

# OMX Series

Very high pressure, helical screw, positive displacement flowmeter in cast iron with optional stainless steel

Model Type	Flow Rate Range	Pressure Drop (50cSt Fluid)	Pulses per litre**	
OMX13/BEG113+	0 to 10 l/min	0.8 bar @ 5 l/min, 1.8bar @ 10 l/min	1216	
OMX20/BEG114+	0 to 30 l/min	0.8 bar @ 15 l/min, 1.6bar @ 30 l/min	640	
OMX32/BEG115+	0 to 100 l/min	0.8 bar @ 50 l/min, 1.8bar @ 100 l/min	234	
OMX52/BEG116+	0 to 350 l/min	0.8 bar @ 175 l/min, 1.8bar @ 350 l/min	71	
	Pressure Rating	Connections	Dimensions (Without sensor) - Estimated	Weight - Estimated
OMX13/BEG113+	690 to 1035 bar	1/4" NPT female threaded	100mm diameter x 150mm long	7 kg
OMX20/BEG114+		1/4" NPT female threaded	145mm diameter x 185mm long	13 kg
OMX32/BEG115+		9/16-18TPI MP etc	180mm diameter x 225mm long	27 kg
OMX52/BEG116+		API6BX	220mm diameter x 320mm long	57 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 BEG113+	
	Viscosity Range	1 cPs and higher	
	Accuracy range	2cSt	<b>±0.1% Actual</b> (12% to 125% of range), ±0.3% Actual (6% to 12%), ±1% Actual (1% to 6%)*
		20cSt	<b>±0.1% Actual</b> (6% to 150% of range), ±0.3% Actual (3% to 6%), ±1% Actual (1% to 3%)*
		200cSt	<b>±0.1% Actual</b> (3% to 150% of range), ±0.3% Actual (2% to 3%), ±1% Actual (1% to 2%)*
	Repeatability	±0.01% Reading*	
Output	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.		
Power Supply	8 to 28Vdc input.		
Materials of construction	Body	Application dependent, Typically spheroidal Graphite Cast Iron (0.7040) internally and 316SS externals	
	Spindles	Nitrated steel (1.0737) Pole wheel - steel	
	Bearings	Roller bearings (roller bearing steel) with metal cage; conventional ball bearings for OMH13 to OMH32.	
	Seal	Application dependent: FPM 'O' ring	
	Sensor wetted Materials	316 stainless steel	
	Recommended Filtration	100 Micron filter located upstream of meter	
Options:	Temperature/Pressure	Other ratings available in alternate styles.	
	Materials	Stainless Steel end flanges, Nickel plated body	
	Output	BEGLM: 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	BEGxxxZCE Sensor available at extra cost to EEx ia IIC T5	
	Connections	DIN flange. SAE, ANSI flange and NPT available. Medium pressure, Grayloc, options.	
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.