

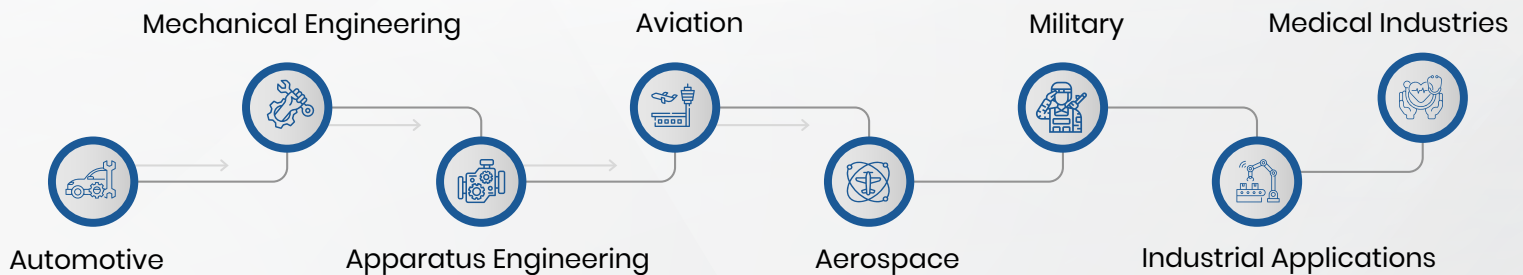
NT-Precision-Turbines High Performance Flowmeters

NT-Turbines
with different housings

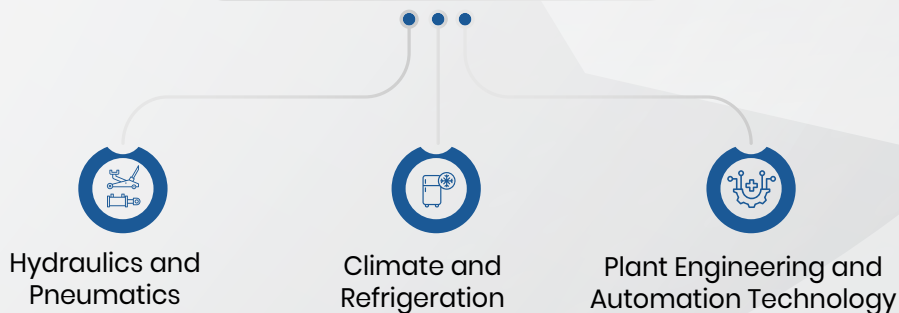


Precision Turbine Flowmeter for liquid (for gas on request): e.g. for use at test bench or on road test
 high accuracy, reliable, rugged design with metal housing, fast response time, light weight housing, small size, customized housing, low pressure drop, universal use, automatically flow-turbine identification as option

Applications



Key features



Technical Specification

Flow Ranges	0.05 l/min to 5700 l/min All ranges in between on request (flow measurement in both direction as option)
Calibration	customized to meet the application demands.
Operating Temperature Range	-40 °C to +150 °C (Standard) (automatic temperature compensation as option)
Accuracy	≤ ± 0,05 % of reading (repeatability)
Output Signals Volt	Volt (0 V to 10 V) / frequency (0 kHz to 5 kHz), current (4 mA to 20 mA) / CAN-Bus
Power Supply	9 V/DC to 32 V/DC incl. reverse polarity protection

Specifications

Specification is based on kinematic viscosity of 1,3 mm²/s and ball bearing flow turbine

Repeatability	≤ ± 0,05% of reading
Linearity	≤ ± 0,1% with linearizing converter LSV or TLSV
Dynamic Response	≤ 4 ms for prompt flowrate change
Calibration Accuracy	≤ ± 0,05% of reading

Material of Construction (Standard)

Housing	1.4401
Rotor	1.4104
Ball Bearing	1.4125

Suitable material for almost each fluid on request

Filtration Recommendations

Ball Bearing	10 µm until NT-32
Journal Bearing	100 µm from NT-40
	100 µm from NT2-8

Bearing Operation Temperature

Ball Bearing	-270 to +150 °C
Ceramic Journal Bearing	-75 to +425 °C
Tungsten Carbide Journal Bearing	-75 to +650 °C
Graphite Journal Bearing	-75 to +290 °C

Pickoff Operating Temperature

Magnetic (mag)	-260 to +230 °C
High Temperature (mag)	-30 to +400 °C
Modulated Carrier (RF)	-185 to +200 °C
High Temperature (RF)	-30 to +400 °C
High Temperature (RF) Cooled	0 to +595 °C

Line Pressure

Thread Until NT-12	≤ 500 bar
Hose Connection	≤ 35 bar
Flange	Until PN 400

Mechanical Connection



AN-Thread



NPT-Thread



Hose
Connection



DIN / ANSI
Flange



TRI-clamp
Connection



Grayloc Flange

Further Products:

- Flow sensors for liquids and gases
- Pressure sensors applicable to +260 °C, Ø 10 mm, measuring ranges up to 2500 bar with output signals analog and digital
- Temperature and pressure calibrators for laboratory and field operation
- Evaluation and display units
- Calibration service for pressure and flow
- Customized system solutions



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