

FLANGED TURBINE FLOW METER (HM...F SERIES)

Technical Specifications

MULTIPLE FLOW RANGES

.008 to 12,000 GPM (gal/min)

PRESSURE

Working pressure is flange dependent

ACCURACY

± 0.5% of reading or better

REPEATABILITY

± 0.1%

TURN DOWN RATIO

10:1

TEMPERATURE

Fluid temperature of -459° to 662°F

FILTRATION

300 microns

END CONNECTIONS

Equipped with flanges as per DIN or ANSI

MATERIALS OF CONSTRUCTION

- Body & Rotor Support: 316 Stainless Steel
- Rotor: Stainless Steel
- Bearings: Tungsten Carbide



Benefits:

FAST RESPONSE TIME & HIGH RESOLUTION

The Turbine wheel's low moment of inertia allows a fast acceleration from standstill up to full number of revolutions within 5 to 50 msec. For that reason, dynamic measurements can be made. The resolution can amount to as much as 35,000 pulses per liter.

WIDE TEMPERATURE RANGE

Standard turbine: -4 up to 248°F
Special models for cryogenic liquids: -459°F
Special models w/ hi-temp pickups: up to 662°F.

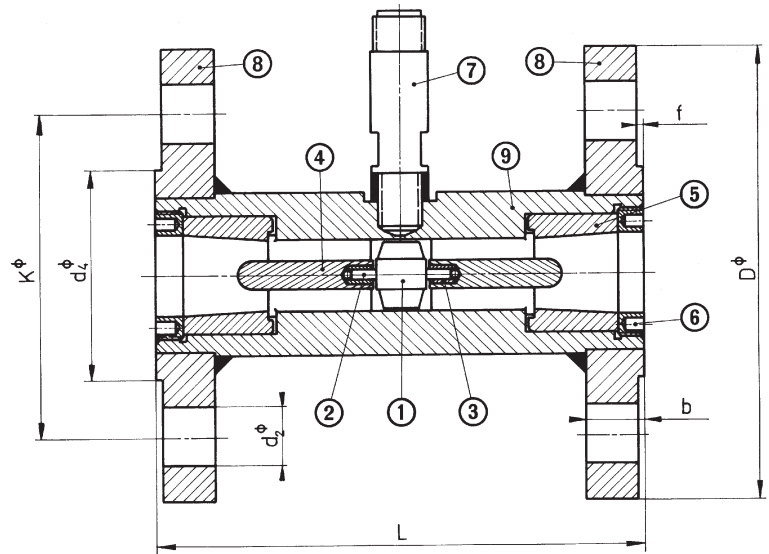
LOW CONTAMINATION RISK

The spacing of the turbine wheel and bearing mount is wide enough to protect against particles in fluid jamming the turbine wheel. And the Twist of flow in this area has a self-cleaning effect for the bearing.

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Meter Specifications

Part Number	Range (gal/min)	K-Factor * (Pulses/ ltr)		Frequency (0-max. Hz)	
HM 9 EP	0.008 to 0.2	139,000		1970	
HM 3/1.5	0.08 to 0.4	32,000	32,500	1,000	1,000
HM 3/4	0.13 to 1.06	24,000	19,000	1,250	1,250
HM 5/6	0.2 to 1.6	17,800	17,800	1,740	1,780
HM 5/10	0.3 to 2.6	11,000	11,000	1,750	1,750
HM 7	0.5 to 5	5,200	5,200	1,800	1,800
HM 9	0.9 to 9	1,900	4,200	1,080	2,200
HM 11	1.6 to 16	1,300	2,730	1,350	2,700
HM 13	2.2 to 22	900	1,900	1,300	2,600
HM 17	3.2 to 32	380	840	800	1,650
HM 19	4 to 40	310	650	925	1,600
HM 22	5.3 to 53	217	450	800	1,600
HM 24	6.6 to 66	170	362	800	2,000
HM 28	7.9 to 95	155	320	960	2,000
HM 30	9.2 to 106	130	270	860	1,850
HM 36	10.6 to 132	60	135	600	1,200
HM 40	13.2 to 198	105	110	1,320	1,400
HM 50	18.5 to 317	65		1,400	
HM 65	26.4 to 528	25		850	
HM 80	42.8 to 845	11		615	
HM 100	66 to 1320	7		560	
Pulses/ m³					
HM 125	79 to 1744	4500		495	
HM 150	94 to 2642	3400		420	
HM 200	114 to 3540	415		134	
HM 250	219 to 6604	266		150	
HM 300	423 to 12,680	135		110	



1...4=Measuring Kit

- 1 = turbine wheel
- 2 = shaft
- 3 = bearing bush
- 4 = flow rectifier

- 5 = inlet cone
- 6 = ring nut
- 7 = pickup
- 8 = flange
- 9 = body

* The wheel's axial pitch is halved for viscosities from 8 mm²/s onwards, therefore pulse rates will double for dia 9 up to 36. All K-Factors and output signals are average values. Exact specifications can be taken from individual calibration records.

Sensor Options*

Model	Sensor Type	Temp (°F)
VTEK/P	Pulse output sensor	-150 to 325
VTEK/P-EX	Pulse output sensor	-40 to 185

* For additional sensors available, contact factory.

Contact Sabre Turbine Meters:

toll-free: 800-850-6110

fax: 262-884-9810

email: sabreinfo@aw-lake.com

website: www.sabreflow.com