

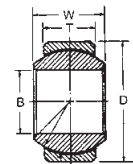
## Aurora PTFE-Lined Spherical Bearings

| Wide Series PTFE-Lined Spherical Bearings |                |              |              |                           |          |         |
|---|----------------|--------------|--------------|---------------------------|----------|---------|
| Bore Size B                               | Outside Dia. D | Ball Width W | Race Width T | Static Radial Load Rating | Part No. | Price   |
| 5/16"                                     | 11/16"         | 7/16"        | 0.317"       | 9,400 lb.                 | 3070-5   | \$24.99 |
| 3/8"                                      | 13/16"         | 1/2"         | 0.406"       | 13,700 lb.                | 3070-6   | \$26.99 |
| 7/16"                                     | 15/16"         | 9/16"        | 0.442"       | 20,700 lb.                | 3070-7   | \$29.99 |
| 1/2"                                      | 1.00"          | 5/8"         | 0.505"       | 21,400 lb.                | 3070-8   | \$32.99 |
| 9/16"                                     | 1 1/8"         | 11/16"       | 0.536"       | 26,600 lb.                | 3070-9   | \$37.99 |
| 5/8"                                      | 1 3/16"        | 3/4"         | 0.567"       | 29,000 lb.                | 3070-10  | \$41.99 |
| 3/4"                                      | 1 3/8"         | 7/8"         | 0.630"       | 37,000 lb.                | 3070-12  | \$43.99 |

All of the spherical bearings listed here are constructed using heat-treated and hard chrome plated balls and hard alloy steel, PTFE lined races for unsurpassed strength and durability.



Wide Series  
Part No. 3070-xx



Key dimensions on a typical spherical bearing insert.



Shock Absorber Bearing  
Part No. 3073-B

| Special Sizes – PTFE-Lined Spherical Bearings |                |              |              |                           |          |         |
|---|----------------|--------------|--------------|---------------------------|----------|---------|
| Bore Size B                                   | Outside Dia. D | Ball Width W | Race Width T | Static Radial Load Rating | Part No. | Price   |
| 1/2"  | 7/8"           | 7/16"        | 3/8"         | 19,680 lb.                | 3073-8*  | \$37.99 |
| 1/2"  | 26mm           | 16mm         | 9mm          | 14,455 lb                 | 3076-001 | \$22.79 |
| 1/2"  | 1 1/8"         | 3/4"         | 1/2"         | 28,500 lb.                | 3075-8   | \$59.99 |
| 1/2"  | 1 3/16"        | 3/4"         | 3/8"         | 14,455 lb.                | 3076-8   | \$69.99 |
| 5/8"  | 1 9/16"        | 7/8"         | 11/16"       | 36,050 lb.                | 3073-10  | \$46.99 |
| 5/8"  | 1 3/8"         | 7/8"         | 5/8"         | 25,600 lb.                | 3074-10  | \$44.99 |
| 1.00"   | 1 3/4"         | 1.00"        | 0.795"       | 55,200 lb.                | 3074-16  | \$41.99 |

\* Replaces the low-quality split-race bearing supplied on many racing shocks. (Not all shocks use this size so be sure to check.)

| Narrow Series PTFE-Lined Spherical Bearings |                |              |              |                           |          |         |
|---|----------------|--------------|--------------|---------------------------|----------|---------|
| Bore Size B                                 | Outside Dia. D | Ball Width W | Race Width T | Static Radial Load Rating | Part No. | Price   |
| 3/8"  | 13/16"         | 0.406"       | 0.312"       | 10,540 lb.                | 3071-6   | \$27.99 |
| 7/16"                                       | 0.9062"        | 7/16"        | 0.343"       | 13,200 lb.                | 3071-7   | \$30.49 |
| 1/2"  | 1.000"         | 1/2"         | 0.390"       | 17,900 lb.                | 3071-8   | \$32.99 |
| 5/8"  | 1 3/16"        | 5/8"         | 0.500"       | 30,500 lb.                | 3071-10  | \$41.99 |
| 3/4"  | 1 7/16"        | 3/4"         | 0.593"       | 46,400 lb.                | 3071-12  | \$44.99 |



