

TURBINE FLOWMETERS BY **HOFFER**

The Turbine Flowmeter Company

Wing Nut High Pressure Turbine Flowmeters For *Gas* Service

Product Bulletin HO-WG-103B

TECHNICAL DATA SHEET



Wing Nut High Pressure (15,000 PSI) Turbine Flowmeters for Gas Service

(typically used for oil well fracturing
with nitrogen gas)

Model Number								Technical Data		
Flowmeter Size (Inches) Wing Nut Size (Inches)				(Refer Note 1) Blade Angle	(Refer Note 2) Bearing Type	(Refer Note 3) Standard Magnetic	Wing Nut Type End Fitting	Nominal Pulses/ACF 'K'	Nominal Max. Freq. (Hz)	Length (inches)
Model HO	2	X	1	-15 -20 -25	-CB	-1MX	-1502	2540 3550 4450	340 470 600	12
Model HO	2	X	1½	-15 -20 -25	-CB	-1MX	-1502	950 1255 1650	270 360 485	12
Model HO	2	X	2	-15 -20 -25	-CB	-1MX	-1502	480 655 920	240 330 450	12
Model HO	3	X	3	-15 -20 -25	-CB	-1MX	-1502	285 320 365	480 550 625	11.38

BLADE ANGLE (Note 1)

Blade angle determined by density; assigned by factory. Contact Hoffer Flow Controls Engineering.

BEARING TYPE (Note 2)

(—CB) Hybrid ceramic, self-lubricating shielded ball bearings.

PICKUP COILS (Note 3)
Optional

(—1MX) One magnetic pickup coil.

(—2MX180) Two magnetic pickup coils @ 180°.

(—(RPM_ _ _)) Redi-Pulse magnetic pickup coil providing a user specified conditioned pulse output. See Redi-Pulse Technical Data Sheet for available options.

(—(DMX_ _ _)) Intrinsically Safe Red-Pulse magnetic pickup coil. See Intrinsically Safe Redi-Pulse Technical Data Sheet for available options.

(—3/0) Enclosure in place of the standard carrying handle.

SPECIAL FEATURES (add at end of Model No.) (—CE) CE Mark required for Europe.

(—PED-CE) PED mark required for Europe.

FLOWMETERS ARE CALIBRATED @ 1 CENTISTOKE AND SUPPLIED WITH CALCULATED K-FACTOR FOR GAS.

GENERAL SPECIFICATIONS:

Linearity: $\pm 1\%$ of reading over 10:1 flow range.
(typically).

Repeatability: $\pm 0.25\%$ over tabulated useable range.

Temperature Range: -450° to $+350^{\circ}\text{F}$ (Standard).

Pressure Drop

Characteristics: Request graphical data.

Overrange: 150% of maximum flow (intermittently).

Construction: Housing - 4130 high chrome alloy steel.
Internals - All stainless steel.

Wing Nut Calibrated Spare Internal Kits				
Flowmeter Size (Inches) 		(Refer Note 1) Blade Angle	(Refer Note 2) Bearing Type	
Part Number Kit (Note 5)	1	-15 -20 -25 -30	-CB	-internals-W
Part Number Kit	1½	-15 -20 -25	-CB	-internals-W
Part Number Kit (Note 6)	2	-15 -20 -25	-CB	-internals-W
Part Number Kit (Note 7)	3	-15 -20 -25	-CB	-internals-W

Note 5: Kit 1 internals for Model HO 2 X 1.

Note 6: Retainer Ring RR181 supplied with 2" kit.

Note 7: Retainer Ring RR262 supplied with 3" kit.

Note: Internal Kits and rotors are calibrated @ 1 centistoke and supplied with calculated K-Factor for gas.

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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.



ISO 9001
Registered Company