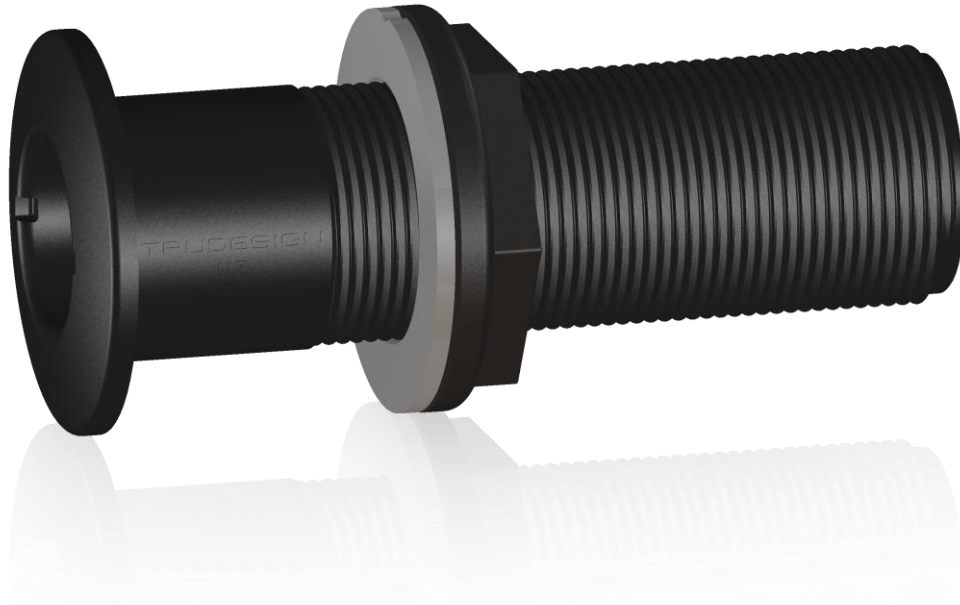


Long Skin Fittings (Thru Hulls)

(Suitable for use below the waterline)



Designed for larger hull-thickness vessels, TruDesign Long Skin Fittings (Thru Hulls) are precision moulded from glass-reinforced Nylon composite. They eliminate all corrosion and bonding problems associated with electrolysis giving peace of mind with respect to the safety of your vessel.

Key Features:

- Manufactured from a glass-reinforced Nylon composite – High strength, tough and light weight.
- Extra-long length as required for larger hull-thickness vessels.
- Compatible with all hull types – Can be used on aluminium, steel, wood, composite & GRP hulls.
- Immune to corrosion & electrolysis – No corrosion breakages, increased safety.
- Chemical resistant – Unaffected by diesel, petrol, chemicals, and antifouling paints.
- U.V resistant – Will not degrade or discolour from the sun's ultra violet rays.
- Paintable with all types of antifoul including Coppercoat™
- Fits TruDesign Ball Valves and other parallel BSP or NPS threads – Universal compatibility to TruDesign brand fittings and other marine hardware.
- Large operating range – Suitable for all marine conditions from -40°C to +110°C.

Compliance:

ISO 9093-2021 Small craft -TRUDESIGN Skin Fittings and Ball Valves comply with ISO 9093:2021, certified by the International Marine Certification Institute (IMCI) and type approved by **BUREAU VERITAS** .

(For sizes 3/4" through to 3", Excludes the 1/2" size.)

American ABYC H-27 – 500Lb static load test - TRUDESIGN Skin Fittings and Ball Valves meet the American ABYC H-27 – 500Lb static load test; Seacocks, Thru-Hull Fittings, and Drain Plugs – independently verified by IMANNA Laboratory Inc.

For sizes 1 1/4" through to 3" the ABYC Collar it is **not** a requirement to meet this static load test. The ABYC Load Bearing Collar is required for the size 1" to meet this static load test. The 1/2" and 3/4" does not meet the 500Lb static load test with or without the ABYC collar.

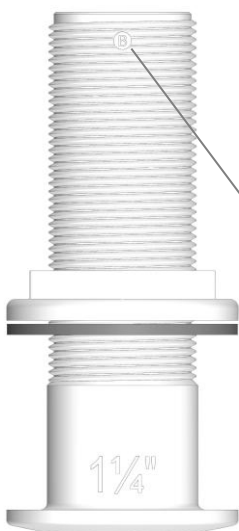
Part Numbers (BSP & NPS):

Description	BSP		NPS	
	BLACK	WHITE	BLACK	WHITE
Skin Fitting (Thru Hull) 3/4"	91077	91148		
Skin Fitting (Thru Hull) 1"	91078	91149	91083	91515
Skin Fitting (Thru Hull) 1 1/4"	91079	91150		
Skin Fitting (Thru Hull) 1 1/2"	91080	91151	91085	91517
Skin Fitting (Thru Hull) 2"	91081	91152	91086	91502
Skin Fitting (Thru Hull) 3"	91160	91170		

PKG product is supplied branded bags.

