


# OMK series

Stainless steel helical screw, positive displacement flowmeter						
Model Type		Flow Rate Range	Pressure Drop (50cSt Fluid)		Pulses per litre**	
OMK13/BEGxx		0 to 10 l/min	0.8 bar @ 5 l/min, 1.8bar @ 10 l/min		1216	
OMK20/BEGxx		0 to 30 l/min	0.8 bar @ 15 l/min, 1.6bar @ 30 l/min		640	
OMK32/BEGxx		0 to 100 l/min	0.8 bar @ 50 l/min, 1.8bar @ 100 l/min		234	
	Pressure Rating	Connections	Dimensions (Without sensor)		Weight	
OMK13/BEGxx	40 bar	½" BSP female threaded	59mm diameter x 110mm long		2 kg	
OMK20/BEGxx	40 bar	¾" BSP female threaded	69mm diameter x 125mm long		3 kg	
OMK32/BEGxx	40 bar	1" BSP female threaded	104mm diameter x 180mm long		11 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 – dependent on sensor and meter selection	Meter: Either -20°C to +40°C or +20°C to +100°C	Sensor: Either -20°C to +80°C BEGLM+ or -20°C to +100°C BEGLML+ or -20°C to +100°C BEGRSX			
	Viscosity Range	1 cPs and higher				
	Accuracy range	2cSt	±0.5% Actual (12% to 125% of range), ±1% Actual (6% to 12%), ±1% Actual (1% to 6%)*			
		20cSt	±0.5% Actual (6% to 150% of range), ±1% Actual (3% to 6%), ±1% Actual (1% to 3%)*			
		200cSt	±0.5% Actual (3% to 150% of range), ±2% Actual (2% to 3%), ±3% Actual (1% to 2%)*			
	Repeatability	±0.05% Reading*, calibrated over 4% to 100% of range				
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.				
	BEG46:	PNP pulse, -20 to +100°C, ambient -25 to 90°C				
	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 Option	1.4301 Chrome Nickel Steel (304SS)	1.4401 Chrome Nickel Steel (316SS)			
	Pole Wheel	Nickel 2.4068 pole wheel	1.4401 pole wheel (316SS)			
	O Rings	FPM	FEP jacketed silicon 'O' ring			
	Bearings	Slide bearing directly between spindles and casing.				
	Spindles	Teflon (PTFE +15% graphite)				
	Sensor wetted Materials	1.4401/316 stainless steel				
	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 and divide by 10 function, **Higher & lower frequencies available with different sensors and pole wheels.				
	Hazardous Area Version	BEGLMSZCE Sensor available 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.				
Documentation						
Operating and Maintenance Manuals		Kral: OIO 03en, Sensor: LM0562, LM0109, OII 04A				
* for a factory calibration on a low viscosity (4.8 cSt) fluid, within standard viscosity range						

## Flowmeter Specification Sheet

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OMK.docx