

Standard weatherproof float switches FS11 and FS12 (checkable) series



- High reliability in single, dual or multi-level switching
- All wetted parts in 316 stainless steel
- Available in top, bottom or side mounted modes
- Single access hole with multi-level switching options

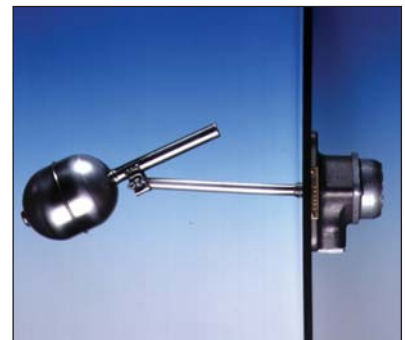
The Avery-Hardoll FS Series of Float Switches are available in many versions to suit individual specifications. They are all stainless steel welded construction, including mounting flange and termination head. Suitable for top, side or bottom mounting to allow for multiple applications.

When fitted with a 500W reed switch these devices are capable of switching small electric motors without the need of a relay, or motors up to 200HP through a contactor.

Side mounted FS11/FS12

The standard side mounted float switches are ideal for conditions where access to the top or bottom of a tank is not possible. Due to the principle of operation the float will cater for any specific gravity. Available as multi-level option with up to four alarms.

Side Mounted Checkable/Lockable versions are available to special order.



Checkable / lockable FS12



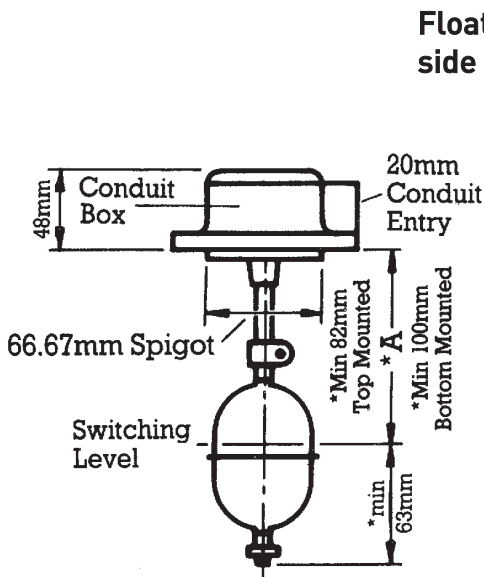
These switches are the only versions fitted with an additional manual level checking facility and a locking option for security. Ideal for applications where periodic alarm checking is required.

Typical applications

Chemical processing
Liquid storage
Pressure vessels
Pump control
High/Low level alarms

