

Naval Brass Sleeve Bearings

INCH SIZE SERIES

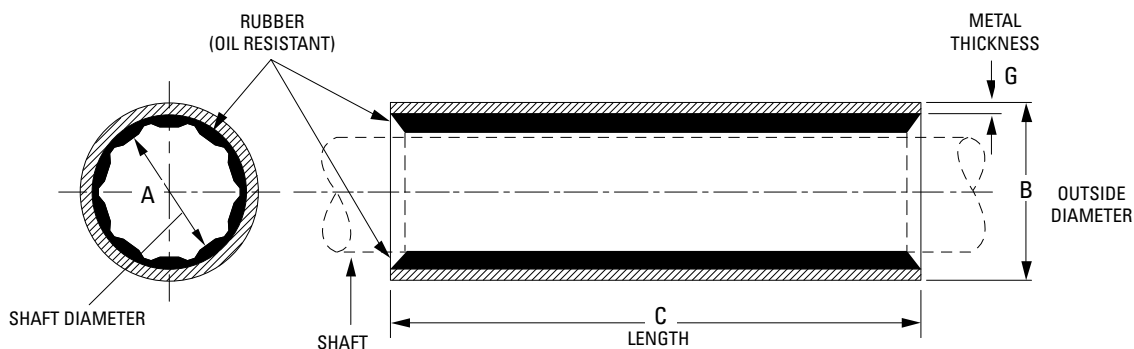


Johnson Cutless® Naval Brass Sleeve Bearings adapt equally well to strut and stern tube mounts, and are often used effectively as rudder-stock and pintle bushings. Bearing diameters are precision fitted to the designated shaft size with the correct clearance for efficient water lubrication. External brass shells are machined and polished to provide easy fitting. Specially formulated oil and chemical resistant nitrile rubber is securely bonded to the shell. Units with thin shells are available for the struts of small craft. Sleeve bearings are usually installed by light press-fitting and locked in place with cone-pointed set screws.

PRECAUTION:

When shrink fitting of the bearing is required, chilling must be achieved by gradual cooling to not more than minus 20°F(-28°C) using freezer or regular ice (**DO NOT DRY ICE**). NOTE: Pounding or shocking the bearing while in the chilled state could cause the rubber to separate from the shell.

Approved Bearings: Johnson Cutless® Naval Brass Sleeve Bearings meet military specification MIL-DTL-17901C (SH) Class II Full-Molded type and have full type approval from The American Bureau of Shipping.



