



Description

Kracht Volutronic range of positive displacement flow meters and display units offers a comprehensive solution for high accuracy, high pressure flow monitoring. Units are available for flow ranges from 0.002 GPM to 158 GPM. Media specific models are available for applications such as: hydraulic test stands, ink, lubrication systems, RIM, and brake fluid. Consult the factory for specific application information and for complete engineering catalog.



DIAGNOSTICS

Technical Specifications VC Series

Design	Gear motor, positive displacement	Fluid viscosity	1 to 100,000 Cst
Connection type	Mounting plate / in-line	Measuring accuracy	+/- 0.3 % of measured value, depending on series
Flow direction	Bi-directional	Linearity	< +/- 0.1% over entire measuring range
Operating pressure	to 414 bar (6000 PSI)	Reproducibility	< +/- 0.1% of measured value
Flow rating	to 598 LPM (158 GPM)	Voltage input	12 to 30 VDC
Max liquid temp	-30 °C to +120 °C	Output signal	Square wave
Standard version	(-22°F to 248°F)		
Max liquid temp	-30 °C to +150 °C		
High temp version	(-22°F to 302°F)		

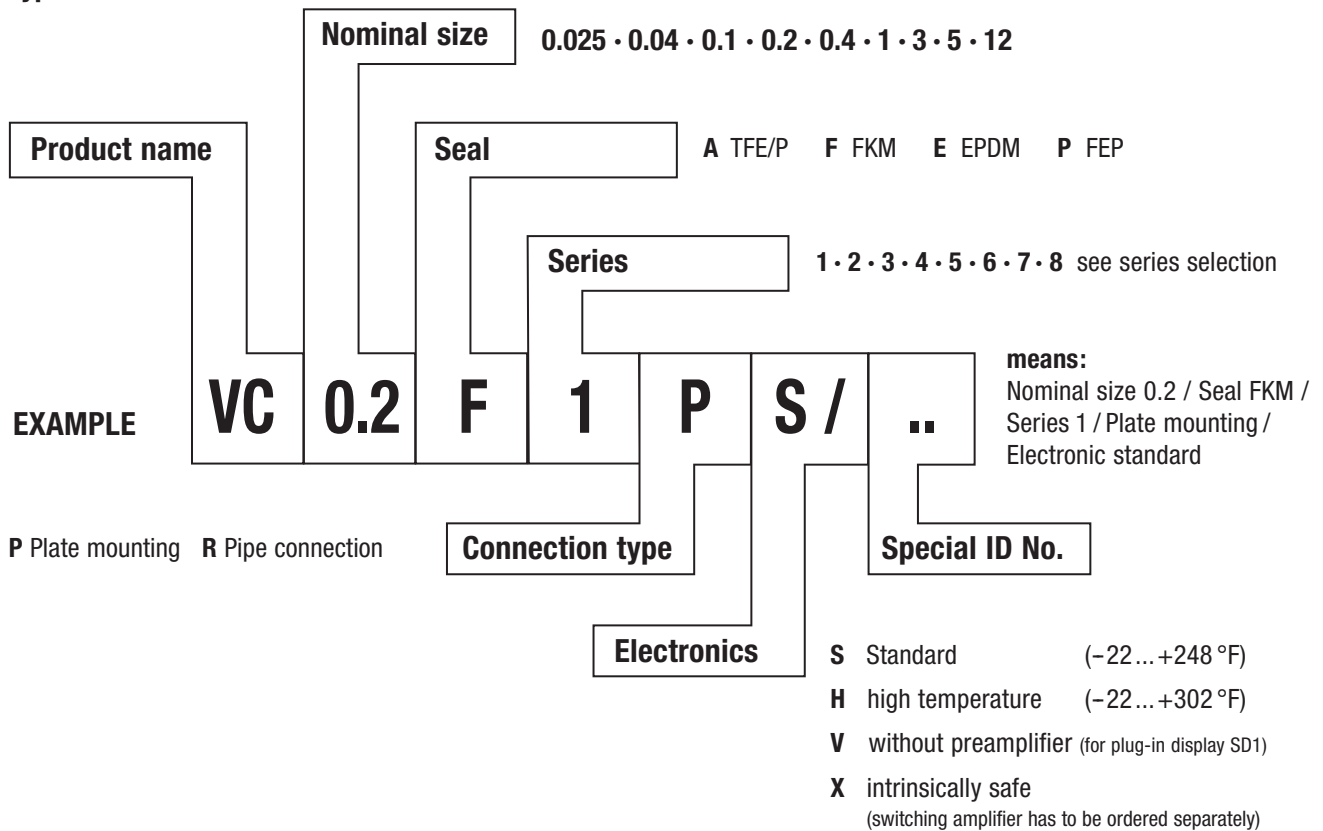
Series selection / Summary of variants

Series	1	2	3	4	5	6	7	8
Material Housing	cast iron GGG40 (79 GGG 60)	cast iron GGG 40	cast iron GGG 40	cast iron GGG 40	stainless steel 1.4404	stainless steel 1.4404	cast iron GGG 40	stainless steel 1.4404
Material Gears	steel 1.7139	steel 1.7139	steel 1.7139	steel 1.7139	stainless steel 1.4462	stainless steel 1.4462	steel 1.7139	stainless steel 1.4462
Bearing	ball bearings	ball bearings	bronze plain bearings	carbide plain bearings	carbide plain bearings	stainless steel ball bearings	hybrid ball bearings	hybrid ball bearings
