



www.tecnoplastic.com

Made in Italy

30

years

with

you

Brochure 2024 - English



About Us

We are an **Italian manufacturing company of float switches and filters**, which was born in 1994 but it has a wide experience in the hydraulics and electromechanical field, that dates back to the 70s. Production takes place at our plant located close to Venice; we conceive, design and create moulds for our products and also thermoplastic moulds for third parties.

We are suppliers of float switches for many pump manufacturers, constructors of water treatment stations, producers of electrical panels and electric components; as well as for distributors and resellers of electric and hydraulics parts and many others. Our company philosophy, as simple as ambitious, has always focused on customer's satisfaction by supplying products of evident quality and reliability, all **Made in Italy**.

Constant innovation, passion, professionalism and first-choice raw materials allow us to get such a well done accessory line for pumps that our company is indeed very similar to a small artisanal factory, but has the high production capacity of a big industry.

ISO 9001:2015 Certified Company, **TUV, UL, EX, EAC, ACS** Certified and ever-changing products.

We firmly believe that the float switch is the heart of every submersible pump and of every civilian and industrial facility. Therefore...

OURFLOAT SWITCHES BOAST THE FOLLOWING QUALITIES:

- mercury free
- electrically tested one by one before being packed, to guarantee the best reliability
- tested in water under vacuum during the whole production, to look for any possible leakage
- weekly subjected to resistance and pressure tests
- made with material suitable for high temperatures
- made with top quality micro-switches with 50.000 life-cycles;
- made with top quality cables: no PVC
- wide range of products for different applications, from domestic to professional

OURFILTERS BOAST THE FOLLOWING QUALITIES:

- plastic materials designed to last over time and suitable for every application
- resistance to high pressure
- anti-water hammer
- embedded patented anti water hammer, to avoid excessive pressure from damaging systems and filters
- patented intermediate joint to join two or more filters together
- suitable materials for drinking water

100% designed and produced in our headquarter close to Venice



Electronic Regulators



Patented Product
E.U. Registered Design

By means of the supplied magnetic key, the customer is able to adjust the delay time of start and stop according to its own needs of use. Also thanks to the Schuko Piggyback Plug version (see page 13) it can be connected directly to a pump without the need of a traditional control panel.

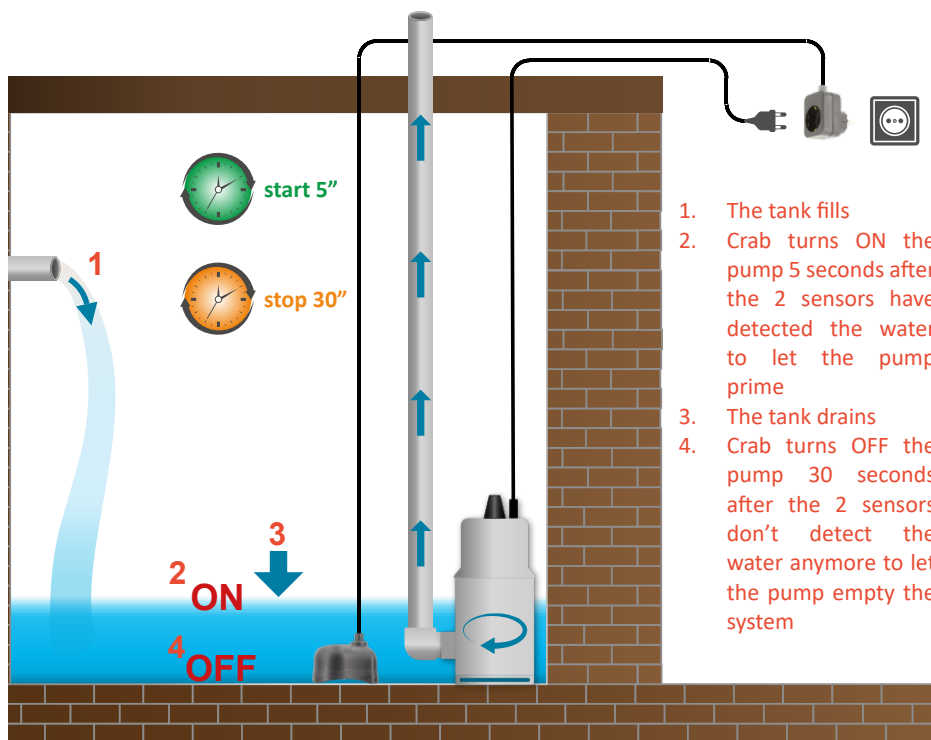
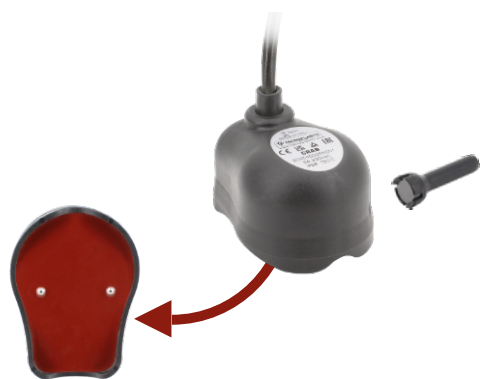
FLOOR SENSOR

Crab

Resting on a flat surface, it remains anchored to the bottom, allowing it to detect the presence of water on the floor.

Suitable for level monitoring in facilities of clear, storm water, industrial and chemical waters.

