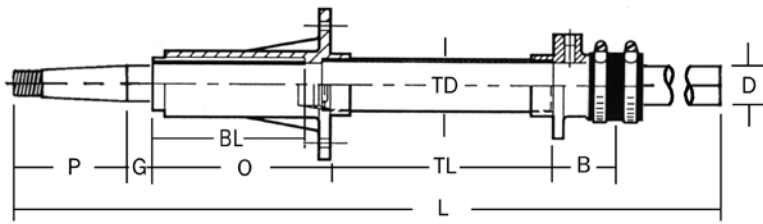
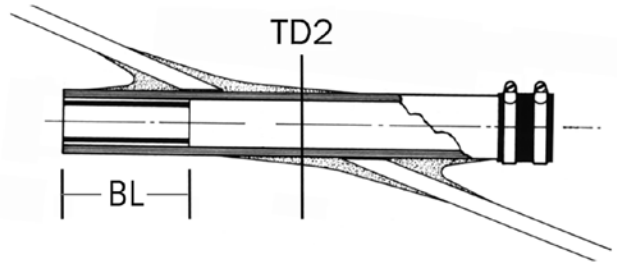


Sterngear and shaft seal dimensions

Bolt-in Sterntube



Glass-in and weld-in Sterntube



Tube dimensions

Shaft diameter	D ins	¾"	1"	1¼"	1½"	1¾"	2	2¼"	2½"
Tube diameter **	TD/TD2	1½"/1½"	1½"/1¾"	2"/2"	2¼"/2¼"	2½"/2 5/8"	2 7/8"/3"	3"	3½"
Shaft length	L	TO ORDER							
Tube length, min/max	TL cm	3/120	3/150	3/180	3/180	3/210	3/210	3/240	3/240
Unner spigot length	B mm	60	60	60	60	70	70	80	80
Overhang length	O cm	8	10	13	15	18	20	23	25
Bearing length	BL inches	3	4	5	6	7	8	9	10
Prop seat to Tip length	P m	79	95	121	140	159	184	203	216
Rope-cutter gap	G mm	38	38	41	41	51	51	57	57
Flange size *	cm	10x5	13x6	14x8	14x9	16x9	17x9	18x10	23x15
Drilling centres*	mm	79	102	111	114	133	140	149	178x57

* Bolt-in style only

** Other diameters available in G.R.P., aluminium and steel

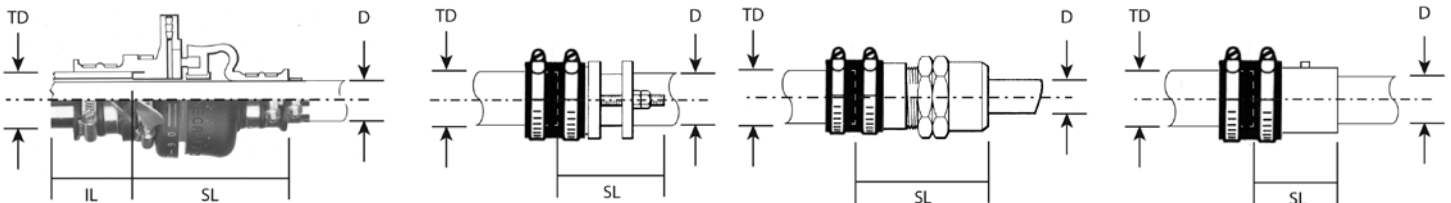
Tubes are shown as ready for flexible seal assemblies, but some can also be fitted with solid glands which are typically 30-40mm shorter than nut type or bolt type glands below.

Deep sea seal

Stud type gland

Nut type gland

Canal & river seal



Deep sea seals

Shaft diameter	Tube diameter		Max RPM	Length SL mm	Set No	
	Ins	mm				
1" - 1¼"	25 - 32	1 3/8" - 1 5/8"	2950	96	2	
1" - 1¼"	25 - 32	1 5/8" - 2"	2950	96	3	
1¼" - 1 3/8"	43 - 51	1 5/8" - 2"	2850	96	4	
1¼" - 1 3/8"	43 - 51	2" - 2 3/8"	51 - 60	2850	96	5
1 3/8" - 1 5/8"	35 - 40	2" - 2 3/8"	51 - 60	2750	96	6
1 3/8" - 1 5/8"	35 - 40	2 3/8" - 2 3/4"	60 - 70	2750	96	7
1 3/4"	45	2 3/4" - 3 1/8"	70 - 80	2600	96	8
1 7/8" - 2"	45 - 51	2 3/4" - 3 1/8"	70 - 80	2600*	96	9
2 1/8"	55	2 3/4" - 3 1/8"	70 - 80	1550	106	14
2 1/4"	58	3 1/8" - 3 1/2"	80 - 90	1550	106	11
2 3/8"	60	3 1/8" - 3 1/2"	80 - 90	1500	106	15
2 1/2"	64	3 1/8" - 3 1/2"	80 - 90	1500	106	12
2 5/8"	65	3 1/2" - 4"	90 - 100	1500	106	16
2 3/4"	70	3 1/2" - 4"	90 - 100	1500	106	13

* To use set 9 for 2" shaft, bush must be removed, and so max speed is only 1560RPM.

Ideally Deep Sea seals are water fed with spent cooling water from the engine, but if well below waterline on low speed boats, they can just be ventilated.

On boats fitted with anti-siphon vents, the feed should be connected into their overboard dump hose.

Aluminium tubes must be painted where static rubber portion fits.

Stud type

Nut type

Canal & river

Shaft Dia	Tube Dia**	Seal Length	Tube		Seal	
			TD mm	SL mm	TD mm	SL mm
1"	38	143	38	124	1 3/4"	45
1¼"	51	159	51	140	2"	51
1½"	57	170	57	141	2¼"	57
1¾"	63	174	63	155	2¾"	70
2"	66	174	63	144	3"	76
2¼"	76	185	76	165	-	-
2½"	84	210	84	190	-	-

** These seals can be supplied to fit a limited range of other sterntube sizes on request.

Stud type and Nut type seals can be water or grease fed. Canal seals are grease fed with a screw-down greaser and River seals need to be water fed from the spent cooling water circuit of the engine.

On boats fitted with anti-siphon vents, the feed should be connected into the overboard dump hose.

All these seals have a short rubber connection (which can be extended if necessary) to allow flexibility, and sealing is with conventional packing in stud and nut types and with two double-lip seals on Canal and River types.

Body of Canal and River seals is made of phenolic material that runs well on stainless or bronze shaft with either water or grease for lubrication.

Aluminium tubes must be painted where static rubber portion fits.