Operational dimensions

Standard float switch

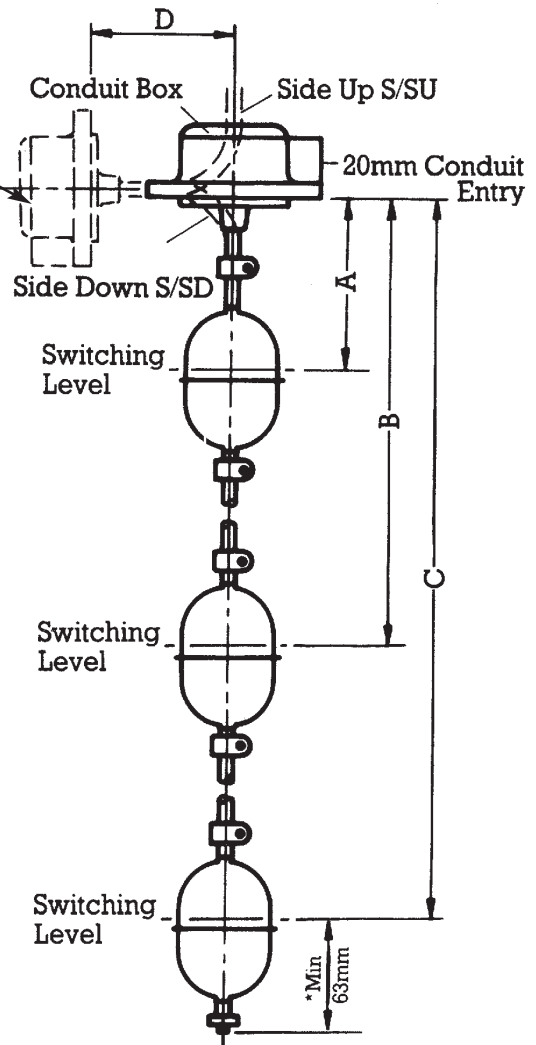


Top or bottom mounted single float

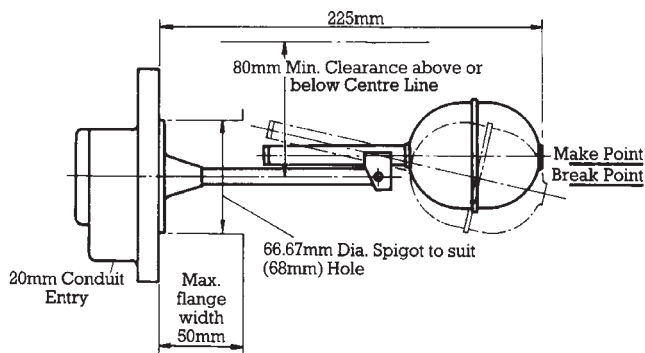
Any adaptor flange requirement can be detailed in the build specifications.

Flanges are 316 stainless steel to ASA 150 rating

Float switch side mounted - 90 deg



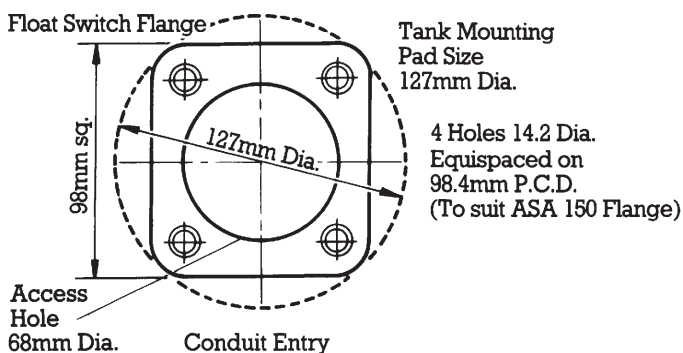
Float switch side mounted



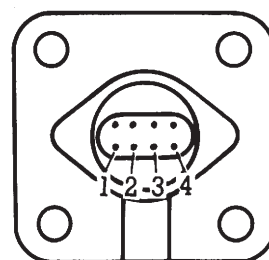
Top or Bottom mounted multiple switching option

On multi-switching options the minimum distance allowed between float centres is 120mm. This dimension is dependent on specific gravity and switch condition (BOR, MOR etc). Shown is the three float configuration which is generally the maximum recommended. Other requirements are available to special order. Avery-Hardoll recommend a maximum tube length of 4 metres.

