

**overboard discharge system
boat cockpit emptying - WATERFALL**



Complete sea discharge system

COMPLETE SYSTEM

Cockpit drain

Drain pipe

Ball valve

Threaded hose holder

Inner lock nut

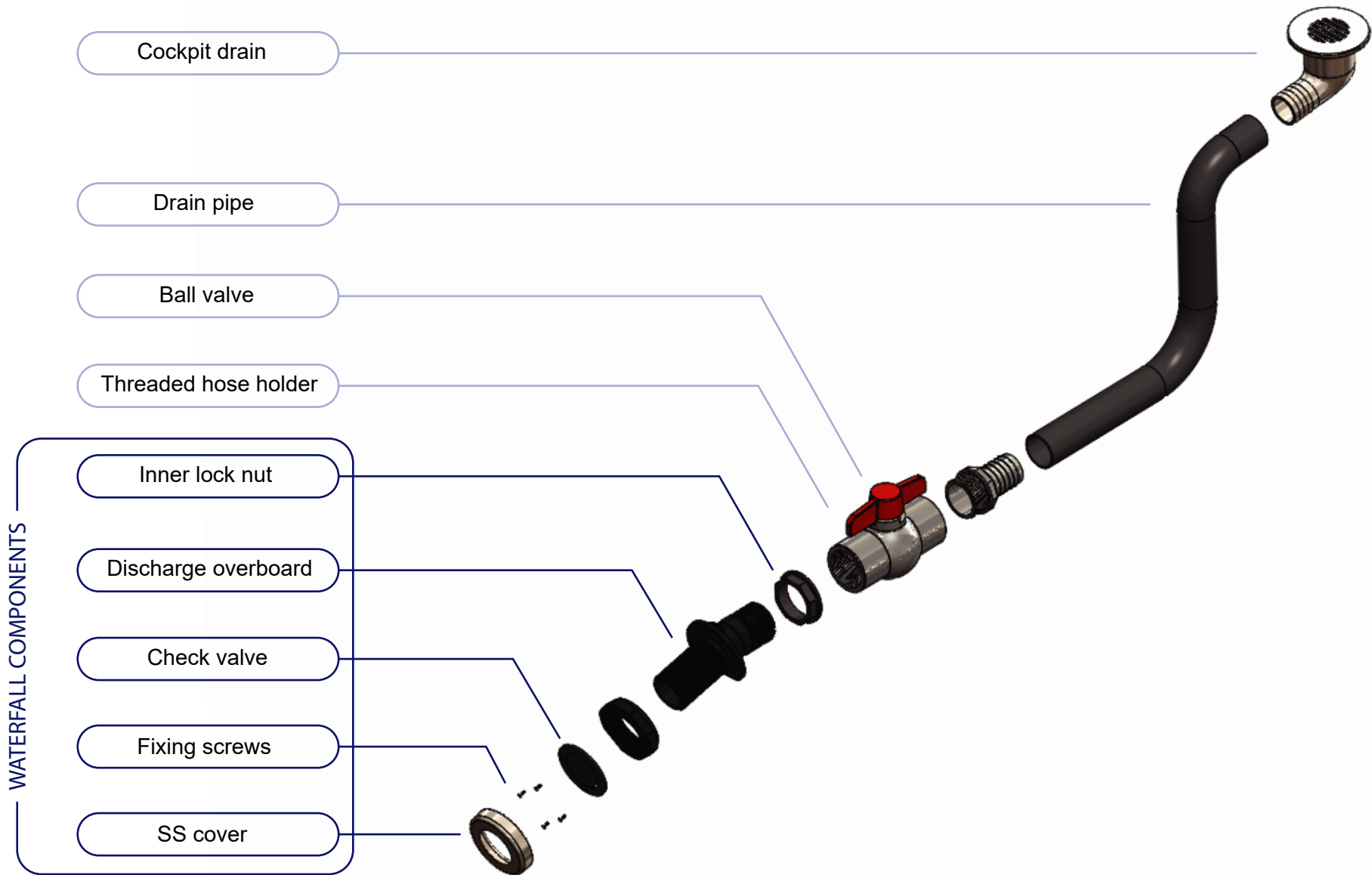
Discharge overboard

Check valve

Fixing screws

SS cover

WATERFALL COMPONENTS



The ISO 9093 requires a thru hull fitting directly connected to a ball valve. Thru hull fittings in the market are well designed but not ideal for sternwall installation.