| Part Number | Code | A Shaft Diameter | | B Outside Diameter | | C Length | | G Metal Thickness | | Gross Wt. | |
|-------------|--------|---------------------|-------|-----------------------|-------|-------------|--------|----------------------|------|-----------|-----|
| | | inches | mm | inches | mm | inches | mm | inches | mm | lb. | kg. |
| 870192100 | ABLE | 3/4 | 19.05 | 1 1/4 | 31.75 | 3 | 76.20 | 1/8 | 3.18 | 0.5 | 0.2 |
| 870222100 | * ACID | 7/8 | 22.23 | 1 1/4 | 31.75 | 3 1/2 | 88.90 | 1/16 | 1.59 | 0.4 | 0.2 |
| 870222101 | APEX | 7/8 | 22.23 | 1 3/8 | 34.93 | 3 1/2 | 88.90 | 1/8 | 3.18 | 0.7 | 0.3 |
| 870222102 | ATOM | 7/8 | 22.23 | 1 1/2 | 38.10 | 3 1/2 | 88.90 | 1/8 | 3.18 | 0.8 | 0.4 |
| 870252100 | * BACK | 1 | 25.40 | 1 1/4 | 31.75 | 4 | 101.60 | 1/16 | 1.59 | 0.4 | 0.2 |
| 870252144 | * BADE | 1 | 25.40 | 1 1/4 | 31.75 | 6 | 152.40 | 1/16 | 1.59 | 0.6 | 0.3 |
| 870252101 | BAIT | 1 | 25.40 | 1 3/8 | 34.93 | 4 | 101.60 | 1/16 | 1.59 | 0.5 | 0.2 |
| 870252102 | BALE | 1 | 25.40 | 1 1/2 | 38.10 | 4 | 101.60 | 1/8 | 3.18 | 0.7 | 0.3 |
| 870252103 | BAND | 1 | 25.40 | 1 5/8 | 41.28 | 4 | 101.60 | 1/8 | 3.18 | 0.9 | 0.4 |
| 870252104 | BASE | 1 | 25.40 | 2 | 50.80 | 4 | 101.60 | 1/8 | 3.18 | 1.3 | 0.6 |
| 870292100 | * BEAM | 1 1/8 | 28.58 | 1 1/2 | 38.10 | 4 1/2 | 114.30 | 1/16 | 1.59 | 0.6 | 0.3 |
| 870292101 | BELT | 1 1/8 | 28.58 | 1 5/8 | 41.28 | 4 1/2 | 114.30 | 1/8 | 3.18 | 1.0 | 0.5 |
| 870292102 | BEND | 1 1/8 | 28.58 | 1 3/4 | 44.45 | 4 1/2 | 114.30 | 1/8 | 3.18 | 1.1 | 0.5 |
| 870292103 | BILL | 1 1/8 | 28.58 | 2 | 50.80 | 4 1/2 | 114.30 | 1/8 | 3.18 | 1.4 | 0.6 |
| 870322100 | * BIND | 1 1/4 | 31.75 | 1 1/2 | 38.10 | 5 | 127.00 | 1/16 | 1.59 | 0.6 | 0.3 |
| 870322101 | BIRD | 1 1/4 | 31.75 | 1 3/4 | 44.45 | 5 | 127.00 | 1/8 | 3.18 | 1.2 | 0.5 |
| 870322102 | BITE | 1 1/4 | 31.75 | 2 | 50.80 | 5 | 127.00 | 1/8 | 3.18 | 1.5 | 0.7 |
| 870322103 | BLOW | 1 1/4 | 31.75 | 2 1/8 | 53.98 | 5 | 127.00 | 1/8 | 3.18 | 1.7 | 0.8 |
| 870352100 | BOAT | 1 3/8 | 34.93 | 1 7/8 | 47.63 | 5 1/2 | 139.70 | 1/8 | 3.18 | 1.4 | 0.6 |
| 870352101 | BOLD | 1 3/8 | 34.93 | 2 | 50.80 | 5 1/2 | 139.70 | 1/8 | 3.18 | 1.5 | 0.7 |
| 870352102 | BOND | 1 3/8 | 34.93 | 2 1/8 | 53.98 | 5 1/2 | 139.70 | 1/8 | 3.18 | 1.8 | 0.8 |
| 870352103 | BOOT | 1 3/8 | 34.93 | 2 3/8 | 60.33 | 5 1/2 | 139.70 | 1/8 | 3.18 | 1.8 | 0.8 |
| 870382100 | BOSS | 1 1/2 | 38.10 | 2 | 50.80 | 6 | 152.40 | 1/8 | 3.18 | 1.6 | 0.7 |
| 870382101 | BRAD | 1 1/2 | 38.10 | 2 3/8 | 60.33 | 6 | 152.40 | 1/8 | 3.18 | 2.2 | 1.0 |
| 870412100 | BREW | 1 5/8 | 41.28 | 2 1/8 | 53.98 | 6 1/2 | 165.10 | 1/8 | 3.18 | 2.0 | 1.9 |
| 870412101 | BRIM | 1 5/8 | 41.28 | 2 5/8 | 66.68 | 6 1/2 | 165.10 | 1/8 | 3.18 | 2.6 | 1.2 |
| 870452100 | BROW | 1 3/4 | 44.45 | 2 3/8 | 60.33 | 7 | 177.80 | 1/8 | 3.18 | 2.3 | 1.0 |

