

Flow Sensors & Instruments

OVAL GEARS FLOW SENSOR FOR VISCOUS LIQUIDS Serie EP-PBT



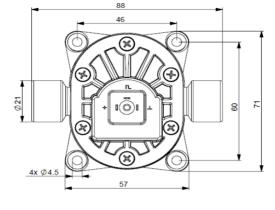
PBT

The EP flowmeter is specifically suitable for fluid flow rate measurement of highly viscose media such as syrup, oil or detergent concentrates. Thanks to its special design and the epicycloid wheels, the EP flowmeter is highly precise and allows extremely accurate flow measurement with minimal pressure loss.

Specific applications: Highly viscous media, high temperatures, high flow rates with low pressure loss and good chemical resistance.

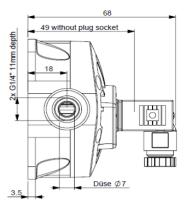
Material:

Housing:	PBT 35% GF (Arnite)
Bearing pin:	Inox 1.4435 Aluminium oxide on request
O-ring:	FPM (Viton)
2	EPDM on request
Turbine:	PEEK
Magnets:	NdFeB (Neodym)
	(not in contact with the medium)



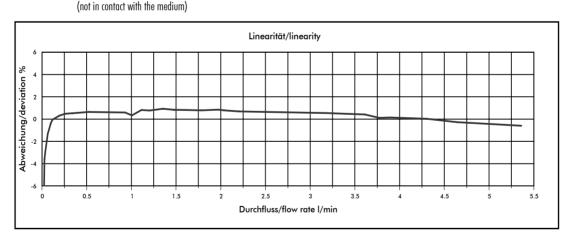
Technical data:

Flow rate:	0.06 - 6.0 l/min depending on viscosity
Measuring accuracy:	+/- 1.0% depending on viscosity
Repetition:	<+/- 0.25%
Temperature range:	-10°C to +65°C 14°F to 149°F
Pressure range:	10 bar at 20°C 145 psi /68°F
Mounting position:	Horizontal recommended
Nozzle size:	Ø 7.0 mm
Viscosity range:	approx. 5 - 8000 centistokes



	Electrical conn
	Power supply:
	Consumption:
	Signal connection
	Signal voltage:
	Signal load:
	Leakage current:
	Connections:
	Signal:
ł	Duty Cycle:

1ect	ion ratings:
	4.5-24 V DC
	5 mA to max. 13 mA
1:	Open collector NPN
	O V GND
	max. 20 mA
	max. 10 μ A
	3-pin AMP 2.8 x 0.8 mm
	Square-wave output
	$50\%/\pm3\%$



Medium for these linearity and pressure loss curves: Cola syrup (approx. 24 centistokes).

Nozzle size	Pulses/litre	g/pulse	min. flow rate in litres/min at Linear start	max. flow rate in litres/min	Pressure loss
Ø 7.00 mm	462	2.166	0.0653	5.35	0.29

The min. and max. flow rate and the pressure loss may vary depending on viscosity.

The values specified must be considered as approximate values.

The number of pulses per litre may differ depending on medium and installation.

We recommend to calibrate the number of pulses per litre in line with the complet installatione

Models

EP PBT	930-0501/V01
Housing:	PBT 35% GF (Arnite)
Bearing pin:	Stainless Steel 1.4435
EP PBT	930-0501/CV01
EP PBT Housing:	930-0501/CV01 PBT 35% GF (Arnite)