Connection	P	P	P	P	P/R	P/R	P	P/R
Max. perm. foreign particle size in the medium (µm)	20	30	50	30	30	20	20	20
Accuracy (of actual reading)	± 0.3% at ≥ 20 mm ² /s	± 0.5% at ≥ 50 mm ² /s	± 1% at ≥ 100 mm ² /s	± 0.5% at ≥ 100 mm ² /s	± 0.5% at ≥ 100 mm ² /s	± 0.3% at ≥ 20 mm ² /s	± 1% at ≥ 20 mm ² /s	± 1% at ≥ 20 mm ² /s
Nominal Size	Starting point at [gpm]		Measuring range [gpm]					
0.025	0.0003 0.002-0.53	—	—	—	0.005-0.53*	0.002-0.53	0.002-0.53	0.002-0.53
0.04	0.001 0.005-1.06	—	—	—	—	0.005-1.06	0.005-1.06	0.005-1.06
0.1	0.002 0.01-2.1	—	—	—	—	—	—	—
0.2	0.002 0.04-4.3	0.04-4.3	—	0.04-4.3	0.04-4.3	0.04-4.3	0.04-4.3	0.04-4.3
0.4	0.002 0.05-10.6	—	—	0.05-8	—	—	—	—
1	0.005 0.1-21	0.1-21	0.15-10.6	0.08-16	0.08-16	0.1-21	0.1-21	0.1-21
3	0.008 0.16-42	—	—	0.16-26	0.16-26	0.16-42	—	—
5	0.01 0.26-66	0.26-66	0.31-21	0.26-42	0.26-42	0.26-66	—	—
12	0.03 0.53-158	—	—	—	—	—	—	—

* Measuring accuracy ± 3%: Linearity ± 1.5%



Type code



DIAGTRONICS

Mounting Plates for VC Series with Connection Type P

Model "P" Connection	Bottom Port Mounting Plate	Side Port Mounting Plate	Port Connection
VC0.025, VC0.04, VC0.2	MVC 0,2 U3 B04	MVC 0,2 U3 B05	6 SAE
VC0.4	MVC 0,4 U1C08	MVC 0,4 U1C09	8 SAE
VC1	MVC 1 U2 C04	MVC 1 U2 C05	8 SAE
VC3, VC5	MVC 5 U2 E04	MVC 5 U2 E05	16 SAE
VC12	N/A	MVC12V1G09	1-1/2" Code 62

Please consult the factory or your local Stauff distributor for specific application information, dimensional drawings etc. Other configurations available upon request these include meters for RIM, paint, ink, high pressure, and high flow applications.