- Casing: Polypropylene
- Grommet: TPV
- Factory delay time: start 5" / stop 30"
- Adjustable time: start / stop = 1" ÷ 120"



CRAB

H05 4G0,75 SPST-NO

0,70 / 5 / 10 (m)

230Vac 50/60Hz 5A

max.+50°C
(+122°F)

max.10m
(32,8ft)

CRAB

H05 4G0,75 SPST-NO

0,70 / 5 / 10 (m)

12/24Vac/dc

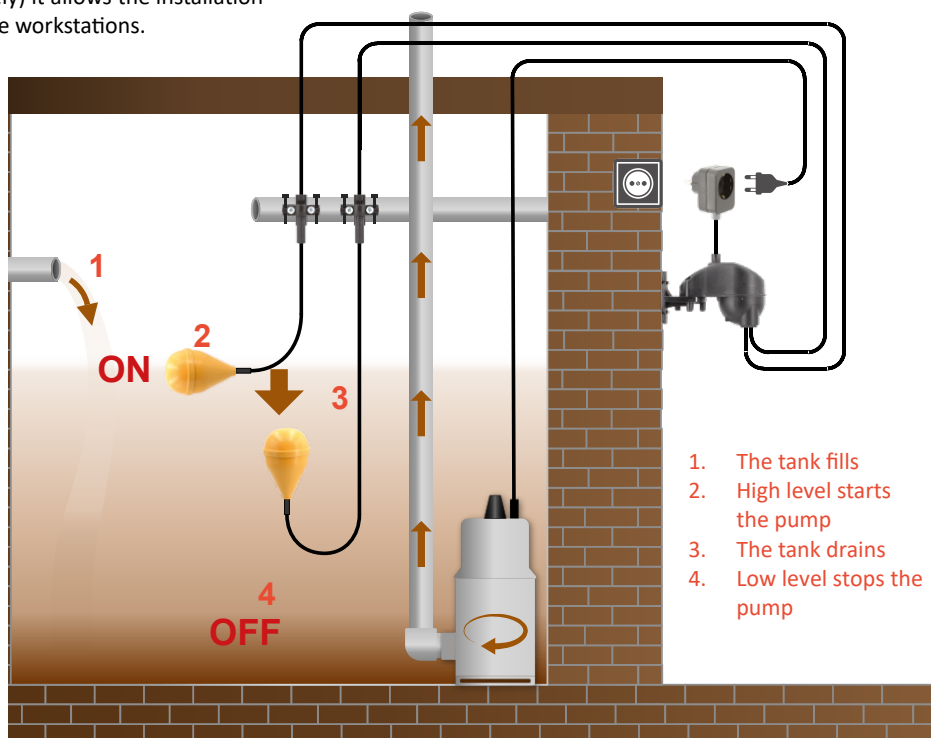
LONG DISTANCES

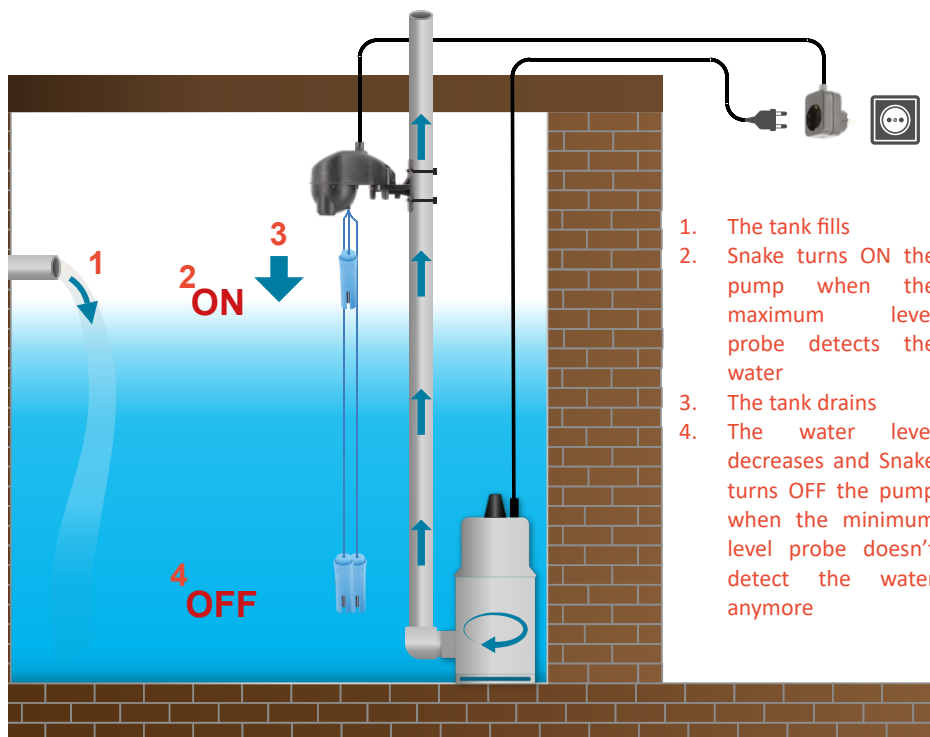
Snake

In combination with Probes or Taurus (sold separately) it allows the installation of the control body at a very long distances from the workstations.

Suitable for level monitoring in facilities of clear, storm water, industrial and chemical waters.

- Casing: Polypropylene
- Grommet: TPV
- Factory delay time: start 0" / stop 0"
- Adjustable time: start / stop = 1" ÷ 120"





SNAKE	H07 4G1 SPST-NO	0,70 / 5 / 10 (m)	230Vac 50/60Hz 5A	max.+40°C (+104°F)	max.10m (32,8ft)
SNAKE	H07 4G1 SPST-NO	0,70 / 5 / 10 (m)	12/24Vac/dc		

