

INDIRECT READING FLOATING FLOWMETERS

G6/C6-250 - G5/C5-250



Magnetic transmission

Indirect reading

Scales for water 0... 63 m³/h

or for air 0... 2000 Nm³/h

Manufactured in Stainless Steel and PTFE Models

Single indicator

1 or 2 adjustable contacts

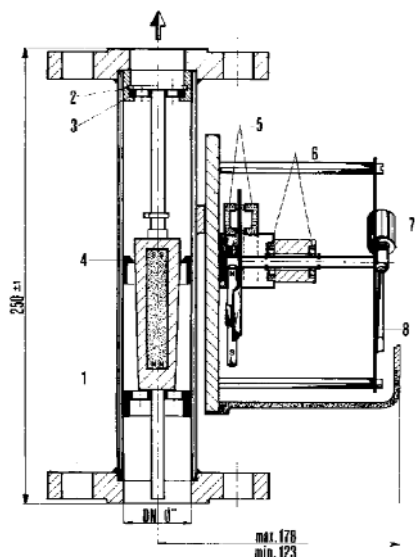
4-20mA output

Intrinsic safe manufacturing

Pneumatic 3-15 PSI output

DN 15 up to DN 100 PN 16/40 flanges

Food Industry fitting



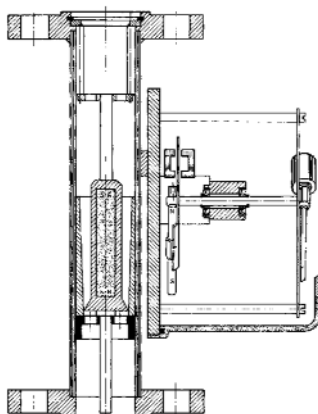
PRINCIPLE

To operate correctly, flow must be **vertical and upward**. If a fluid goes through a measuring tube, with a diaphragm and a conic float, the float is lifted up to a balance point depending on the float weight, on the flow strenght and on the diameter of the tube.

- Every balance point corresponds to a flow value.
- Flow value indication is done by magnetic transmission.

DESCRIPTION

- 1 - Float
- 2 - Elastic ring
- 3 - Higher edge
- 4 - Diaphragm
- 5 - Magnetic brake
- 6 - Balls bearings
- 7 - Balance weight
- 8 - Pointer



BAMO MESURES

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FLOATING FLOWMETERS
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03-03-2004

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TECHNICAL FEATURES

G... flowmeters	: mainly for water
C... flowmeters	: mainly for air
...6 flowmeters	: PN 16 flanges
...5 flowmeters	: Screwed or industry food connections
Watted parts	: Stainless Steel (PVDF or PTFE on request)
Indicator housing	: back in anodised aluminium cover in ABS
Protection	: IP 55
Measure average	: 1 to 10
Scale length	: 100 mm
Accuracy	: $\pm 1.5\%$ ($\pm 1\%$ on request)
Reproducibility	: $\pm 0.5\%$
Pressure	: 40 Bar max. (other on request)
Temperature	: 150°C max. (other on request)
Ambiant temperature	: -25 to 70°C

MEASURE SCALES

In the case of air flow measurement, float will be always in PVDF, the flowmeter frame will be in Stainless Steel.
Assuming that density difference between the float and the gas flow is not very important, pumping phenomenon are avoided.
We suggest to use this type of material for pressures up to 4 absolute bar.
In other cases, flowmeter measuring tube diameter should be bigger than the pipe.

OPTIONS

CONTACTS

Flowmeters are available with 2 inductive contacts.
They are disposed on a groove into the box and are adjustable over all the scale range.
Those contact are available in intrinsic safe security: EEx ib IIC T6.
To be used with BAMOTOP 406 or RDN 11 relay.
Electric output $\frac{1}{2}$ "

ANALOGIC OUTPUT

It is possible to set up with 2 or 3 wires transmitter to have an analogic output
2 wires transmitter : 4-20 mA output
3 wires transmitter : 0-20mA output
Signal linearity : $< \pm 1\%$
Cable gland : $\frac{1}{2}$ "
Available
intrinsic safe security : EEx ib IIC T6.

PNEUMATIC OUTPUT

It is possible to set up with a pneumatic output transmitter.
Input : 1.4 Bar (20 PSI)
Output signal : 0.2 to 1 Bar (3-15 PSI)
Signal linearity : $< \pm 0.5\%$
Hysteresis : $< 0.3\%$
Air consumption : 130 NI/h (constant flow)
Transmitter connection : $\frac{1}{4}$ " NPT Female

