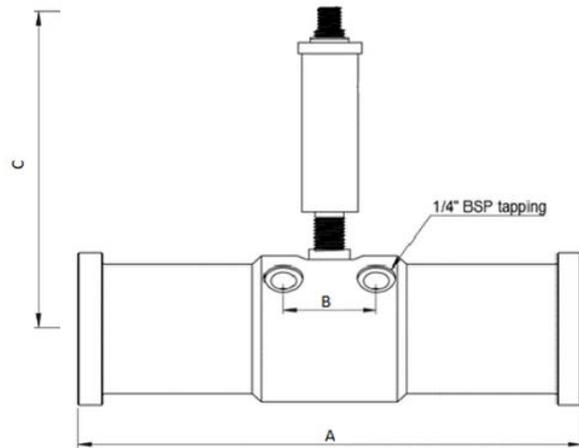
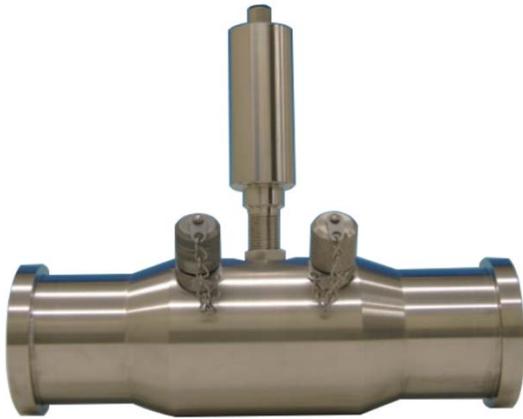




HYDRAULIC TURBINE FLOW METER

The Hydraulic turbine flow meters are primarily used for hydraulic circuit testing. They are designed for working at pressures up to 400 Barg and for monitoring of flow, temperature and pressure.



Shown fitted with FC7-SP7 F to I converter
(available separately)

Specification

Flow Range:	50-750 l/min
Error:	± 2.0 % as standard. Better than +/- 0.2% with FC7-SP7
Repeatability:	+/-0.1% of reading
Maximum Working Pressure:	ISO6162 code 61 up to 210 Barg / ISO6162 code 62 up to 400 Barg, Dependent on process temperature.
Temperature Range:	Standard pickoff -30 deg C to 110 deg C / High temp -30 deg C to 232 deg C
End Connections:	2" ISO61/62 code 61 (SAE 3000) or 2" ISO61/62 code 62 (SAE 6000)
Body Connections:	5/8"-18 UNF port for flow sensor 2x 1/4" BSP ports for P & T sensors

Materials of Construction

Body:	303 Stainless Steel
Rotor:	431 Stainless Steel
Rotor Shaft:	Tungsten Carbide
Sleeve Bearings:	Tungsten Carbide
Thrust Balls:	Tungsten Carbide
Hangers:	316 Stainless Steel
Circlips:	316 Stainless Steel

Application

The Hydraulic Turbine flow meter has been developed for the testing of hydraulic circuits but its stainless-steel construction allows it to be used for other applications such as the metering of water, solvents and chemicals. As well as flow measurement, the 2 additional 1/4" tapping's which allow pressure and temperature monitoring.

Instrumentation

The signal can be used for a local display, remote display or converted for transmission to a separate control system.

Principle of Operation

Liquid flows through the meter causing the rotor to turn. Every time a rotor blade passes the sensor a pulse is generated. The frequency of the pulses is proportional to the flowrate.

Construction

The Hydraulic turbine flow meter is a robust mechanical turbine flowmeter. The stainless-steel body gives high strength and corrosion resistance. The 431ss rotor is machined from solid and the tungsten carbide bearings ensure high levels of performance with minimal wear.

Calibration

The turbine flow meters are individually calibrated with water and are traceable to national standards. We provide you with a test certificate for each meter showing the number of pulses per litre (k. factor), which is used to set the instrumentation. As standard we will provide you with a graphically corrected K factor for hydraulic oil use.

Model	A (mm)	B (mm)	C (mm)
F61/62/61	230	60	167
F61/62/62	260	48	167