

KSM15

Size -15mm Rotary piston positive displacement pulse output plastic flowmeter (low flow)

VITAL STATISTICS

Start flow	-	0.2 litres/min. @+/-5%
Min. Flow	-	0.5 litres/min. @+/-2%
Nom. Flow	-	25 litres/min. @+/-2%
Max. Flow	-	45 litres/min. @+/-2%
Repeatability	-	0.2% of rate

The KSM15 is available in two pulse output forms;

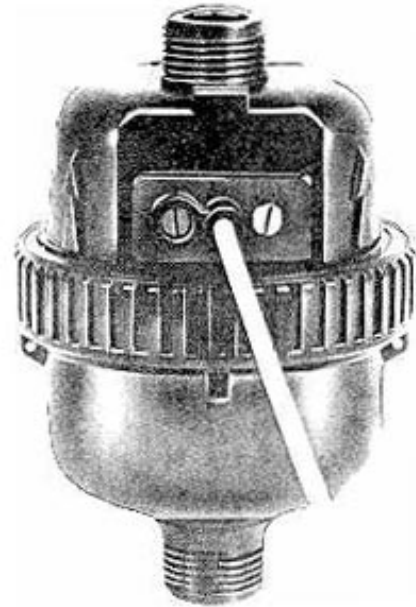
- 1/ **KSM15-HS** solid state switch technology for long transmission distances, output 100 pulses per litre.
- 2/ **KSM15-R** reed switch pulse for low current applications, output 200 pulses per litre.

KSM15-HS - 100 pulses per litre (Hall-effect switch)

Operating voltage - 6-16 VDC
Supply current - max. 13mA
Load current - max. 20mA needs load resistor
Wiring connection - Pulse(Yellow), +VDC(Red), O.V.(Blue), 3 metres cable.

KSM15-R - 200 pulses per litre (Reed switch)

Operating voltage - 2-24 VDC
Load current - 10mA. with limiting resistor
Wiring connection - Pulse(Yellow), Common (Blue), with 3 metres cable.



A LOW COST volumetric rotary piston pulse output flowmeter designed to provide maximum accuracy repeatability and reliability over a wide range of rate of flow and volume control applications. Made of plastic the meter is suitable for a wide range of liquids (see chart). These meters offer exceptional performance accuracy over a large flow range, together with a long working life.

KSM meters are ideal for very low flow rate and totalising applications.

The KSM15 positive displacement rotary piston chamber makes this meter tolerant of viscosity change and installation position without affecting the accuracy of measurement. Each KSM is individually tested for pressure worthiness and accuracy.

A sealed multiple magnet cluster is arranged to rotate at piston speeds. The integrated hall-effect or reed switch circuit is alternatively switched on and off by the passing magnetic fields to provide a square wave pulse output signal. The electronics are housed within a sealed compartment and the total construction is simple & very robust.

SPECIFICATIONS

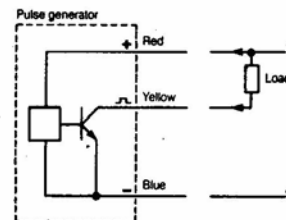
Nominal Pipe Size	15 mm (1/2")
Meter connection	20mm (3/4") BSP(m)
Capacity at 10m w.g.	4.5 m3
Dimensions (mm)	Length 134, Diameter 95.
Maximum pressure	10 bar.
Max. temperature	50°C.

Body & gears -Polyacetal, Measuring unit - Polystyrene, S/S shafts, seal -neoprene. Note: A 300micron filter should be fitted prior to meter.

Liquid suitability list at 21°C

Acetic acid<10%	Detergents	Linseed oil	Sodium borate	Water - Fresh
Alums	Ethylene glycol	Margarine	Sodium carbonate	- De-ionised
Ammonium	Carbonate	Magnesium sulphate	Sodium chloride sol.	- De-mineralised
Beer	Common salt	Methanol	Sodium phosphate sol.	- Distilled
Brine	Corn oil	Milk	Sodium sulphate sol.	- Salt
Butter	Cotton seed oil	Olive oil	Sodium bicarbonate	
Butyl alcohol	Ferrous sulphate	Palm oil	Tea	
Carbon dioxide	Formaldehyde <30%	Peanut oil	Tomato juice	
Caustic soda sol.<20%	Gelatine	Potassium salts	Urea solution	
Cod liver oil	Glucose <30%	Soap solutions	Vegetable oils	
Coconut oil	Glycerin	Soya bean oil	Vinegar	
Coffee	Lactic acid <10%			

KSM15-HS wiring



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