

# Bearings with Housings

## Thrust Bearings

| Type     |       | Material        | Surface Treatment          | Accessory Set Screw |
|----------|-------|-----------------|----------------------------|---------------------|
| Standard | Pilot | S45C Equivalent | Black Oxide                | SCM435 2 pcs.       |
| BGCSB    | BGCTB |                 | Electroless Nickel Plating | SUS304 2 pcs.       |
| BGCS     | BGCT  | SUS304          | -                          | -                   |

⚠ Bearings are secured to housings with screws. Remove set screws before replenishing lubricant.

RoHS 10

⚠ Mounting holes are tapped and counterbored so the housing can be mounted from either side.

Bearing Accuracy: JIS B 1514 Class 0

| Part Number | Type    | d  | DH7 | Tolerance   | B  | H  | W  | T  | dz | D1 | D2     | D3g7             | Tolerance | T1     | B1 | A  | F           | M (d2)       | d1  | H1  | Bearing Used (P901) |                     |
|-------------|---------|----|-----|-------------|----|----|----|----|----|----|--------|------------------|-----------|--------|----|----|-------------|--------------|-----|-----|---------------------|---------------------|
|             |         |    |     |             |    |    |    |    |    |    |        |                  |           |        |    |    |             |              |     |     |                     | Bearing Used (P901) |
| (Standard)  | (Pilot) | 7  | 19  | +0.021<br>0 | 54 | 38 | 22 | 10 | 25 | 27 | 24     | -0.007<br>-0.028 | 14        | 15.5   | 41 | -  | M8<br>(6.8) | 11           | 6.5 | -   | NKXZ 7              |                     |
| BGCSB       | BGCTB   | 9  | 21  |             | 23 | 56 |    | 40 | 12 | 27 | 29     |                  | 26        | NKXZ 9 |    |    |             |              |     |     |                     |                     |
| BGCS        | BGCT    | 12 | 24  |             | 60 | 15 |    | 29 | 31 | 30 | NKXZ12 |                  |           |        |    |    |             |              |     |     |                     |                     |
| SBGCS       | -       | 14 | 26  |             | 25 | 66 |    | 44 | 24 | 17 | 31     |                  | 33        | 34     | 16 |    |             |              |     |     | 17                  | 52                  |
| (Standard)  | (Pilot) | 17 | 30  | +0.025<br>0 | 77 | 54 | 29 | 20 | 36 | 38 | 36     | -0.009<br>-0.034 | 20        | 20.5   | 50 | 32 | -           | M10<br>(8.5) | 14  | 8.6 | -                   | NKXZ17              |
| BGCSB       | BGCTB   | 20 | 37  |             | 88 | 58 |    | 25 | 43 | 45 | 45     |                  | NKXZ20    |        |    |    |             |              |     |     |                     |                     |
| BGCS        | BGCT    | 25 | 42  |             | 94 | 64 |    | 30 | 48 | 50 | 50     |                  | NKXZ25    |        |    |    |             |              |     |     |                     |                     |
| SBGCS       | -       | 30 | 47  |             | 96 | 66 |    | 35 | 53 | 55 | 54     |                  | NKXZ30    |        |    |    |             |              |     |     |                     |                     |

| d  | Unit Price |      |       |       |      |
|----|------------|------|-------|-------|------|
|    | Standard   |      |       | Pilot |      |
|    | BGCSB      | BGCS | SBGCS | BGCTB | BGCT |
| 7  |            |      |       |       |      |
| 9  |            |      |       |       |      |
| 12 |            |      |       |       |      |
| 14 |            |      |       |       |      |
| 17 |            |      |       |       |      |
| 20 |            |      |       |       |      |
| 25 |            |      |       |       |      |
| 30 |            |      |       |       |      |

Ordering Example: Part Number BGCSB20

Example: Bearing with Housing (BGCSB) and Bearing with Housing (BGCT)

⚠ The structure is not designed to retain loads in X (from the left side) direction.

# Bearings with Housings

## Short Double Bearings, Retained

| Type  |        |         | Material         |                 | Surface Treatment          |
|-------|--------|---------|------------------|-----------------|----------------------------|
| Round | Square | Compact | Bearing          | Housing         | Housing                    |
| BGREB | BGSEB  | BGCEB   | Steel            | S45C Equivalent | Black Oxide                |
| BGRE  | BGSE   | BGCE    | *Stainless Steel | SUS304          | Electroless Nickel Plating |
| SBGRE | SBGSE  | SBGCE   |                  |                 | -                          |

Bearing Accuracy: JIS B 1514 Class 0

RoHS 10

⚠ Mounting holes are tapped and counterbored so the housing can be mounted from either side.

