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Flow Meter GR-150GK

- **Minimum measurement quantity**
- **Convex cut for enlargement**
- **Optionally valve**
- **Good resistance to medium**

Characteristics

A float moves in a transparent conical measurement tube, relative to the flow. The position of the float depends on the volume flow (weight force versus resistance to flow), and indicates the flow rate on the scaled measurement tube.

Technical data

Switch	without	
Nominal width	DN 4	
Process connection	female thread $^1/_8$ " NPT	
Metering range	0.004..444 l/min	for details see table "Ranges"
$Q_{max.}$	120 % of full scale value	
Tolerance	±5 % of full scale value	
Pressure resistance	PN 12 bar	
Medium temperature	-20..+90 °C	
Ambient temperature	-20..+70 °C	
Media	water, gases	
Electrical data	none	
Materials medium-contact	borosilicate glass, glass, stainless steel, FKM	
Non-medium-contact materials	glass, CW614N valve: ABS, CW614N	
Weight	0.7 kg	
Installation location	vertical inwards flow from below	

Ranges

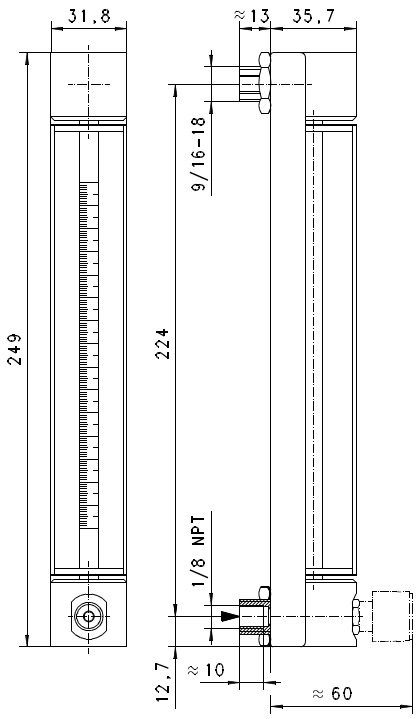
The details in the table correspond to a vertical inwards flow from below.

The metering ranges for air correspond to a temperature of the medium of 0 °C and a pre-pressure of 1.013 bar.

The scale has millimetre divisions. With the aid of the conversion diagrams included in the scope of the delivery, the flow rate can rapidly be determined.

Metering range Air cm³/min	**Metering range** H_2O cm³/min	**Float**	**Types**
2 - 50		Glass	GR-150GK0005G
2 - 106			GR-150GK0010G
4 - 152		Stainless steel	GR-150GK0015K
5 - 308			GR-150GK0029K
10 - 400		Glass	GR-150GK0040G
20 - 855	0.4 - 18.0		GR-150GK0085G
40 - 870	0.6 - 22.2	Stainless steel	GR-150GK0087K
60 - 1710	1.6 - 47.5		GR-150GK0171K
30 - 2290	0.5 - 50.0	Glass	GR-150GK0229G
40 - 3425	1.2 - 75.0		GR-150GK0342G
100 - 4480	2.0 - 125.0	Stainless steel	GR-150GK0448K
100 - 6600	2.0 - 190.0		GR-150GK0660K
150 - 9180	3.0 - 215.0	Glass	GR-150GK0918G
400 - 17810	10.0 - 515.0	Stainless steel	GR-150GK1781K
400 - 23740	5.0 - 565.0	Glass	GR-150GK2374G
1000 - 44050	20.0 -1335.0	Stainless steel	GR-150GK4405K

Dimensions



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Handling and operation

- Include straight calming section of 5 x DN in inlet and Install an outlet.
- If the media are dirty, install a filter

Ordering code

	1.	2.	3.	4.	5.	6.
GR		**150**	**G**			

❍=Option

1.	**Valve**				
	-	without valve			
	V-	with valve			
2.	**Length of scale**				
	150	150 mm			
3.	**Process connection**				
	G	female thread			
4.	**Connection material**				
	K	stainless steel			
	A ❍	aluminium			
	M ❍	brass			
5.	**Display range cm³/min for vertical inwards flow**				
		Air (0 °C, 1.013 bar abs.)	**Water**		
	0005	2 - 50		●	
	0010	2 - 106		●	
	0015	4 - 152			●
	0029	5 - 308			●
	0040	10 - 400		●	
	0085	20 - 855	0.4 - 18.0	●	
	0087	40 - 870	0.6 - 22.2		●
	0171	60 - 1710	1.6 - 47.5		●
	0229	30 - 2290	0.5 - 50.0	●	
	0342	40 - 3425	1.2 - 75.0	●	
	0448	100 - 4480	2.0 - 125.0		●
	0660	100 - 6600	2.0 - 190.0		●
	0918	150 - 9180	3.0 - 215.0	●	
	1781	400 - 17810	10.0 - 515.0		●
	2374	400 - 23740	5.0 - 565.0	●	
	4405	1000 - 44050	20.0 -1335.0		●
6.	**Float**				
	G	glass			
	K	stainless steel			

Options

- Float made from sapphire, tantalum, or carbon
- Brass valve
- Valve with fine adjustment
- special ranges are possible

Ordering information

- Specify direction of flow, medium, and display range.
- For gases, state pressure (relative or absolute), temperature and medium (e.g. air) (request display range)