



## FlowSafe Hose Flotation Device

- the simple solution



*From the world leading manufacturer of buoys, fenders and floats*





# Sub FlowSafe



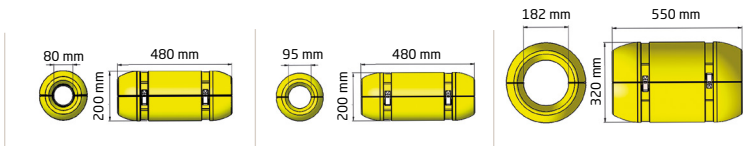
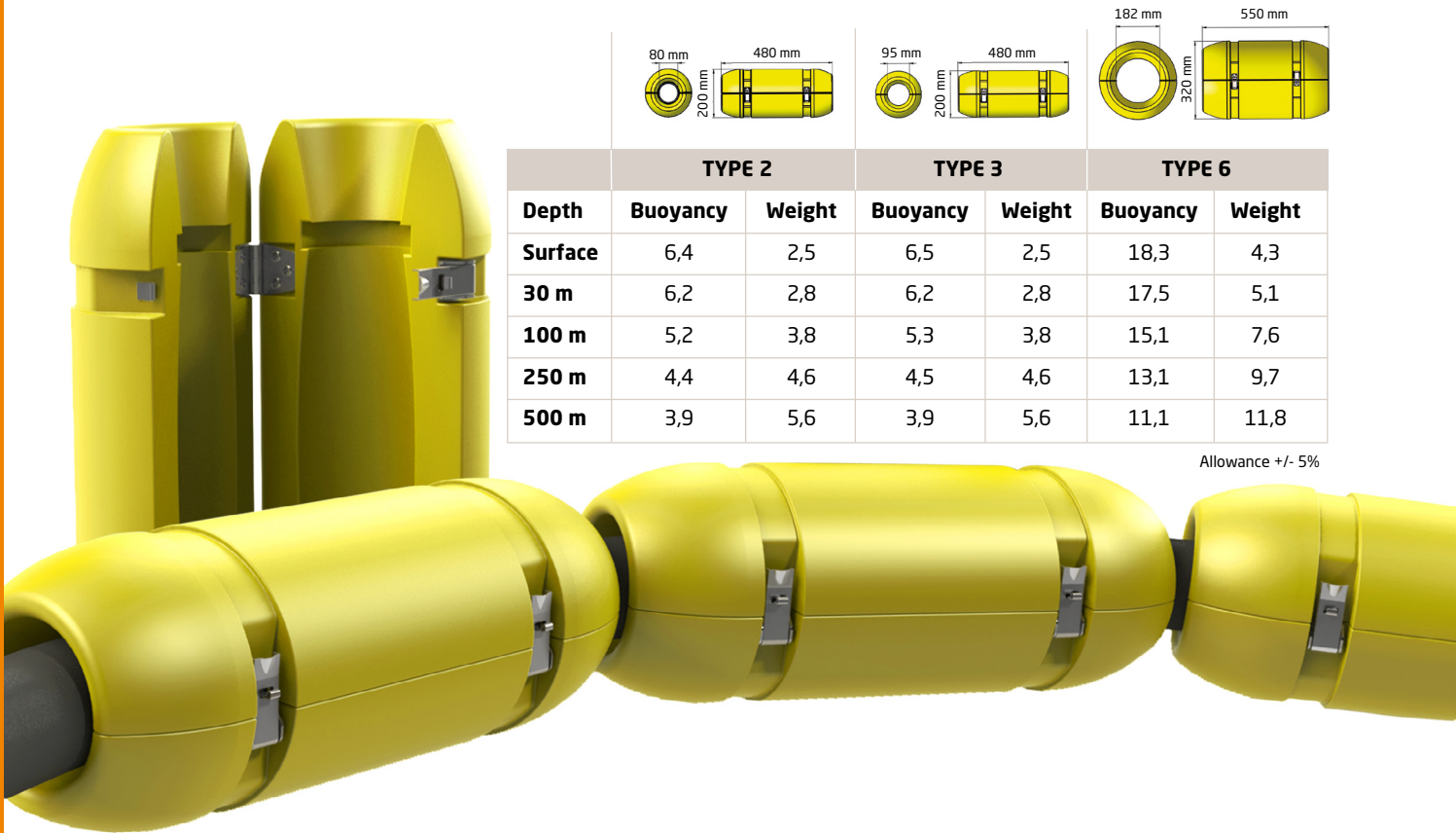
## Hose Flotation Device

**Sub FlowSafe** - a new product within our range of hose flotation devices. They are used in subsea applications within the oil and gas industry and various fields of marine activities, serving both as flotation aid and protection of the umbilical.