Narrow Series  
Part No. 3071-xx



High-Misalignment Necked Ball Series  
Part No. 3072-xx

| High-Misalignment (Necked Ball) Spherical Bearings |                |              |              |                           |          |         |
|--|----------------|--------------|--------------|---------------------------|----------|---------|
| Bore Size B  | Outside Dia. D | Ball Width W | Race Width T | Static Radial Load Rating | Part No. | Price   |
| 3/8"   | 0.9062         | 13/16"       | 0.345"       | 16,000 lb.                | 3072-6   | \$34.99 |
| 7/16"  | 1.000"         | 7/8"         | 0.345"       | 19,018 lb.                | 3072-7   | \$38.99 |
| 1/2"   | 1 1/8"         | 15/16"       | 0.401"       | 25,263 lb.                | 3072-8   | \$39.99 |
| 5/8"   | 1 3/8"         | 1.200"       | 0.567"       | 44,651 lb.                | 3072-10  | \$48.99 |
| 3/4"   | 1 9/16"        | 1.280"       | 0.620"       | 53,707 lb.                | 3072-12  | \$56.99 |

## Spherical Bearing Weld Cups

These chromoly cups are perfect for fabricating A-arms and other suspension components. Four sizes are designed specifically to fit one of our Narrow Series Aurora spherical bearings above. The bearing is retained in the cup by a C-clip (included) on one side and a ridge on the other. For best results, the cup should be oriented so that the primary axial force pushes the bearing toward the ridge. Heavy-wall construction resists deformation from welding heat. Cups are sold individually. CNC manufactured in the USA.



Left: Spherical Bearing Weld Cup  
Part No. 1825-150-Size



Right: Shown with Spherical Bearing (sold separately)

Left: Installation example  
Only trust highly skilled welders to fabricate critical suspension components!

### Spherical Bearing Weld Cups

| For Bearing Part No.               | Bearing Bore | Cup ID (Bearing OD) | Race Width | Ridge ID | Cup Height | Cup OD  | Part No.      | Price       |
|------------------------------------|--------------|---------------------|------------|----------|------------|---------|---------------|-------------|
| 3071-6                             | 3/8"         | 13/16"              | 0.312"     | 0.692"   | 0.685"     | 1.188"  | 1825-150-0812 | \$19.99     |
| 3071-8                             | 1/2"         | 1"                  | 0.390"     | 0.787"   | 0.875"     | 1.375"  | 1825-150-1000 | \$18.99     |
| 3071-10                            | 5/8"         | 1 3/16"             | 0.500"     | 1.12"    | 0.9715"    | 1.6875" | 1825-150-1187 | \$20.99     |
| 3071-12                            | 3/4"         | 1 7/16"             | 0.593"     | 1.312"   | 1.088"     | 1.9375" | 1825-150-1437 | \$23.99     |
| Replacement Circlips, specify size |              |                     |            |          |            |         | 1825-160-Size | \$2.99/pair |

## Seals-It Rod End Seals



Seals-It Rod End Seals are a must if you are using rod ends without a PTFE lining. Rod ends with a PTFE lining (such as the rod ends we carry) normally do not need external seals except in extremely dusty or gritty environments such as off-road racing. These seals have a rubber dust boot bonded to a metal inner washer. Select the bore size which matches the bore size of your rod end. Sold in packs of 6 seals, enough to seal both sides of 3 rod ends.

