

Flow Measurement in Maritime Applications

Gear Type Flow Meters VC
Screw-Type Flow Meters SVC
Turbine Flow Meters TM

Flow Meters

Gear Type Flow Meters VC



Gear Type Flow Meters VCA / VCN



Materials	VC 0.025... VC 16 Spheroidal cast iron VC 0.025... VC 5 Stainless steel	VCA Aluminum VCN Stainless steel
Measuring range (l/min / gal/min)	0.008 ... 700 / 0.002 ... 185	0.04 ... 200 / 0.1 ... 53
Turndown ratio	1 : 300	1 : 200
Working pressure (bar / psi)	... 400 / 5802	... 200 / 2901
Viscosity (cSt)	... 1 000 000	20 ... 4 000
Measuring accuracy	up to ± 0.3% deviation from measured value	up to ± 1% deviation from measured value
Temperature (°C / °F)	-30 ... 220 / -22 ... 428	-10 ... 80 / 14 ... 176
Option	ATEX	ATEX
Applications	- Consumption measurement - Filling of gear lubricant	- Lubrication oil control

- optimized for individual applications because the series have been rendered media-specific by means of differing clearances, bearing variants and materials
- wide measuring ranges with sizes graduated to meet specific requirements
- measurement independent of viscosity within the specified ranges
- low pressure drop
- high-response measurement
- high resistance to pressure
- low noise emission
- high-precision measurement with outstanding reproducibility
- temperature-independent output signals over a wide temperature range
- high degree of accuracy, even with low flow rates at the bottom end of the measuring range

Gear Type Flow Meters

VCG



Spheroidal cast iron

1.0 ... 240 / 0.3 ... 63

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... 315 / 4569

20... 4 000

up to $\pm 2.5\%$ deviation from measured value

-15 ... 120 / 5 ... 248

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Screw-Type Flow Meters

SVC



Spheroidal cast iron

1.0 ... 1500 / 0.3 ... 396

1 : 150

... 250 / 3626

1... 1 000 000

up to $\pm 0.2\%$ deviation from measured value

-30 ... 150 / -22 ... 302

ATEX

- Consumption measurement

Turbine Flow Meters

TM



Stainless steel

4.6 ... 9167 / 1.2 ... 2422

1 : 10

... 400 / 5802

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up to $\pm 0.5\%$ deviation from measured value

-30 ... 120 / -22 ... 248

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- for low viscosity fluids