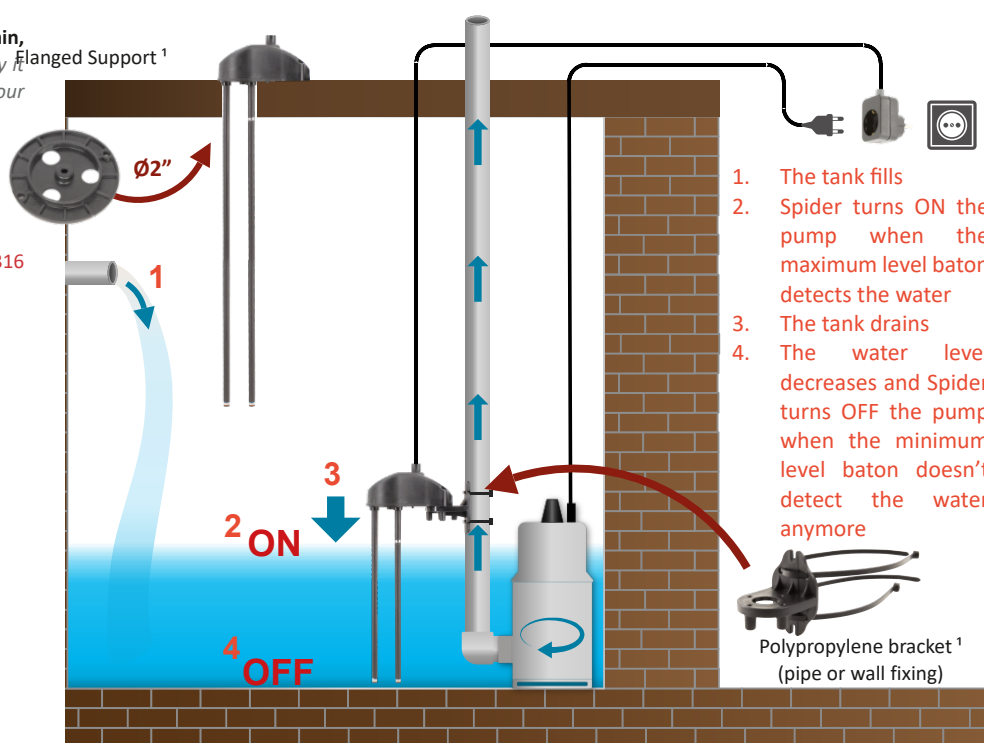
NARROW SPACES

Spider

The rods attached to the body allow the level regulator to work in narrow spaces and in difficult environments with turbulent waters.

Suitable for level monitoring in facilities of clear, rain, industrial and chemical waters. *In case of necessity it is possible to cut the batons to adapt the Spider to your own application*

- **Casing:** Polypropylene
- **Grommet:** TPV
- **Factory delay time:** start 0" / stop 0"
- **Adjustable time:** start / stop = 1" ÷ 120"
- **Lengths of batons:** Stainless Steel AISI 316
min.50 max. 250/500/750



SPIDER	H07 4G1 SPST-NO	0,70 / 5 / 10 (m)	230Vac 50/60Hz 5A	max.+40°C (+104°F)	max.10m (32,8ft)
SPIDER	H07 4G1 SPST-NO	0,70 / 5 / 10 (m)	12/24Vac/dc		

Level Regulators



NARROW SPACES

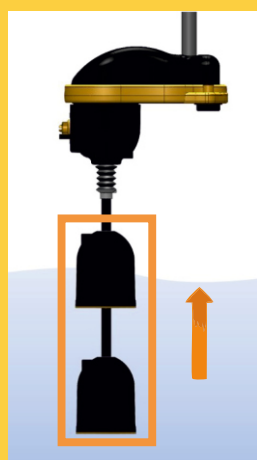
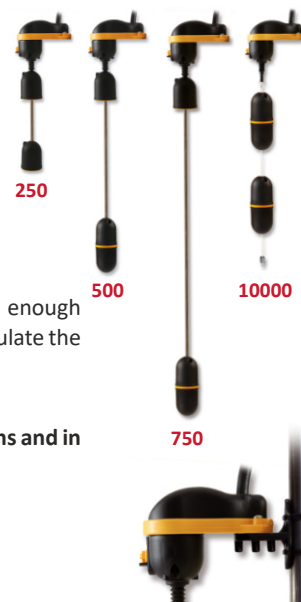
Mouse

Vertical level regulator suitable for narrow spaces where regular floats do not have enough room to move. At user's will the floating bodies can be moved along the shaft to regulate the minimum and maximum level.

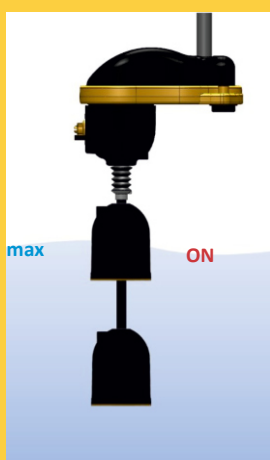
Shaft is available in different lengths.

Suitable to control the water level in clean water, rain water, industrial water systems and in systems with water containing chemical substances.

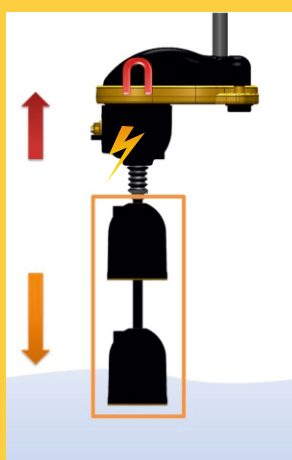
- **Casing:** Polypropylene
- **Grommet:** EPDM
- **Accordion hose:** EPDM
- **Shaft:** PET: 200mm; AISI 316: 250/500/750mm; Polyester: 10m



The tank fills up. The water reaches the maximum level and the whole floating body raises.



The max level turns the pump ON and the tank drains.



The water reaches the minimum level and the weight of the floating body disengages the magnet.



The min. level turns OFF the pump.



