

OME Series

Low flow positive displacement economic flowmeter in aluminium

Model Type	Flow Rate Range	Pressure Drop	Pulses per litre
OME13/BEG40	0 to 10 l/min	0.8 bar @ 5 l/min, 1.8bar @ 10 l/min (50cSt fluid)	1214
OME20/BEG40	0 to 30 l/min	0.8 bar @ 15 l/min, 1.6bar @ 30 l/min (50cSt fluid)	321
OME32/BEG40	0 to 100 l/min	0.8 bar @ 50 l/min, 1.8bar @ 100 l/min (50cSt fluid)	78
	Connections	Dimensions	Weight
OME13/BEG40	½" BSP female threaded	45mm x 45mm sq x 110mm long	0.7 kg
OME20/BEG40	¾" BSP female threaded	55mm x 55mm sq x 145mm long	1.1 kg
OME32/BEG40	1" BSP female threaded	70mm x 70mm sq x 200mm long	2.7 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.
Pressure Rating	40 bar
Operating Temperature range	-20°C to +100°C
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	PNP pulse output, 1m flying lead
Power Supply	Accepts 10 to 30V DC

Materials of construction

Body	Anodised Aluminium (3.0615)
Spindles	Nitrated steel (1.0737)
Bearings	Roller bearings (roller bearing steel) with metal cage
Seal	FPM 'O' ring
Sensor wetted Materials	PBTP
Recommended Filtration	100 Micron filter located upstream of meter

Options:

Temperature/Pressure	Higher ratings available in alternate styles. BEG48 enables higher operating temperatures – consult factory for details
Output	Namur
Hazardous Area Version	BEG 47C Sensor available at extra cost to EEx ia IIC T6 (-20 to +75°C) {Namur}
Connections	DIN flange. ANSI flange and NPT available as a special.

Documentation

Operating and Maintenance Manual	Kral
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* 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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