

ROBUST HIGH QUALITY FLOW MONITORS

1 Setpoint Contact
Shockproof up to 4G
Longlife



Mechanical Flow Switch for Liquids



EF-G is recommended in applications where low signal point can be combined with large flows passing without creating a large pressure drop.

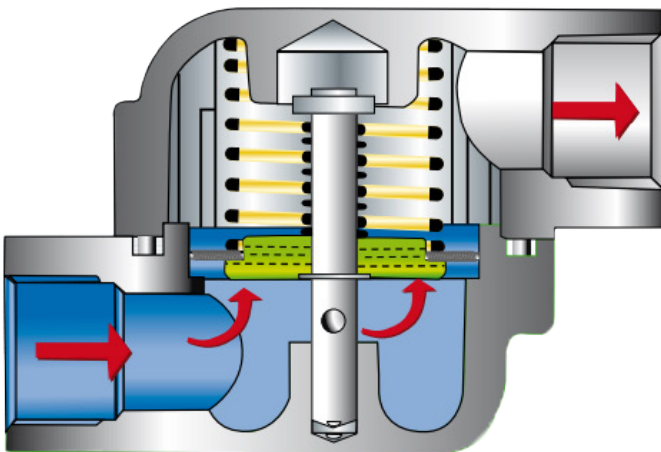
EF-G comes in dimensions DN15 and DN20. The maximum flow is approx. 70 l/min and you have the possibility to choose the set point from 1,5 l/min up to 30 l/min.

EF-G has an inductive sensor. Process pressure up to 100 bar. The outlet can be rotated 90° or 180° with respect to the inlet which gives an installation of limited space.

Benefits of the series

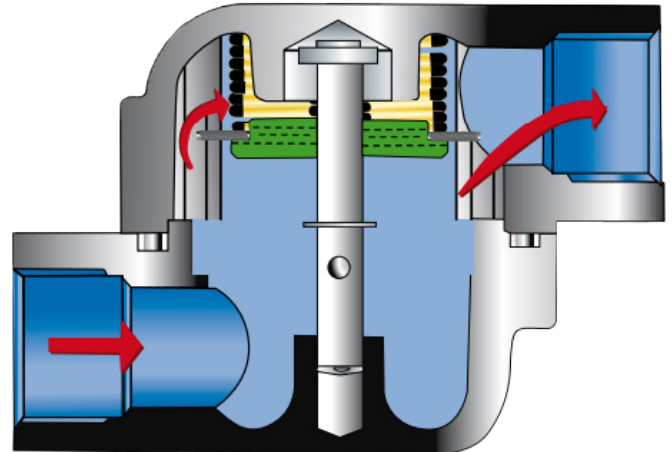
- Rugged and sturdy design
- Insensitive to magnetic fields
- Simple and economical installation
- One adjustable Inductive switch for flow alarm
- Can be mounted horizontally or vertically
- Pressure up to 100 bar
- Can be used in any liquid
- Function based on flow and not affected by the static line pressure.

Working Principle



Closed

Inside the Flow Switch there is a spring loaded calibrated disc, which will be lifted by the liquid passing. The shaft holding the disc is mechanically connected to a lever, which will influence the sensor to trip at a preset flow value.



Open

As soon as the sensor switch has tripped a pump to start or open a valve, the flow increases and the possible flow area increases. The increasing flow volume will push the disc to open fully. Max flow passage is only limited by the pump capacity and the applications accepted pressure drop.

The construction also allows horizontal or vertical mounting of the switch as the spring loaded disc will work independent of installation. Another feature is that the outlet can be rotated 90° or 180° with respect to the inlet, according to the application and hence, the Eletta EF-G can be installed in places where space is very limited.

The flow switch have an internal calibrated disc that activates the sensor switch at the ordered flow rate and this disc is adjusted before delivery. The EF-G has an inductive sensor and allows a process pressure up to a maximum of 100 bar.

Important applications and product features

The Eletta Liquid Flow Switches reliable function has been proven for over 50 years and is of our own design and manufacture. It has been recognized all over the world for its economical and simple construction, which includes the unique lever sealing design, used in our complete Flow Products line including the differential pressure monitors. The switches are used in a variety of tough industrial applications that requires the reliability and sturdiness given by each instrument.

- Dry pump protection
- Low flow alarm in cooling circuits
- Antifreeze protection of heat pump systems
- Protecting heating tool in induction heating machines
- Low cost solution for difficult applications
- Very low flow switching point possible
- Needs no straight runs before or after the switch
- Pre adjusted switch points exclude the need of adjustments in the field

Variation of process connections and materials: Steel, Stainless Steel

Flow range	0 – 3,5 m/s. Max flow limited by pump capacity and acceptable pressure drop
Switch point	1.5l/min min. / 30l/min max.
Wetted Material	stainless steel 316 and PTFE
Rubber Parts	Nitrile rubber HNBR/EPDM/FPM (viton)
Max. pressure	100 bar (1450 PSI)
Max. temp. Control Unit	-20....+70°C
Process connection	DN15 (BSP ½"), DN25 (BSP 1")
Enclosure	IP67 (NEMA 6)
Alarm Contacts	The EF-G has one (1) inductive sensor with 1,5 meter cable Voltage: 20 - 265 V DC/AC
Pressure drop	apx. 0,03 bar/1,5 l/min. (lowest switching point)

Certificates



In our manuals you will find full details of the design, pressure drop graphs, measuring ranges and dimensional drawings. Visit www.eletta.com for more information about Eletta and our Products.

