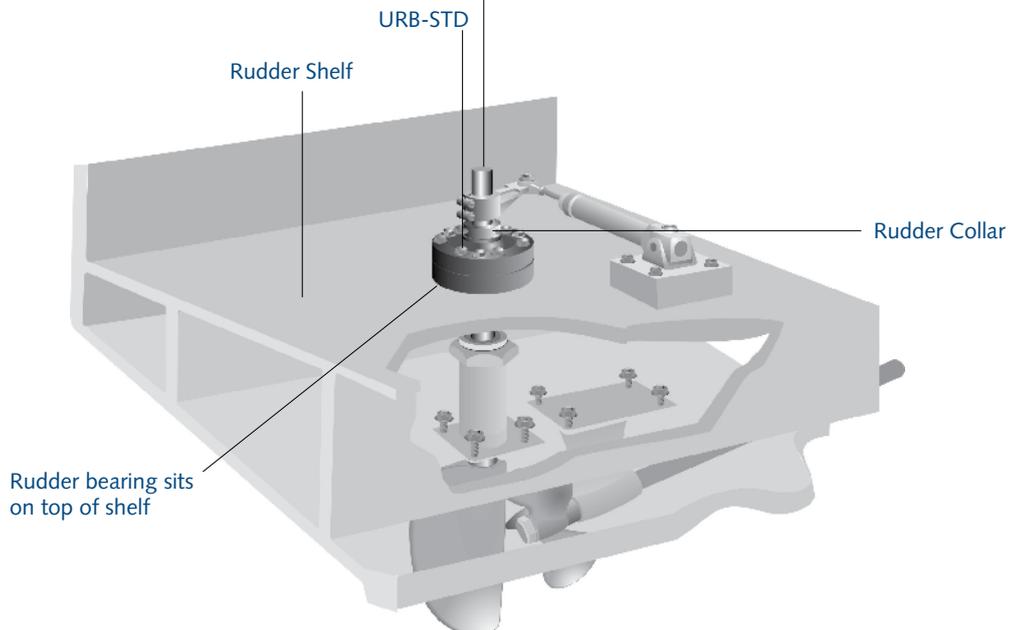
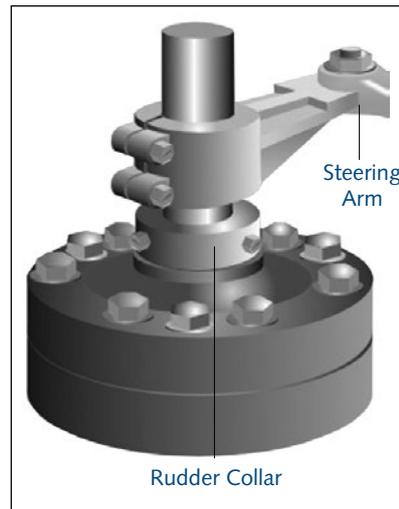


Bronze Rudder Stock Note:

Bronze rudder stock diameters may run slightly under nominal. If necessary, Tides will machine the bore of the ball-type bearing to match your installation accordingly.



The following is a brief description of the installation procedures associated with the URB-STD. Installation instructions are included with each unit and should be followed closely.

1. Block the rudder securely in position.
2. Remove steering arm and quadrant from rudder stock.
3. Disconnect rudder collar and remove.
4. Remove existing rudder bearing.
5. Fill the bolt holes left in the shelf from the old bearing with fiberglass and resin.
6. Slide the URB-STD onto the stock and into position on the rudder shelf.
7. Align/rotate the URB-STD so that new bolt holes can be drilled through the shelf. If necessary, Tides has backing plates available for additional strength.
8. Drill through the shelf using the "bushed" installation holes in the URB-STD as a template.
9. Insert stainless steel bolts through the assembly and secure to the rudder shelf. Be certain to use bolts which are sized to match the "bushed" holes in the URB-STD. Do not under size. Large fender washers or a backing plate should be used against the bottom of the rudder shelf.
10. Reposition the rudder collar so that it rests upon the flat surface of the ball-type bearing in the URB-STD and secure. Use washers, as necessary, to align rudder collar with original set screw "dimples".
11. Remove the blocking from the rudder and verify that the rudder swings freely.
12. Reassemble the other steering components.

TIDESMARINE Upper Rudder Bearing - Standard Profile

Before placing your order, there are several measurements you need to take/confirm.

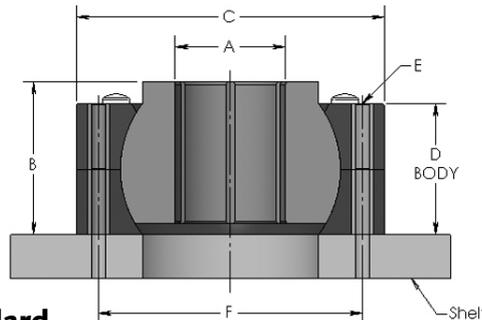
Find the exact outside diameter of your rudder stock to three decimals (.000”).

Locate this rudder stock size in Column A of the table below.

Then, note the corresponding assembly height in Column “B” of the table. Verify there is enough room between the rudder shelf and the deck (or any miscellaneous structures) above to install the unit (generally 2 x the overall height of the URB-STD). If height restrictions exist, the URB-LP (page 6 in this catalog) may be a better choice.

Next, confirm there is sufficient clear space around the rudder stock on the rudder shelf for the URB-STD that fits your boat. Measurement C in the diagram and the table should be used for this purpose.

Finally, check the position and mounted height of the other steering components to determine if any adjustment will be necessary once the URB-STD is in place.



Upper Rudder Bearing-Standard Specifications (dimensions in inches)

RUDDER STOCK OD	ASSEMBLY HEIGHT	ASSEMBLY DIAMETER	BODY HEIGHT	# OF BOLTS IN FLANGE	BOLT CENTER	PART NUMBER
A	B	C	D	E	F	
1	2 3/8	5	1 3/4	6	4	URB-STD-1000
1 1/4	2 3/8	5	1 3/4	6	4	URB-STD-1250
1 3/8	2 3/8	5	1 3/4	6	4	URB-STD-1375
1 1/2	2 3/8	5	1 3/4	6	4	URB-STD-1500
1 3/4	2 3/8	5	1 3/4	6	4	URB-STD-1750
1 7/8	3 1/4	6	2 1/2	6	5	URB-STD-1875
2	3 1/4	6	2 1/2	6	5	URB-STD-2000
2 1/4	3 1/4	6	2 1/2	6	5	URB-STD-2250
2 1/2	3 1/2	7	3	6	6	URB-STD-2500
2 3/4	4 3/4	8	3 1/2	8	7	URB-STD-2750
3	4 3/4	8	3 1/2	8	7	URB-STD-3000
3 1/4	4 3/4	8	3 1/2	8	7	URB-STD-3250
3 1/2	4 3/4	8	3 1/2	8	7	URB-STD-3500
4	4 3/4	9	4	6	7 1/2	URB-STD-4000
4 1/2	5 1/2	10	4 1/4	6	8 3/4	URB-STD-4500
5	5 1/2	10	4 1/4	6	8 3/4	URB-STD-5000
5 1/2	5 1/2	11	4 1/4	6	9 1/2	URB-STD-5500

If you are replacing a standard part (ex: URB-STD-1000), please specify its size/configurations when ordering because there are numerous variations for the same shaft size. You may not have the standard model.

