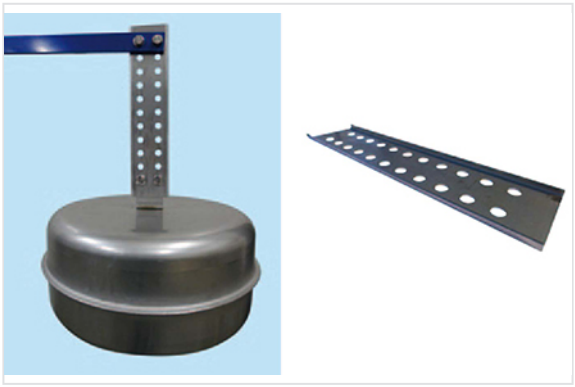
Float valve - Top of water tank



The float valve aims at keeping on a determined level the stretch of water in a water tank. It is set up on the supply pipe at the top.

It opens when the water tank goes down below the chosen level and closes progressively whenever the maximal level is reached.

Its essential properties are:

- its lightness,
- its dismantling easiness thanks to its simple construction,
- its maintenance easiness thanks to its low components number,
- functioning without vibrations nor water hammers.

There are float valves from DN60 to DN300 for a service pressure of 10 bars.

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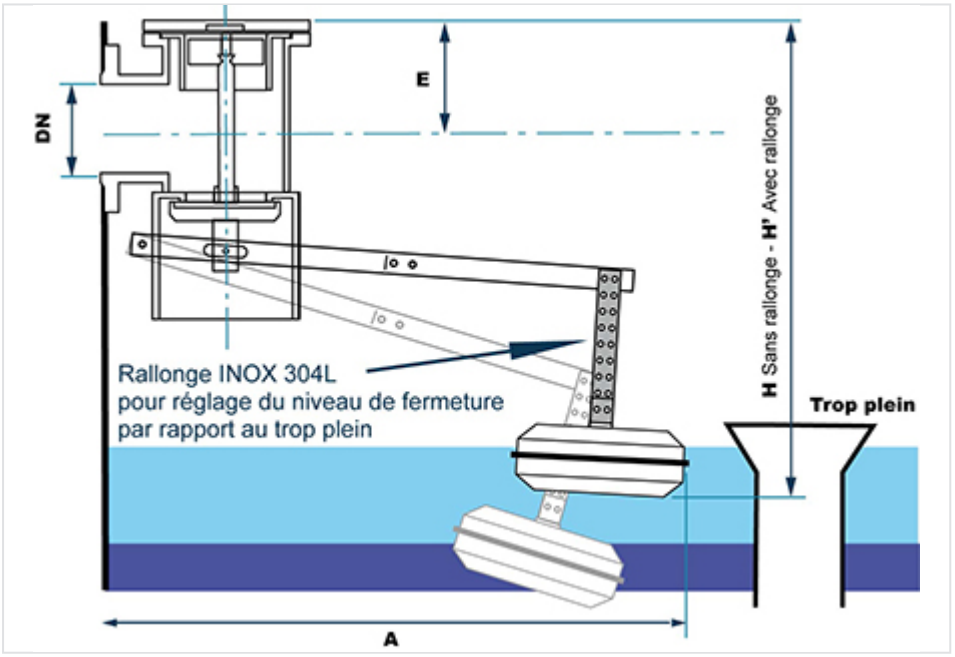
The float valve can be set up at the top of a water tank (with an extension in stainless steel).

The stainless steel extension is systematically supplied up to and including DN200.

