

HM-F SERIES — FLANGED TURBINE FLOW METER

Ideal for low viscosity fluids flowing under extremely high pressure, such as hydraulic and fuel systems and offshore chemical injection systems.



TECHNICAL SPECIFICATIONS

Measuring Accuracy
± 1.0% of reading or better

Repeatability
± 0.05%

Flow Measuring Range
.26 to 2,641 GPM (gal/min)

Turn Down Ratio
10:1

Maximum Operating Pressure
Working pressure is flange dependent

Medium Temperature Range
Fluid temperature of -76°F 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 ms. For that reason, dynamic measurements can be made. The resolution can amount to as much as 3,000 pulses per liter.

Wide Temperature Range

Standard turbine: -4 up to 248°F
Special models for cryogenic liquids: -76°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

Body	316 Stainless Steel Ti / 316L
Rotor Support	316 Stainless Steel Ti
Rotor	429 Stainless Steel / 329
Bearings	Tungsten Carbide with Nickel binder

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.