All Bearings Shown Are Carried in Stock

*Slimline Bearing

| Part Number | Code | A Shaft Diameter | | B Outside Diameter | | C Length | | G Metal Thickness | | Gross Wt. | |
|-------------|------|---------------------|--------|-----------------------|--------|-------------|--------|----------------------|-------|-----------|------|
| | | inches | mm | inches | mm | inches | mm | inches | mm | lb. | kg. |
| 870452102 | BRUT | 1 3/4 | 44.45 | 2 1/2 | 63.50 | 7 | 177.80 | 3/32 | 2.38 | 2.5 | 1.1 |
| 870452101 | BUCK | 1 3/4 | 44.45 | 2 5/8 | 66.68 | 7 | 177.80 | 1/8 | 3.18 | 2.8 | 1.3 |
| 870482100 | BULB | 1 7/8 | 47.63 | 2 5/8 | 66.68 | 7 1/2 | 190.50 | 1/8 | 3.18 | 2.8 | 1.3 |
| 870482101 | BULL | 1 7/8 | 47.63 | 2 15/16 | 74.61 | 7 1/2 | 190.50 | 3/32 | 2.38 | 3.1 | 1.4 |
| 870512100 | CALL | 2 | 50.80 | 2 5/8 | 66.68 | 8 | 203.20 | 1/8 | 3.18 | 2.8 | 1.3 |
| 870512143 | CAMP | 2 | 50.80 | 2 3/4 | 69.85 | 8 | 203.20 | 1/8 | 3.18 | 3.3 | 1.5 |
| 870512101 | CALM | 2 | 50.80 | 3 | 76.20 | 8 | 203.20 | 1/8 | 3.18 | 3.8 | 1.7 |
| 870542100 | CAME | 2 1/8 | 53.98 | 2 15/16 | 74.61 | 8 1/2 | 215.90 | 1/8 | 3.18 | 3.1 | 1.4 |
| 870542101 | CAPE | 2 1/8 | 53.98 | 3 1/8 | 79.38 | 8 1/2 | 215.90 | 1/8 | 3.18 | 4.1 | 1.9 |
| 870572100 | CARE | 2 1/4 | 57.15 | 2 15/16 | 74.61 | 9 | 228.60 | 3/32 | 2.38 | 3.1 | 1.4 |
| 870572133 | CARD | 2 1/4 | 57.15 | 3 | 76.20 | 9 | 228.60 | 1/8 | 3.18 | 3.9 | 1.8 |
| 870572101 | CART | 2 1/4 | 57.15 | 3 1/8 | 79.38 | 9 | 228.60 | 1/8 | 3.18 | 4.3 | 2.0 |
| 870572102 | CASE | 2 1/4 | 57.15 | 3 3/8 | 85.73 | 9 | 228.60 | 1/8 | 3.18 | 5.1 | 2.3 |
| 870602100 | COOK | 2 3/8 | 60.33 | 3 3/8 | 85.73 | 9 1/2 | 241.30 | 1/8 | 3.18 | 4.8 | 2.2 |
| 870642100 | CORD | 2 1/2 | 63.50 | 3 1/8 | 79.38 | 10 | 254.00 | 1/8 | 3.18 | 4.5 | 2.0 |
| 870642174 | CORK | 2 1/2 | 63.50 | 3 1/4 | 82.55 | 10 | 254.00 | 1/16 | 1.59 | 3.1 | 1.4 |
| 870642101 | CORN | 2 1/2 | 63.50 | 3 3/8 | 85.73 | 10 | 254.00 | 1/8 | 3.18 | 5.1 | 2.3 |