As transfer of fluid at sea is associated with high risk, Polyform has developed a tailor-made flotation aid for subsea usage. With

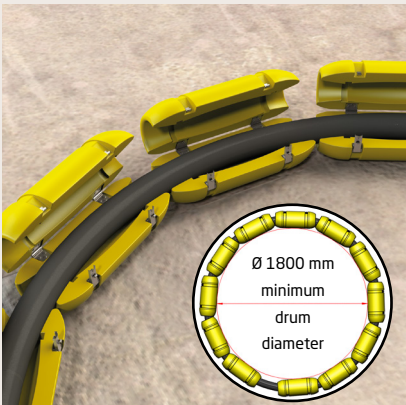
the easy on- and of system, the Polyform range of subsea hose flotations provides a tool to better control the umbilical at various depths, also incorporating a very important protection for the umbilical with its outer rotomolded PE hard-shell.

The **Sub FlowSafe** series are equipped with stainless steel hinges and latches for simple operation. All steel parts are placed within the outer diameter of the complete float. A synthetic rubber gasket locks the **Sub FlowSafe** in position.



	TYPE 2		TYPE 3		TYPE 6	
Depth	Buoyancy	Weight	Buoyancy	Weight	Buoyancy	Weight
Surface	6,4	2,5	6,5	2,5	18,3	4,3
30 m	6,2	2,8	6,2	2,8	17,5	5,1
100 m	5,2	3,8	5,3	3,8	15,1	7,6
250 m	4,4	4,6	4,5	4,6	13,1	9,7
500 m	3,9	5,6	3,9	5,6	11,1	11,8

Allowance +/- 5%



When mounted onto a hose, the Sub Flowsafes are adapted to fit on a drum with diameter of 1800mm.

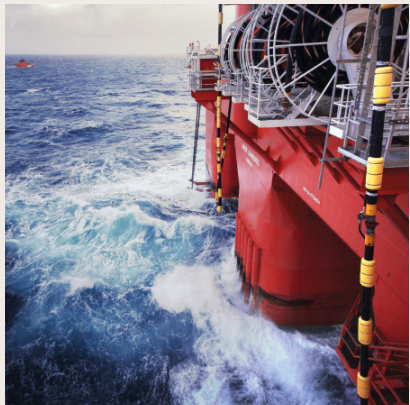
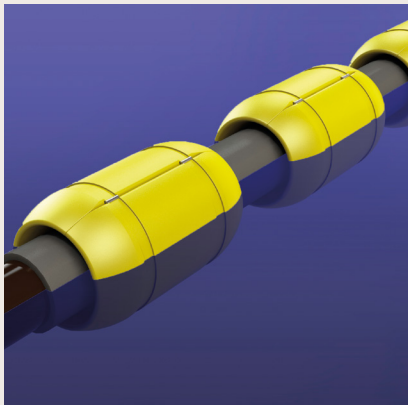


Photo: Transocean Barents, Krossli Drilling

# FlowSafe

## Hose Flotation Device



### FlowSafe produced from environmentally friendly Bacell™ material

FlowSafe hose flotation devices are manufactured from **BACELL™** - an ethylene vinyl acetate (EVA) material made according to our in-house developed raw material recipe. BACELL™ is a highly shock absorbent, strong and elastic material with 100% watertight cells.

Relative to its strength, **BACELL™** has very low density, resulting in high buoyancy. To the highest possible degree, the outstanding elasticity of the **BACELL™** material prevents **FlowSafe** from shrinking, deforming or breaking.



**FlowSafe** flotation devices are formed like a wrapping that can be opened along a lengthwise split. This makes **FlowSafe** easy to mount around the hose.

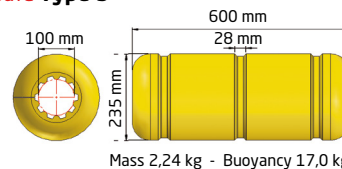
**FlowSafe** can be held in place by adequate fastening devices, such as metal or plastic

strips which fit into the grooves around the outer perimeter of the flotation device. Being recessed inside the grooves, the securing strips are largely protected from being damaged.

