

**REV.
A****AS21428**

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AEROSPACE STANDARD

BEARING, BALL, AIRFRAME,
ANTI-FRICTION, EXTRA LIGHT DUTY,
PRECISION

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SHEET 1 OF 3

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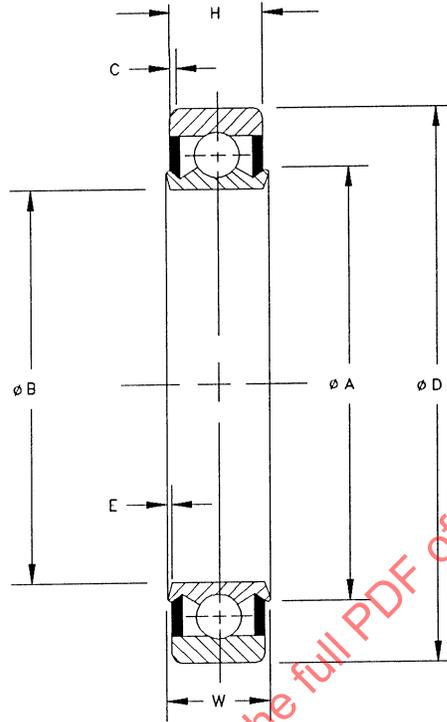


TABLE 1 DIMENSIONS AND LOADS

| MS DASH NO. | øB | BORE TOLERANCE | øD | | OUTSIDE DIAMETER TOLERANCE | W | H | øA | E & C | WEIGHT POUNDS (APPROX) | RADIAL LIMIT LOAD RATING LBS | THRUST LIMIT LOAD RATING LBS | 5/ 6/ RADIAL LOAD RATING (LBS.) FOR AVERAGE LIFE OF 10,000 COMPLETE 90° CYCLES | | MAXIMUM STARTING TORQUE (INCH-OZ) |
|-------------------|------------|--------------------|---------------------------|------------------------------|----------------------------------|------------------------------|--|--------------------------------|------------------|------------------------------|--|--|--|------|--|
| | 2/ BORE | | 1/ OUTSIDE DIAMETER | 1/ WIDTH INNER RING | | 1/ WIDTH OUTER RING | 3/ SHOULDER DIAMETER INNER RING APPROX. | 4/ CORNER CHAMFER 45° | 5/ CASE I | | | | 6/ CASE II | | |
| -38 | .6250 | + .0000 - .0005 | 1.0625 | + .0000 - .0005 | .2810 | .250 | .777 | .015 | + .020 - .000 | .03 | 3280 | 1500 | 1990 | 1820 | 2 |
| -39 | .7500 | | 1.1875 | | | | .895 | | | .04 | 3750 | 1700 | 2050 | 1900 | 2 |
| -40 | .8750 | 1.3125 | 1.016 | .05 | 4220 | 1900 | 2110 | 1970 | 3 | | | | | | |
| -41 | 1.0625 | 1.5000 | 1.216 | .06 | 5000 | 2200 | 2170 | 2020 | 4 | | | | | | |
| -42 | 1.3125 | 1.7500 | 1.451 | .09 | 5950 | 2700 | 2220 | 2130 | 4 | | | | | | |
| -43 | 1.5625 | 2.0000 | 1.702 | .10 | 6880 | 3200 | 2260 | 2180 | 5 | | | | | | |
| -44 | 1.8125 | 2.2500 | 1.970 | .11 | 7960 | 3600 | 2300 | 2220 | 5 | | | | | | |
| -45 | 2.0625 | 2.6250 | 2.286 | .15 | 9220 | 4000 | 2340 | 2260 | 6 | | | | | | |
| -46 | 2.3125 | 2.8750 | 2.527 | .17 | 10150 | 4400 | 2360 | 2280 | 6 | | | | | | |

1/ DIMENSIONS TO BE MET AFTER PLATING.

2/ OUT-OF-ROUND TOLERANCES:

BORE:

FOR -38 THRU -43: +.0003, -.0008

FOR -44 THRU -46: +.0003, -.0011

OUTER DIAMETER:

FOR -38 THRU -43: +.0005, -.0010

FOR -44 THRU -46: +.0005, -.0012

3/ A RADIUS GIVING APPROXIMATELY THE SAME GRIP FOR STAKING THE BEARING AND MAINTAINING DIMENSION C IS ACCEPTABLE IN LIEU OF THE 45° FLAT SURFACE CHAMFER.

4/ A RADIUS GIVING APPROXIMATELY THE SAME FILLET CLEARANCE AND MAINTAINING DIMENSION E IS ACCEPTABLE IN LIEU OF THE 45° FLAT SURFACE CHAMFER.

5/ CASE I = LOAD IS FIXED WITH RESPECT TO OUTER RING.

CASE II = LOAD IS FIXED WITH RESPECT TO THE INNER RING.

6/ THESE RATINGS ARE FOR OPERATION UP TO 250°F FOR OPERATION UP TO 350°F, THE RATINGS SHALL BE REDUCED BY 20%.

(C) DENOTES CHANGES