Plastic Bracket

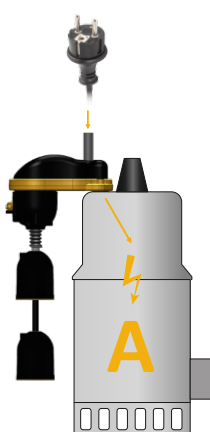


Stainless Steel Bracket

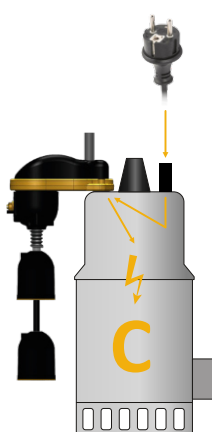


MOUSE 01	H07 RNF 3G1 SPST-NO	0,52 (m)			
MOUSE 05	H07 RNF 4G1 SPDT	2 / 5 / 10 (m)	10(8)A 250Vac 0,1A 12/24V	max.+50°C (+122°F) max.+60°C (+140°F)	max.10m (32,8ft)
MOUSE 04	H05 RNF 3X1 SPDT				
MOUSE 02	H07 RNF 3G1 SPST-NO	0,52 / 2 / 5 / 10 (m)	10(10)a 250v	max.+50°C (+122°F)	

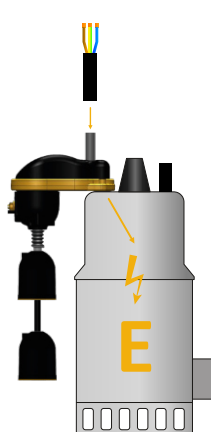
SOLUTIONS FOR PUMP MANUFACTURERS



A



C



E



B
(standard)



D

WASTE WATER



Taurus

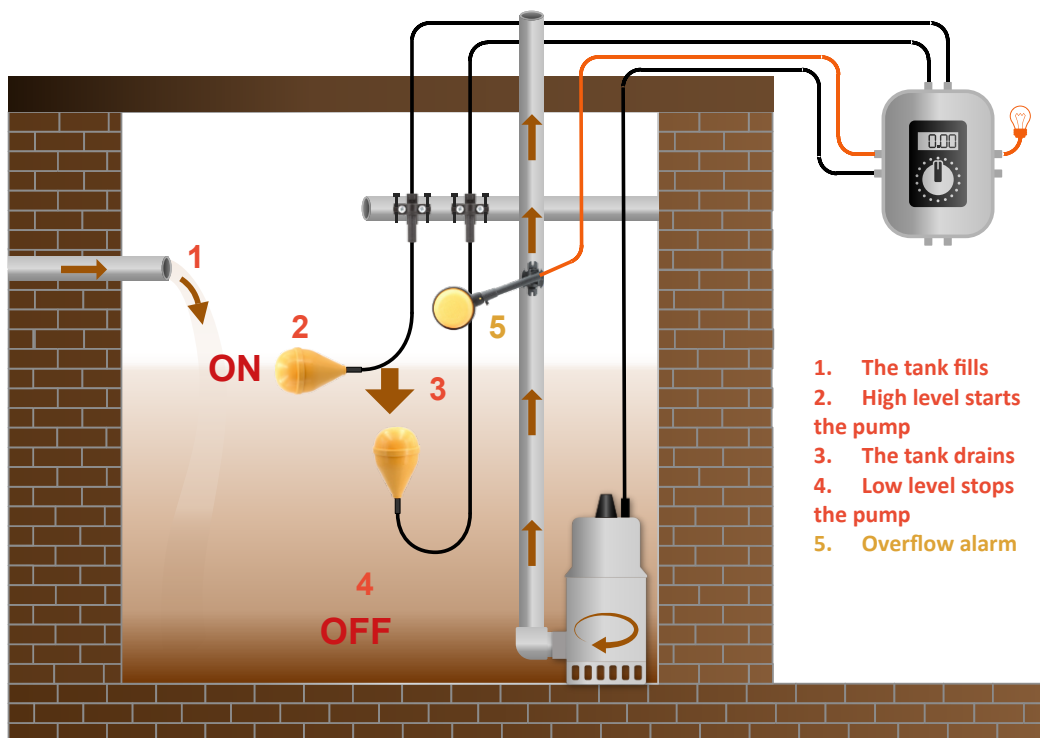
Three watertight chambers level regulator with freely suspended trim variation. **Ideal for heavy-duty applications, for level regulation in sewage facilities and industrial waste waters, and for pumping stations.**

Unlike traditional floats that float on the water surface, the TAURUS thanks to its special construction with integrated counterweight, remains underwater. Used in couple with another of the same type allows you to adjust the levels of minimum and maximum. It's also possible to use a third and fourth regulator for minimum and maximum alarm respectively.

- **Casing:** Polypropylene
- **Specific weight:** 0,95 - 1,05 kg/dm³
- **Grommet:** EPDM



						
TAURUS 03	H07 RNF 3X1 SPDT	6 / 10 / 15 / 20 (m)	10(8)A 250Vac 0,1A 12/24V	max.+50°C (+122°F) max.+60°C (+140°F)	max.20m (65,6ft)	20°±5°
TAURUS 02	H05 RNF 3X1 SPDT					



1. First Chamber: one float switch
2. Second Chamber with counterweight inside
3. Third Chamber of air

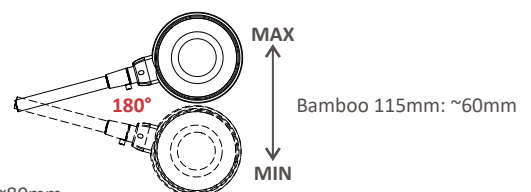
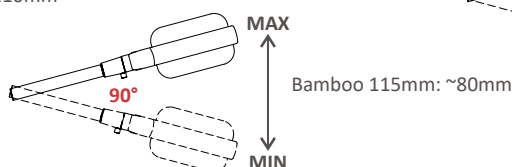
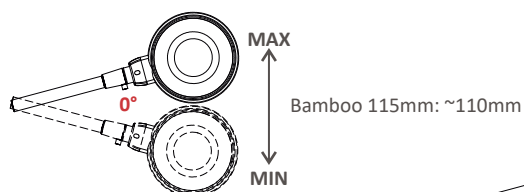
Olympic 03

Float switch with activation angle of **20° for overflow alarm.**

Built with materials highly resistant to mechanical stress, **it is ideal for applications in turbulent waters as it prevents the entanglement of the cable, so the float switch can work properly. It can be used also in narrow spaces, and in sewage and industrial waters.**

It can be fixed it to wells and tanks walls by screws (not supplied), or to pumps delivery pipes of any diameter using the cable ties supplied. It can be assembled with right (recommended) or left orientation. The float switch can be installed in 3 different positions (horizontal, vertical, vertical 180 °) to allow the regulation of small changes in minimum and maximum level.