| Type      | Part Number | Seal                                 | d  | DH7 | Tolerance   | B  | H  | W  | T  | T1 | dh | D1g7             | Tolerance        | P.C.D. | K  | A  | F  | M (Coarse) (d2) | d1  | H1  |             |              |    |     |
|-----------|-------------|--------------------------------------|----|-----|-------------|----|----|----|----|----|----|------------------|------------------|--------|----|----|----|-----------------|-----|-----|-------------|--------------|----|-----|
|           |             |                                      |    |     |             |    |    |    |    |    |    |                  |                  |        |    |    |    |                 |     |     | Bearing No. |              |    |     |
| (Round)   | BGREB       | ZZ<br>Double Shielded                | 6  | 17  | +0.018<br>0 | 6  | 39 | 23 | 17 | 9  | 13 | 21               | -0.007<br>-0.028 | 29     | 32 | 29 | -  | M5<br>(4.3)     | 8   | 4.4 |             |              |    |     |
|           | 608         |                                      | 8  | 22  | 7           | 45 | 29 | 19 | 12 | 18 | 27 | 35               |                  | 36     | 35 |    |    |                 |     |     |             |              |    |     |
|           | 6900        |                                      | 10 | 22  | 6           | 45 | 29 | 17 | 11 | 19 | 27 | 35               |                  | 36     | 35 |    |    |                 |     |     |             |              |    |     |
|           | 6000        |                                      | 10 | 26  | 8           | 50 | 34 | 21 | 13 | 22 | 32 | -0.034<br>-0.034 |                  | 40     | 39 | 40 |    |                 |     |     |             |              |    |     |
|           | 6901        |                                      | 12 | 24  | 6           | 48 | 31 | 17 | 11 | 21 | 30 | -0.028<br>-0.028 |                  | 38     | 38 | 38 |    |                 |     |     |             |              |    |     |
|           | 6001        |                                      | 12 | 28  | 8           | 52 | 36 | 21 | 13 | 24 | 34 | 42               |                  | 40     | 42 |    |    |                 |     |     |             |              |    |     |
| (Square)  | BGSEB       | VV<br>Non-Contact Sealed Rubber Seal | 15 | 28  | +0.021<br>0 | 8  | 57 | 37 | 19 | 12 | 25 | 35               | -0.009<br>-0.034 | 45     | 45 | 45 | -  | M6<br>(5.2)     | 9.5 | 5.4 |             |              |    |     |
|           | 6902        |                                      | 15 | 32  |             | 9  | 60 | 40 | 23 | 14 | 28 | 38               |                  | 48     | 46 | 48 |    |                 |     |     |             |              |    |     |
|           | 6002        |                                      | 17 | 30  |             | 7  | 60 | 38 | 19 | 12 | 27 | 36               |                  | 48     | 46 | 48 |    |                 |     |     |             |              |    |     |
|           | 6903        |                                      | 17 | 35  |             | 10 | 66 | 44 | 26 | 16 | 31 | 42               |                  | 54     | 50 | 54 |    |                 |     |     |             |              |    |     |
|           | 6003        |                                      | 20 | 37  |             | 9  | 69 | 47 | 24 | 15 | 34 | 45               |                  | 56     | 54 | 51 |    |                 |     |     | 24          | M8<br>(6.8)  | 11 | 6.5 |
|           | 6904        |                                      | 20 | 42  |             | 12 | 77 | 54 | 30 | 18 | 36 | 50               |                  | 64     | 59 | 56 |    |                 |     |     | 32          | M10<br>(8.5) | 14 | 8.6 |
| (Compact) | BGCEB       | DD<br>Contact Sealed Rubber Seal     | 25 | 47  | +0.030<br>0 | 12 | 88 | 58 | 30 | 18 | 41 | 54               | -0.010<br>-0.040 | 72     | 67 | 63 | 36 | M10<br>(8.5)    | 14  | 8.6 |             |              |    |     |
|           | 6004        |                                      | 30 | 55  |             | 13 | 96 | 66 | 33 | 20 | 48 | 80               |                  | 73     | 70 | 40 |    |                 |     |     |             |              |    |     |
|           | 6005        |                                      | 30 | 55  |             | 13 | 96 | 66 | 33 | 20 | 48 | 80               |                  | 73     | 70 | 40 |    |                 |     |     |             |              |    |     |

⚠ Check for available sizes in the price list.

⚠ \*1 No. 606 is not available for VV (Non-contact Sealed).

⚠ \*2 Bearings with Rubber Seals are all made of steel.

Ordering Example: Part Number BGRE 6000 ZZ, BGSE 6003 VV

Alterations: Part Number - (NA) BGRE6000VV - NA

|            |  |
|------------|--|
| Alteration | Bearings, Retaining Rings Not Assembled                              |
| Code       | NA   |
| Spec.      | Bearings and retaining rings are shipped unassembled to the housing. |

| Bearing No. | Seal         | Unit Price   |      |       |        |      |       |         |      |       |
|-------------|--------------|--------------|------|-------|--------|------|-------|---------|------|-------|
|             |              | Round        |      |       | Square |      |       | Compact |      |       |
|             |              | BGREB        | BGRE | SBGRE | BGSEB  | BGSE | SBGSE | BGCEB   | BGCE | SBGCE |
| 606         | ZZ<br>(x1.0) |              |      |       |        |      |       |         |      |       |
| 608         |              |              |      |       |        |      |       |         |      |       |
| 6900        |              |              |      |       |        |      |       |         |      |       |
| 6000        |              |              |      |       |        |      |       |         |      |       |
| 6901        |              |              |      |       |        |      |       |         |      |       |
| 6001        |              |              |      |       |        |      |       |         |      |       |
| 6902        |              | VV<br>(x1.1) |      |       |        |      |       |         |      |       |
| 6002        |              |              |      |       |        |      |       |         |      |       |
| 6903        |              |              |      |       |        |      |       |         |      |       |
| 6003        |              | DD<br>(x1.1) |      |       |        |      |       |         |      |       |
| 6904        |              |              |      |       |        |      |       |         |      |       |
| 6004        |              |              |      |       |        |      |       |         |      |       |
| 6005        |              |              |      |       |        |      |       |         |      |       |
| 6006        |              |              |      |       |        |      |       |         |      |       |

⚠ The price of sealed VV and DD are the price shown in the table multiplied by 1.1.