KRACHT®
FLUID TECHNOLOGY AND SYSTEMS

RAYCONTROL
ENGINEERS in Singapore
+65 88103634 | +65 88491139
KRACHT@raycontrol.com

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**	Screw-Type Flow Meters **SVC**	Turbine Flow Meters **TM**
		
Spheroidal cast iron	Spheroidal cast iron	Stainless steel
1.0 … 240 / 0.3 … 63	1.0 … 1500 / 0.3 … 396	4.6 … 9167 / 1.2 … 2422
–	1 : 150	1 : 10
… 315 / 4569	… 250 / 3626	… 400 / 5802
20… 4 000	1… 1 000 000	–
up to ± 2.5% deviation from measured value	up to ± 0.2% deviation from measured value	up to ± 0.5% deviation from measured value
–15 … 120 / 5 … 248	–30 … 150 / –22 … 302	–30 … 120 / –22 … 248
–	ATEX	–
–	– Consumption measurement	– for low viscosity fluids