By our research different OEM's suggested to find a solution to actuate this regulation due to the difficulties on the installation of the ball valve in the correct position.

Due to the tight spaces and the geometry of the hull the assembly with standard parts in the market is not easy, in some cases even not feasible.

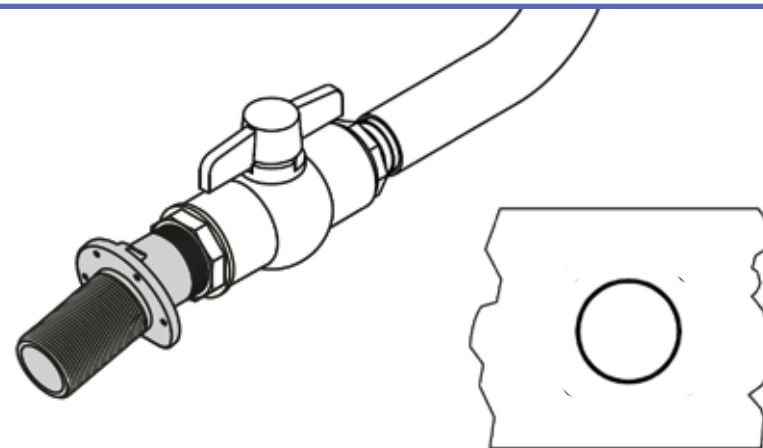
For this reason we start from a new concept that would allow builders to easily follow the regulations and make a more professional and careful installation with it's assembly.



Price € 38

1 Hole in the hull

Drill a through-hole in the stern wall with the thread size of the overboard discharge



Valve 90°



2 Insertion of discharger

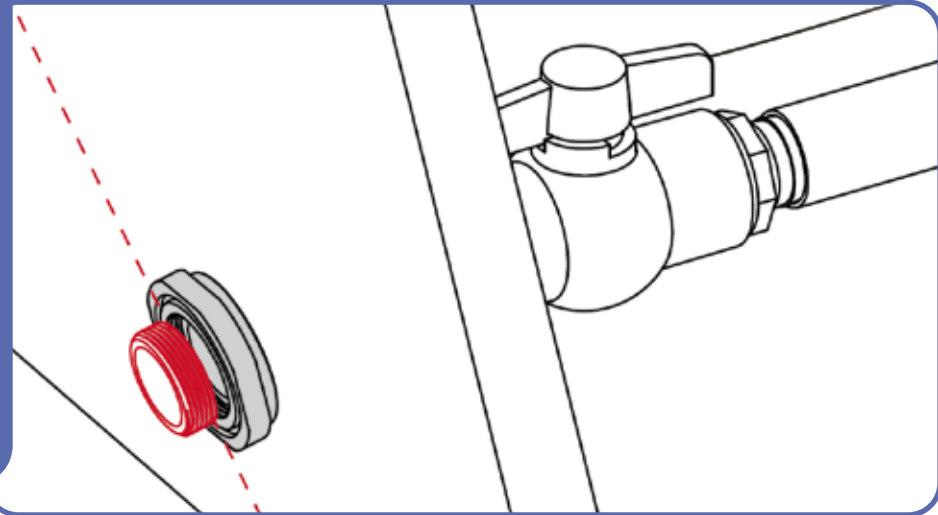
The user can insert the drain into the hole, making sure it is in the correct position.

Use one or two self-tappers in the holes in the flange to fix in place the assembly.

3 Fixing nut

It is now possible to move on to the exterior installation phase. Proceed to screw the retaining nut all the way down, and then tighten it permanently.