| 870642134 | COVE | 2 1/2 | 63.50 | 3 1/2 | 88.90 | 10 | 254.00 | 5/32 | 3.97 | 6.6 | 3.0 |
| 870672100 | CRAB | 2 5/8 | 66.68 | 3 3/8 | 85.73 | 10 1/2 | 266.70 | 1/8 | 3.18 | 5.2 | 2.4 |
| 870702100 | CROW | 2 3/4 | 69.85 | 3 3/8 | 85.73 | 11 | 279.40 | 1/8 | 3.18 | 4.8 | 2.2 |
| 870702139 | CUBE | 2 3/4 | 69.85 | 3 1/2 | 88.90 | 11 | 279.40 | 5/32 | 3.97 | 6.6 | 3.0 |
| 870702101 | CURD | 2 3/4 | 69.85 | 3 3/4 | 95.25 | 11 | 279.40 | 1/8 | 3.18 | 6.6 | 3.0 |
| 870732100 | CURE | 2 7/8 | 73.03 | 3 3/4 | 95.25 | 11 1/2 | 292.10 | 1/8 | 3.18 | 6.5 | 2.9 |
| 870762100 | DANE | 3 | 76.20 | 3 3/4 | 95.25 | 12 | 304.80 | 1/8 | 3.18 | 6.8 | 3.1 |
| 870762101 | DARE | 3 | 76.20 | 4 | 101.60 | 12 | 304.80 | 1/8 | 3.18 | 7.7 | 3.5 |
| 870802100 | DARK | 3 1/8 | 79.38 | 4 1/4 | 107.95 | 12 1/2 | 317.50 | 1/8 | 3.18 | 8.6 | 3.9 |
| 870832100 | DARN | 3 1/4 | 82.55 | 4 | 101.60 | 13 | 330.20 | 1/8 | 3.18 | 7.8 | 3.5 |
| 870832101 | DELL | 3 1/4 | 82.55 | 4 1/4 | 107.95 | 13 | 330.20 | 1/8 | 3.18 | 8.7 | 3.9 |
| 870862100 | DIKE | 3 3/8 | 85.73 | 4 1/2 | 114.30 | 13 1/2 | 342.90 | 1/8 | 3.18 | 10.2 | 4.6 |
| 870892100 | DINE | 3 1/2 | 88.90 | 4 1/4 | 107.95 | 14 | 355.60 | 1/8 | 3.18 | 8.9 | 4.0 |
| 870892101 | DOCK | 3 1/2 | 88.90 | 4 1/2 | 114.30 | 14 | 355.60 | 1/8 | 3.18 | 10.3 | 4.7 |
| 870922100 | DOLE | 3 5/8 | 92.08 | 4 1/2 | 114.30 | 14 1/2 | 368.30 | 1/8 | 3.18 | 10.0 | 4.5 |
| 870952100 | DONE | 3 3/4 | 95.25 | 4 1/2 | 114.30 | 15 | 381.00 | 1/8 | 3.18 | 9.6 | 4.4 |
| 870952101 | DOVE | 3 3/4 | 95.25 | 5 | 127.00 | 15 | 381.00 | 3/16 | 4.76 | 16.5 | 7.5 |
| 870952102 | DRAW | 3 3/4 | 95.25 | 5 1/4 | 133.35 | 15 | 381.00 | 3/16 | 4.76 | 18.2 | 8.3 |
| 870992100 | DULL | 3 7/8 | 98.43 | 5 1/4 | 133.35 | 15 1/2 | 393.70 | 3/16 | 4.76 | 18.7 | 8.5 |
| 871022100 | EARN | 4 | 101.60 | 5 | 127.00 | 16 | 406.40 | 3/16 | 4.76 | 16.9 | 7.7 |
| 871022101 | EASE | 4 | 101.60 | 5 1/4 | 133.35 | 16 | 406.40 | 3/16 | 4.76 | 18.7 | 8.5 |