Type	Length inches	O.D. inches	I.D. inches	Groove inches	Mass pounds	Buoyancy pounds
3	23.62	9.25	3.94	1.10	4.93	37.5
4	23.62	9.25	4.72	1.10	4.56	33.0
5	23.62	9.45	5.70	1.10	4.56	33.0
5L	27.16	11.02	5.70	1.26	4.56	44.1

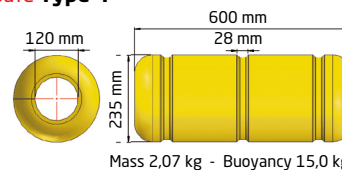
O.D. = Overall Diameter I.D. = Inner Diameter Allowance +/- 5%.

### FlowSafe Type 3



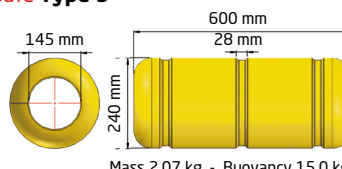
Mass 2,24 kg - Buoyancy 17,0 kg

### FlowSafe Type 4



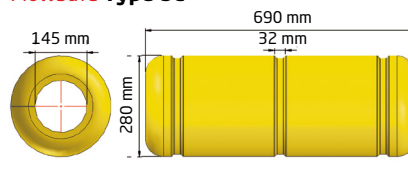
Mass 2,07 kg - Buoyancy 15,0 kg

### FlowSafe Type 5

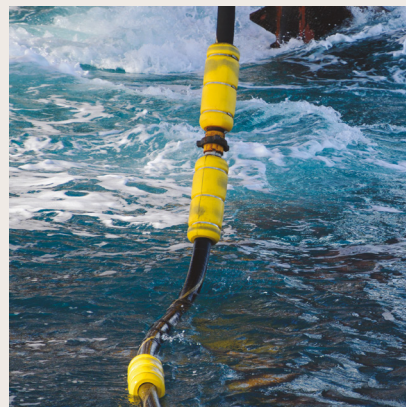
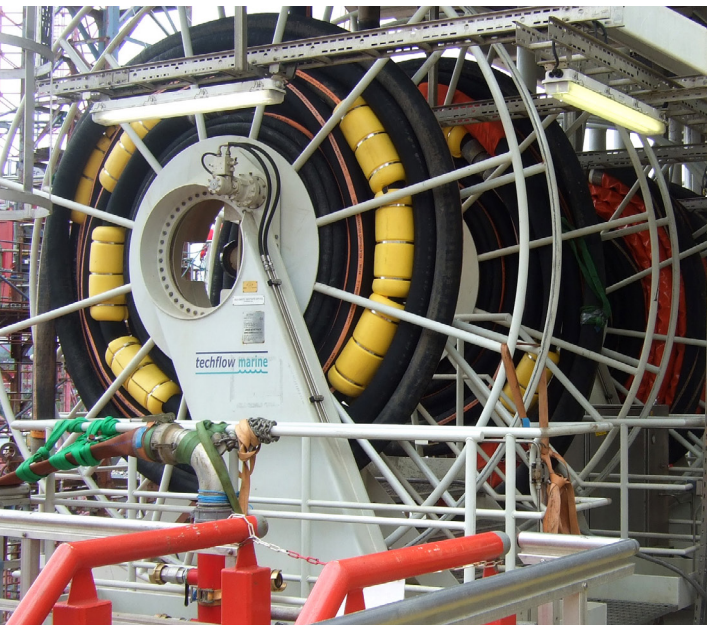


