

DS51

OEM Piston Type Flow Switch for Low-Flow Applications

- for low-viscosity liquids
- low-cost model
- factory-set switchpoint
settable between 0,1 and 2,5 l/min
- small dimensions
- housing made of brass, nickel plated brass
or stainless steel, piston made of POM
- available for any mounting position
- P_{\max} : 25 bar, T_{\max} : 100 °C



Description:

The flow monitors of the DS51 type series are characterised by their robust and trouble-free design.

A piston with integrated permanent magnet is moved by the flowing medium against a stainless steel spring in the direction of flow and thus switches a reed contact attached to the housing. The contact is closed at flow and opens when the flow drops below the set value.

Typical applications:

The flow monitors DS51 are mainly used where flows of low-viscosity media have to be monitored at low cost.

These are for example

- cooling circuits
- heating systems
- welding machines
- laser cooling systems

Models:

DS51.M...:	housing brass
DS51.MN...:	housing brass, nickel-plated
DS51.E...:	housing stainless steel
DS51.S...:	special housing

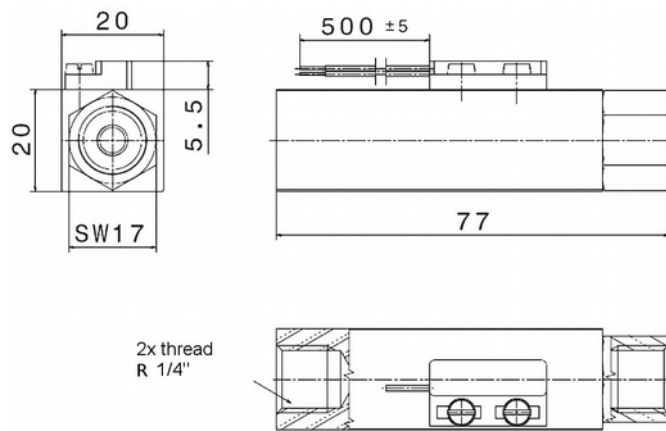
Switching Point:

factory set, between
0,1 to 2,5 l/min water
rising or falling flow rate

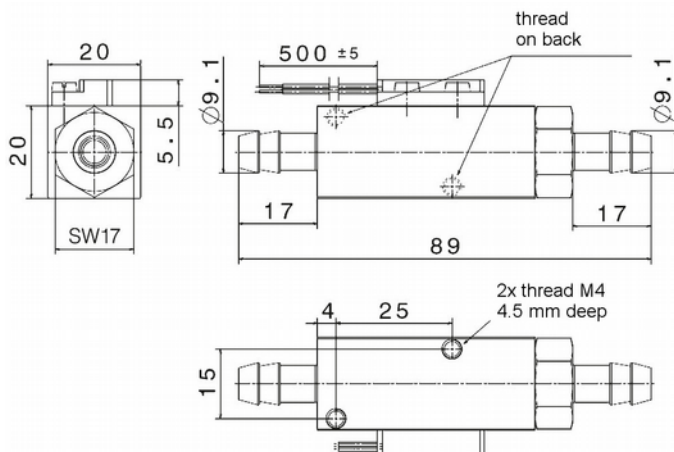
other material versions, process connections and
switching points on request

Dimensions:

DS51...GG08... (1/4" R female thread bilateral):



DS51...SS08... (hose fitting 8 mm bilateral):



Order Code:

Order number: **DS51. M. GG08. F0,5. 0**

OEM Piston-type flow switch

Models:

M = housing brass, piston POM
MN = housing brass, nickel-plated, piston POM
E = housing stainless steel, piston POM
S = special version

Process connection:

GG08 = 1/4" R-thread female bilateral
GS08 = input 1/4" R-thread female, output
hose connection, 8 mm
SG08 = input hose connection, 8 mm,
output 1/4" R-thread female
SS08 = input hose connection, 8 mm,
output hose connection, 8 mm
S = special connection

Switching point (xx = 0,1...2,5 l/min, please specify):

Fxx = for falling flow
Sxx = for rising flow

Options:

0 = without
9 = please specify in plain text

Minimum purchase quantity: 10 units

Special versions with higher switching points,
lower pressure loss or other connections
on request.

Technical Data:

Material:

housing: brass, nickel plated brass or stainless steel
piston: POM
spring: stainless steel 1.4401
magnet: hard ferrite OX300

Pressure loss: 1 bar at 2,5 l/min

Max. pressure: 25 bar

**Max. medium-
temperature:** 100 °C

Switch point: 0,1...2,5 l/min water

**Mounting
position:** any

Contact: reed contact, N/O, casting,
200 VDC / 1 A / 15 W

**Electrical
connection:** 2-wire strand, 50 cm

Accuracy: ± 2 % of switching point