| 871052100 | ECHO | 4 1/8 | 104.78 | 5 1/4 | 133.35 | 16 1/2 | 419.10 | 3/16 | 4.76 | 19.0 | 8.6 |
| 871082100 | EDIT | 4 1/4 | 107.95 | 5 1/2 | 139.70 | 17 | 431.80 | 3/16 | 4.76 | 22.0 | 10.0 |
| 871112100 | ELSE | 4 3/8 | 111.13 | 5 3/4 | 146.05 | 17 1/2 | 444.50 | 3/16 | 4.76 | 23.7 | 10.8 |
| 871152100 | EPIC | 4 1/2 | 114.30 | 5 1/2 | 139.70 | 18 | 457.20 | 3/16 | 4.76 | 21.3 | 9.7 |
| 871152101 | EDGE | 4 1/2 | 114.30 | 5 3/4 | 146.05 | 18 | 457.20 | 3/16 | 4.76 | 23.7 | 10.8 |
| 871182100 | EVEN | 4 5/8 | 117.48 | 6 1/8 | 155.58 | 18 1/2 | 469.90 | 1/4 | 6.35 | 42.0 | 19.1 |
| 871212100 | EVER | 4 3/4 | 120.65 | 6 1/8 | 155.58 | 19 | 482.60 | 1/4 | 6.35 | 41.0 | 18.6 |
| 871242100 | EVIL | 4 7/8 | 123.83 | 6 1/8 | 155.58 | 19 1/2 | 495.30 | 1/4 | 6.35 | 41.7 | 18.9 |
| 871272100 | FACE | 5 | 127.00 | 6 1/8 | 155.58 | 20 | 508.00 | 1/4 | 6.35 | 42.3 | 19.2 |
| 871272101 | FACT | 5 | 127.00 | 6 1/2 | 165.10 | 20 | 508.00 | 1/4 | 6.35 | 48.7 | 22.1 |
| 871342100 | FADE | 5 1/4 | 133.35 | 6 3/4 | 171.45 | 21 | 533.40 | 1/4 | 6.35 | 50.3 | 22.8 |
| 871342101 | FARE | 5 1/4 | 133.35 | 7 | 177.80 | 21 | 533.40 | 1/4 | 6.35 | 55.0 | 24.9 |
| 871372100 | FEAR | 5 3/8 | 136.53 | 6 3/4 | 171.45 | 21 1/2 | 546.10 | 1/4 | 6.35 | 51.3 | 23.3 |
| 871372101 | FELT | 5 3/8 | 136.53 | 7 | 177.80 | 21 1/2 | 546.10 | 1/4 | 6.35 | 56.0 | 25.4 |
| 871402100 | FIND | 5 1/2 | 139.70 | 7 | 177.80 | 22 | 558.80 | 1/4 | 6.35 | 56.0 | 25.4 |
| 871402181 | FLAG | 5 1/2 | 139.70 | 7 1/4 | 184.15 | 22 | 558.80 | 3/8 | 9.53 | 58.2 | 26.4 |
| 871432100 | FLAT | 5 5/8 | 142.88 | 7 | 177.80 | 22 1/2 | 571.50 | 1/4 | 6.35 | 55.5 | 25.2 |
| 871462100 | FORK | 5 3/4 | 146.05 | 7 | 177.80 | 23 | 584.20 | 1/4 | 6.35 | 56.5 | 25.6 |
| 871502100 | FUEL | 5 7/8 | 149.23 | 7 1/2 | 190.50 | 24 | 609.60 | 1/4 | 6.35 | 65.8 | 29.8 |
| 871532100 | GALE | 6 | 152.40 | 7 1/2 | 190.50 | 24 | 609.60 | 1/4 | 6.35 | 66.0 | 29.9 |
| 871662100 | GOLD | 6 1/2 | 165.10 | 8 3/8 | 212.73 | 30 | 762.00 | 7/16 | 11.11 | 150.0 | 68.0 |