Mass 2,07 kg - Buoyancy 15,0 kg

### FlowSafe Type 5L



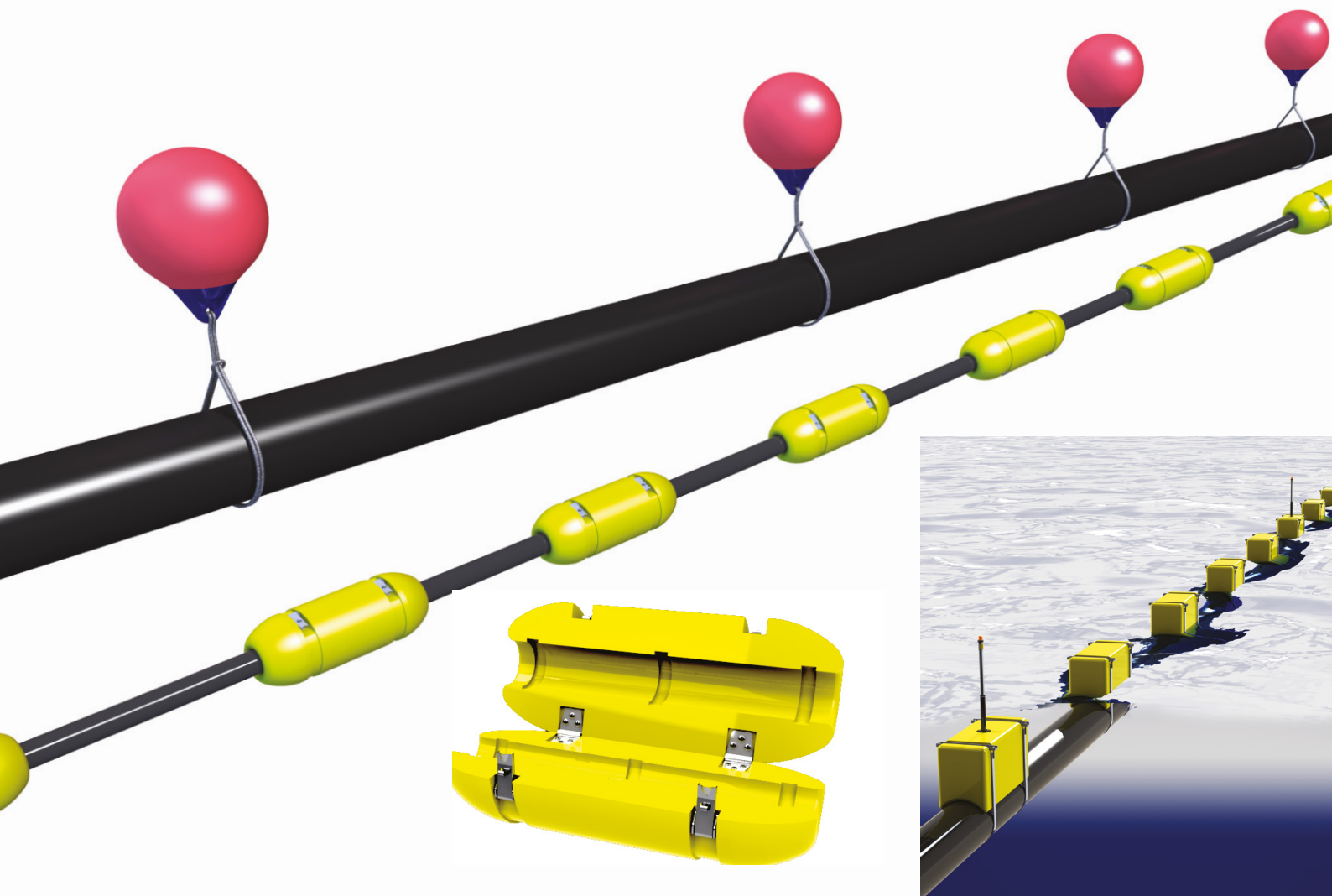
Mass 2,07 kg - Buoyancy 20,0 kg



FlowSafe is suitable for use offshore as well as in ports, on canals, lakes and rivers.



**FlowSafe** products can be supplied in any size and for various water depths. As one of the most versatile plastic converters, Polyform AS is free to choose production method for our customers with less limitations than other producers. Polyform AS can also provide products originally for surface use, modified to be used as submerged buoyancy.



Polyform buoys and fenders are produced by Polyform AS, a leading manufacturer in its field. The company is situated in Ålesund on the west coast of Norway, and benefits from being located in one of the world's most innovative maritime environments.

The product range consists of:

- Inflatable buoys and fenders made from soft vinyl plastics
- Purse Seine Floats, buoys and marina fenders made from Bacell TM closed cell foam.
- Extra large hard-shell buoys and pontoon floats made from PE and filled with foam.

A selection of various production methods are being used, and combined with the utilization of different materials, several of which are in-house developed and patented.

- Rotational molding
- Blow molding
- Injection molding
- Extrusion
- Expansion of closed cell foam

*In addition to the extensive range of standard products, Polyform AS can also offer custom-made solutions and private-label products.*



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