

## OMH Series

High pressure, helical screw, positive displacement flowmeter in cast iron

Model Type	Flow Rate Range	Pressure Drop (50cSt Fluid)	Pulses per litre**	
OMH13/BEGLM+	0 to 10 l/min	0.8 bar @ 5 l/min, 1.8bar @ 10 l/min	1216	
OMH20/BEGLM+	0 to 30 l/min	0.8 bar @ 15 l/min, 1.6bar @ 30 l/min	640	
OMH32/BEGLM+	0 to 100 l/min	0.8 bar @ 50 l/min, 1.8bar @ 100 l/min	234	
OMH52/BEGLM+	0 to 350 l/min	0.8 bar @ 175 l/min, 1.8bar @ 350 l/min	71	
OMH68/BEGLM+	0 to 700 l/min	0.8 bar @ 350 l/min, 1.8bar @ 700 l/min	39.8	
OMH100/BEGLM+	0 to 2000l/min	0.8 bar @ 1000 l/min, 1.8bar @ 2000 l/min	16.8	
	Pressure Rating	Connections	Dimensions (Without sensor)	Weight
OMH13/BEGLM+	420 bar	½" BSP female threaded	100mm diameter x 150mm long	7 kg
OMH20/BEGLM+	420 bar	¾" BSP female threaded	145mm diameter x 185mm long	13 kg
OMH32/BEGLM+	420 bar	1" BSP female threaded	180mm diameter x 225mm long	27 kg
OMH52/BEGLM+	420 bar	1½" BSP female threaded	220mm diameter x 320mm long	57 kg
OMH68/BEGLM+	420 bar	2" BSP female threaded	235mm diameter x 385mm long	76 kg
OMH100/BEGLM+	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 – depends on sensor selection	-20°C to +80°C BEGLM+ -25°C to +85°C BEGBAL	-20°C to +135°C BEGLML+ -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.			
Power Supply	8 to 28Vdc input.				
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.			
	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	BEGLMSZCE Sensor available at extra cost to EEx ia IIC T5			
	Connections	DIN flange. SAE, 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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