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... (¼" R female thread 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 = ¼" R-thread female bilateral
GS08 = input ¼" R-thread female, output hose connection, 8 mm
SG08 = input hose connection, 8 mm, output ¼" 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