





Features

/ For low-viscosity fluids
/ Fixed factory-set setpoint
(between 0.1 and 2.5 l/min)
/ Compact construction
/ Easy to install
/ Cost effective
/ Mounting in any position
/ Reed contact output

DK-01

Low-Cost Piston Type Flow Switch for Low Flow Volumes with Cable Connection

Description:

The DK-01 series of compact piston type flowswitches operates according to a modified variable area principle and is used for monitoring the flow of low-viscosity fluids. In this method, a piston equipped with a built-in permanent magnet, is held in a defined position by a spring. Depending on the rate of flow, the medium slides the piston against the strength of the spring. If the flow exceeds or drops below of the present set-point, the reed switch outside the medium is activated without contact via the permanent magnet.

Application:

The DK-01 series is used for monitoring the flow of low-viscosity fluids in pipes. They offer a reliable solution for ensuring the minimum flow rate and thereby protecting high-quality systems and installations from damage. For applications with contaminated media or media with ferritic components, we recommend the use of strainers (for example the FT-01, a strainer with or without magnetic separator in the section accessories) of our catalogue.

Typical applications are:

/ Coolant circulation systems
/ Lubricant circulation systems

/ Water circulation systems



Technical Specifications:

Set-point range / 0.1. . .2.5 l/min

Switching hysteresis / ca. 0.1 l/min

max. Pressure / 25 bar, higher on request

max. Media temp. / +100°C max. Ambient temp. / +70°C

Process connection / R 1/4"-female thread or hose

nozzle for 8 mm flexible tube

other on request

Mounting position / any

Materials (wetted parts) /

Body housing: brass or stainless steel,

other on request

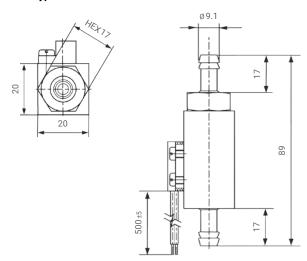
Piston: POM

Spring: stainless steel 1.4410

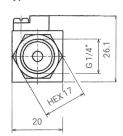
Magnet: hard ferrite OX 300

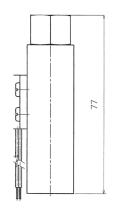
Dimensions in mm:

Piston type flowswitch with 8 mm hose nozzle at both sides



Piston type flowswitch with R 1/4" female thread at both sides





Electrical Specifications:

Electrical connection / stranded wire 2-core, 0.5m cable

Contact / reed contact, NO-contact

max. Switching voltage / 200 V
max. Switching current / 1 A
max. Switching load / 15 W

Handling:

/ It must be ensured, that the values given for voltage, current, and power are not exceeded.

/ When switched on, a load must be connected in series.

/ The electrical details apply to resistive loads.

Capacitive, inductive and lamp loads must be operated using a protective circuit.

/ An inflow section of 10 times and an outflow section of 5 times of the nominal pipe diameter is recommended. Therefore our "BE-01 - Inflow and Outflow Sections for Flowmeters" may be used.

Ordering Codes:

