KROHNE

measure the facts

H250/RR/M30 Technical Datasheet

Variable area flowmeter

- Compact and easy to mount
- No power supply required
- Secure, cost-effective measurement and display
- Measuring section made of rugged all-metal construction
- Completely interchangeability of all components and assemblies
- Available in flanged, screwed and tri-clover end connection
- Low pressure loss
- Sturdy design
- Available in Stainless Steel and PTFE lining

Variable Area flowmeter- H250/RR/M30

All-metal compact and sturdy flowmeter

The H250 M30 is an all-metal compact and sturdy flowmeter for liquids and gases that operates on the float principle. Depending on the flowrate, the float will assume a certain vertical position in the tube. The position of the float is transmitted by a magnetic coupling system to the scale on the indicator. The flowmeter is designed for installation in a vertical pipe run with flow from bottom to top.

The rugged construction of H250 M30 flowmeter makes it particularly suitable to be used in difficult applications and challenging environmental conditions. In the M30 indicator, the movement of the float is tracked by circular magnet which in turn glides the pointer over the angular scale to indicate the flowrate.

Industries

H250 M30 can be used in most industrial sectors; few of them are listed below,

- OEM's
- Machine building
- Chemical
- Iron, steel and metal
- Pharma
- Petrochemicals
- Food and Beverage

Technical data

Instrument type	H250/RR/M30

Measuring Range

Water	25 to 1,00,000 LPH
Air	0.7 – 1800 Nm3/hr
Accuracy class as per VDI/VDE code 3513	Accuracy Class 2.5 (standard), Accuracy Class 1.6 (optional)
Measuring tube	Metal tube with tapered measuring section
Scale graduation	In engineering flow units (Angular)

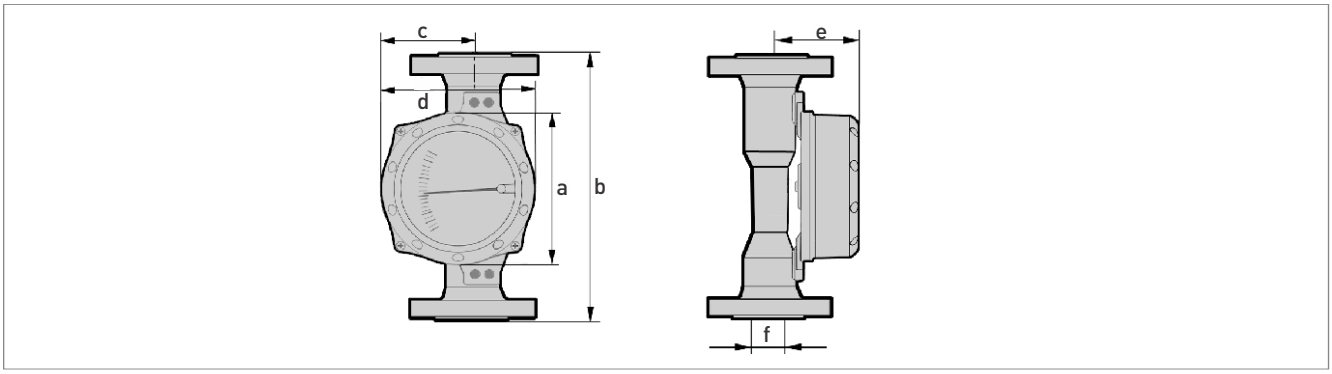
Float types

Liquid	CIV, DIV
Gases	TIV, DIV (damping assembly provided)

Specifications

Meter sizes	DN 15 to DN 100 and ½" to 4"
End connections	Flanged /Screwed /Tri-clover
End to end distance	250 mm (for standard connection)
Max operating temperature	-80 deg C to + 200 deg C
Max operating pressure	Triclover - 16 bar , Screwed (NPT) - 20 bar
	Flange-As per flange standard, Standard flange ASME B 16.5 Class 150
	Optionally Class 300 & 600 lbs
Float	SS316L
Flange	SS316L
Tube/Cone	SS316L
Indicator	Die cast aluminum
Protection category	IP-67
Heating Jacket	Optionally available for liquid application

Dimensions



Dimensions and Weights

Nominal Size				Dimension in mm						Approx. weight
DN	PN	ANSI	lbs	a	b	c	d	e	f	kg
15	40	1/2"	150/300	141	250	85.5	141	73	20	3.2
25	40	1"	150/300	141	250	85.5	141	85.5	32	5
50	40	2"	150/300	141	250	98.5	141	99.5	65	8.5
80	16	3"	150/300	141	250*	98.5	141	115	89	11.5
100	16	4"	150/300	141	250*	98.5	141	124.5	114	13.5

*300 mm for 3" & 4" ANSI 300 lbs
For Tri-clover end conections b=250mm
For Screwed end connections dimensions on request.

Flow table

Flow table

For liquids CIV, DIV
For gases TIV, DIV

100% flow values, maximum turn-down rate 10:1

Reference conditions

Water flows at 20°C or 68°F

Air flows in m³ /h converted to 0° and 1.013 bar abs. when the meter is operated at 20° C and 1.013 bar abs.

Air flows in SCFM converted to 60°F and 14.7 psia when the meter is operated at 68°F and 14.7 psia.

H250/RR

Meter size			Water		Air		max. pressure loss		
DIN mm	ANSI inches	Cone No.	CIV l/h	DIV l/h	TIV Nm³/h	DIV Nm³/h	CIV mbar	TIV mbar	DIV mbar
15	1/2"	K 15.1	25	-	0.7	-	26	21	-
		K 15.2	40	-	1.0	-	26	21	-
		K 15.3	63	-	1.5	-	26	21	-
		K 15.4	100	-	2.2	-	26	21	-
		K 15.5	160	-	3.6	-	26	21	-
		K 15.6	250	-	5.5	-	26	21	-
		K 15.7	400	700	10	18	28	21	38
		K 15.8	630	1000	14	28	32	22	50
25	1"	K 25.1	630	1000	14	-	32	24	72
		K 25.2	1000	1600	22	-	33	24	74
		K 25.3	1600	2500	35	-	34	25	75
		K 25.4	2500	4000	50	110	38	26	78
		K25.5	4000	6300	80	180	45	30	103*
50	2"	K55.1	6300	8400	80	230	74	13	60
		K55.2	10000	14000	110	350	77	13	69
		K55.3	16000	25000	150	600	84	13	104
80	3"	K85.1	25000	37000	350	1000	68	16	95
		K85.2	40000	64000	400	1800	89	16	125
100	4"	K105.1	63000	100000	550	-	120	-	220

*300 mbar with damper (gas service)

The operating pressure should be at least twice the pressure loss for liquids and at least five times the pressure loss for gases.

For VA meter with Electrical Switch and/or Transmitter, refer models H250/M40 and H250/M9

Note: The subject flow meters cannot be used as a weight or measures under the Legal Metrology Act. Specifications subject to changes without prior notice

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