Cut off the excess part of the drain close to the nut surface.



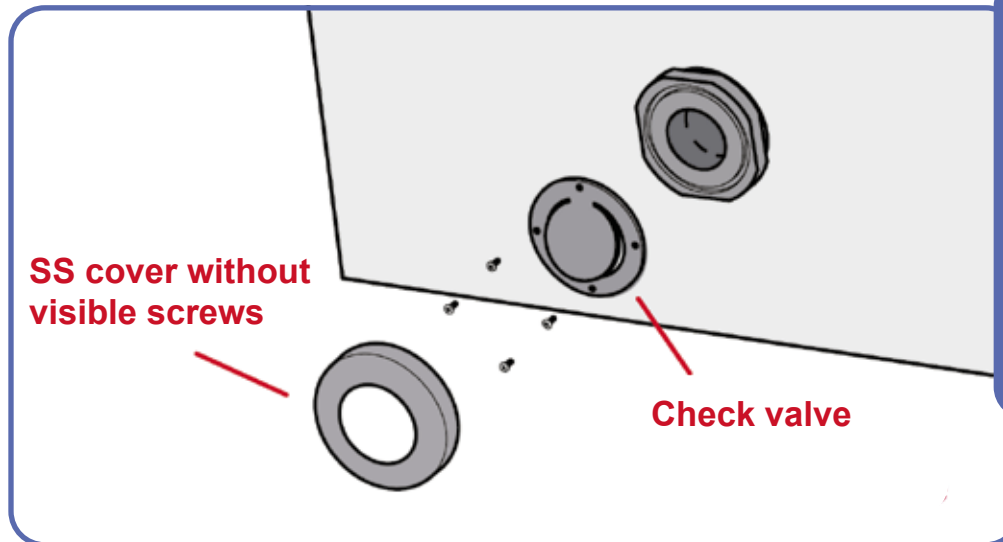
4 External closing

A 360° groove allows to install the EPDM check valve in a perfect inclination.

Finally, a stainless steel clip-on cover encloses the exhaust system, giving it strength and elegance.