DN (mm)	A (mm)	E (mm)	H (mm)	H1 (mm)	Immersed body diameter/height (mm)	Mass (kg)	References
50-65	1530	125	480	800	Ø 470 x 210	25.00	162918
80	1530	116	580	900	Ø 470 x 210	30.00	162921
100	1530	116	580	900	Ø 470 x 210	35.00	162923
125	1530	116	5800	900	Ø 470 x 210	50.00	162913
150	1810	168	760	1080	Ø 470 x 210	60.00	162924
200	2140	215	910	1230	Ø 470 x 320	70.00	162914
250	2280	250	950	1230	Ø 470 x 320	85.00	162925
300	2850	290	1050	1370	Ø 470 x 320	97.00	162926

Flange ISO PN10



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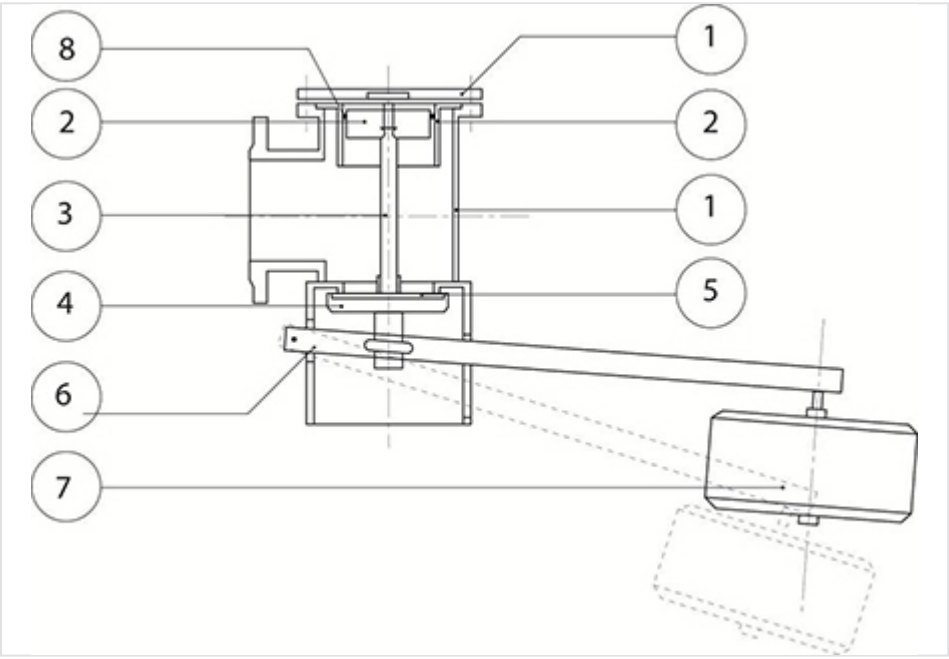
Material and coating



Item	Designation	Material	Coating
1	Body and cap DN60/65	Steel type AE 250	Epoxy powder mini thickness 200 microns
	Body and cap DN80 à 300	Ductile iron GS	
2	Piston and jacket	PVC	
3	Spindle	Steel type Z6 CN 18.09	
4	Check valve	Steel type Xc 38	Epoxy powder mini thickness 200 microns
5	Check valve joint	SBR alimentary	
6	Lever	Steel type Xc 38	Epoxy powder mini thickness 200 microns
7	Immersed body	Stainless steel type 304	
8	Piston joint	Nitrile	

Hydraulic characteristics

Headloss expression by Kα
The headloss ΔH of a valve, the flowing speed of a fluid and the headloss coefficient K□ in the valve are tied by the following formula:

$$\Delta H = K\alpha \frac{V^2}{2g}$$

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with ΔH = headloss in mCE, V = fluid speed in m/s, g = gravitational acceleration in m/s², Kα = headloss coefficient without dimension

Span	25%	50%	75%	100%
Kα	98	32	16	12

Marking

There's a unique marking on the valve's body (description).

This description mentions:

- nominal diameter for entrance,
- service pressure,
- drilling template for flanges,
- serial number,
- manufacturing date.

The information on this sketch is, to the best of our knowledge correct at the time of printing. However Saint-Gobain are constantly looking at ways of improving their products and services therefore reserve the right to change without prior notice, any of the data shown. Any orders placed will be subject to our Standard Conditions of Sale, available on request.

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