Drilling dimensions



Terminal block connections

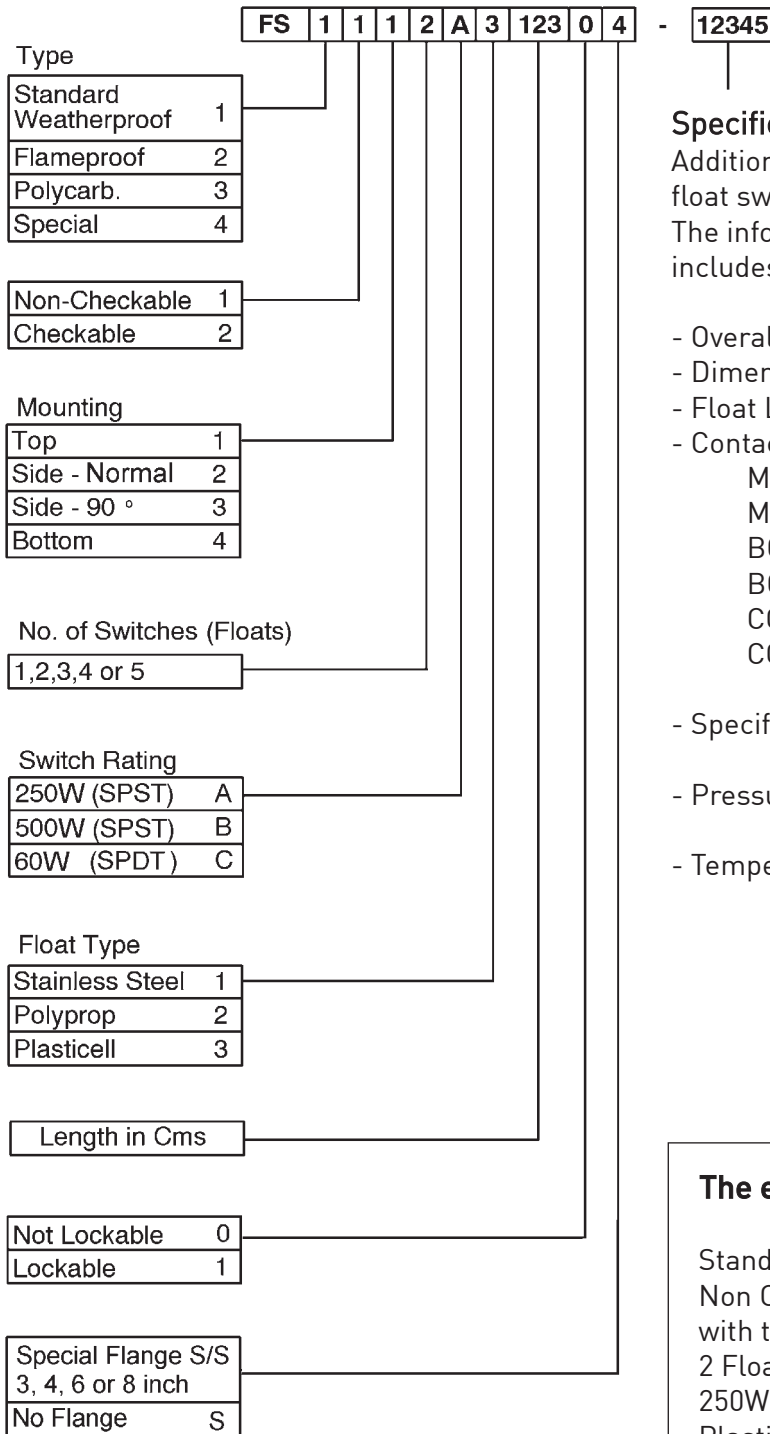


For wiring details please see installation sheet supplied with the equipment.

Ordering Information

When ordering level controllers, technical information is required to ensure the customer is supplied with the correct product specification. For this purpose a special form will be sent on receipt of an order. The form allows the customer to specify exact requirements by ticking boxes which will create the correct part number.

An illustration of how a part number is built is shown below:



Specification

Additional information required to produce a float switch to exact customer requirements. The information is held in database form and includes:

- Overall Length
- Dimension 'D' (FS113/FS123 versions only)
- Float Level Dimensions 'A', 'B,' etc.
- Contact Operation for each switch:
 - MOR - Make on rise
 - MOF - Make on fall
 - BOR - Break on rise
 - BOF - Break on fall
 - COR - Change on rise
 - COF - Change on fall
- Specific gravity of liquid
- Pressure
- Temperature

The example shown specifies:

Standard Weatherproof,	
Non Checkable float switch	FS11
with top mounting	1
2 Float switches	2
250W switch rating	A
Plasticell floats	3
Length (cms)	123 cms
Non-lockable	0
4 inch special flange ANSI	4

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