

IF YOU DO NOT MEASURE IT, YOU CANNOT IMPROVE IT

FUEL OIL VOLUME FLOW METERS



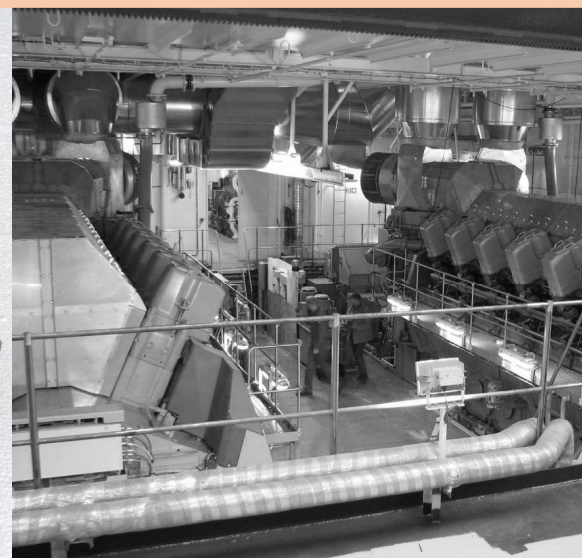
Our volume flow meters are designed for use with light - as well as heavy -fuel oils, and offer exceptional accuracy. The rotary-piston movement in our volume flow meter is highly reliable, resilient to wear, and measures movement of oil with precision, the reading is displayed on a either a mechanical roller-counter which requires no power supply, or a digital LCD display which requires a 24VDC power supply. The digital model also features as standard, a 4-20mA and a pulse-out signal connection, for connection to a FEMS system or remote auxiliary display.

Ranges are from 0-600 l/hr. up to 20.000 l/hr., with a temperature resistance to up to 180°C and maximum pressures up to 40 bar.

The latest versions have a build in PT1000, and when used in a single fuel configuration can be set to accurately measure the mass flow.

Features

- State-of-the-art design
- Electronic counter, Mass flow, volume flow indication, analog, multiple output signals
- Integrated temperature sensor
- No straight inlets or outlets required
- Independent of viscosity and temperature
- High vibration resistance Mass flow measurements
- Highly flexible mounting with very small space requirements
- Reliable monitoring and flexible control of the system
- Accurate measurements
- Type approval from the mayor classification societies



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Type		DN mm	15	20	25	40	50
Nominal diameter		inch	1/2	3/4	1	1 1/2	2
Installation length		mm	165	165	190	300	350
Nominal pressure:							
- threaded ends		PN bar	16	16	16	16	16
- flanges		PN bar	25	25	25	25	25
Max. medium temperature	Tmax	°C	130, 180				
Maximum flow rate	Qmax	l/h	600	1500	3000	9000	30000
Continuous flow rate	Qcont	l/h	400	1000	2000	6000	20000
Minimum flow rate	Qmin	l/h	20	40	75	225	750
Approx. starting flow rate		l/h	4	12	30	90	300
Max. permissible error			<±1 %, (A) ±0.5 % of actual value				
Repeatability			±0.2 %, (A) ±0.1 %				
Measuring chamber volume	approx.	cm ³	12	36	100	330	1200
Safety filter mesh size		mm	0.400	0.400	0.400	0.800	0.800
Dirt filter max. mesh size		mm	0.100	0.100	0.250	0.250	0.250
Housing finish			enameled red RAL 3013				
Weight with:							
- threaded ends	approx.	kg	2.2	2.5	4.2	17.3	-
- flanges PN 25	approx.	kg	3.8	4.5	7.5	20.3	41.0
Smallest readable amount							
Total volume		l, m ³ , G	Up to 3 decimal places (dynamic)				
Total mass		kg, t, lb	Up to 3 decimal places (dynamic)				
Digital flow rate display		(l, G, m ³ , kg, t, lb) / (s, min, h)	Up to 3 decimal places (dynamic)				
Registration capacity		l, m ³ , G	8 digits				
Outputs							
Three (2 pulse/freq., 1 4...20 mA)			freely selectable outputs are available, totally independent of each other				
Pulse value for totalizer			volume or mass pulse 0...200 pulse/sec. (50 % duty cycle)				
Current 4...20 mA for flowrate			volume flow, mass flow or temperature signal to 4...20 mA				
Frequency for flow			volume flow, mass flow or temperature signal to frequency 0...200 Hz (50 % duty cycle)				
Limiting switch		Qmin, Qmax	minimum, maximum and hysteresis parameterized				
State switch			Alarm, error state and on/off parameterized				