TURBINE FLOWMETERS BY
HOFFER
The Turbine Flowmeter Company

Wing Nut High Pressure Turbine Flowmeters For Liquid Service

Product Bulletin HO-WF-108D

TECHNICAL DATA SHEET

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

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

Model Number										Technical Data		
Flowmeter Size (Inches) / Wing Nut Size (Inches)				(Refer Note 1) Linear Flow Range (US GPM) Min.	(Refer Note 1) Linear Flow Range (US GPM) Max.	(Refer Note 2) Bearing Types	(Refer Note 3 for more options) Standard Magnetic Pickup Coil	Wing Nut End Fitting - Savage (-S) or FMC (-F) Nuts & Segments	Service Types	Nominal Pulses/Gallon 'K' Factor	Nominal Max. Freq. (Hz)	Length (inches)
Model HO	2	X	1	-4 -8.4	-60 -84	-CB -T	-1MX	-1502-S -1502-F	-H20 -CO2 -CS	670 650	670 910	12
Model HO	2	X	1½	-5 -8	-175 -130	-CB -T	-1MX	-1502-S -1502-F	-H20 -CO2 -CS	240 240	700 520	12
Model HO	2	X	2	-42 -65	-420 -650	-CB -T	-1MX	-1502-S -1502-F	-H20 -CO2 -CS	65 50	455 540	12
Model HO	3	X	3	-84 -105	-840 -1050	-CB -T	-1MX	-1502-S -1502-F	-H20 -CO2 -CS	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)
(—CB) Hybrid ceramic, self-lubricating shielded ball bearings can be used on CO2 and H2O and never on Cement/Sand Slurry. Specify service when ordering.
(—T) Tungsten Carbide sleeve bearings can be used on H2O and CS and never on Liquid CO2.

PICKUP COILS (Note 3)
Optional
(—1MX) One magnetic pickup coil.
(—2MX180) Two magnetic pickup coils @ 180°.
(—1ISM)X Intrinsically Safe magnetic coil.
(—2ISM)X Two Intrinsically Safe magnetic coils.
(—1ISMNE) One ISM ATEX coil with a standard 1" coil riser less enclosure.
(—2ISMNE) Two ISM ATEX coils with a standard 1" coil riser less enclosure.
—_(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.
(—3/0) 3/0 Enclosure.
(—3B/0) 3/0 Enclosure with dome cover for style 1 signal conditioner to meet group B.

Special Features (add at end of Model No.)
(—CE) CE mark required for Europe.
(—PED-CE) PED mark required for Europe.

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:	±0.5% of reading (±0.25% typical) over tabulated linear flow range.
Repeatability:	±0.1% over tabulated useable range.
Temperature Range:	-450° to +450°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 (except "T" bearings).

Wing Nut Calibrated Spare Internal Kits

Flowmeter Size (Inches) →		(Refer Note 1) Linear Flow Range (US GPM) Min.	(Refer Note 1) Linear Flow Range (US GPM) Max.	(Refer Note 2) Bearing Type		Service Types
Part Number Kit (Note 5)	HO1	-4 -8.4	-60 -84	-CB -T	-internals-W	-H2O -CO2 -CS
Part Number Kit	HO1½	-5 -8	-175 -130	-CB -T	-internals-W	-H2O -CO2 -CS
Part Number Kit (Note 6)	HO2	-42 -65	-420 -650	-CB -T	-internals-W	-H2O -CO2 -CS
Part Number Kit (Note 7)	HO3	-84 -105	-840 -1050	-CB -T	-internals-W	-H2O -CO2 -CS

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 and supplied with 'K' factor.

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The quality system covering the design, manufacture and testing of our products is certified to International Standard ISO 9001.

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Registered Company