

Variable area flow metre G6/G5-250



- Magnetic movement transmission
- Scales: 2.5 to 63000 L/h (water)
- Float: Stainless steel 316 L or PTFE
- Threaded or flange connections
- Options:

LCD digital display for flow rate and totalization

Hart protocol, 4-20 mA output

1 or 2 adjustable alarm contacts

ATEX certification,

EEx ia IIC T6 / EEx d IIB T4

DESCRIPTION

These flow-metres are designed for liquids.

The transmission of the float position to the display is magnetically operated. The small distances between the connections allow an easy location in a small volume.

As options there are a transmitter 4-20 mA two wires model and alarm contacts.

For ATEX area, two versions are certified, intrinsically safe **EEx ia** and explosion proof **EEx d**.

PRINCIPLE

For a correct operation, the flow must be **vertical and upward**.

The liquid passes through a diaphragm pushing a conical. The float position is at the equilibrium point between the kinetic energy due to the speed of the fluid and the float weight, profile and diaphragm geometry.

- Each balance point corresponds to a flow rate value.
- Flow rate transmission is done with a magnetic transmission.

BAMO MESURES

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Variable area flow metre
G6/G5-250

08-03-2012

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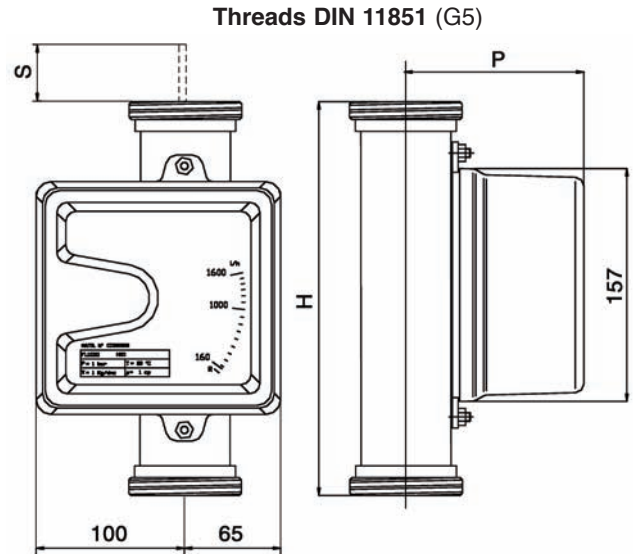
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SCALES FOR STAINLESS STEEL FLOAT

Type - DN	(L/h) 20°C		Codes	ΔP /mbar
	de	à		
26 - DN 15	2,5	25	741 215	150
	4	40	741 216	150
	6,3	63	741 217	150
	10	100	741 218	160
	16	160	741 219	170
	25	250	741 220	190
28 - DN 25	40	400	741 221	180
	63	630	741 222	210
	100	1 000	741 225	110
	160	1 600	741 226	110
31 - DN 50	250	2 500	741 227	140
	400	4 000	741 228	170
	630	6 300	741 250	210
33 - DN 80	1 000	10 000	741 251	230
	1 600	16 000	741 252	250
34 - DN 100	2 500	25 000	741 253	320
	4 000	40 000	741 280	250
	6 300	63 000	741 290	260

DIMENSIONS

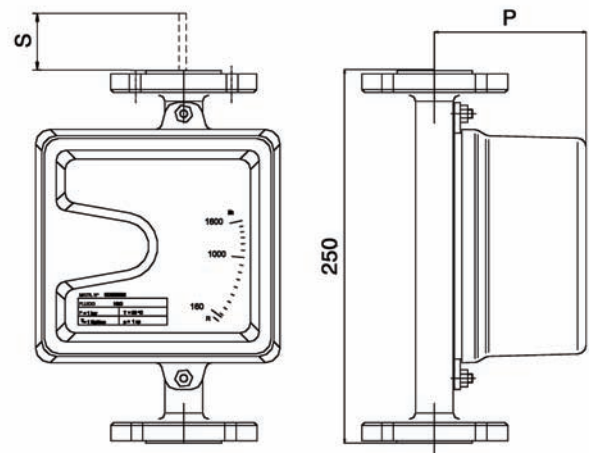


Type	DIN 11851	H /mm	S /mm	P /mm	kg
2600	1"	265	31,5	123	2,7
2800	1 1/2"	265	45,5	130	3,3
3100	2 1/2"	265	60,5	148	5,7
3300	4"	274	53	168	8,2

SCALES FOR PTFE FLOAT

Type - DN	L/h (Water at 20°C)		Codes	ΔP /mbar
	de	à		
26 - DN 15	2,5	25	741 415	150
	4	40	741 416	150
	6,3	63	741 417	150
	10	100	741 418	160
	16	160	741 419	170
	25	250	741 420	190
28 - DN 25	40	400	741 421	180
	63	630	741 422	210
	100	1 000	741 426	110
	160	1 600	741 427	110
31 - DN 50	250	2 500	741 428	140
	400	4 000	741 450	210
	630	6 300	741 451	230
33 - DN 80	1 000	10 000	741 452	250
	1 600	16 000	741 453	320
34 - DN 100	3 000	30 000	741 480	250
	4 000	40 000	741 490	260

flanges UNI EN 1092-1 (G6)



*(G6 ...)

Type	DN	*S /mm	P /mm	kg
2600	15	39	103	3,8
2800	25	55	110	4,9
3100	50	67	128	9,9
3300	80	67	141	13,5
3400	100	67	157	16,5

TECHNICAL FEATURES

Indicator with or without alarm contacts (standard)

Scale range:	1 to 10
Analogical scale length:	80 mm
Accuracy:	+/- 1.5% full scale (standard)
Repeatability:	0.5% full scale
Maximal pressure:	40 bar
Temperature limits:	-10 ... +150°C without alarm contacts -10 ... +100°C with alarm contacts -30 ... +300°C high temperature version (with and without alarm contacts)
Process connections:	Flanges PN 16 UNI EN 1092-1 (standard); threads BSP, NPT, Triclamp
Wetted parts:	Stainless steel 316 L, PTFE – on request: Titanium, Hastelloy C
Display housing:	Cast aluminium, epoxy painted RAL 7001
Protection:	IP 67
OPTIONS:	Inductive contacts (adjustable all along the scale) with 8 V CC power supply

Indicator with transmitter

Scale range:	1 to 10
Analogical scale length:	80 mm
Accuracy:	+/- 1% full scale (standard)
Repeatability:	0.5% full scale
Programmable display:	LCD, 8 digits (flow rate, %, totalization)
Response time:	< 0.5s (only the electronic)
Analogical output:	4-20 mA, 2 wires
Hart protocol transmission:	optional
Main power:	24 V DC +/-10%
Alarm contacts:	optional, 1 or 2 adjustable contacts
Maximal pressure:	40 bar
Temperature limits:	-10 ... +90°C without alarm contacts -10 ... +90°C with alarm contacts -30 ... +300°C high temperature version (with and without alarm contacts)
Process connections:	Flanges PN 16 UNI EN 1092-1 (standard); threads BSP, NPT, Triclamp
Wetted parts:	Stainless steel 316 L, PTFE – on request: Titanium, Hastelloy C
Display housing:	Cast aluminium, epoxy painted RAL 7001
Protection:	IP 67

OPTIONS

- : **ATEX** Certification **EEx ia IIC T6** (Intrinsically safe)
- : **ATEX** Certification **EEx d IIB T4** (Explosion proof enclosure)

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