

Product type

BRV-133

Full Metal Variable Area Flow Meter

Rev. 3. 05/16

- Flow measuring of liquids and gas
- Horizontal and vertical mounting possible
- Robust design with measuring ring and conical-shaped float
- Linear characteristic thanks to optimized float
- Clear 90°-scale

Function

Inside the flow tube, there is a star guided float which works towards a spring. An annular gap is produced between the cone-shaped magnet system and the meter ring in case of flows other than zero. The position of the magnet system depends on the resulting force of all forces acting upon it. These forces comprise the flow force, a spring force acting opposite to the flow force, and the buoyancy and weight force significant for the measurements in case of vertical installation. Each position of the magnet holder corresponds to a flow value measured during calibration, which is transferred to a scale. The BRV-133 flow meter consists of a meter tube with connections, a meter ring, and a conical magnet holder. By means of a magnet, the position of the magnet system is transferred to an encapsulated follow magnet, which has been fitted to a pointer axle. The position of a second annular follow magnet fitted on the pointer axle is transferred to the scale by means of the pointer.

Application

The BRV-133 meter is suitable for flow measurement of liquid or gaseous products in pipes.

The special advantage is that it can be used for all directions of flow.

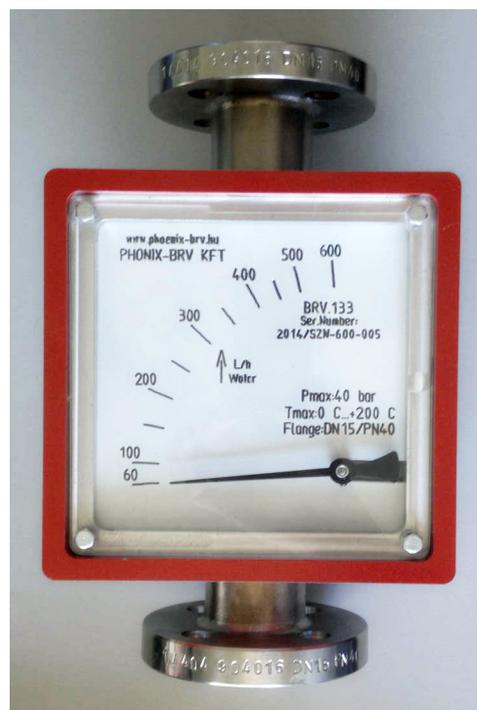
It shows the current flow rate in volume or mass per unit in time.

Applications: flow measurement, dosing, monitoring, adjusting and control of liquid and gaseous products.

The meter's design makes it ideal for processes under difficult and adverse operating conditions.

The devices are available with additional electrical equipment for process monitoring and control.

- A large spectrum of wetted materials
- Magneto-resistive signal transmission
- Special design for high-pressure and high-temperature applications
- Excellent heat tracing technology (as option)



Technical data

Sensor	1.4404 (316 L) / 1.4571 (316 Ti), PTFE
Materials:	other materials on request
Process connection:	Flanges acc. EN 1092, ASME B16.5, DIN2512, JIS, NPT, screw pipe connection, special connections on request
Nominal pressure:	PN 40, ASME CI150 / 300 (standard) PN 16, ASME CI150 (standard) higher pressure rates optional max. 600 bar
Process temperature:	-40°C up to +350°C)
Ambient temperature:	-40°C up to +80°C
Ingress protection:	IP 65 (EN60529)
Ambient temperature:	-40°C up to +80°C

Certification:

CE-Marking: Pressure Equipment Directive 97/23/EC

Ranges

	Range	Model Air	Model Water
DN15	H	10 - 100 l/h	5 - 50 l/h
	I	16 - 160 l/h	7 - 70 l/h
	J	25 - 250 l/h	10 - 100 l/h
	K	40 - 400 l/h	16 - 160 l/h
	L	60 - 600 l/h	25 - 250 l/h
DN25	M	100 - 1000 l/h	100 - 1000 l/h
	N	160 - 1600 l/h	160 - 1600 l/h
	P	250 - 2500 l/h	250 - 2500 l/h
	Q	400 - 4000 l/h	400 - 4000 l/h
DN40	P	250 - 2500 l/h	250 - 2500 l/h
	Q	400 - 4000 l/h	250 - 2500 l/h
	R	600 - 6000 l/h	400 - 4000 l/h
	S	1000 - 10000 l/h	1000 - 10000 l/h
DN50	Q	400 - 4000 l/h	400 - 4000 l/h
	R	600 - 6000 l/h	600 - 6000 l/h
	S	1000 - 10000 l/h	1000 - 10000 l/h
	T	1600 - 16000 l/h	1600 - 16000 l/h
	U	2500 - 25000 l/h	2500 - 25000 l/h
DN80	T	1600 - 16000 l/h	1600 - 16000 l/h
	U	2500 - 25000 l/h	2500 - 25000 l/h
	V	4000 - 40000 l/h	4000 - 40000 l/h

Reference condition: according to IEC 770:
Water at 20°C