


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)	Weight
OMX13/BEG113+	690 to 1035 bar	½" BSP female threaded	90mm diameter x 145mm long	4.6 kg	
OMX20/BEG114+		¾" BSP female threaded	74mm diameter x 145mm long	4.1 kg	
OMX32/BEG115+		1" BSP female threaded	104mm diameter x 215mm long	11 kg	
OMX52/BEG116+		1½" BSP female threaded	118mm diameter x 295mm long	18 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+; -20°C to +135°C BEGRSX	
	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	BEG113+ etc:	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.	
	BEG113Z etc:	Sensor available at extra cost to EEx ia IIC T5.	
	BEGRSX:	Reed switch output for hazardous area installation – Exi or Exd.	
Power Supply	8 to 28Vdc input. BEGRSX – no power required.		
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.	
	Output	PNP or TTL (identified by green or blue cap respectively). Also divide by 2, 4 or by 10 function, **Higher or lower frequencies available with different sensors and pole wheels. Reed switch with BEGRSX.	
	Materials	Stainless Steel end flanges, Nickel plated body	
	Hazardous Area Version	BEGxxxZ to EEx ia IIC T5. BEGRSX suitable for Exi and Exd.	
	Display	Flow rate and total indicator mounted on meter with 4-20mA and pulse output. Also EEx ia & Exd	
	Connections	DIN flange. SAE, ANSI flange and NPT available. Medium pressure, Grayloc, options.	
Documentation			
Operating and Maintenance Manuals	Kral:OIO xxen, Sensor: LM0562, LM0109, OII 04A		
* for a factory calibration on a low viscosity (4.8 cSt) fluid, within standard viscosity range			

Flowmeter Specification Sheet

tel: 01296 670200
 fax: 01296 670999
 freephone: 0800 018 3001

email: sales@litremeter.com

OMX.docx