

Variable area flowmeters SGA



- Heavy duty version
- ND 15 to 150
- Ranges in Air or Water
- Coated versions for acids and bases
- Limits 10 bar or 150 °C

APPLICATIONS

- Water treatment, Industrial process (paper mill, textiles etc.), chemical, oil, mining, industries.

DESCRIPTION

The measuring principle is that of the variable area flowmeter, the float is moved by the fluid inside a calibrated conical glass tube. The borosilicate glass conical tube is inside a cast iron protection case with a transparent reading window. These flowmeters can be calibrated specifically for a fluid (gas or liquid).

TECHNICAL FEATURES

Operating pressure	Max. 10 bar
Body temperature	Standard version: Max. 150 °C With rubber lining: Max. 90 °C Special versions on request
Ambient temperature	Max. 90 °C
Scale factor	1:10
Accuracy class	VDE/VDI 3513 page 2 (08/2008)
Error limit (G)	2.5 %
Linear limit (qG)	50 %
Fittings	Flanges PN 10, 25, 40 ; DIN EN 1092-1, other on request

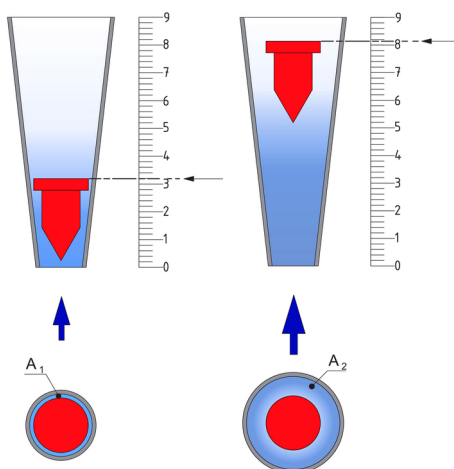
Materials

Body	Grey cast-iron, EN-GJL-200
Corrosion protection	Epoxy coating, glossy blue (RAL 5017)
Corrosion class	C2
Measuring tube	Borosilicate glass, DIN ISO 3585
Reading window	Borosilicate glass, DIN ISO 7081
Seals	Sil - C 4400; other on request
Floats for liquids	1.4571
Floats for gases	Anodized aluminum
Guiding rod	1.4571
Inserts	S 355

Special versions with corrosion protection of all wet parts:

Body	Grey cast-iron with natural rubber lining (NR)
Seals	Sil - C 8200
Floats	AISI 316 Ti, PVC, PP, PVDF
Guiding rod	AISI 316 Ti, PVC, PP, PVDF
Inserts	AISI 316 Ti, PVC, PP, PVDF

- Other materials on request



Principle

BAMO INTERNATIONAL

22, Rue de la Voie des Bans · Z.I. de la gare · 95100 ARGENTEUIL
Tel +33 (0)1 30 25 83 20 Web www.bamo.eu
Fax +33 (0)1 34 10 16 05 E-mail export@bamo.fr

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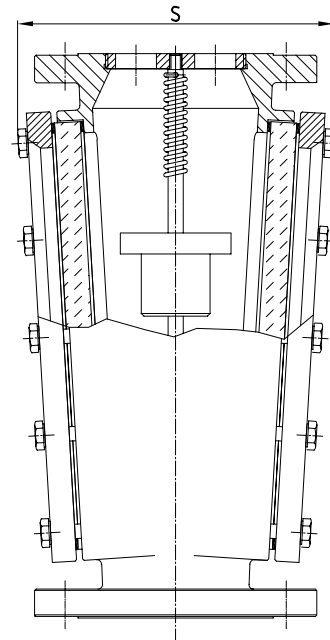
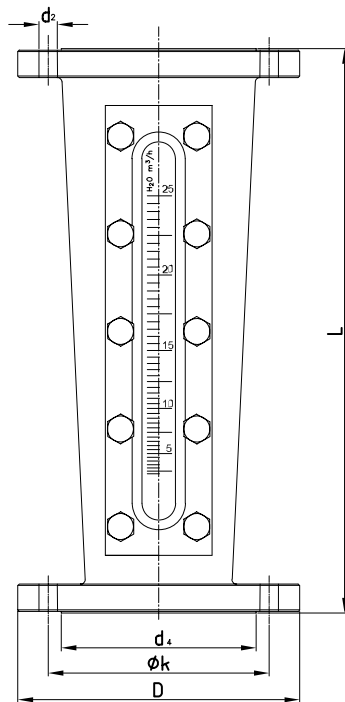
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MEASURING RANGES - DIMENSIONS

Min. - Max.: Intermediate measuring ranges are possible



DN	Ranges			Dimensions							
	H ₂ O	Air ³⁾	P max. ²⁾ 20 °C [bar]	S [mm]	L [mm]	d ₂ [mm]	d ₄ [mm]	D [mm]	Ø K	Screws	Mass [kg]
15	12 - 120 l/h	0.15 - 15 m ³ /h	10	139	370	M12	52	95	65	4	14
	0.12 - 1.2 m ³ /h	1.6 - 16 m ³ /h									
25	0.1 - 1 m ³ /h	1.3 - 13 m ³ /h	10	169	370	M12	70	115	85	4	18
	0.3 - 3 m ³ /h	3.6 - 36 m ³ /h									
40	0.1 - 1 m ³ /h	1.3 - 13 m ³ /h	10	187	370	M16	92	150	110	4	19
	0.8 - 8 m ³ /h	8 - 80 m ³ /h									
40 K	0.8 - 8 m ³ /h	8 - 80 m ³ /h	10	159	370	M16	92	150	110	4	17
	1.5 - 15 m ³ /h	15 - 150 m ³ /h									
50	0.4 - 4 m ³ /h	3.5 - 35 m ³ /h	10	212	370	M16	105	165	125	4	25
	1.6 - 16 m ³ /h	16 - 160 m ³ /h									
50 K	0.8 - 6 m ³ /h	9 - 90 m ³ /h	10	168	370	Ø 18	105	165	125	4	18
	2 - 20 m ³ /h	30 - 300 m ³ /h									
65	2 - 20 m ³ /h	14 - 140 m ³ /h	10	224	370	M16	128	185	145	4	21
	3 - 35 m ³ /h	40 - 400 m ³ /h									
80	2.5 - 20 m ³ /h	15 - 150 m ³ /h	10	229	370	M16	142	200	160	8	27
	6 - 60 ¹⁾ m ³ /h	50 - 500 m ³ /h									
100	2.5 - 20 m ³ /h	15 - 150 m ³ /h	10	229	370	Ø 18	165	220	180	8	30
	6 - 60 ¹⁾ m ³ /h	60 - 600 m ³ /h									
125	8 - 80 m ³ /h	47 - 470 m ³ /h	10	260	480	Ø 18	190	250	210	8	43
	12 - 120 m ³ /h	100 - 1000 m ³ /h									
150	8 - 80 m ³ /h	47 - 470 m ³ /h	10	260	480	Ø 22	215	285	240	8	46
	12 - 120 m ³ /h	100 - 1000 m ³ /h									

On request: Measuring ranges for other fluids and operating conditions

¹⁾ Max. value only for AISI 316 Ti floats

²⁾ Referring to grey cast-iron EN-GJL-200

³⁾ At Standard Temperature and Pressure: 0 °C at 1013 mbar ABS

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