

OMG Series

General purpose, helical screw, positive displacement flowmeter in cast iron

Model Type	Flow Rate Range	Pressure Drop (50cSt Fluid)	Pulses per litre**	
OMG13/BEGLM+	0 to 10 l/min	0.8 bar @ 5 l/min, 1.8bar @ 10 l/min	1216	
OMG20/BEGLM+	0 to 30 l/min	0.8 bar @ 15 l/min, 1.6bar @ 30 l/min	640	
OMG32/BEGLM+	0 to 100 l/min	0.8 bar @ 50 l/min, 1.8bar @ 100 l/min	234	
OMG52/BEGLM+	0 to 350 l/min	0.8 bar @ 175 l/min, 1.8bar @ 350 l/min	71	
OMG68/BEGLM+	0 to 700 l/min	0.8 bar @ 350 l/min, 1.8bar @ 700 l/min	39.8	
OMG100/BEGLM+	0 to 2000 l/min	0.8 bar @ 1000 l/min, 1.8bar @ 2000 l/min	16.8	
OMG140/BEGLM+	0 to 5000 l/min	0.8 bar @ 2500 l/min, 1.7bar @ 5000 l/min	8.85	
	Pressure Rating	Connections	Dimensions (Without sensor)	Weight
OMG13/BEGLM+	250 bar	½" BSP female threaded	90mm diameter x 145mm long	4.6 kg
OMG20/BEGLM+	250 bar	¾" BSP female threaded	74mm diameter x 145mm long	4.1 kg
OMG32/BEGLM+	250 bar	1" BSP female threaded	104mm diameter x 215mm long	11 kg
OMG52/BEGLM+	160 bar	1½" BSP female threaded	118mm diameter x 295mm long	18 kg
OMG68/BEGLM+	100 bar	2" BSP female threaded	138mm diameter x 355mm long	29 kg
OMG100/BEGLM+	100 bar	4" BSP female threaded	180mm diameter x 188mm long	70 kg
OMG140/BEGLM+	40 bar	6" BSP female threaded	267mm diameter x 645mm long	180 kg

Common Features:	Flow Rate Range	Over-range by 50% providing fluid is lubricating and pressure drop is less than 5bar – call factory for details.		
	Operating Temperature range	-20°C to +80°C BEGLM+	-20°C to +135°C BEGLML+	
	Viscosity Range	1 cPs and higher		
	Accuracy range	2cSt	±0.1% Actual (12% to 125% of range), ±0.3% Actual (6% to 12%), ±1% Actual (1% to 6%)*	
		20cSt	±0.1% Actual (6% to 150% of range), ±0.3% Actual (3% to 6%), ±1% Actual (1% to 3%)*	
		200cSt	±0.1% Actual (3% to 150% of range), ±0.3% Actual (2% to 3%), ±1% Actual (1% to 2%)*	
	Repeatability	±0.01% Reading*		
Output	BEGLM+:	NPN open collector with 4-way M12 sensor connector [IEC-61076-2-101] – e.g. compatible with Brad Harrison, Hirschmann, ERNI, Murr and Turck Banner. Supplied with 5m cable – bare ends.		
	BEG45:	PNP pulse		
Power Supply	8 to 28Vdc input.			
Materials of construction	Body	Grey Cast Iron (0.6025)		
	Spindles	Nitrated steel (1.0737) Pole wheel - steel		
	Bearings	Roller bearings (roller bearing steel) with metal cage; conventional ball bearings for OMG13 to OMG32.		
	Seal	FPM 'O' ring		
	Sensor wetted Materials	316 stainless steel		
	Recommended Filtration	100 Micron filter located upstream of meter		
Options:	Temperature/Pressure	Higher ratings available in alternate styles. BEG45 allows operation to 200°C		
	Output	PNP or TTL (identified by green or blue cap respectively). Also divide by 4 and divide by 10 function, **Higher frequencies available with different sensors and pole wheels.		
	Hazardous Area Version	BEG 47 Sensor available at extra cost to EEx ia IIC T6 (-20 to +10°C, 40 bar max) higher pressures with BEGLMZ		
	Connections	DIN flange. ANSI flange and NPT available as a special.		
Documentation				
Operating and Maintenance Manual		Kral		
* for a factory calibration on a low viscosity (4.8 cSt) fluid, within standard viscosity range				

These products conform to PED and EMC. ATEX option available.

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