| Seals-It Rod End Seals – SAE Sizes |           |                  |               |            |
|------------------------------------|-----------|------------------|---------------|------------|
| Bore Size                          | Seal O.D. | Washer Thickness | Part No.      | Price 6/pk |
| 3/16"                              | 0.326"    | 0.020"           | 3077-001-0187 | \$12.49    |
| 1/4"                               | 0.375"    | 0.027"           | 3077-001-0250 | \$12.49    |
| 5/16"                              | 0.487"    | 0.047"           | 3077-001-0312 | \$12.49    |
| 3/8"                               | 0.530"    | 0.047"           | 3077-001-0375 | \$12.49    |
| 7/16"                              | 0.626"    | 0.047"           | 3077-001-0437 | \$12.49    |
| 1/2"                               | 0.730"    | 0.047"           | 3077-001-0500 | \$12.49    |
| 5/8"                               | 0.882"    | 0.047"           | 3077-001-0625 | \$14.49    |
| 3/4"                               | 1.006"    | 0.047"           | 3077-001-0750 | \$15.29    |

| Seals-It Rod End Seals – Metric Sizes |           |                  |              |            |
|---------------------------------------|-----------|------------------|--------------|------------|
| Bore Size                             | Seal O.D. | Washer Thickness | Part No.     | Price 6/pk |
| 8mm                                   | 12.37mm   | 1.20mm           | 3077-001-M08 | \$12.49    |
| 10mm                                  | 13.46mm   | 1.20mm           | 3077-001-M10 | \$12.49    |
| 12mm                                  | 18.54mm   | 1.20mm           | 3077-001-M12 | \$12.49    |
| 14mm                                  | 18.54mm   | 1.20mm           | 3077-001-M14 | \$14.49    |
| 16mm                                  | 22.40mm   | 1.20mm           | 3077-001-M16 | \$14.49    |

Note: These seals will not seal high-misalignment rod ends.

## Nadella Combined Needle Bearings

Nadella bearings are used in many race car applications because of their small size, low weight, and high load capacity. A common use is in rocker pivots on cars with inboard suspension. In order to achieve rated capacity and life, the mating surfaces should have a smooth, hard finish. A Rockwell hardness of C58 will ensure full rated capacity. Using a matching Nadella thrust washer will provide this in the axial direction.

| Nadella Combined Needle Bearings – All dimensions are in millimeters. |                 |              |                 |              |                |                 |                 |                          |         |                                    |        |                                    |         |
|---|-----------------|--------------|-----------------|--------------|----------------|-----------------|-----------------|--------------------------|---------|------------------------------------|--------|------------------------------------|---------|
| Bore Size C1  | Housing Bore D1 | Max. Dia. D2 | Overall Width L | Bore Depth I | Axial Load lb. | Radial Load lb. | Speed Limit rpm | Nadella Bearing Part No. | Price   | Thrust Washer 0.8mm Thick Part No. | Price  | Thrust Washer 2.0mm Thick Part No. | Price   |
| 12  | 18              | 28           | 14.2            | 10           | 562            | 2,473           | 13,000          | 3080-12mm                | \$49.99 | 3081-12mm                          | \$9.99 | 3082-12mm                          | \$16.99 |
| 14  | 20              | 30           | 14.2            | 10           | 652            | 2,810           | 11,500          | 3080-14mm                | \$48.99 | 3081-14mm                          | \$9.99 | 3082-14mm                          | \$16.99 |
| 15  | 21              | 32           | 14.2            | 10           | 697            | 3,147           | 10,500          | 3080-15mm                | \$49.99 | 3081-15mm                          | \$9.99 | 3082-15mm                          | \$16.99 |
| 18  | 24              | 34           | 18.2            | 14           | 1,304          | 3,597           | 10,000          | 3080-18mm                | \$48.99 | 3081-18mm                          | \$9.99 | 3082-18mm                          | \$16.99 |
| 20  | 26              | 37           | 18.2            | 14           | 1,439          | 4,047           | 9,000           | 3080-20mm                | \$54.99 | 3081-20mm                          | \$9.99 | not available                      |         |
| 25  | 33              | 46           | 22.2            | 18           | 2,360          | 4,946           | 7,200           | 3080-25mm                | \$58.99 | 3081-25mm                          | \$9.99 | not available                      |         |

