FS-17

Stainless Steel Float Switch for Side Mounting

Features

/ Wetted parts stainless steel
/ High chemical resistance
/ Media temperature up to 150°C
/ Up to 15 bar
/ High switching load
/ Easy to assemble
/ Reliable
/ Mercury free
/ Rod versions

Description:

The FS-17 series comprises rugged stainless steel float switches having both an excellent temperature and a high pressure resistance. This series is available in two different designs. Furthermore, custom-made float switch combinations of up to five floats in a rod version, with a maximum length of five meters are possible. The FS-17 float switch operates according to the principle of buoyancy. A hollow float is lifted up by the raising level of fluid until a switching operation is triggered at an angle of 20° to the horizontal line. The determination of the setpoint is performed by the lateral installation of the float switch on the hight of the desired position. The complete FS-17 is designed so that the float is hermetically sealed with the pipe inlet.

Application:

The main area of application is the detection of fluid levels (overflow and dry-running). By using at least two floats, one acting as a maximum contactor and the other as a minimum contactor and in combination with a bistable contact protection relais, automatic level control can be achieved. Design and material selection predestine this float switch for very aggressive, pasty or hot liquids.

Contact protection relais:
We recommend the use of contact protection relays in combination with our float switches.

· Especially for protection of individuals with regard to liquid contact
· Control for automatic filling or emptying via bistable interval relay with locking feature (see also multifunction relay MSR in the section accessories)

Versions:

FS-17 Stainless Steel Float Switch for Side Mounting

FS-17.1.x.x - Stainless Steel Float Switch - spherical shape
FS-17.2.x.x - Stainless Steel Float Switch - cylindrical shape

Technical Specifications:

Process connection /	R 1/2"-male thread
Float size /	
FS-17.1.x.x:	Ø 132 mm
FS-17.2.x.x:	Ø 80 mm, height 180 mm
Function /	omni-directional float switch
Measuring medium /	fluid media
Media density /	p ≥ 0.8 g/cm³
max. Pressure /	
FS-17.1.x.x:	15 bar
FS-17.2.x.x:	6 bar
max. Operating temp. /	+ 150°C
Float material /	stainless steel 1.4571
Hose material /	stainless steel corrugated hose (1.4404) with st. steel wire braid (1.4301)
Cable material /	silicone (non-wetted part)
Cable length /	2000mm (basic length), 270mm of which with a st. steel 1.4404 corrugated hose
Switching angle /	± 20° from the horizontal line
Switching hysteresis /	approx. 100 mm

Ordering Codes:

Order number	**FS-17.**	**1.**	**02.**	**0**

FS-17 Stainless Steel Float Switch for Side Mounting

Float type /
1 = spherical shape
2 = cylindrical shype

Cable length /
02 = 2 m cable
[ ] [ ] = other lengths

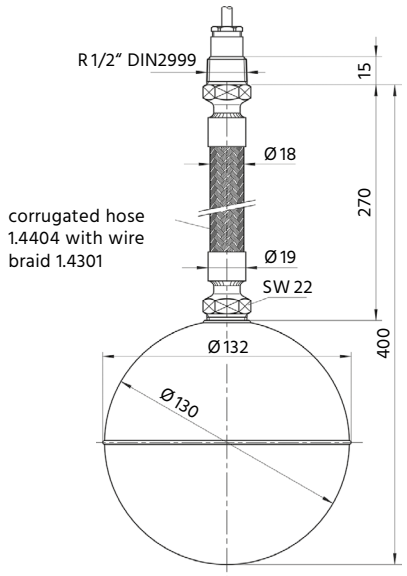
Options (multiple selection such as /1/99 possible) /
0 = none
1 = NAMUR switching (1 kΩ / 12 kΩ)
2 = PTFE-gland, G 2", for version with bellows
3 = PTFE-gland, G 2", for version without bellows
99 = special (please specify in detailed text)

Electrical Specifications:

