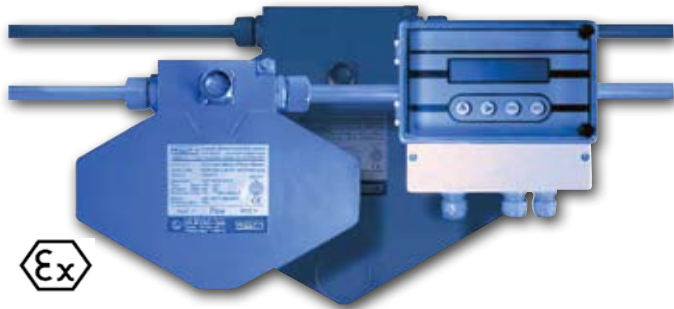


Coriolis Flowmeters

KCM C-flow series Coriolis mass flowmeter



The coriolis mass flow meters measure simultaneously mass flow, volume flow, temperature and density and consequently can replace different measuring instruments.

Due to a construction free of dead spots the meters are flushable and can be easily sterilized. The C-flow mass flow meters do not contain any moving parts and consequently are suited for polluted media. Depending on requirements, the C-flow mass flow meters are available as compact version with on site display and remote version with electronics in a wall mount or panel mount housing. For compact versions, an additional remote display is available, designed for cable lengths up to 1 km.

- True Mass Reading
- No moving parts
- Second output of Density
- ATEX EEx design

Technical Data - KCM 0300 to KCM 3000

Medium temperature	up to +125°C
Connections	female threads G1/2" adapters for flanges, diary or tri-clamp connectors
Operating pressure	max. 350 bar
Material	stainless steel as per DIN 1.4571 (AISI 316 Ti)
Ingress protection	IP 67
Electrical connection	9-pin flange plug compact version with integral transmitter
Max cable length	30 metres between transducer and transmitter
Ex-protection	EX II 2G EEx ib IIC T2–T4
Weight	KCM 300 and 600: 4.1 kg KCM 1500 and 3000: 8.8 kg

Technical Data - KCM 6000 to KCM 60K

End connections	flanges acc. EN 1092, ANSI B16.5, DIN2512
Nominal pressure	PN 40, ANSI 150 / 300 lbs
Process temperature	–40°C to +180°C (-40°F to 56°F)
Ambient temperature	–40°C to +60°C (-40°F to +140°F)
Ingress protection	IP 65 (EN60529) (NEMA 4X)
Materials	Flow tubes, splitter flanges: 1.4404 (316 L)/1.4571 (316 Ti) housing: cast iron

Options & Ordering Information

Type	Internal dia	Measuring range	
	mm	Kg/h	Kg/min
KCM 0300	4	4.5 - 300	0.075 - 5
KCM 0600	4	6 - 600	0.15 - 10
KCM 1,500	8	15 - 1,500	0.40 - 25
KCM 3,000	8	30 - 3,000	0.90 - 50
KCM 6,000	12	60 - 6,000	1 - 100
KCM 20K	18	200 - 20,000	3.3 - 334
KCM 40K	28	400 - 40,000	11 - 667
KCM 60K	34	600 - 60,000	16.6 - 1,000

Typical Applications

- For fluids (e.g. PU components, paints) and gases of high density
- Suitable for aggressive and contaminated media
- Measurement of mass flow, density, temperature and volume flow
- Excellent hygienic qualities due to construction free of dead spots
- Up to +125°C medium temperature
- Individual 8-point-calibration including report
- Ex protected as per ATEX and EMC tested
- High rotation frequency and well-balanced measuring pipes

Sight Flow Indicators

Sight flow indicators - principle of operation

Principle of operation

This sight flow indicator is an ideal way for you to visually check the flow, presence, colour and condition of a liquid, gas or condensate. A simple low cost solution to basic visual flow or no flow monitoring or even basic flow rate indication, sight glass flowmeters come in various designs depending on your requirement.

Basic Sight Glass Window

The liquid medium enters the sight glass and can thus be checked optically for quantity, quality and consistency.

Sight Glass with Ball

The liquid medium enters the sight glass and can thus be checked optically for quantity, quality and consistency. Quantitative indication of the flow rate is possible depending on the sphere's position in the glass.

Sight Glass with Spinning Wheel

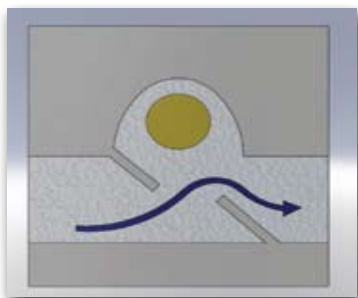
The liquid medium enters the sight glass and can thus be checked optically for quality and consistency. Quantitative indication of the flow rate is possible depending on the speed of wheel rotation.