- **Casing:** Polypropylene



						
OLYMPIC 03	H07 RNF 3G1 SPST-NO	0,52 / 3 / 5 / 10 / 20 (m)	10(8)A 250Vac 0,1A 12/24V	max.+50°C (+122°F) max.+60°C (+140°F)	max.20m (65,6ft)	20°±5°

Cables

IMPORTANT NOTES ON THE CHOICE OF FLOAT SWITCHES

When ordering please specify one of the following types of function:

- **1 single function (SPST) 3G1 - 3G0,75 - 3G1,5:** it can be only **emptying (NO)** and it **cannot be changed** once the float has been produced.

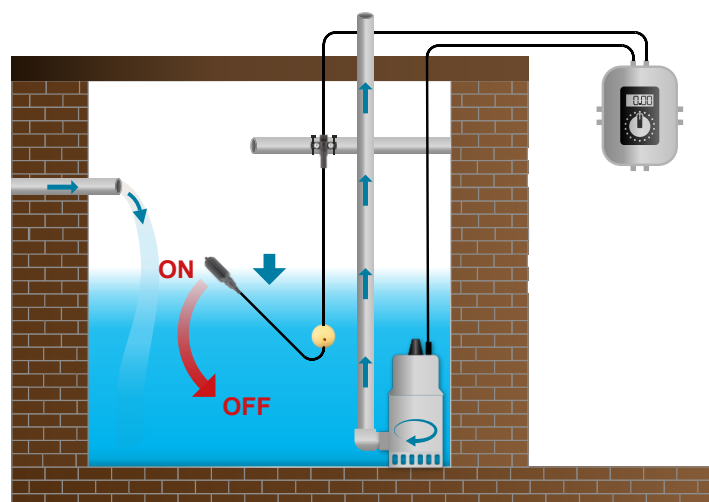
The filling function (NC) is produced only on request.

- **2 double function (SPDT) 3X1 - 4G0,75 - 4G1:** it can be **emptying (NO)** or **filling (NC)**

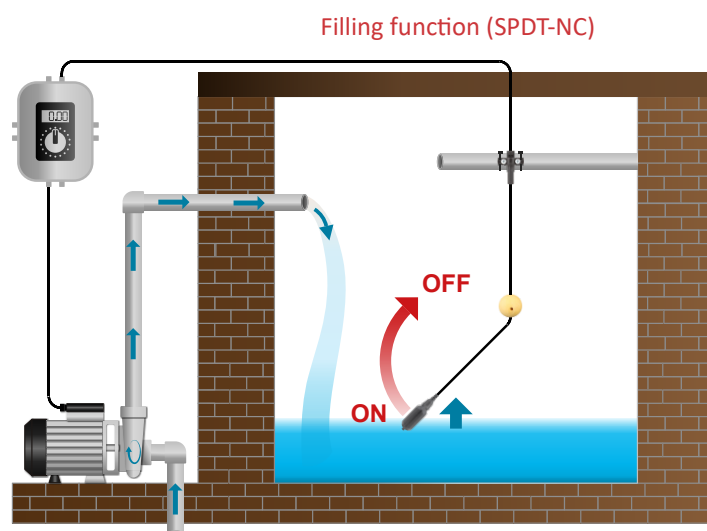
Where: G = Ground wire X = without Ground wire

Note: Electronic level regulators Crab, Spider and Snake are 1 single function (SPST) only emptying (NO). The filling function (NC) is produced only on request.

Traditional Float Switches



Emptying function (SPST-NO or SPDT-NO)



Filling function (SPDT-NC)



WASTE WATER

Flotec

Double chamber float switch for extreme applications where a major buoyant force is required. Ideal for heavy-duty applications, for level regulation of facilities sewage and industrial waste waters, and for pumping stations.

- Casing: Polypropylene



Double Shell 460g

FLOTEC 01	H07 RNF 3G1 SPST-NO						
		6 / 10 (m)	10(8)A 250Vac 0,1A 12/24V	max.+50°C (+122°F) max.+60°C (+140°F)	max.20m (65,6ft)	90°±20°	
FLOTEC 03	H07 RNF 3X1 SPDT						

DEPTH

Supertec

Double chambers float switch resistant to high pressures. A greater buoyancy and the reduced dimensions guarantee high performances.

Ideal for heavy-duty applications, for level regulation of facilities sewage and industrial waste waters, and for pumping stations.

- Casing: Polypropylene
- Grommet: EPDM
- Accordion hose: EPDM



1. First Chamber: one float switch
2. Second Chamber: a resistant cover

SUPERTEC 01	H07 RNF 3G1 SPST-NO					
SUPERTEC 03	H07 RNF 3X1 SPDT	5 / 10 / 20 (m)	10(8)A 250Vac 0,1A 12/24V	max.+50°C (+122°F) max.+60°C (+140°F)	max.40m (131,23ft)	90°±20°
SUPERTEC 02	H05 RNF 3X1 SPDT					



GENERAL PURPOSE

Olympic

Reduced dimensions, the most economic solution for water pumps and plumbing systems automation.

