

All-metal Flowmeters with Float - Construction Line K

Usage

The float flowmeter K is used for the liquid flow measuring.

Description of the device and the measuring principle

The float moves free in a vertically fixed measuring cone and its position is changed according to the flow intensity. The instantaneous float position is transferred by means of the magnetic coupling to the driver pointer that is carried in the stainless bearing. The reliable transfer of the float linear motion to the pointer rotary motion without a necessity of the seals is secured with the magnetic coupling between measuring and displaying parts

Rugged design of the device measuring part.

Local indication independent on the transparency of medium or a measuring tube.

Modular conception, possibility of the float damping, sensor of the flow intensity etc.

Assembly, service, maintenance

Flowmeters have to be located in a vertical position $\pm 2^\circ$ into the piping. The flow direction is from under upward.

Clean – rinse out the piping before the flowmeter installation.

For flowmeter using in the continuous running it is useful to build the branch – bypass, which secures the continuous production process during the device cleaning or the piping rinsing out. The flowmeter, especially plastic must not be stressed by piping action of force, that would be fixed near the connections.

Flowmeters are not allowed to be used in the distance less than 25 cm from the ferromagnetic material or 30 cm up to the second flowmeter with the magnetic transfer. It is impossible to use flowmeters in medium with a strong magnetic field.

Service and maintenance is only to check the tightness, eventually a cleaning of the measuring part coming into the contact with a medium, it is carried out with the safety component removal. Then the upper float guiding and float are removed. After all parts cleaning the flowmeter is assembled in back way.

There is located the adjusting valve between the flowmeter and a pressure source in the piping. The flow values stated on the flowmeter scale relate to conditions (medium, pressure, temperature), that are stated on the device scale and that should be kept in the measuring place. The flowmeter does not require straight piping sections either at the inlet or at the outlet. Other data - see the catalogue.

Setting the limit sensor

The connection of a conductor and the adjustment of the required flow value, when the contact of the sensor SP 5 should be switched on, is carried as follows:

Unscrew 3 pcs of screws in the box back side.

Remove the front part of the box.

Pull through the entry bush of the box front part.

Connect the conductor to the terminal box.

Loose the screw of the sensor SP 5.

Adjust the flow value by SP 5 displacement.

Tight the screw of the sensor SP 5.

Close the case in an opposite way.

Parameters of SP 5

Maximum current of the sensor contact:	0,2 A; 1 A – according to the requirements
Maximum voltage of the sensor:	60 V; 250 V – according to the requirements
Maximum making capacity:	10 W; 50 W – according to the requirements