



RPHT / RPHT-V NARROW/AEROSPACE

*Teflon Lined

| RADIAL PART NO. | | B | D | W | H | E | O | Ball Dia. | M° mis align angle MIN. | Load Ratings (LBS) | | | | Approx Weight (LBS) |
|-----------------|----------|--------------------|--------------------|------------------|--------|------------------|-------|-----------|-------------------------------|--------------------|------------|---------------------------------|-------------------------------------|---------------------|
| | | | | | | | | | | Static Limit | | Dynamic Oscillating Radial Load | No Load Breakaway Torque (Inch Lbs) | |
| | | | | | | | | | | Radial Load | Axial Load | | | |
| Plain | Grooved. | + .0000 - .0005 | + .0000 - .0005 | + .000 - .002 | ± .005 | + .000 - .008 | MIN. | (REF.) | MIN. | | | | | |
| RPHT-3 | RPHT-3V | .1900 | .5625 | .281 | .218 | .500 | .293 | .406 | 10 | 3,975 | 150 | 1,500 | .25 to 5 | .020 |
| RPHT-4 | RPHT-4V | .2500 | .6562 | .343 | .250 | .594 | .364 | .500 | 10 | 6,040 | 430 | 3,320 | .25 to 5 | .020 |
| RPHT-5 | RPHT-5V | .3125 | .7500 | .375 | .281 | .650 | .419 | .562 | 10 | 8,750 | 700 | 5,460 | .25 to 8 | .030 |
| - | RPHT-5AV | .3125 | .7500 | .375 | .281 | .660 | .419 | .562 | 10 | 8,750 | 700 | 5,460 | .25 to 8 | .030 |
| RPHT-6 | RPHT-6V | .3750 | .8125 | .406 | .312 | .712 | .475 | .656 | 9 | 10,540 | 1,100 | 6,600 | .25 to 8 | .040 |
| RPHT-7 | RPHT-7V | .4375 | .9062 | .437 | .343 | .806 | .530 | .718 | 8 | 13,200 | 1,400 | 8,050 | .25 to 8 | .050 |
| RPHT-8 | RPHT-8V | .5000 | 1.0000 | .500 | .390 | .876 | .640 | .813 | 8 | 17,900 | 2,100 | 10,400 | .25 to 8 | .070 |
| RPHT-9 | RPHT-9V | .5625 | 1.0937 | .562 | .437 | .970 | .670 | .875 | 8 | 23,200 | 3,680 | 13,000 | .25 to 8 | .090 |
| RPHT-10 | RPHT-10V | .6250 | 1.1875 | .625 | .500 | 1.063 | .739 | .968 | 8 | 30,500 | 4,720 | 16,450 | .25 to 8 | .120 |
| RPHT-12 | RPHT-12V | .7500 | 1.4375 | .750 | .593 | 1.313 | .920 | 1.187 | 8 | 46,400 | 6,750 | 23,600 | .25 to 8 | .210 |
| RPHT-14 | RPHT-14V | .8750 | 1.5625 | .875 | .703 | 1.438 | .980 | 1.312 | 8 | 62,200 | 9,350 | 30,250 | .25 to 12 | .270 |
| RPHT-16 | RPHT-16V | 1.0000 | 1.7500 | 1.000 | .797 | 1.626 | 1.118 | 1.500 | 9 | 82,200 | 12,160 | 38,000 | .25 to 12 | .390 |

Materials

| BALL | RACE | LINER |
|---|-------------------------------------|--|
| 440C (AMS-5630) CRES Heat Treated Hard Chrome Plated | 17-4 PH AMS-5643 Heat Treated | Teflon* Fabric Permanently Bonded to Race I. D. |

*A trade name of E. I. Dupont de Nemours & Co

Notes

1. Diameters B , D , & E are concentric within .003 T. I. R. on sizes -3 thru -5 and .005 T.I.R. on sizes -6 thru -16.
2. Finish: Ball Diameter- RHR 8 max. Bore, ball face, outer member dia-RHR 32 max. All other surfaces RHR 125 max.
3. Tolerances: Decimals + - .010, Angles: ± 1/2°.
4. Temperature range: -65° F to 325° F.
5. Bearings listed on this page conform to the materials dimensions, and configurations of MS- 14101 (Grooved) and MS- 14104 (Plain); however, Radial is not approved for procurement under that specification. Consult factory for additional information.

