


OMH series

High pressure, helical screw, positive displacement flowmeter in cast iron and steel					
Model Type		Flow Rate Range	Pressure Drop (50cSt Fluid)		Pulses per litre**
OMH13/BEGxx		0 to 10 l/min	0.8 bar @ 5 l/min, 1.8bar @ 10 l/min		1216
OMH20/BEGxx		0 to 30 l/min	0.8 bar @ 15 l/min, 1.6bar @ 30 l/min		640
OMH32/BEGxx		0 to 100 l/min	0.8 bar @ 50 l/min, 1.8bar @ 100 l/min		234
OMH52/BEGxx		0 to 350 l/min	0.8 bar @ 175 l/min, 1.8bar @ 350 l/min		71
OMH68/BEGxx		0 to 700 l/min	0.8 bar @ 350 l/min, 1.8bar @ 700 l/min		39.8
OMH100/BEGxx		0 to 2000 l/min	0.8 bar @ 1000 l/min, 1.8bar @ 2000 l/min		16.8
		Pressure Rating	Connections	Dimensions (Without sensor)	Weight
OMH13/BEGxx		420 bar	½" BSP female threaded	100mm diameter x 150mm long	7 kg
OMH20/BEGxx		420 bar	¾" BSP female threaded	145mm diameter x 185mm long	13 kg
OMH32/BEGxx		420 bar	1" BSP female threaded	180mm diameter x 225mm long	27 kg
OMH52/BEGxx		420 bar	1½" BSP female threaded	220mm diameter x 320mm long	57 kg
OMH68/BEGxx		420 bar	2" BSP female threaded	235mm diameter x 385mm long	76 kg
OMH100/BEGxx		250 bar	4" BSP female threaded	247mm diameter x 500mm long	135 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+ -20°C to +135°C BEGRSX -25°C to +85°C BEGBAL -25°C to +120°C BEGBALV (400 Hz max)			
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.			
	BEGBAL:	PNP pulse (10-30 Vdc supply voltage) M12 connector as above.			
	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		Spheroidal Graphite Cast Iron (0.7040)			
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		FPM 'O' ring			
Sensor wetted Materials		316 stainless steel (BEGBAL: EP –Durolast and 1.4104; BEGBALV: Ceramic and 1.4104)			
Recommended Filtration		100 Micron filter located upstream of meter			
Options:					
Temperature/Pressure		Other ratings available in alternate styles.			
Output		BEGLM: 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.			
Hazardous Area Version		BEGLMSZ Sensor available at extra cost 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 as a special.			
Documentation					
Operating and Maintenance Manuals		Kral: OIO 02A, 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

OMH.docx

All rights reserved, Design Right protected

www.litremeter.com

Registered in England No. 1216862