

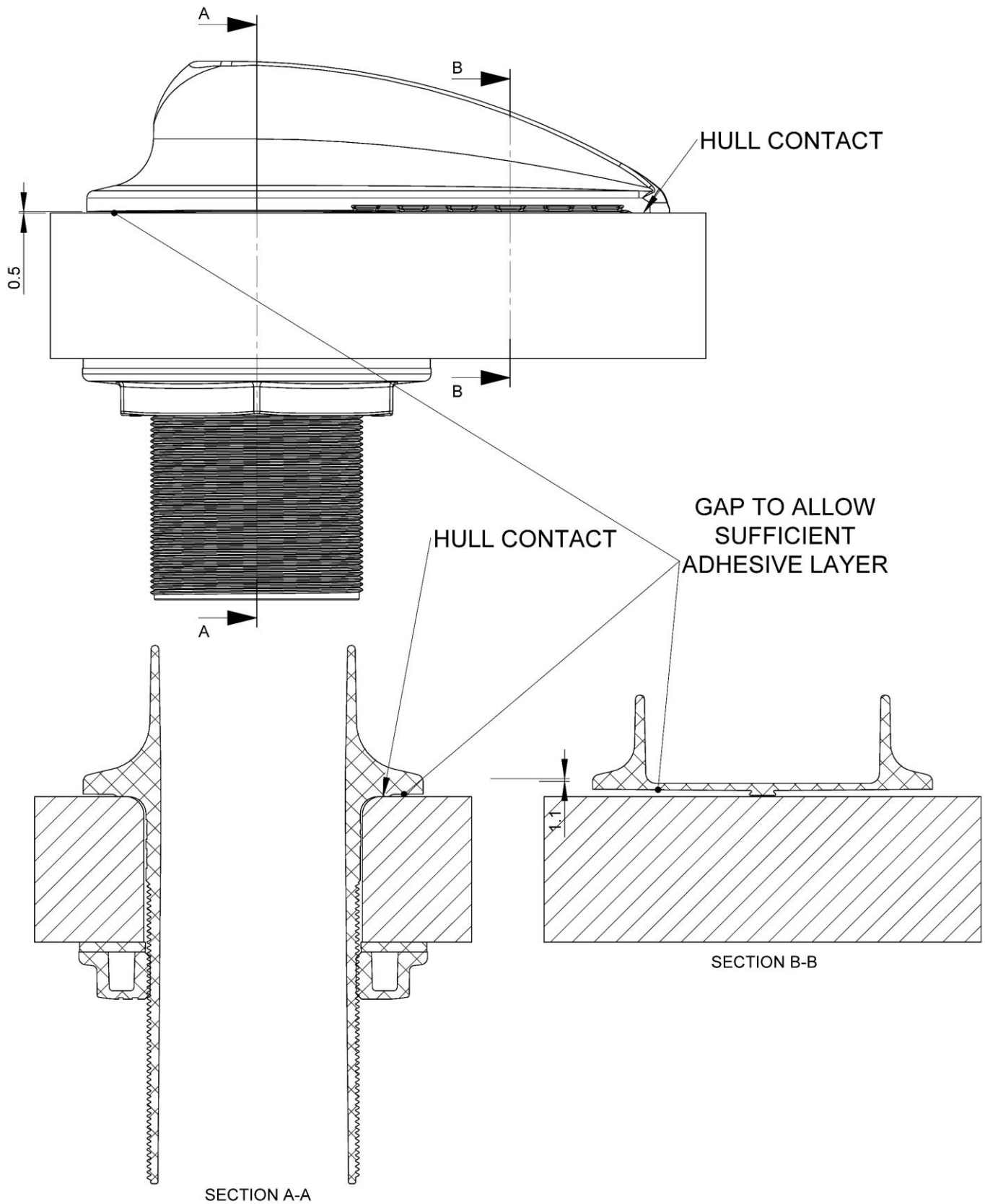
## Intake Strainer / Thru Hull 3" BSP Installation Information



### Location & Drilling:

- For motorboats the intake strainers are normally facing forward.
- Ensure there is enough room on the inside of the boat to allow the Ball Valve to be screwed on without hitting a bulkhead (or other part of the hull) and that the handle can rotate fully.
- Mark the location, then drill from the inside a pilot hole 3mm in diameter. Select a hole-saw of a nominal 88 mm size. Then from the inside, use the pilot hole as a centre and drill through the hull with the selected hole-saw. Ensure the Strainer or Skin Fitting sits flat against the two contact points by allowing sufficient fillet at the entry point / hull contact point. The Strainer has two contact points with the Hull – one at the front of the strainer and the other around the entry to the hull.
- Minimize overhang - It is recommended to “dry fit” the Ball Valve and Intake assembly and then trim the skin fitting (with a hacksaw) to allow a 2mm to 5mm gap between Strainer Nut and Ball Valve to minimize overhang and ensure compliance to ISO 9092:2021
- There is a design gap to allow a sufficient adhesive layer between the fitting and the hull.
- A sealant is needed to fill the “design gap” between the fitting and the hull. There are also undercuts in the Strainer to assist in adhesion.