All Bearings Shown Are Carried in Stock

Naval Brass Sleeve Bearings

METRIC SIZE SERIES



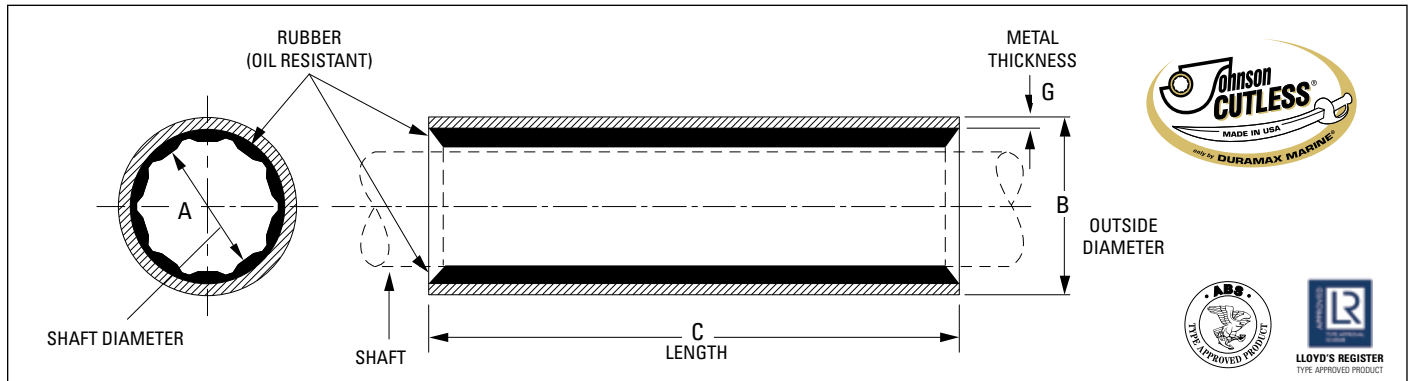
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NAVAL BRASS SLEEVE - METRIC



| Part Number | A Shaft Diameter mm | B Outside Diameter mm | C Length mm | G Metal Thickness mm | Gross Wt. | |
|-------------|---------------------------|-----------------------------|-------------------|----------------------------|-----------|------|
| | | | | | lb. | kg. |
| 870254100 | 25 | 40 | 100 | 2.54 | 0.8 | 0.4 |
| 870284100 | 28 | 42 | 112 | 2.35 | 0.7 | 0.3 |
| 870304100 | 30 | 45 | 120 | 3.07 | 1.2 | 0.5 |
| 870324100 | 32 | 45 | 128 | 3.07 | 1.3 | 0.6 |
| 870354100 | 35 | 50 | 140 | 3.07 | 1.5 | 0.7 |
| 870384100 | 38 | 55 | 152 | 3.07 | 1.7 | 0.8 |
| 870404100 | 40 | 55 | 160 | 3.07 | 1.8 | 0.8 |
| 870454100 | 45 | 65 | 180 | 3.30 | 2.8 | 1.3 |
| 870504100 | 50 | 70 | 200 | 3.26 | 3.1 | 1.4 |
| 870554100 | 55 | 75 | 220 | 2.58 | 3.8 | 1.7 |
| 870604100 | 60 | 80 | 240 | 3.26 | 4.5 | 2.0 |
| 870654100 | 65 | 85 | 260 | 2.82 | 4.8 | 2.2 |
| 870704100 | 70 | 90 | 280 | 4.76 | 5.8 | 2.6 |
| 870754100 | 75 | 95 | 300 | 3.05 | 6.7 | 3.0 |
| 870804100 | 80 | 100 | 320 | 3.17 | 7.7 | 3.5 |
| 870854100 | 85 | 105 | 340 | 3.19 | 8.7 | 3.9 |
| 870904100 | 90 | 110 | 360 | 4.78 | 12.5 | 5.7 |
| 870954100 | 95 | 115 | 380 | 4.51 | 13.3 | 6.0 |
| 871004100 | 100 | 125 | 400 | 3.77 | 14.3 | 6.5 |
| 871054100 | 105 | 130 | 420 | 4.52 | 17.6 | 8.0 |
| 871104100 | 110 | 135 | 440 | 4.51 | 19.0 | 8.6 |
| 871154100 | 115 | 145 | 460 | 4.25 | 25.3 | 11.0 |
| 871204100 | 120 | 155 | 480 | 6.06 | 31.6 | 14.0 |
| 871304100 | 130 | 170 | 520 | 5.63 | 49.0 | 22.0 |
| 871404100 | 140 | 180 | 560 | 7.45 | 56.0 | 25.0 |