Rubber Design
vibration and noise control

DOCUMENTATION SHEET

Propulsion Equipment

Type Thrust bearing

THRUST BEARING

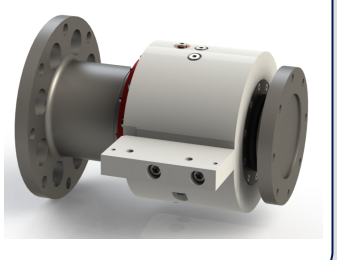
General

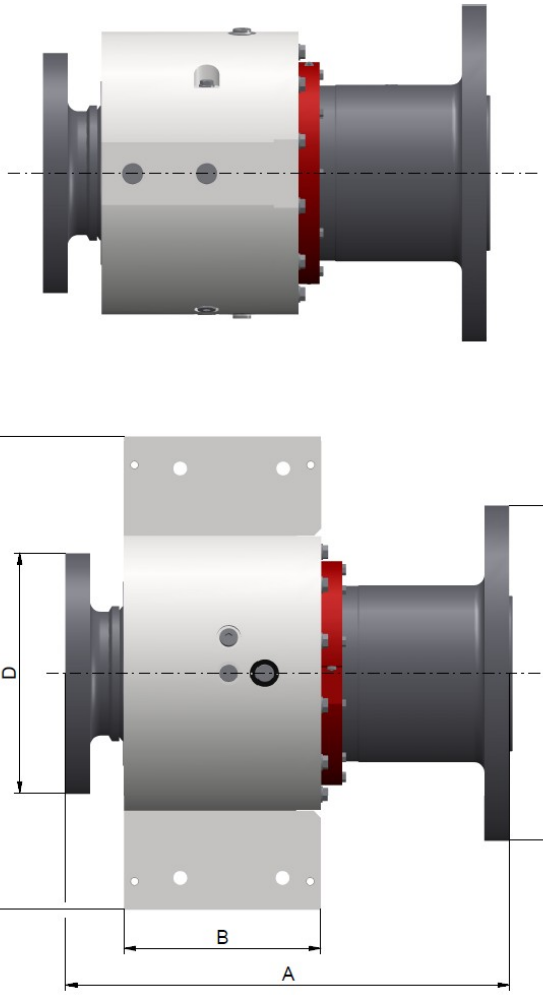
Rubber Design has developed a compact range of thrust blocks (or trust bearings) in combination with their flexible marine couplings for high performance operation in ships and yachts.

The advantage of using a thrust block is that the propeller thrust load is not taken by the engine-gearbox, this enables an optimized flexible mounting system of engine-gearbox to be used. This gives the best results for vibration isolation and reduction of structure borne noise from engine-gearbox to the foundation (hull of the ship).

Specification

To obtain the best results in the reduction of structure borne noise, the thrust block has a further option to be flexible mounted with a minimum deflection in the longitudinal direction. An advantage of using the flexible marine coupling is that torsional vibrations and noise transmission from the engine-gearbox to the thrust block/propeller shaft will be reduced. The thrust block can be equipped with an additional cooling module to ensure optimum service temperature.





EXAMPLE

Selection

The characteristics table is ideal for initial selection; however, it is advisable to seek expert advise before finalizing an installation design. Rubber Design is eager to support you by making calculations as a service, to ensure a proper functioning system.

	Dimensions					Max Thrust load	
	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	200 rpm [kN]	1200 rpm [kN]
SLB 1	381	186	421	200	Depends on coupling size	70,0	40,0
SLB 2	464	228	490	235		97,5	67,5
SLB 3	525	245	580	320		142,5	85,0
SLB 4	629	279	670	340		192,5	112,5
SLB 5	710	327	730	390		250,0	147,5
SLB 6	810	350	820	530		310,0	182,5
SLB 7	1080	440	1060	545		460,0	270,0

CHARACTERISTICS

Engineering

During assembly the thrust shaft is accurately aligned and fixed with split locking ring before dispatch to the customer.

CAD drawings (2D/3D) of the thrust blocks and flexible marine couplings are available in different formats so that this geometry can be easily imported into the CAD drawing of the complete propeller shaft installation. All thrust blocks and flexible marine couplings can be delivered with the required classification approval.

Remarks

It is our intention to maintain the excellent standard of our products. Modifications and improvements may be made from time to time and it is therefore advisable to contact us before ordering.

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