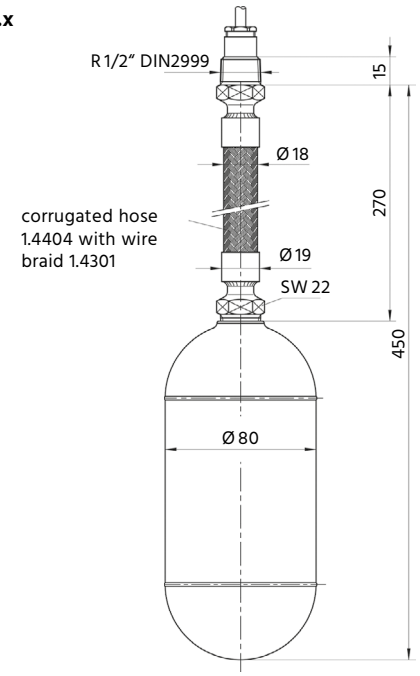
Switching element /	reed contact
Contact /	change-over
Switching voltage /	24. . .250 V AC/DC
Switching current /	1 mA. . .1 A
Switching power /	max. 1 A, 60 VA / 60 W
Protection class /	IP68
Option /	
Namur switching:	1 kΩ / 12 kΩ (for connection at „Namur" relays only)

Dimensions in mm:

FS-17.1.x.x



FS-17.2.x.x



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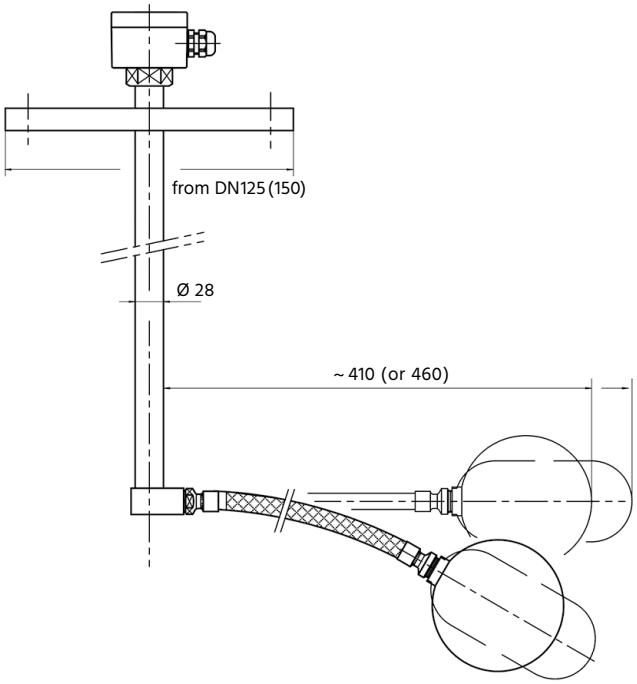
Versions:

FS-17S Float Switch - Rod Version

Electrical Specifications:

Switching element /	reed contact
Contact /	change-over
Switching voltage /	24. . .250 V AC/DC
Switching current /	1 mA. . .1 A
Switching power /	max. 1 A, 60 VA / 60 W
Protection class /	IP68
Option /	
Namur switching:	1 kΩ / 12 kΩ (for connection at „Namur" relays only)

Dimensions in mm:



Technical Specifications:

Process connection /	flange from DN 150 (FS-17.1) flange from DN 125 (FS-17.2)
Float /	sperical- or cylindrical shape
Float size /	
sphere (FS-17.1):	Ø 132 mm
cylinder (FS-17.2):	Ø 80 mm, height 180 mm
max. Number of floats /	max. 5
Function /	omni-directional float switch
Rod length /	max. 5000 mm
Measuring medium /	fluid media
Media density /	p ≥ 0.8 g/cm³
max. Operating temp. /	+ 150°C
max. Pressure /	
sphere (FS-17.1):	15 bar
cylinder (FS-17.2):	6 bar
Float material /	stainless steel 1.4571
Hose material /	stainless steel corrugated hose (1.4404) with st. steel wire braid (1.4301)
Rod material /	stainless steel
Switching angle /	± 20° from the horizontal line
Switching hysteresis /	ca. 100 mm

Ordering Codes:

Order number	**FS-17S.**	**1.**	**[].**	**[][][][].**	**0**

FS-17S St. Steel Float Switch with Rod

Float type /
1 = spherical shape
2 = cylindrical shype

Number of floats /
[ ] = 1. . .5

Rod length L /
[ ] [ ] [ ] [ ] = in mm (max. 5000 mm, from the bottom edge of the flange)

Options (multiple selection such as / 1/ 99 possible) /
0 = none
1 = NAMUR switching (1 kΩ / 12 kΩ)
99 = special (please specify in detailed text)

Other specifications:
- position of the 1st float: L1 = xxxx mm
- position of the x. float: Lx = xxxx mm

(All length specifications are measured from the bottom edge of the flange)

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