

ENERGY
ENVIRONMENT
ECONOMY



- ▶ Quality
- ▶ Hardwearing
- ▶ Design excellence
- ▶ Reliable



RUBBER BEARINGS FOR WATER LUBRICATED APPLICATIONS

Build quality

The Ecosafe WRS is a rubber bearing designed specifically for water lubricated applications. It is made from a specially tailored nitrile rubber compound.

Designed to withstand high levels of abrasion and wear, the Ecosafe WRS is suitable for use in blue or brown water conditions.

Design excellence

The advanced design means that the shaft has minimal contact with the bearing because a thin water film is created by water entering the bearing through the grooves along its



length and moves radially between the propeller shaft and the bearing face.

The water pressure and the grooved design ensure that suspended materials, such as

sand, are flushed out reducing bearing wear and shaft scoring in shallow or turbid waters.

Operational requirements

For a detailed overview of all operational requirements including shaft speed, temperature range, bearing load and flow rate please refer to the Ecosafe WRS technical data sheet.

Maintenance and installation

It is recommended that the bearings are inspected during storage or service periods, in shallow or contaminated water we recommend at least every 12 months. It should be noted that all bearings will experience increased levels of wear when operating in shallow waters compared to blue water where the level of contaminants is lower.

Ecosafe WRS bearings can be installed by the common press fit or resin fit methods. It is also possible to freeze fit provided the bearing is gradually chilled and not below a temperature of -28°C. It is also recommended to install a dedicated water flush when the bearing will receive only minimal water flow. All bearings are supplied with an outside diameter tolerance of P6. If you have any questions please refer to the technical data sheet or contact your local Wärtsilä representative.



Options and availability

The Ecosafe WRS comes in a variety of sizes and options suitable for all common stern tube, rudder and bracket installations.

- Sizes are available in metric or imperial or a combination of both
- Can be supplied as either straight or flanged, depending on the configuration of your stern tube.
- The standard shell is made from spun cast naval brass, but can also be supplied in a phenolic composite shell on request.
- Common sizes are held in stock for quick delivery
- We can supply Riversafe bearings to suit shafts of up to 9-1/2" or 240 mm in size, please contact us if your required size is not found on the product reference list opposite.

