1	echnical Da	ata
COIL ENCLOSURES SPECIAL FEATURES (add at	(-X) None	riser with E2	coil enclosure. (Se	ee chart)**	**E2 EXPLOSION-PROOF/I MOUNT AND 3/4" CABLE	ENTRY RATI	NGS:		
	(-CE) CE mark (-EX) Certified (-C-EX) Certifie Remote Electroni (-BW) Monel 40 (-SG) Sour Gas (-SP) Special f	Explosion-prod d Explosion-pro cs*** D0 internals/Su s Service eatures that an	of system *** oof system (Non-C	he	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 CLASS   ***For Certified Systems, please contact factory. ***				
*FLOWMETER LIFE IS LIMITED		al Features.							



## **GENERAL SPECIFICATIONS:**

Linearity:	$\pm0.5\%$ of reading ( $\pm0.25\%$ typical) over tabulated linear flow range.
Repeatability:	$\pm0.1\%$ over tabulated useable range.
Temperature Range:	-450° to +450°F (Standard).
Pressure Drop Characteristics:	Request graphical data.
Overrange:	150% of maximum flow (intermittently).
Overrange: Construction:	

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

Wing Nut Calibrated Spare Internal Kits									
Flowmeter Size (Inch	Linear Flow Range (US GPM)		Bearing Type		Service Types				
	ļ	Min.	Max.						
Part Number Kit	HO1	-4 -8.4	-60 -84	-BP -T	-INTERNALS-W	-H2O -CO2 -C/S			
Part Number Kit	HO1 ½	-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)	НОЗ	-84 -105	-840 -1050	-CB -T	-INTERNALS-W	-H2O -CO2 -C/S			
Note: Internal Kits and rotors are water calibrated and supplied with 'K' factor.									

Note 1: Retainer Ring RR181 supplied with 2" kit. Note 2: Retainer Ring RR262 supplied with 3" kit.



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.

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Precisely Right.

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