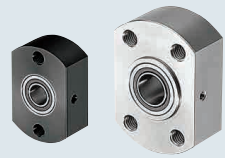


Bearings with Housings

Thrust Bearings

Bearings with Housings – Thrust Bearings

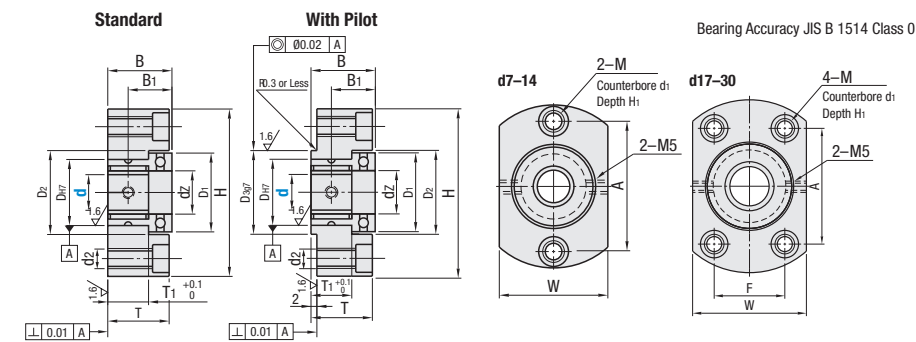


RoHS 10

- Ⓢ Mounting holes are tapped and counterbored so the housing can be mounted from either side.
- Ⓢ Bearings are secured to housings with screws. Remove set screws before replenishing lubricant.

| Type | | Material | Surface Treatment | Accessory Set Screw |
|----------|-------|-----------------------------------|----------------------------|--|
| Standard | Pilot | | | |
| BGCSB | BGCTB | 1045 Carbon Steel or Equivalent | Black Oxide | 4137 Alloy Steel or Equivalent 2 Pcs. |
| BGCS | BGCT | 1045 Carbon Steel or Equivalent | Electroless Nickel Plating | 304 Stainless Steel or Equivalent 2 Pcs. |
| SBGCS | — | 304 Stainless Steel or Equivalent | — | — |

6.3/(1.6/)

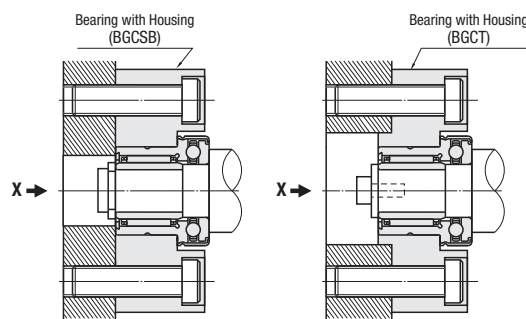


| Part Number | Type | d | D _{h7} | Tolerance | B | H | W | T | dz | D ₁ | D ₂ | D _{3g7} | Tolerance | T ₁ | B ₁ | A | F | M (d ₂) | d ₁ | H ₁ | Bearing Used (P.1044) | | | | | | |
|------------------------------------|------------------------|----|-----------------|-------------|----|----|----|----|----|----------------|----------------|------------------|------------------|----------------|----------------|----|----|---------------------|----------------|----------------|-----------------------|------------------|-------|--------|----|----|--------|
| | | | | | | | | | | | | | | | | | | | | | | Standard | Pilot | | | | |
| Standard BGCSB BGCS SBGCS | Pilot BGCTB BGCT | 7 | 19 | +0.021 0 | 23 | 54 | 38 | 22 | 10 | 25 | 27 | 24 | -0.007 -0.028 | 14 | 15.5 | 43 | — | M8 (6.8) | 11 | 6.5 | — | NKXZ 7 | | | | | |
| | | 9 | 21 | | | 56 | 40 | | 12 | 27 | 29 | 26 | | | | | | | | | | NKXZ 9 | | | | | |
| | | 12 | 24 | | | 60 | 15 | | 29 | 31 | 30 | NKXZ12 | | | | | | | | | | | | | | | |
| | | 14 | 26 | | | 25 | 66 | | 44 | 24 | 17 | 31 | | | | | | | | | | 33 | 34 | NKXZ14 | | | |
| Standard BGCSB | Pilot BGCTB BGCT | 17 | 30 | +0.025 0 | 30 | 77 | 54 | 29 | 20 | 36 | 38 | 36 | -0.009 -0.034 | 20 | 20.5 | 59 | 36 | M10 (8.5) | 14 | 8.6 | — | NKXZ17 | | | | | |
| | | 20 | 37 | | | 88 | 58 | | 25 | 43 | 45 | 45 | | | | | | | | | | NKXZ20 | | | | | |
| | | 25 | 42 | | | 94 | 64 | | 30 | 48 | 50 | 50 | | | | | | | | | | NKXZ25 | | | | | |
| | | 30 | 47 | | | 96 | 66 | | 35 | 53 | 55 | 54 | | | | | | | | | | -0.010 -0.040 | 18 | 21 | 66 | 40 | NKXZ30 |

