



BROIL

FLOW | CONTROLLER | AUTOMATION

GLOBAL
SOLUTIONS
FOR YOUR MEASURING

OVAL GEAR



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**

BROIL industrial positive displacement flow meter utilizes specially designed oval rotors at its core, ensuring high accuracy and long life. These field-proven oval rotors excel in measuring a wide range of high viscosity fluids, making the meter suitable for diverse industrial applications.

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



FOR MORE INFO
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PERFORMANCE DATA

Flow rates : wide flow range from 0.7 L/H to 1,50,000 L/H, Pressure upto 300 Bar, Independent of viscosity, High resolution, Pulsation-free measurement, non-sensitive to pulsating flows, Resistant to corrosion by advanced materials and bearings

MARKETS & AREAS OF APPLICATION

Light and heavy fuel oils, Hydraulics Test rigs with varying viscosities and fluids, Excellent choice for laminating systems, painting systems, adhesive dispense systems, as well as batching systems for various fluids.

Aluminum Wetted Part : Kerosene, Gasoline, Diesel, Light oil, Heavy oil

S. S. Wetted Part : Wine, Bear, Alcohol, Milk and Food Liquid

PPS Wetted Part : for all Chemical & Pharma drug

OUTPUT SENSOR

Power voltage : 5 / 12 / 24 V DC

Output signal : NPN/PNP Open Collector/Proxy Sensor

High Ele. Level : Higher Than 8 V DC (Input 12 VDC)

Low Ele. Level : Lower Than 0.8 V DC (Input 12 VDC)

GENERAL SPECIFICATION

Enclosure : Aluminum / SS - 304 / SS - 316 / CAST IRON

Rotor : Aluminum / SS - 316 / PPS

Shaft : Hard SS - 316

Repeatability : 0.01%

Accuracy (standard position) : +/- 0.5% Rs / 0.15% FSD

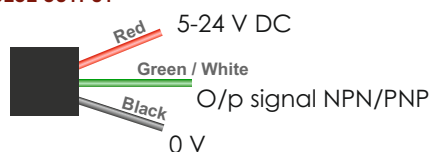
Maximum Working Pressure : 5 mpa for Al,
30 mpa for SS

Fluid & Ambient Temperature : -20° to 150° C

Connection : Thread (F) or Flange

ELECTRIC CONNECTION

PULSE OUTPUT



DISPLAY OUTPUT

* Please Check Display Manual

calculate pulse/liter at : 25%, 50%, 75% and 100% flow rate with pure diesel at 25 °C

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.

Mechanical Type Meter

Mode : Resettable counter : 9999 Ltr Max

Non Resettable counter : 99999 x 100 Ltr Max

Type : Cumulative Total + Resettable Counter

Cumulative Total + Resettable Counter + Pulse

ADVANTAGES

- Wide range of design options with different output,
- Long life with high accuracy and repeatability

MODEL RANGE

Model Number	Line Size	Range	Liter / Pulse
BT-DOFS - 004	4 mm	0.5 ~ 60 L/H	0.000363
BT-DOFS - 006	6 mm	5 ~ 150 L/H	0.000714
BT-DOFS - 008	8 mm	20 ~ 300 L/H	0.00240
BT-DOFS - 012	12 mm	50 ~ 1200 L/H	0.00240
BT-DOFS - 020	20 mm	150 ~ 2000 L/H	0.0156
BT-DOFS - 025	25 mm	200 ~ 4000 L/H	0.0208
BT-DOFS - 040	40 mm	400 ~ 10000 L/H	0.1428
BT-DOFS - 050	50 mm	600 ~ 20000 L/H	0.1818
BT-DOFS - 080	80 mm	1000 ~ 50000 L/H	0.333
BT-DOFS - 100	100 mm	2000 ~ 100000 L/H	1.0
BT-DOFS - 150	150 mm	5000 ~ 150000 L/H	3.2

FOR ALL THE MODELS DOUBLE PULSE ARE AVAILABLE