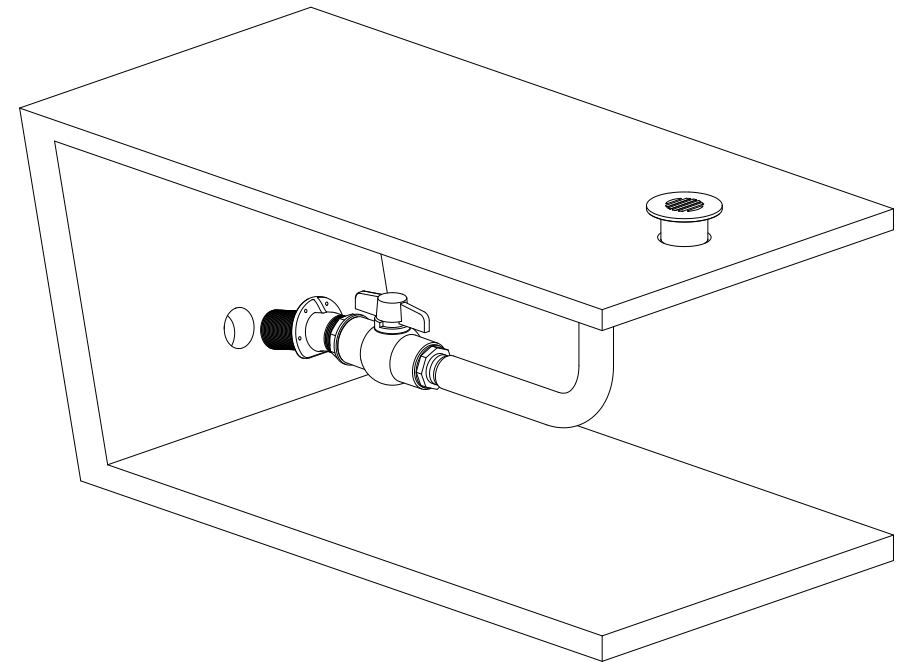
SS cover without visible screws

Check valve

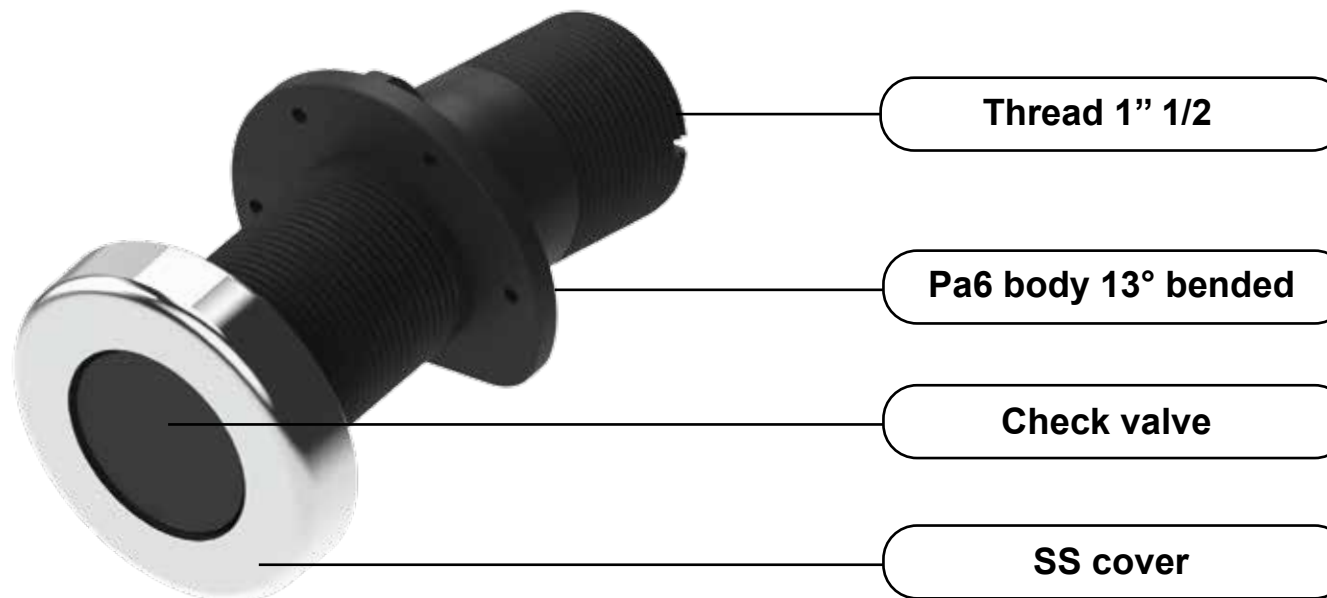


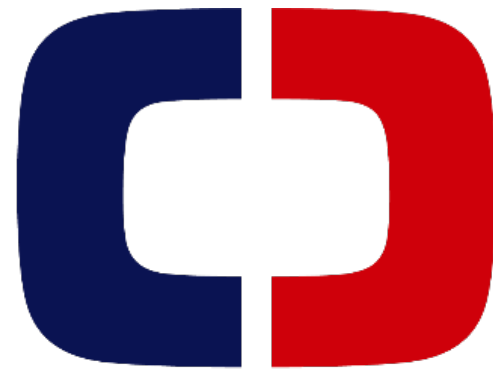
ADVANTAGES

- Pre installation on deck allows to make a faster and more accurate sealing
- Orientation of ball valve is guarantee from a mechanical stop (not kept in position only from the sealing, typically Sikaflex)
- Easy first installation form inside hull with a “just drop in” operation
- No unwanted siphons and extra low shape allow a perfect emptying of the sump. This also prevents blockages that the siphon can cause by slowing or blocking the emptying of the sump in dangerous conditions.
This is allowed by the 13° inclination of the body in the way to fit the stern wall geometry.
- Fit all the stern wall thickness
- Easy installation from outside



Specifics





OSCULATI