Identification:

TruDesign Skin Fittings (Thru Hulls) are printed and marked with the following information.



TruDesign branding. You can identify from inside the hull that genuine fittings are installed.

Engraved 'B' for BSP thread, or 'N' for NPS thread.



Installation

Location and Sealing:

For Installation Instructions go to our Technical Information Sheet on the TruDesign Website – Scan QR Code



Thread Sealing: Ball Valve to Skin Fitting and Tails (Thru Hulls):

For Thread Sealing Instructions go to our Technical Information Sheet on the TruDesign Website – Scan QR Code



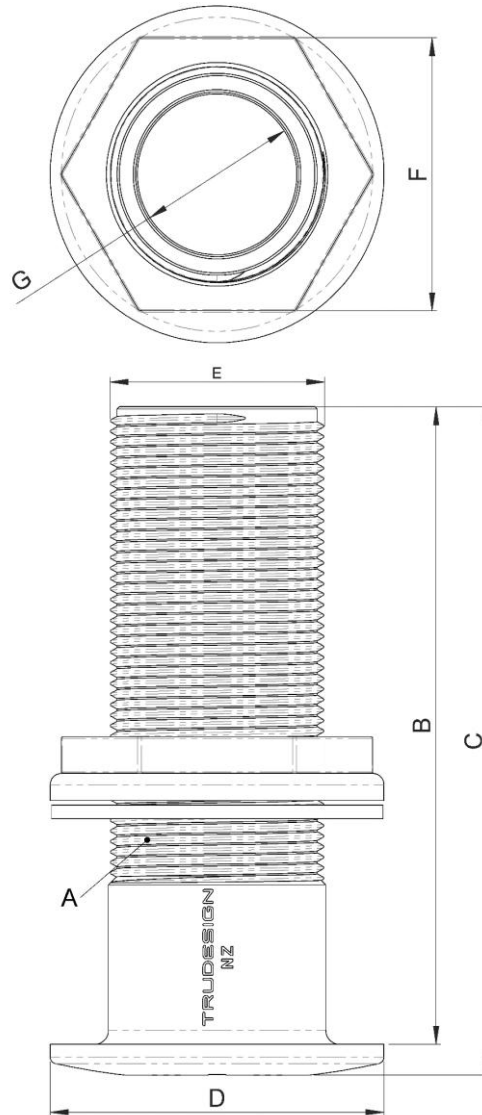
Maximum Hull Thickness and Recommended Thread Engagement :

Size	Minimum Thread Engagement	Maximum Hull Thickness
3/4"	17mm	106mm
1"	17mm	106mm
1 1/4"	22mm	99mm
1 1/2"	22mm	99mm
2"	22mm	95mm
3"	32mm	100mm

**All lengths are nominal.*

Dimensions:

All dimensions are nominal. All dimension in mm unless specified.



A	B		C		D		E		F		G	
Thread Size	Thread Length		Overall Length		Head Diameter		Cutout Diameter		Hex Size AF		Minimum Internal Ø	
¾"	140mm	5 1/2"	146mm	5 3/4"	41mm	1 3/5"	27mm	1"	34mm	1 1/3"	16mm	5/8"
1"	140mm	5 1/2"	146mm	5 3/4"	52mm	2"	34mm	1 1/3"	42mm	1 2/3"	23mm	8/9"
1¼"	140mm	5 1/2"	147mm	5 7/9"	65mm	2 5/9"	42mm	1 2/3"	52mm	2"	30mm	1 1/6"
1½"	140mm	5 1/2"	147mm	5 7/9"	74mm	3"	48mm	1 8/9"	60mm	2 1/3"	35mm	1 2/5"
2"	140mm	5 1/2"	148mm	5 5/6"	93mm	3 2/3"	60mm	2 1/3"	75mm	3"	49mm	2"
3"	160mm	6 2/7"	170mm	6 2/3"	145mm	5 5/7"	88mm	3 4/9"	112mm	4 2/5"	75mm	3"

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