



BROIL

FLOW | CONTROLLER | AUTOMATION

GLOBAL
SOLUTIONS
FOR YOUR MEASURING

HELICAL ROTOR



BROIL SENSOTEK INDUSTRIES has evolved into a beacon of innovation and excellence within the manufacturing and service industries. As an ISO 9001:2015 and CE certified company

- Cutting-Edge Technology Solutions
- Custom Software Development Expertise
- Entrepreneurial Leadership
- Global Recognition High Quality Products
- Comprehensive Customer Support
- State of the art infrastructure
- Dynamic Marketing Strategies
- Cutting-Edge Manufacturing Facility

Helical rotor Positive displacement flow sensor and meter specially for replace oval gear flow sensor at some application where liquid is not pure and require easy and low weight flow meter with a very favorable low pressure drop behavior therefore perfectly suited for the flow measurement of very high viscosity fluids. Due to wide measuring ranges, High Accuracy and Resolution

THE WORLD BEST PROCESS
INSTRUMENT AND SOFTWARE
COMPANY OFFERING BEST QUALITY
PRODUCTS EVERYWHERE AT WORLD WIDE



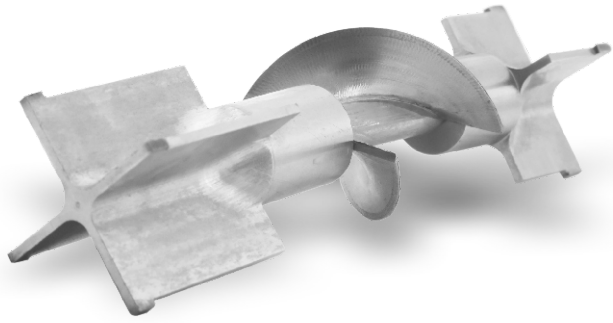
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PERFORMANCE DATA

Flow rates : 3~15000 L/min , Pressure up to 400 BAR, Independent of viscosity, perfect for 1~1000 mm²/s, Low pressure drop, High resolution, Pulsation-free measurement, non-sensitive to pulsating flows, Resistant to corrosion by advanced materials.

MARKETS & AREAS OF APPLICATION

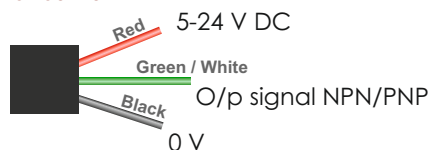
Light and heavy fuel oils, Thixotropic fluids, Hydraulics Test rigs with varying viscosities and fluids, Crude oil, furnace oil, and all viscous liquid even viscosity change with Temperature. Excellent choice for laminating systems, painting systems, adhesive dispense systems, as well as batching systems for various fluids.

GENERAL SPECIFICATION

Flow Tube : SS - 304 / SS - 316 / on request
 Rotor : Cd4mCu / SS410 with Teflon coating
 Shaft & Bush : Hard Carbon
 Repeatability : 0.15%
 Accuracy (standard position): ±0.75% RS or ± 0.50% FSD
 Maximum Working Pressure : 60 Bar / 300 Bar
 Fluid & Ambient Temperature : -20° to 120° C
 Connection : Thread (M) / Sandwich Flange / Tc End

ELECTRIC CONNECTION

PULSE OUTPUT



DISPLAY OUTPUT

* Please Check Display Manual

calculate pulse/liter at : 25%, 50%, 75% and 100% flow rate with pure water at room temperature

DISPLAY WITH VARIOUS OUTPUT

Power Voltage : 24 V DC

Output Signal

Retransmit : (4 ~ 20) mA / Pulse (programmable)
 Communication : RS - 485 / HART Protocol
 Relay : High & Low Flow

Battery Operated Meter

Power Voltage : 3.6 V DC Lithium Batteries
 Display Mode : Double row LCD as below

Q X.XXXXX Six Digit Instantaneous Flow (m³/h, L/h, L/M, m³/M, m³/h, L/h, kg/M, GPM, T/h, kg/h)
XXXX.XXXX Eight Digit Cumulative Flow

Cumulative flow : Automatically expand the display precision.
The cumulative flow values can be reset.

Power-fail protection : The instrument coefficient ensures that total flow values for the past ten years are retained even in the event of a power supply drop.

ADVANTAGES

Wide range of design options for different media, Economical or high specification options to suit all budgets

OUTPUT SENSOR

Power Voltage : 5 / 12 / 24 V DC
 Output Signal : NPN/PNP
 High Electric Level : Higher Than 8 V DC (Input 12 Vdc)
 Low Electric Level : Lower Than 0.8 V DC (Input 12 Vdc)

MODEL RANGE

Model Number	Line Size	Range	Liter / Pulse
BT-HTFS - 012	12 mm	400 ~ 4000 L/H	0.001818
BT-HTFS - 020	20 mm	800 ~ 8000 L/H	0.005263
BT-HTFS - 025	25 mm	1000 ~ 10000 L/H	0.010101
BT-HTFS - 032	32 mm	1500 ~ 15000 L/H	0.020833
BT-HTFS - 040	40 mm	2000 ~ 20000 L/H	0.041666
BT-HTFS - 050	50 mm	4000 ~ 40000 L/H	0.080000
BT-HTFS - 080	80 mm	10000 ~ 100000 L/H	0.32260
BT-HTFS - 100	100 mm	20000 ~ 200000 L/H	0.476190
BT-HTFS - 150	150 mm	30000 ~ 300000 L/H	0.625000
BT-HTFS - 200	200 mm	40000 ~ 400000 L/H	1.000000

