

# FLANGED TURBINE FLOW METER - HM-F SERIES



## TECHNICAL SPECIFICATIONS

**Measuring Accuracy**  
± 1.0% of reading or better

**Repeatability**  
± 0.1%

**Flow Measuring Range**  
.008 to 12,000 GPM (gal/min)

**Turn Down Ratio**  
10:1

**Maximum Operating Pressure**  
Working pressure is flange dependent

**Maximum Operating Temperature**  
Fluid temperature of -384° to 662°F

**Filtration Requirement**  
300 microns

**End Connections**  
Equipped with flanges as per DIN or ANSI

## 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 sec. 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.

## MATERIALS OF CONSTRUCTION

<b>Body &amp; Rotor Support</b>	316 Stainless Steel Ti
<b>Rotor</b>	316L Stainless Steel
<b>Bearings</b>	Tungsten Carbide

## SENSOR OPTIONS

Model	Sensor Type	Temp (°F)
VTEK/P	Pulse output sensor	-150 to 325
VTEK/P -EX	Pulse output sensor	-40 to 185
RT-30SD	Local flow rate transmitter	-40 to 140
RT-30EX	Hazardous area rated local flow rate transmitter	

\* For additional sensors available, contact factory.

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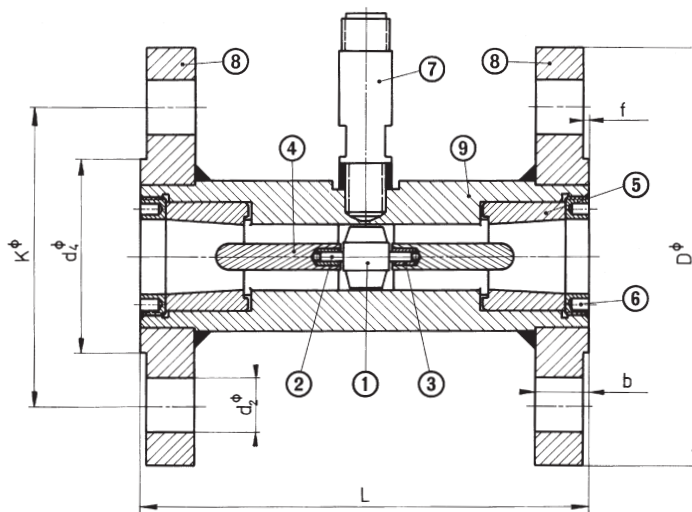
## METER SPECIFICATIONS

Part Number	Range (gal/min)	K-Factor (Pulses/ Gal)	Frequency (0-max. Hz)
HM 9 EP	0.008 to 0.2	36,723	1970
HM 3/1.5	0.08 to 0.4	8,454	1,000 1,000
HM 3/4	0.13 to 1.06	6,340	1,250 1,250
HM 5/6	0.2 to 1.6	4,703	1,740 1,780
HM 5/10	0.3 to 2.6	2,906	1,750 1,750
HM 7	0.5 to 5	1,374	1,800 1,800
HM 9	0.9 to 9	502	1,080 2,200
HM 11	1.6 to 16	343	1,350 2,700
HM 13	2.2 to 22	238	1,300 2,600
HM 17	3.2 to 32	100	800 1,650
HM 19	4 to 40	82	925 1,600
HM 22	5.3 to 53	57	800 1,600
HM 24	6.6 to 66	45	800 2,000
HM 28	7.9 to 95	41	960 2,000
HM 30	9.2 to 106	34	860 1,850
HM 36	10.6 to 132	16	600 1,200
HM 40	13.2 to 198	28	1,320 1,400
HM 50	18.5 to 317	17	1,400
HM 65	26.4 to 528	6	850
HM 80	42.8 to 845	3	615
HM 100	66 to 1320	2	560

Pulses/ m3			
Part Number	Range (gal/min)	K-Factor (Pulses/Gal)	Frequency (0-max. Hz)
HM 125	79 to 1744	1189	495
HM 150	94 to 2642	898	420
HM 200	114 to 3540	9	134
HM 250	219 to 6604	70	150
HM 300	423 to 12,680	36	110



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- 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