Detail View:

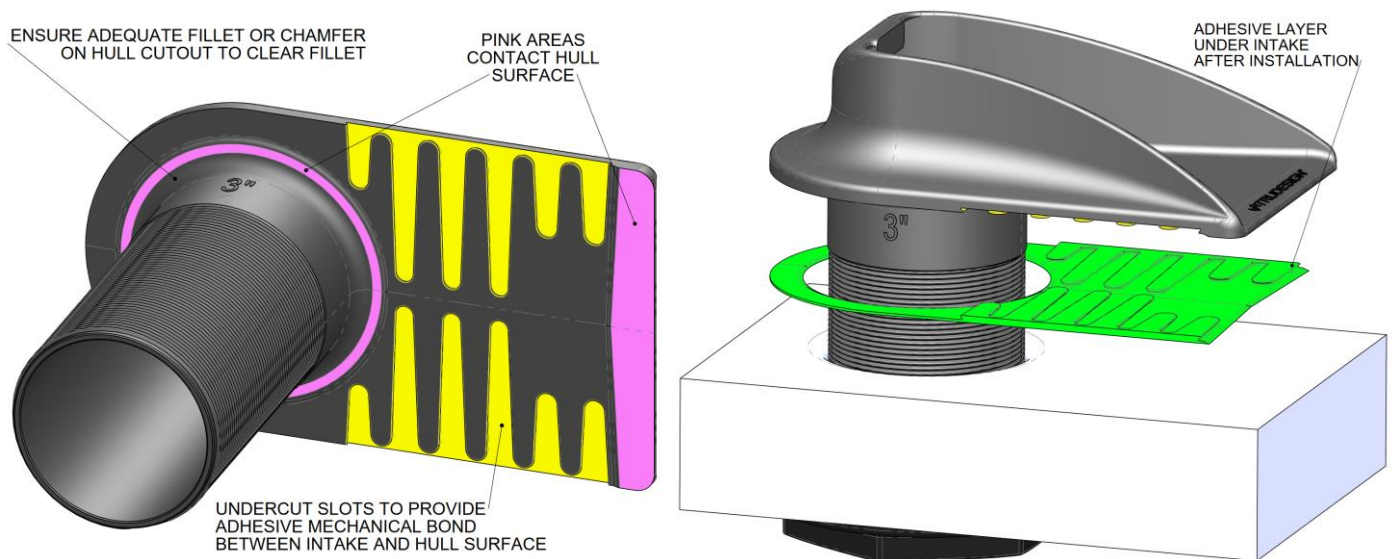


## Installation:

Clean the surface where you plan to mount the strainer or skin fitting to ensure proper adhesion.

**Note always refer to sealants manufacturers recommendations. Alcohol cleaners are not recommended for surface preparation with some adhesive sealants.**

The Intake Strainer is designed to allow an adhesive layer between the hull and the Intake Strainer.



In the case of adhesive sealants tighten the nut down onto the washer ensuring it is hand tight. Check the Strainer is flat against the outside of the hull, and both contact points are made. After 1 day of hardening, tighten a further ¼ turn or to a maximum of 15 Ft Lbs. There is no need to over-tighten the Nut.

On the outside of the hull clean off any excess adhesive. Tip – use an angled tool or putty knife to ‘blend’ adhesive around the Skin Fitting (Thru Hull) flange and the hull so it is easier to clean when sanding and antifouling in the future.

For further instructions see QR link to TruDesign **Technical Information Sheet. Skin Fitting Install and sealing.**



### Spanners:

Two installation spanners are available one for the intake strainer / skin fitting nut and the other for the Ball Valve itself.



Product	Part Number
Spanner Ball Valve 3" Aluminium	91365
Spanner Skin Fitting Nut 3" Aluminium	91366

### Thread Sealing:

Ensure both sides of the two components have sealant applied see pictures below.

**For further instructions see QR link to TruDesign Technical Information Sheet. Thread sealing.**



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