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FLOW RANGE FOR G6 AND G5

Type	Water flow (l/h)		max. ΔP mbar	G6 code S.S. - Water	G6 code PTFE - Water	Air range (Nm³/h)		max. ΔP mbar
	from ...	... up to				from ...	... up to	
26 DN 15	2,5	25	150	741 115	741 315	40	400	51
	4	40	150	741 116	741 316	63	630	51
	6,3	63	150	741 117	741 317	100	1 000	51
	10	100	160	741 118	741 318	160	1 600	51
	16	160	170	741 119	741 319	250	2 500	55
	25	250	190	741 120	741 320	400	4 000	60
	40	400	180	741 121	741 321	630	6 300	65
28 DN 25	63	630	210	741 122	-	1 000	10 000	83
	63	630	110	-	741 325	1 600	16 000	55
	100	1 000	110	741 125	741 326	2 500	25 000	55
	160	1 600	110	741 126	741 327	4 000	40 000	55
	250	2 500	140	741 127	741 328	6 300	63 000	55
31 DN 50	400	4 000	170	741 128	-			
	400	4 000	210	-	741 350	10 000	100 000	37
	630	6 300	210	741 150	741 351	16 000	160 000	45
	1 000	10 000	230	741 151	741 352	25 000	250 000	50
	1 600	16 000	250	741 152	741 353	35 000	350 000	60
33 DN 80	2 500	25 000	320	741 153	-			
	4 000	40 000	250	-	741 380			
34 DN 100	4 000	40 000	260	-	741 390			
	6 300	63 000	260	741 190	-			

FLOW RANGE FOR C6 AND C5

Type	Water flow (l/h)		Air flow (Nm³/h)		max. ΔP mbar	C6 code Water
	from ...	... up to	from ...	... up to		
26 DN 15	2,5	25	0,08	0,8	50	742 115
	4	40	0,12	1,2	57	742 116
	6,3	63	0,2	2	57	742 117
	10	100	0,3	3	40	742 118
	16	160	0,5	5	40	742 119
	25	250	0,75	7,5	40	742 120
	40	400	1,2	12	36	742 121
	63	630	2	20	36	742 122
28 DN 25	100	1 000	3	30	42	742 123
	100	1 000	3	30	45	742 125
	160	1 600	5	50	45	742 126
	250	2 500	7,5	75	50	742 127
	400	4 000	12	120	50	742 128
31 DN 50	600	6 000			98	
	250	2 500	7,5	75	50	742 148
	400	4 000	12	120	50	742 149
	630	6 300	20	200	50	742 150
	1 000	10 000	30	300	45	742 151
	1 600	16 000	50	500	45	742 152
33 DN 80	2 500	25 000*	75	750*	52	742 153
	2 500	25 000	75	750	48	742 179
	4 000	40 000	120	1 200	48	742 180
34 DN 100	6 300	63 000	200	2 000	85	742 181
	4 000	40 000	120	1 200	48	742 189
	6 300	63 000	200	2 000	75	742 190
	10 000	100 000			85	742 191

* Only C6 models

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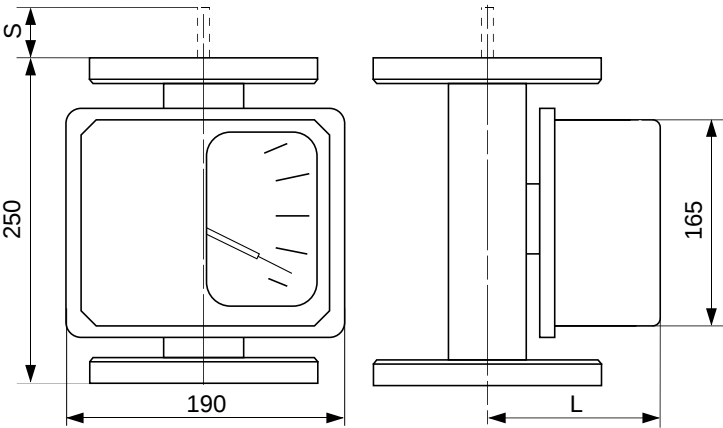
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Flanges connections



Dimension (G6)

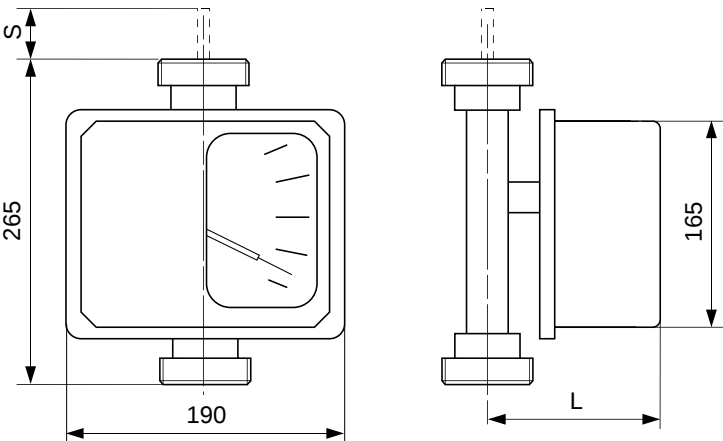
Type	DN	S	L	Weight /Kg
26	15	39	123	3,100
28	25	53	130	4,200
31	50	65	148	9,200
33	80	65	161	12,800
34	100	65	177	15,800

Dimension (C6)

Type	DN	L	Weight /Kg
26	15	123	3,100
28	25	130	4,200
31	50	148/155*	9,200
33	80	168	12,800
34	100	177	15,800

* Only for: Q = 25 000 l/h

DIN threaded connections



Dimension (G5)

Type	DN	S	L	Weight /Kg
26	15	31,5	123	2,000
28	25	45,5	130	2,600
31	50	60,5	148	5,000
33*	80	53	161	7,500

274 between axis for 33 type

Dimension des C5

Type	DN	L	Weight /Kg
26	15	123	2,000
28	25	130	2,600
31	50	148	5,000
33*	80	168	7,500

274 between axis for 33 type