Part number	ID	OD	Length	Part number	ID	OD	Length
268991	3/4"	1-1/4"	3"	270339	20 mm	35 mm	80 mm
268995	1"	1-1/4"	4"	270342	25 mm	35 mm	100 mm
268998	1"	1-1/2"	4"	270343	25 mm	1-1/4"	100 mm
269000	1"	2"	4"	270344	25 mm	1-1/2"	100 mm
269007	1-1/4"	1-1/2"	5"	270345	25 mm	40 mm	100 mm
269008	1-1/4"	1-5/8"	5"	270349	30 mm	40 mm	120 mm
269009	1-1/4"	1-3/4"	5"	270352	30 mm	1-3/4"	120 mm
269010	1-1/4"	2"	5"	270353	30 mm	45 mm	120 mm
269011	1-1/4"	2-1/8"	5"	270362	35 mm	50 mm	140 mm
269016	1-1/2"	2"	6"	270363	35 mm	2"	140 mm
269017	1-1/2"	2"	8"	270364	35 mm	55 mm	140 mm
269018	1-1/2"	55	152	270367	40 mm	50 mm	160 mm
269019	1-1/2"	55	6"	270368	40 mm	2-1/8"	160 mm
269020	1-1/2"	2-3/8"	6"	270369	40 mm	55 mm	160 mm
269023	1-3/4"	2-1/4"	7"	270385	40 mm	60 mm	160 mm
269031	1-3/4"	2-3/8"	7"	270390	45 mm	65 mm	180 mm
269032	1-3/4"	2-1/2"	7"	270391	45 mm	70 mm	180 mm
269033	1-3/4"	2-5/8"	7"	270393	50 mm	65 mm	200 mm
269034	1-3/4"	2-3/4"	7"	270399	50 mm	70 mm	200 mm
269037	2"	2-1/2"	8"	270400	50 mm	75 mm	200 mm
269038	2"	2-5/8"	8"	270401	50 mm	3"	200 mm
269039	2"	2-3/4"	8"	270409	55 mm	75 mm	220 mm
269064	2"	3"	8"	270410	55 mm	3"	220 mm
269072	2-1/4"	2-15/16"	9"	270411	55 mm	80 mm	220 mm
269073	2-1/4"	3"	9"	270412	60 mm	3"	240 mm
269074	2-1/4"	3-1/8"	9"	270418	60 mm	80 mm	240 mm
269075	2-1/4"	3-1/4"	9"	270420	60 mm	3-1/4"	240 mm
269076	2-1/4"	3-3/8"	9"	270422	60 mm	85 mm	240 mm
269083	2-1/2"	3"	10"	270424	65 mm	85 mm	260 mm
269088	2-1/2"	3-1/8"	10"	270428	70 mm	90 mm	280 mm
269089	2-1/2"	3-1/4"	10"	270429	70 mm	3-1/2"	280 mm
269090	2-1/2"	3-3/8"	10"	270433	70 mm	95 mm	280 mm
269091	2-1/2"	3-1/2"	10"	270434	75 mm	95 mm	300 mm
269093	2-1/2"	3-3/4"	10"	270436	75 mm	100 mm	300 mm
269096	2-3/4"	3-3/8"	11"	270437	75 mm	4"	12"
269097	2-3/4"	3-1/2"	11"	270438	75 mm	110 mm	300 mm
269098	2-3/4"	3-3/4"	11"	270439	80 mm	100 mm	320 mm
269103	3"	3-3/4"	12"	270440	80 mm	4"	12"
269105	3"	4"	12"	270441	80 mm	4"	320 mm
269106	3"	4-1/8"	12"	270444	80 mm	110 mm	320 mm
269111	3-1/4"	4"	13"	270445	80 mm	110 mm	360 mm
269113	3-1/4"	4-1/4"	13"	270449	85 mm	105 mm	340 mm
269117	3-1/2"	4-1/4"	14"	270450	85 mm	110 mm	340 mm
269118	3-1/2"	4-1/2"	14"	270451	85 mm	4-1/2"	340 mm
269119	3-1/2"	116	14"	270452	85 mm	115 mm	340 mm
269125	3-3/4"	4-1/2"	15"	270453	90 mm	110 mm	360 mm
269126	3-3/4"	4-3/4"	15"	270454	90 mm	4-1/2"	360 mm
269127	3-3/4"	5"	15"	270456	90 mm	115 mm	360 mm
269128	3-3/4"	5-1/4"	15"	270457	90 mm	120 mm	360 mm
269130	4"	5"	16"	270458	95 mm	115 mm	380 mm
269131	4"	5-1/8"	16"	270460	95 mm	4-1/2"	380 mm
269132	4"	130	16"	270461	95 mm	125 mm	380 mm
269133	4"	5-1/4"	16"	270462	100 mm	125 mm	400 mm
269135	4-1/4"	5-1/4"	17"	270464	100 mm	130 mm	400 mm
269136	4-1/4"	5-1/2"	17"	270465	100 mm	5-1/4"	400 mm
269139	4-1/2"	5-1/2"	18"	270466	105 mm	130 mm	420 mm
269140	4-1/2"	5-5/8"	18"	270467	105 mm	5-1/4"	420 mm
269141	4-1/2"	5-3/4"	18"	270468	110 mm	135 mm	440 mm
269143	4-3/4"	6"	19"	270470	110 mm	5-1/2"	440 mm
269144	4-3/4"	6-1/8"	19"	270471	110 mm	150 mm	440 mm
269145	4-3/4"	6-1/8"+1	19"	270472	115 mm	145 mm	460 mm
270303	5"	6-1/8"	20"	270473	115 mm	5-1/2"	460 mm
270304	5"	6-1/8"+1	20"	270474	120 mm	150 mm	480 mm
270305	5"	6-1/4"	20"	270475	120 mm	155 mm	480 mm
270306	5"	6-1/2"	20"	270479	125 mm	165 mm	500 mm
270307	5"	6-1/2"	24"	270480	130 mm	170 mm	520 mm
270308	5-1/4"	6-3/4"	21"	270481	135 mm	170 mm	540 mm
270309	5-1/4"	7"	21"	270482	135 mm	175 mm	540 mm
270312	5-1/2"	7"	22"	270484	140 mm	180 mm	560 mm
270316	6"	7-1/2"	24"	270485	145 mm	180 mm	580 mm
270317	6"	7-3/4"	24"	270486	150 mm	190 mm	600 mm
				270487	150 mm	200 mm	600 mm