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Product Guide

Design and Installation Planning for Stern thruster cowls

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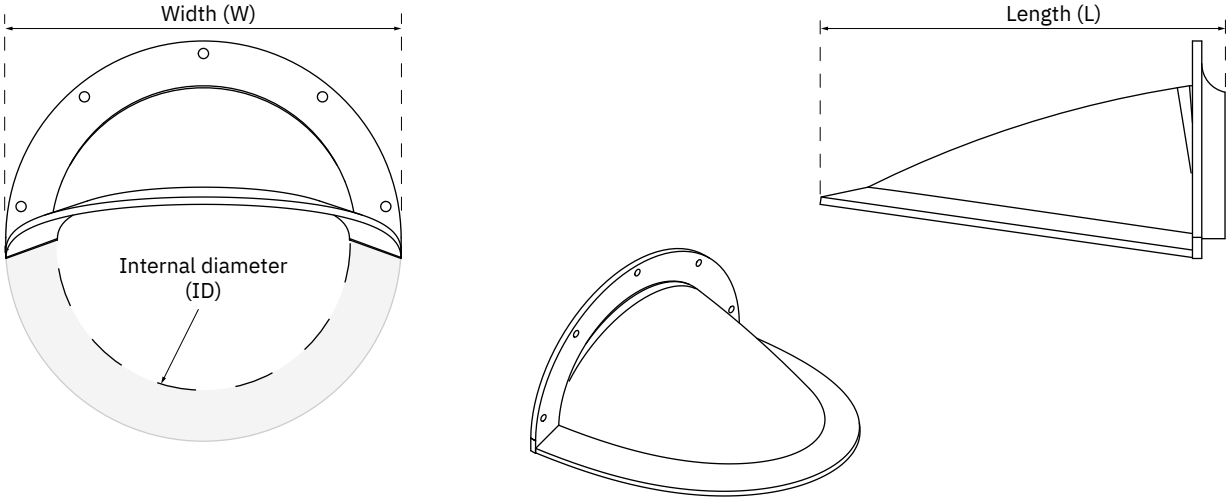
ID

Product Dimensions

MC_0976

Measurement code	Measurement description	90075		90077		90080		90126		90130		90136		90220	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
L	Length	186	7.3	243	9.6	287	11.3	166	6.5	330	13	260	10.2	393	15.5
W	Width	236	9.3	256	10.1	242	9.5	170	6.7	340	13.4	288	11.3	419	16.5
ID	Internal diameter	185	7.3	185	7.3	185	7.3	125	4.9	250	9.8	215	8.5	300	11.8



MG_0978

Positioning the stern thruster

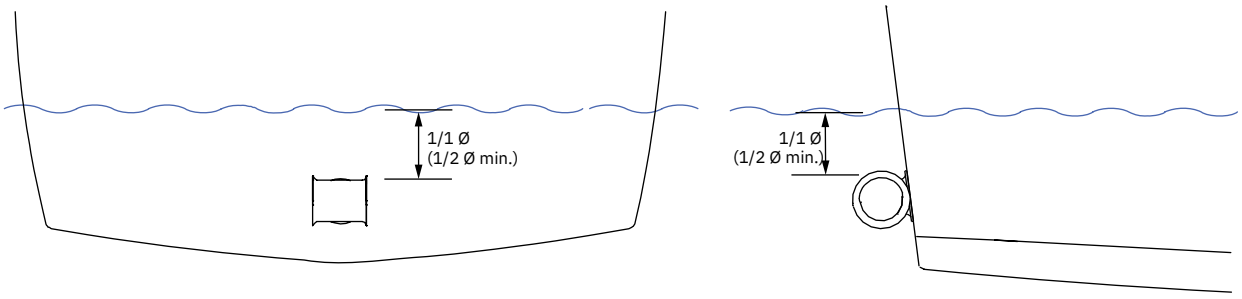
MC_0036

Install the thruster as deep as possible on the vessel's transom (Fig. 1).

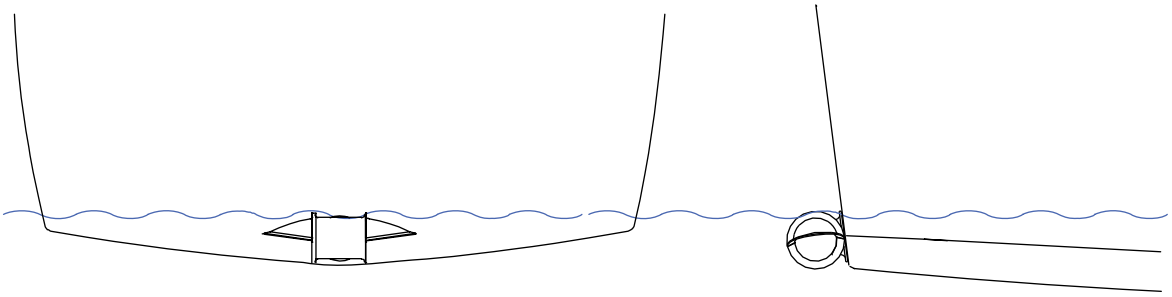
The tunnel should be installed as deep under the waterline as possible for two reasons:
1. So that it does not suck air down from the surface which will reduce performance and increase noise levels.
2. To get as much water pressure as possible to receive maximum efficiency from the thruster.

