OMG Series.

Universal device for manifold application needs.

continuous ongoing development, the highly modular OMG se-series devices are very smooth-running and fast, and can folries covers a broad range of areas of application. OMG is there- low quick, pulsation-related changes in flow rates. Stabilization fore particularly suitable for areas of application which have a zones are also unnecessary. Due to their extremely robust manifold need for flow measurement, such as mechanical en- construction, the OMG series provides optimal protection gineering, chemical engineering and marine.

sion, characteristics for which KRAL flowmeters are well-

Robust, precise and universally applicable. Due to their known worldwide. Due to the screw pump principle, all OMG against external influences, such as system vibrations and me-The OMG series also combines robustness with highest preci- chanical stresses in a harsh, industrial environment.







Mechanical engineering. Determining the position of hydraulic cylinders.

Chemical engineering. Measuring of plastic components.

Marine. Fuel consumption measurement.

Technical data.		OMG-013.	OMG-020.	OMG-032.	OMG-052.	OMG-068.	OMG-100.	OMG-140.
Nominal diameter. DN[mm]		15	20	25/32	40	50	100	150
	DN [inch]	1/2	34	1	1 ½	2	4	6
Total length with DINflange.								
[mm]		145	185	255/265	285	340	460	610
Weight with DIN flange. [kg]		6	6	13/15	21	31	77	190
Flow rate l/h.	Q _{max}	900	2,700	9,000	31,500	63,000	180,000	450,000
	Q _{nom}	600	1,800	6,000	21,000	42,000	120,000	300,000
	Q_{min}	6	18	60	210	420	1,200	3,000
Flow rate I/min.	Q_{max}	15	45	150	525	1,050	3,000	7,500
	Q _{nom}	10	30	100	350	700	2,000	5,000
	Q_{min}	0.1	0.3	1.0	3.5	7.0	20	50
Max. pressure.	[bar]	250	250	250	160	100	40	40
Temperature.	[°C]	-20 to +200	-20 to +200	-20 to +200	-20 to +200	-20 to +200	-20 to +200	-20 to +200
Viscosity.	[mm²/s]	1 to 1x106	1 to 1x10 ⁶	1 to 1x106	1 to 1x106	1 to 1x106	1 to 1x10 ⁶	1 to 1x10 ⁶
Precision of measurementvalue.		±0.1 %	±0.1 %	±0.1 %	±0.1 %	±0.1 %	±0.1 %	±0.1 %
Repeatability.		±0.01 %	±0.01 %	±0.01 %	±0.01 %	±0.01 %	±0.01 %	±0.01 %
K-factor.	K1 [P/l]	1,216	640	234	71.0	39.8	16.8	8.8
	K2 [P/I]	2,432	1,280	468	142	79.6	33.6	17.7
	K3 [P/I]	7,296	2,560	1,014	302	167	57.6	22.1
	K4 [P/I]	7,296	2,560	1,014	302	167	87.6	45.1
Frequency. f1	at Q _{nom} [Hz]	203	320	390	414	464	560	738
f2	at Q _{nom} [Hz]	405	640	780	828	929	1,120	1,475
f3	3 at Q _{nom} [Hz]	1,216	1,280	1,690	1,760	1,949	1,920	1,842
f4 at Q _{nom} [Hz]		1,216	1,280	1,690	1,762	1,948	2,920	3,758



Your benefits.

- Universally applicable.
- High precision.
- Extremely robust.
- Stabilization zones unnecessary.
- Very smooth-running and fast.
- Low friction and minimal loss of pressure.
- Easy installation.

Sensor.	BEG 06* / BEG 06A*.	BEG 43D.	BEG 44.	BEG 45 with BEV 13.	BEG 47D** / BEG 47E**.	BEG 53A* / BEG 54A*.					
Application.	Ex-range.	Standard.	High pressures.	High pressures, wide temperature range.	Ex-range.	Flow direction detection.					
K-factor.	K1.	K1.	K2.	K3.	K1.	K4.					
Signal.	Namur.	PNP.	PNP.	PNP.	Namur.	Push-pull.					
Temperature. [°C]	-25 to +85.	-20 to +100.	-40 to +150.	-40 to +250.	-25 (-40) to +100.	-40 to +125.					
Max. pressure. [bar]	350	250	420	420	40	650					
* Dependent on nominal diameter. ** Dependent on temperature.											



Technical data.

- Media: Chemically neutral, lubricating, clean, non-abrasive.
- Flow direction detection: Extended sensor range optional.
- Temperature measurement: Additional sensor optional.
- Signal: PNP, Namur and Push-pull.
- Signal detection: Via the pole wheel.
- Process fittings: DIN, ANSI, thread, further connections upon request.

Materials.

- Housing: Spheroidal graphite iron.
- Screws: Nitrided steel.
- Bearings: Steel or hybrid ball bearings.
- Sealing: FKM, other seal materials upon request.