- Casing: Polypropylene



OLYMPIC 01	H07 RNF 3G1 SPST-NO					
OLYMPIC 02	H05 RNF 3X1 SPDT	0,52 / 3 / 5 / 10 / 20 (m)	10(8)A 250Vac 0,1A 12/24V	max.+50°C (+122°F) max.+60°C (+140°F)	max.20m (65,6ft)	90°±20°

Fox

Suitable for water pumps and professional plumbing systems automation.

- Casing: Polypropylene



FOX G04	H07 RNF 3G1 SPST-NO					
FOX G05	H05 RNF 3X1 SPDT	0,52 / 3 / 5 / 10 / 20 (m)	10(8)A 250Vac 0,1A 12/24V	max.+50°C (+122°F) max.+60°C (+140°F)	max.10m (32,8ft)	90°±20°



Atex

Shielded cable in ÖLFLEX® PETRO

Suitable in slime and mud, oil, esters drilling; solutions of calcium bromide; lubricants based on mineral oil; diluted acids, aqueous alkaline solutions and other chemicals; onshore and offshore drilling; supply ships.



Patented
Products



EXPLOSIVE ENVIRONMENTS - II1G Exia II C T6/T5 Ga

Taurus-Ex

Suitable in potentially explosive environments. Suitable for level regulation in drainage plants, pumping stations and dirty water systems.

- **Casing:** Carbon Black Polypropylene
- **Grommet:** EPDM (Viton with Olflex cable)



TAURUS EX

05 RN8-F 4G0,75 SPDT

10 / 20 / 30 (m)

0.1A 30V 0.75W

T6 (-20°C / +40°C)
T5 (-20°C / +80°C)

max.20m (65,6ft)

20°±5°

TAURUS EX

OLFLEX PETRO 4G1 SPDT

Supertec-Ex

Suitable in potentially explosive environments. Suitable for level regulation in drainage plants, pumping stations and dirty water systems.

- **Casing:** Carbon Black Polypropylene
- **Grommet:** EPDM (Viton with Olflex cable)



SUPERTEC EX

05 RN8-F 4G0,75 SPDT

SUPERTEC EX

OIL RESISTANT 3G1 SPST

10 / 20 / 30 (m)

0.1A 30V 0.75W

T6 (-20°C / +40°C)
T5 (-20°C / +80°C)

max.40m (131,23ft)

90°±20°

SUPERTEC EX

OLFLEX PETRO 4G1 SPDT

Special Versions

DRINKING WATER AND LIQUID FOOD

Taurus-Drink - Supertec-Drink - Fox-Drink

Totally manufactured with non-toxic material intended for permanent usage in potable water, that is: water mains, drinking water fountains, drinks and foodstuffs, aquarium, fish farms, swimming pool.

- **Casing:** Polypropylene
- **Grommet Taurus and Supertec:** Megol

ADBlue 32,5%
Salt Water 40%
Caustic Soda 50%
Chlorine 15%
Bleach 15%
Value at ambient temperature
~20°C



TAURUS-DRINK

10 / 20 (m)

max.20m (65,6ft)

20°±5°

SUPERTEC-DRINK

ACS 3X1 SPDT

5 / 10 (m)

10(8)A 250V

max.+40°C (+104°F)

max.40m (131,23ft)

90°±20°

FOX-DRINK

0,52 / 5 / 10 (m)

max.10m (32,8ft)

CHEMICAL ENVIRONMENTS

Taurus-Fep - Flotec-Fep

Suitable for immersion in hydrocarbons, medical and scientific facilities, water purification plants, air conditioning plants.

- Casing: Polypropylene
- Grommet: Viton



						
TAURUS FEP	FEP 4G0.75 SPDT	10 / 20 (m)	20(8)A 250V	max.+80°C (+176°F)	max.20m (65,6ft)	20°±5°
FLOTEC FEP						90°±20°









HIGH TEMPERATURES
Mouse-HT - Taurus-SiHF - Fox-G06 - Fox-G09

- Casing: Polypropylene
- Accordion Mouse: Viton
- Grommet Taurus: Viton
- Shaft Mouse: Stainless Steel AISI 316

RN8-F cable for ADBlue 32,5%
Value at ambient temperature
~20°C



						
MOUSE-HT	RN8-F 3G1 SPST-NO	0,52 / 2 / 5 / 10 (m)	20(8)A 250V	max.+80°C (+176°F)	max.10m (32,8ft)	/
TAURUS-SiHF	SiHF 4G1,5 SPDT	10 / 20 (m)			max.20m (65,6ft)	20°±5°
FOX-G06	H07 RN8-F 3G1 SPST-NO	5 / 10 (m)	10(10)A 250V for pumps till 2HP	max.+70°C (+158°F)	max.40m (131,23ft)	90°±20°
FOX-G09	H07 RN8-F 3G1,5 SPST-NO	0,52 / 5 / 10 (m)	16(10)A 250V for pumps till 3HP		max.10m (32,8ft)	



ABRASION

Taurus-Pur

It is highly resistant to abrasion and tear and suitable for immersion in cutting fluids and coolant. Ideal for use on industrial machinery and in installation plants.

- Casing: Polypropylene
- Grommet: Viton

						
TAURUS PUR	PUR 4G0.75 SPDT	10 / 20 (m)	20(8)A 250V	max.+80°C (+176°F)	max.20m (65,6ft)	20°±5°

Accessories



115mm

145mm



Bamboo

Exclusive accessory for Olympic and Fox float switches.