| d | Available Types | | | | |
|----|-----------------|------|-------|-------|------|
| | Standard | | | Pilot | |
| | BGCSB | BGCS | SBGCS | BGCTB | BGCT |
| 7 | • | • | • | • | • |
| 9 | • | • | • | • | • |
| 12 | • | • | • | • | • |
| 14 | • | • | • | • | • |
| 17 | • | • | — | • | • |
| 20 | • | • | — | • | • |
| 25 | • | • | — | • | • |
| 30 | • | • | — | • | • |



Application Example



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

Part Number Example
Part Number
BGCSB20

Bearings with Housings

Short Double Bearings, Retained

Bearings with Housings – Short Double Bearings, Retained

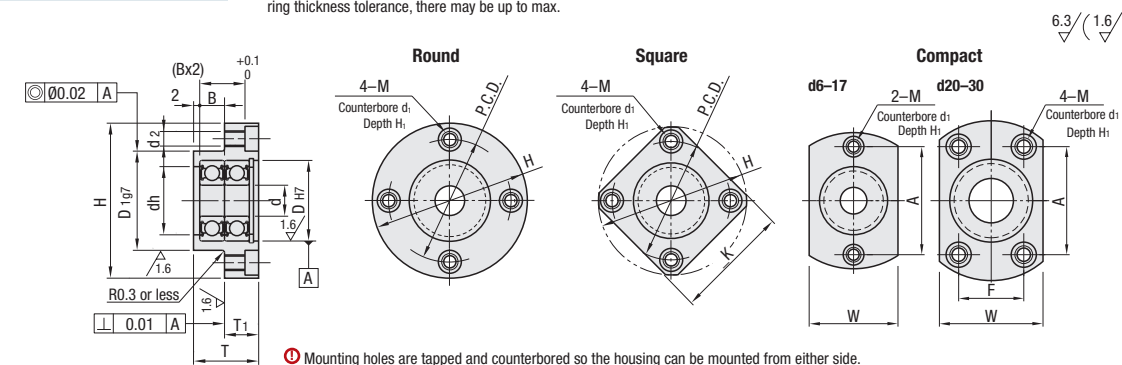


RoHS 10

| Type | | | Bearings | Material | Surface Treatment | |
|-------|--------|---------|-----------------|-----------------------------------|----------------------------|--|
| Round | Square | Compact | | | Housing | |
| BGREB | BGSEB | BGCEB | Steel | 1045 Carbon Steel or Equivalent | Black Oxide | |
| BGRE | BGSE | BGCE | | | Electroless Nickel Plating | |
| SBGRE | SBGSE | SBGCE | Stainless Steel | 304 Stainless Steel or Equivalent | — | |

- Ⓢ Easier to obtain required radial load ratings when space is limited.
- Ⓢ * Bearings with Rubber Seals (VV and DD) are all made of steel.
- Ⓢ The "(Bx2)" dimension for "Short Double Bearings, Retained" Type indicates the position where the retaining ring groove begins. Please note that considering the groove width tolerance and the retaining ring thickness tolerance, there may be up to max.