Generally, the top of the tunnel should be a minimum of 1/2 x the tunnel diameter below the waterline. For best performance, the distance should be 1/1 x tunnel diameter below the waterline.

Stern thruster installation for shallow vessels (Fig. 2).
When installing in shallow hull vessels, add stern cowls to the installation process. *See next page*



Standard stern thruster tunnel installation



Stern thruster and cowl installation for shallow vessels

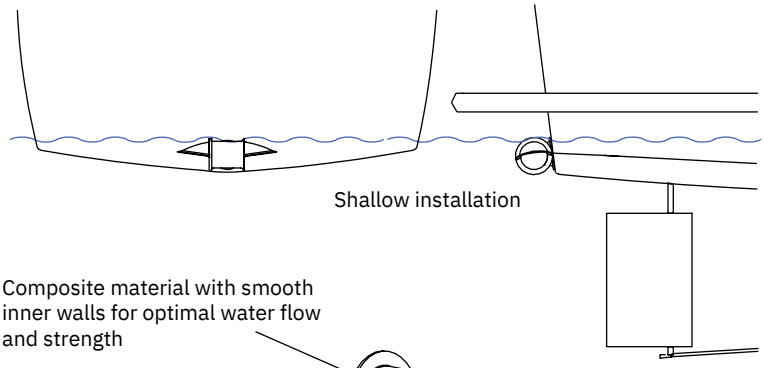
MG_0018

Stern Thruster Cowls

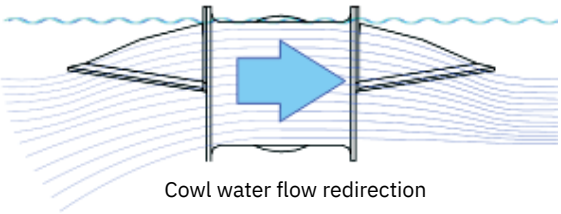
Installing a stern thruster cowl for stern thrusters that will allow installations in boats with shallow drafts or due to other obstructions on the stern. These can include obstacles such as trim tabs, jets or surface drive propeller systems where shallow installation of a stern thruster is the only option.

Available models:
Short model:
Designed for maximum thrust for installations in confined space, but due to the water being forced to turn rather sharply. ***(NB: it will reduce the performance from the optimum standard stern thruster installed at full depth by approx. 15-20%.)***

Long model:
Designed for maximum thrust while still allowing a shallow installation.
(NB: it will reduce the performance from the optimum standard stern thruster installed at full depth by approx. 5-10%.)



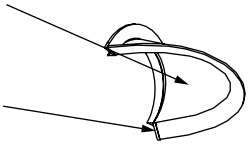
Shallow installation

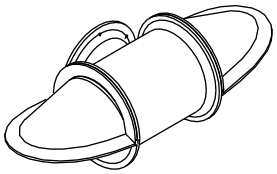


Cowl water flow redirection

Composite material with smooth inner walls for optimal water flow and strength

Radius corners prevent turbulence

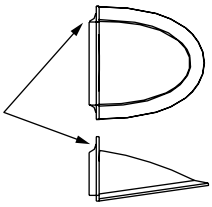


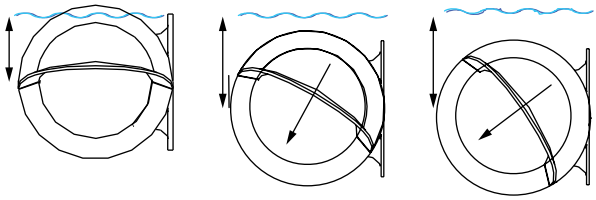


A standard sleipner stern thruster tunnel with add-on cowls for shallow installation

An angled edge further preventing air attraction into the tunnel

Easy installation for easy bolt-on fitting

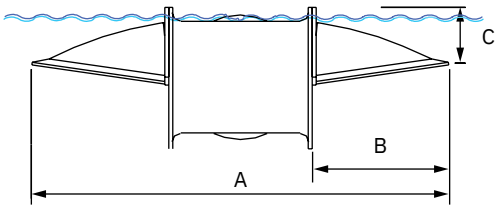


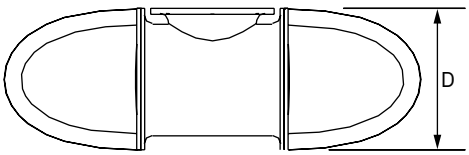


Angled cowls out of horizontal, must be installed deeper to avoid air entry in the thruster tunnel

Cowls to change the water flow direction to avoid obstructions on the stern

Cowls help prevent air from the water surface entering the tunnel in shallow installations





Model #	90126	90080	90077	90136	90130	90220	90560
A (mm/ in)	528/ 20.8	681/ 26.6	823/ 32.4	850/ 33.5	1010/ 39.75	1208/ 47.6	1580/ 62.2
B (mm/ in)	166/ 6.5	172/ 6.8	243/ 9.6	260/ 10.2	330/ 13	393/ 15.5	515/ 20.3
C (mm/ in)				130/ 5.1			240/ 9.4
D (mm/ i n)	170/ 6.7	256/ 10.1	256/ 10.1	288/ 11.3	340/ 13.4	419/ 16.5	540/ 21.3

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