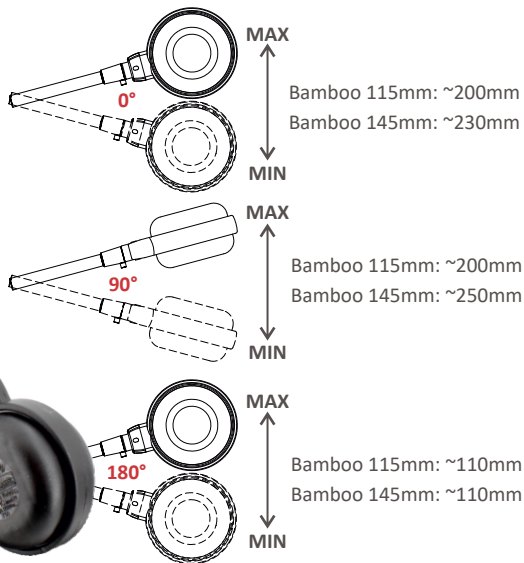
It is ideal for applications in turbulent waters as it prevents the entanglement of the cable, so the float switch can work properly. It can be used also in narrow spaces, and in sewage and industrial waters.

Available in two sizes: 115mm and 145mm

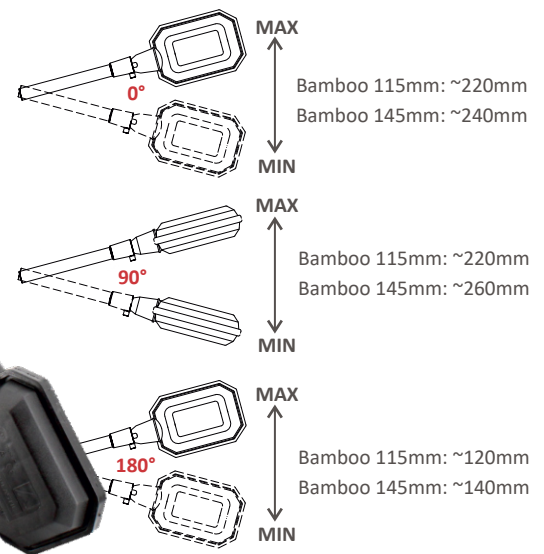
Special versions available for pump manufacturers.

- **Casing:** Nylon
- **Cable Section:** Ø7-9mm
- **Screws:** Stainless Steel AISI 304

OLYMPIC



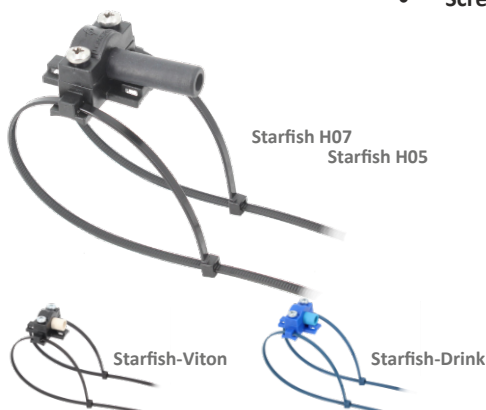
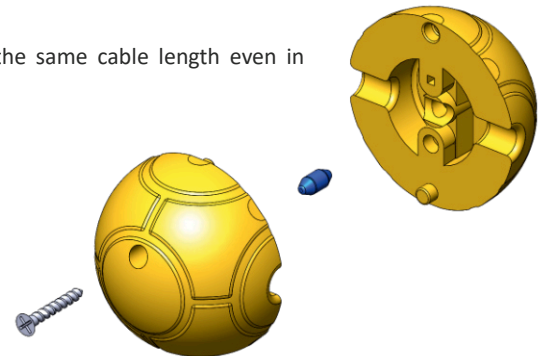
FOX



Shell

It allows the float switch to work always with the same cable length even in turbulent waters avoiding damages to the cable.

- Easy to install
- Adaptable to different cables: Ø7-9 mm
- For Universal floats
- Ecological for drinking water
- **Casing:** Polypropylene
- **Weight:** 230g
- **Cable Section:** Ø7-9mm
- **Strain Relief:** Megol
- **Screws:** Stainless Steel AISI 304



For fixing the float switch to every type of tube and to protect the cable against the deterioration that weight and wave motions could cause.

- **Casing:** Nylon
- **Grommet:**
 - EPDM (standard)
 - Viton
 - Megol (Drink)
- **Screws:** Stainless Steel AISI 304



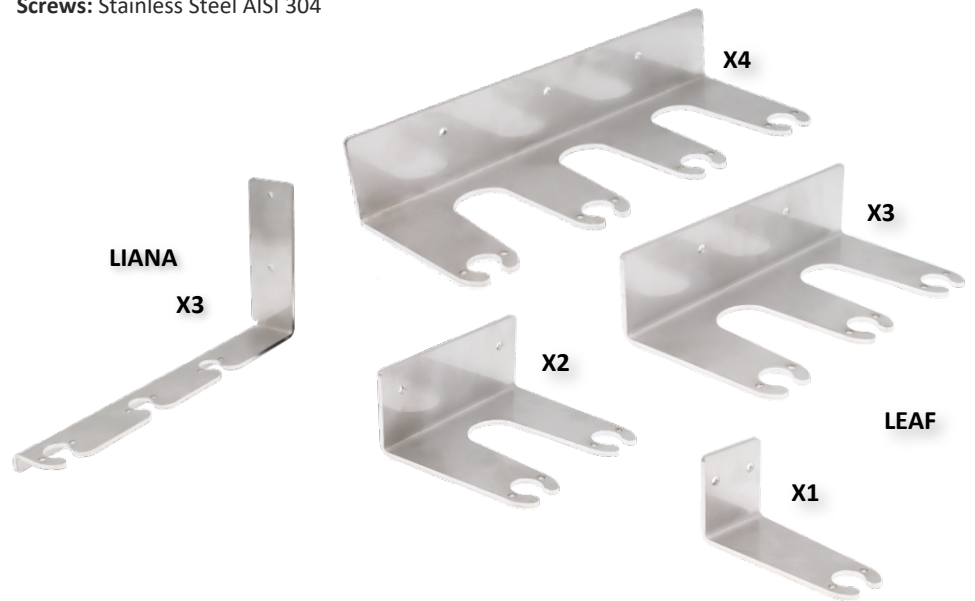
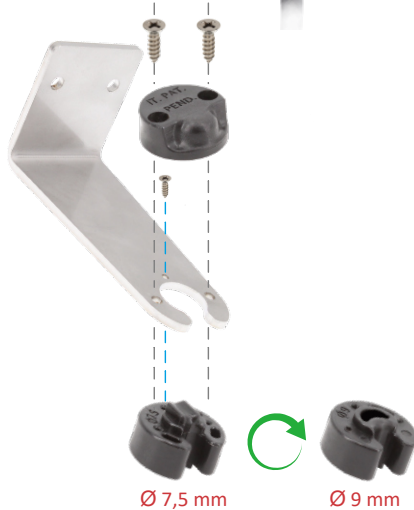


Koala

Cable holder accessory that can be supplied with dedicated brackets.