Bearing Accuracy JIS B 1514 Class 0



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

| Part Number | Type | Bearing No. | Seal | d | D _{h7} | Tolerance | B | H | W | T | T ₁ | dh | D _{1g7} | Tolerance | P.C.D. | K | A | F | M (Coarse d ₂) | d ₁ | H ₁ |
|-----------------------------------|------------------------------------|-------------|------|----|-----------------|-------------|----|----|----|----|----------------|----|------------------|------------------|--------|----|----|----|----------------------------|----------------|----------------|
| | | | | | | | | | | | | | | | | | | | | | |
| Round BGREB BGRE SBGRE | ZZ Double (Shielded) | 606 | ZZ | 6 | 17 | +0.018 0 | 6 | 39 | 23 | 17 | 9 | 13 | 21 | -0.007 -0.028 | 29 | 32 | 29 | — | M5 (4.3) | 8 | 4.4 |
| | | 608 | | 8 | 22 | 7 | 45 | 29 | 19 | 12 | 18 | 27 | 35 | | 36 | 35 | | | | | |
| | | 6900 | | 10 | 26 | 6 | 45 | 29 | 17 | 11 | 19 | 27 | 35 | | 36 | 35 | | | | | |
| | | 6000 | | 10 | 26 | 8 | 50 | 34 | 21 | 13 | 22 | 32 | 40 | | 39 | 40 | | | | | |
| | | 6901 | | 12 | 24 | 6 | 48 | 31 | 17 | 11 | 21 | 30 | 38 | | 38 | 38 | | | | | |
| | | 6001 | | 12 | 28 | 8 | 52 | 36 | 21 | 13 | 24 | 34 | 42 | | 40 | 42 | | | | | |
| Square BGSEB BGSE SBGSE | *VV Non-contact (Rubber Sealed) | 6902 | *VV | 15 | 28 | +0.025 0 | 7 | 57 | 37 | 19 | 12 | 25 | 35 | -0.009 -0.034 | 42 | 40 | 42 | — | M6 (5.2) | 9.5 | 5.4 |
| | | 6002 | | 15 | 32 | | 9 | 60 | 40 | 23 | 14 | 28 | 38 | | 45 | 45 | 45 | | | | |
| | | 6903 | | 17 | 30 | | 7 | 60 | 38 | 19 | 12 | 27 | 36 | | 48 | 46 | 48 | | | | |
| | | 6003 | | 17 | 35 | | 10 | 66 | 44 | 26 | 16 | 31 | 42 | | 54 | 50 | 54 | | | | |
| Compact BGCEB BGCE SBGCE | DD Contact (Rubber Sealed) | 6904 | DD | 20 | 37 | +0.025 0 | 9 | 69 | 47 | 24 | 15 | 34 | 45 | -0.009 -0.034 | 56 | 54 | 51 | 24 | M8 (6.8) | 11 | 6.5 |
| | | 6004 | | 20 | 42 | | 12 | 77 | 54 | 30 | 18 | 36 | 50 | | 64 | 59 | 56 | 32 | | | |
| | | 6005 | | 25 | 47 | | 12 | 88 | 58 | 30 | 18 | 41 | 54 | | 72 | 67 | 63 | 36 | | | |
| | | 6006 | | 30 | 55 | | 13 | 96 | 66 | 33 | 20 | 48 | 62 | | 80 | 73 | 70 | 40 | | | |
| | | 6006 | | 30 | 55 | | 13 | 96 | 66 | 33 | 20 | 48 | 62 | | 80 | 73 | 70 | 40 | | | |
| | | 6006 | | 30 | 55 | | 13 | 96 | 66 | 33 | 20 | 48 | 62 | | 80 | 73 | 70 | 40 | | | |

Ⓢ * No. 606 is not available for VV (Non-contact rubber sealed)

| Bearing No. | Seal | Available Types | | | | | | | | | | |
|-------------|------|-----------------|------|-------|--------|------|-------|---------|------|-------|---|---|
| | | Round | | | Square | | | Compact | | | | |
| | | BGREB | BGRE | SBGRE | BGSEB | BGSE | SBGSE | BGCEB | BGCE | SBGCE | | |
| 606 | ZZ | • | • | • | • | • | • | • | • | • | | |
| 608 | | • | • | • | • | • | • | • | • | • | | |
| 6900 | | • | • | • | • | • | • | • | • | • | | |
| 6000 | | • | • | • | • | • | • | • | • | • | | |
| 6901 | | • | • | • | • | • | • | • | • | • | | |
| 6001 | | • | • | • | • | • | • | • | • | • | | |
| 6902 | | VV | • | • | • | • | • | • | • | • | • | |
| 6002 | | | • | • | • | • | • | • | • | • | • | |
| 6903 | | | DD | • | • | • | • | • | • | • | • | • |
| 6003 | | | | • | • | • | • | • | • | • | • | • |
| 6904 | | • | | • | • | • | • | • | • | • | • | |
| 6004 | | • | | • | • | • | • | • | • | • | • | |
| 6005 | | • | | • | • | • | • | • | • | • | • | |
| 6006 | | • | | • | • | • | • | • | • | • | • | |

Part Number Example
Part Number
Type Bearings Seal
BGRE 6000 ZZ
BGSE 6003 VV

Part Number Alterations
Part Number - (NA)
BGRE6000VV - NA

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