Sight Glass with Flap

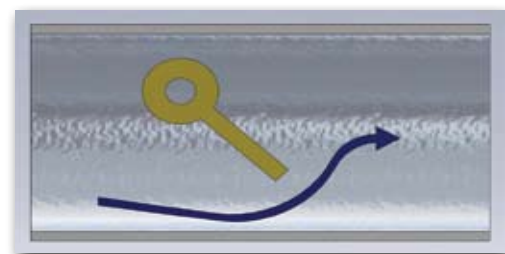
The liquid medium enters the sight glass and can thus be checked optically for quality and consistency. Quantitative indication of the flow rate is possible depending on the flap position in the glass or against a flow scale.



Principle of Basic Sight Glass flow movement



Principle of Sight Glass flow movement with ball float



Principle of Sight Glass flow movement with flap

Media application guide



Oils ✓



Water ✓



Air/Gases ✓



Fuels ✓



Chemicals ✓



Steam ✓



Hazardous ✓

Sight Flow Indicators

Vista Ball sight flow indicators



The Vista 'Ball' is a single sided stainless steel indicator that can be used on pipe sizes from 8mm to 40mm (1/4" to 1 1/2"). The white PTFE ball rises when flow starts and is clearly visible from distances. The indicator must be installed horizontally with the glass dome positioned upwards.

Materials of Construction:

Body	Stainless steel BS1540-316-C16
Clamp Ring	Stainless steel BS970-302-S25
Ball	PTFE
Glass Dome	Annealed Borosilicate
O'Ring	Viton
Gasket	Klingersil C4400
Fasteners	Stainless steel

- High quality robust design
- Pressures up to 16 bar
- Temperatures up to 200°C

Options & Ordering Information

Size (mm)	Connections BSP, BSPT or NPT (female)	Minimum Flow (l/min)	Out of socket (l/min)	Pressure Drop - 2 m / sec (bar)	Length (mm)	Height (mm)	Part No	Thread
8	1/4"	0.3	1.5	0.1	76	81	VIS-08-	BSP / NPT / BSPT
10	3/8"	0.3	1.5	0.1	76	81	VIS-10-	BSP / NPT / BSPT
15	1/2"	0.3	1.5	0.1	76	81	VIS-15-	BSP / NPT / BSPT
20	3/4"	2.5	5.0	0.2	89	100	VIS-20-	BSP / NPT / BSPT
25	1"	4.0	8.0	0.2	89	100	VIS-25-	BSP / NPT / BSPT
40	1.1/2"	11.0	23.0	0.3	118	126	VIS-40-	BSP / NPT / BSPT

Please state connection thread type required after part code e.g. VIS-40-BSP

Vista Spinner sight flow indicators



The Vista 'Spinner' is a single sided gunmetal indicator that can be used on pipe sizes from 8mm to 25mm (1/4" to 1"). The spinner starts to rotate when flow starts and is clearly visible from distances. The design offers low pressure losses and is suitable for installation in both horizontal and vertical pipework, and with bi-directional flows.

Materials of Construction

Body	Gunmetal BS1400 LG2
Clamp Ring	De-zincified Brass
Spinner	PPS Plastic (colour - fast yellow)
Glass Dome	Moulded Annealed Borosilicate
O'Ring	Viton
Gasket	Klingersil C4400
Fasteners	Stainless steel

- High quality robust design
- Pressures up to 10 bar
- Temperatures up to 100°C

Options & Ordering Information

Size Code (mm)	Connections BSP, BSPT or NPT (female)	Minimum Flow (l/min)	Maximum flow (l/min)	Pressure Drop - 2 m / sec (bar)	Length (mm)	Height (mm)	Part No	Thread
8	1/4"	0.7	12	0.1	76	65	VIG-08-	BSP / NPT / BSPT
15	1/2"	1.2	40	0.1	76	65	VIG-10-	BSP / NPT / BSPT
20	3/4"	1.4	75	0.3	89	85	VIG-20-	BSP / NPT / BSPT
25	1"	1.4	120	0.5	89	85	VIG-25-	BSP / NPT / BSPT

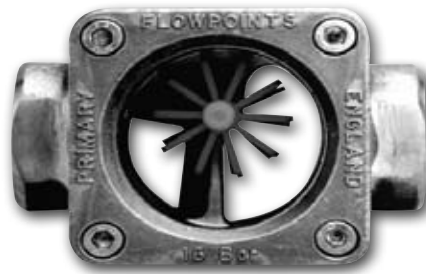
Sight Flow Indicators

GP, GR & GF series Gunmetal sight flow indicators



STYLE 'GF' - flap with scaleplate

When you need to know the actual flow rate this model will give you a reading of 0 to 10 on a scale plate. Charts providing the approximate water flow rate to scale reading are available. The basic model is suitable for horizontal and vertically upward flow. A spring loaded flap (Style 'GFS') is available for vertically downward flow and for higher flow rates.