Koala can hold both cable size H05 (Ø7,5mm) and H07 (Ø9mm) by turning its lower half. The bracket can also host other standard cable glands of 16mm diameter.

- **Casing:** Polypropylene
- **Cable Section:** Ø7-9mm
- **Bracket:** Stainless Steel AISI 304
- **Screws:** Stainless Steel AISI 304



Level Probes

Totally manufactured with no-toxic material according to the ACS legislation. intended for **permanent usage in potable water**.

For tanks and deep wells.

With Stainless Steel AISI 303 electrode, it is supplied in two different versions:

- for clear water
- for waste water

- **Casing:** Polypropylene
- **Electrode:** Stainless Steel AISI 303
- **Wire section:** max Ø 2,5 ÷ 3,5 mm²
- **Depth:** max.10m (32,8ft)



Schuko Piggyback Plug

Provided with the float allows to connect a pump, without a switch, directly to an electrical socket controlling the start and stop function.

- Power supply 16A 250V
- IP 20

3 Poles Techno Connector - 4 Poles Techno Connector

It allows a safe junction between two cables to replace traditional shrink sleeves or insulating tapes

- 3 or 4 Poles
- For cables with diameter from 7mm to 12mm
- Power supply 16A 250V - 400V
- Maximum depth 10m



Filters



max. 45°C (113°F)



max. 11bar ±1 (160 psi)



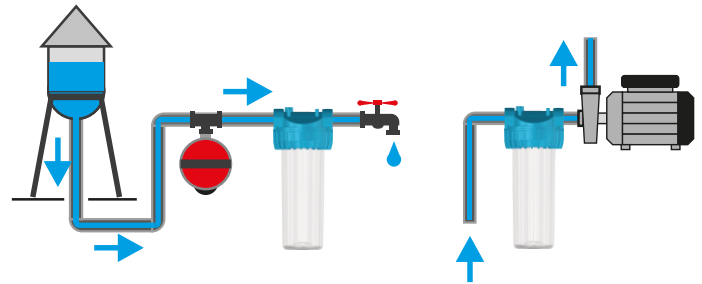
Patented Product
E.U. Registered Design

New completely redesigned line of plastic filters totally manufactured with **no-toxic material** according to the ACS legislation. Intended for permanent use in **drinking water**.

Thanks to the new joint, it is possible to connect several filters in sequence.

Filters are delivered already assembled, key tool included.

- 3 pieces: head, threaded ring and glass



TRANSPARENT FILTERS

Dolphin

- Head in Polypropylene
- Glass in transparent SAN 5" or PET 10"
- Available connections: brass 3/4" or 1" - plastic 1"



TRANSPARENT FILTERS WITH ANTI WATER HAMMER

Whale

Built-in **anti water hammer** to prevent possible over-pressures that can damage the filters.

- Head in Polypropylene
- Glass in transparent SAN 5" or PET 10"
- Available connections: brass 3/4" or 1" - plastic 1"



Special Versions



ANTI UV FILTERS

Blue Dolphin - Blue Whale

Anti UV version to prevent that ambient light reaches the water inside the filter, thereby **blocking** the proliferation of **algae and bacteria**.

- Head in Polypropylene
- Glass in blue polypropylene - 5" or 10"
- Available connections: brass 3/4" or 1" - plastic 1"



Blue Dolphin

Blue Whale



CHEMICAL LIQUIDS

Chemical Dolphin

Chemical liquids version. Ideal for drinking water, and for industrial, chemical and hospital sector.

- Head in Polypropylene
- Glass in transparent PA - **Trogamid 10"**
- Available connections: plastic 1"



Chemical Dolphin



HOT WATER FILTERS

Red Dolphin

Hot water version

- Head in Nylon
- Glass in red Nylon - 5" or 10"
- Temperature: **max. 80°C (176°F)**
- Available connections: brass 3/4 "or 1"



Red Dolphin

Filtering Cartridges



SOLID PARTICLES

Stainless steel mesh

AISI 316L

Down to 144µ (10"-5") or 50µ (10")

Intended for use in permanent **drinking water**



Melt blown

Down to 5µm

max 75°C (167°F)



Wound yarn with activated carbons

2 in 1 cartridge, double filtering function ideal to be used when there is not enough space to install two filters.

Filtering solid particles down to 20µm.



Wound yarn

Down to 20µ



ODORS AND FLAVORS

Activated carbons

Ideal for filtering potable water, also for domestic use, and water containing chlorine. It is usable also in food sector, pre-filters and reverse osmosis filters. To remove bad taste and bad smell.



LIMESTONE

Polyphosphate

Keeps the limescale in suspension to avoid its deposit on the plumbing pipe taps and electrical appliance and keeps them free from scale

Accessories

Blue or Red Wall Support

Plastic Support to hang the filter on the wall



Blue or Red Tool for Filter

Tool to screw or loosen the filter casing without effort



Filter O-Ring

O-Ring for filter
88,27X5,34 NBR 70



Seal Kit

Cartridges
gaskets' kit



Teflon

Teflon tape rolls to seal the fittings perfectly in order to avoid water leakages



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