

SDA Flap-type flowmeter for liquid measurements



- universal flap-type flowmeter
- mounting position - horizontal
- vertical
- low pressure drop
- largely independent of viscosity

Variable area flowmeters

Vortex flowmeters

Flow controllers

Electromagnetic flowmeters

Ultrasonic flowmeters

Mass flowmeters

Level measuring instruments

Communications technology

Engineering systems & solutions

Switches, counters, displays and recorders

Heat metering

Pressure and temperature

The responsibility as to the suitability, intended use and corrosion-resistance of the materials used in their construction rests solely with the purchaser.

Description

The SDA flap-type flowmeter can be used for flowmetering various kinds of liquid products by using different materials of construction and different mounting positions.

The flowmeter is largely independent of viscosity and suitable for indicating the flow of water, acids and alkalis.

Each device is calibrated for the user's application and fitted with a product-related scale.

For process control, the flowmeter can be equipped with max. two limit switches and one analog current output.

Technical data

Connection	adapter flange
Overall length	50 mm (2")
Accuracy class	5
Electrical output	4 ... 20 mA (option)
Contacts	max. 2 NAMUR 2-wire or open collector, 3-wire
Max. pressure	10 bar (145 psig) or optionally PN 16 / 25 / 40
Process temperature	-70 to +200°C (-94°F to 392°F)
Ambient temperature	-20 to +90°C (-4°F to 194°F) (standard)
Type of protection, indicator	IP 65
Material of construction, measuring section	steel or stainless steel
Material of construction, indicator	die-cast aluminium with standard coating or corrosion-resistant coating or stainless steel
Connection	DN 25 ... DN 300 (1" to 12")
Measuring ranges (100 %)	6 ... 750 m ³ /h (1 585 to 198 129 US GPH)
Turndown ratio	≥ 10 : 1

Flow table

Reference conditions: water at 20°C (68°F)

Nominal size of connection		Measuring ranges (100% values)	
		m ³ /h	US GPH
DN	inch		
25	1"	6- 12	1585 - 3170
32	1 1/4"	8- 15	2113 - 3962
40	1 1/2"	6- 25	1585 - 6604
50	2"	5- 30	1320 - 7925
65	2 1/2"	20- 80	5283 - 21133
80	3"	40- 80	10566 - 21133
100	4"	40-120	10566 - 31700
125	5"	65-150	17171 - 39625
150	6"	80-225	21133 - 59438
200	8"	150-350	39625 - 92460
250	10"	150-350	39625 - 92460
300	12"	250-750	66043 - 198129

United Kingdom

KROHNE Ltd.
Rutherford Drive
Park Farm Industrial Estate
Wellingborough,
Northants NN8 6AE, UK
TEL.: +44(0)19 33-408 500
FAX: +44(0)19 33-408 501
e-mail: info@krohne.co.uk

USA

KROHNE Inc.
7 Dearborn Road
Peabody, MA 01960
TEL.: +1-978 535-6060
FAX: +1-978 535-1720
e-mail: info@krohne.com

Other countries

KROHNE Messtechnik GmbH & Co. KG
Ludwig-Krohne-Str. 5
D-47058 Duisburg
TEL.: +49(0)203-301-0
FAX: +49(0)203-301 389
e-mail: krohne@krohne.de