STYLE 'GR' - twin rotor

This model has two rotors mounted close to each glass to show you if the liquid is flowing. The indicator can be mounted in any pipeline position, and the light weight rotors will operate over a wide flow range. The maximum operating temperature is 100°C.



STYLE 'GP' - straight through with spout

Ideal for gravity feed systems, intermittent flow, liquids containing entrained air and low flow rates. This model has an integral drip lip and can be mounted in any pipeline position.

Materials of Construction:

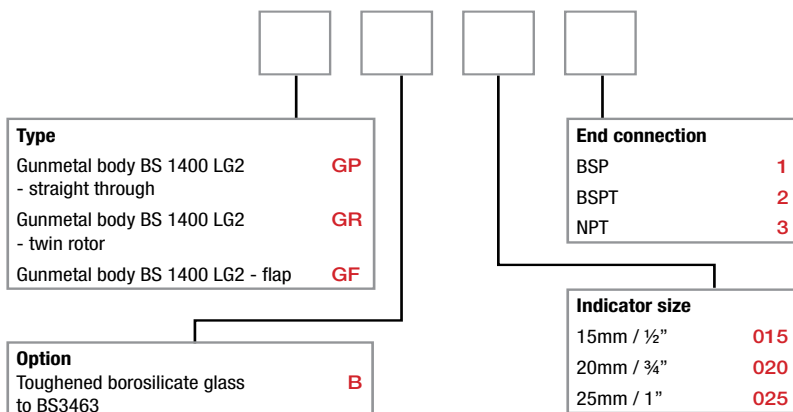
Body	Gunmetal BS 1400 LG2
Covers	Brass BS 2872 CZ 122
Windows	Toughened Borosilicate BS 3463
Gaskets	Klingsil C4400
Edge Protectors	Klingsil C4400
Fasteners	Stainless Steel A2
Rotors	POM ('Hostaform')
Flap	Stainless Steel BS 1501-316-S31
Spindle	Stainless Steel BS 1501-316-S31
Scaleplate	ANSI 302 Type

- Large Viewing Window
- High quality robust design
- Pressures up to 16 bar
- Temperatures up to 200°C

Technical Information

Size Code (mm)	Connections BSP, BSPT or NPT (female)	Minimum Flow (l/min) for 'GR' style	Pressure Drop - 2 m / sec (bar)	Length (mm)	Height (mm)
15	1/2"	2.5	0.09	85	68
20	3/4"	3.0	0.09	85	68
25	1"	5.0	0.09	95	74

Options & Ordering Information



Sight Flow Indicators

881 series sight glass flowmeters in cast iron, steel or stainless steel



Straight through with spout

Ideal for gravity feed systems, intermittent flow, liquids containing entrained air and low flow rates. This model has an integral drip lip and can be mounted in any pipeline position.

Rotor

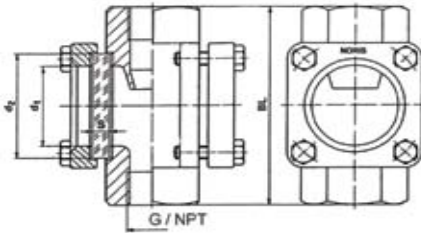
This model has a rotor to show you if the liquid is flowing. The indicator can be mounted in any pipeline position, and the light weight rotors will operate over a wide flow range.

Flap

The basic model is suitable for horizontal and vertically upward flow.

- Cast Iron, Steel & St.St. designs
- Soda Lime or Borosilicate glass
- Sizes up to 2"
- Pressure ratings up to 40 Bar

Dimensional Information



BSP or NPT female connections	BL	d ₁	Glass plate			
			d ₂	S		
				16 bar	25 bar	40 bar
1/4" 3/8" 1/2"	100	32	45	10	10	10
3/4" 1"	120	48	63	10	12	15
1 1/4" 1 1/2"	160	65	80	12	15	20
2"	230 180(GG)	80	100	15	20	25

Options & Ordering Information

