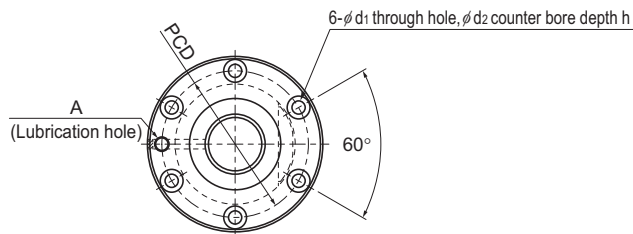


SBN-V Small  
With Preload

|          |         |
|----------|---------|
| DN value | 130,000 |
|----------|---------|



| Model No.   | Screw shaft outer diameter<br><br>d | Lead<br><br>Ph | Ball center-to-center diameter<br><br>dp | Thread minor diameter<br><br>dc | No. of loaded circuits<br><br>Rows × turns | Basic load rating |               | Rigidity<br><br>K<br><br>N/μm |
|-------------|-------------------------------------|----------------|------------------------------------------|---------------------------------|--------------------------------------------|-------------------|---------------|-------------------------------|
|             |                                     |                |                                          |                                 |                                            | Ca<br><br>kN      | C0a<br><br>kN |                               |
| SBN 1604V-5 | 16                                  | 4              | 16.5                                     | 13.8                            | 1×2.5                                      | 5.3               | 8             | 281                           |
| SBN 1605V-5 | 16                                  | 5              | 16.75                                    | 13.2                            | 1×2.5                                      | 9.2               | 12.9          | 309                           |
| SBN 2004V-5 | 20                                  | 4              | 20.5                                     | 17.8                            | 1×2.5                                      | 5.9               | 10.1          | 335                           |
| SBN 2005V-5 | 20                                  | 5              | 20.75                                    | 17.2                            | 1×2.5                                      | 10.3              | 16.2          | 370                           |
| SBN 2010V-5 | 20                                  | 10             | 20.75                                    | 17.2                            | 1×2.5                                      | 10.2              | 16.4          | 362                           |
| SBN 2504V-5 | 25                                  | 4              | 25.5                                     | 22.8                            | 1×2.5                                      | 6.4               | 12.7          | 400                           |
| SBN 2505V-5 | 25                                  | 5              | 25.75                                    | 22.2                            | 1×2.5                                      | 11.3              | 20.3          | 442                           |
| SBN 2506V-5 | 25                                  | 6              | 26                                       | 21.4                            | 1×2.5                                      | 15.4              | 25.4          | 457                           |
| SBN 2805V-5 | 28                                  | 5              | 28.75                                    | 25.2                            | 1×2.5                                      | 11.8              | 22.8          | 483                           |
| SBN 3205V-5 | 32                                  | 5              | 32.75                                    | 29.2                            | 1×2.5                                      | 12.6              | 26.1          | 536                           |
| SBN 3206V-5 | 32                                  | 6              | 33                                       | 28.4                            | 1×2.5                                      | 17.2              | 32.7          | 555                           |

Model number coding

SBN1604V-5

Model No.

With QZ lubricator  
(No code without QZ lubricator)

QZ

Contamination protection accessory symbol<sup>1</sup>

RR

G0

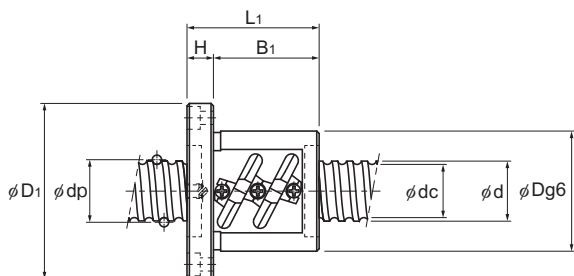
Symbol for Clearance in the axial direction  
(G0 for all SBN-V variations)

+1200L

Overall screw shaft length (in mm)

C5

Accuracy symbol<sup>2</sup>



Unit: mm

|  | Nut dimensions    |                    |                   |    |                |     |                                   |                     | Screw shaft<br>inertial<br>moment/mm | Nut<br>mass | Shaft<br>mass | Permissible<br>rotational<br>speed |
|--|-------------------|--------------------|-------------------|----|----------------|-----|-----------------------------------|---------------------|--------------------------------------|-------------|---------------|------------------------------------|
|  | Outer<br>diameter | Flange<br>diameter | Overall<br>length |    |                |     |                                   | Lubrication<br>hole |                                      |             |               |                                    |
|  | Dg6               | D <sub>1</sub>     | L <sub>1</sub>    | H  | B <sub>1</sub> | PCD | d <sub>1</sub> ×d <sub>2</sub> ×h | A                   |                                      |             |               |                                    |
|  | 36                | 59                 | 53                | 11 | 42             | 47  | 5.5×9.5×5.5                       | M6                  | $5.05 \times 10^{-8}$                | 0.42        | 1.42          | 5,000                              |
|  | 40                | 60                 | 56                | 10 | 46             | 50  | 4.5×8×4.5                         | M6                  | $5.05 \times 10^{-8}$                | 0.5         | 1.37          | 5,000                              |
|  | 40                | 63                 | 49                | 11 | 38             | 51  | 5.5×9.5×5.5                       | M6                  | $1.23 \times 10^{-7}$                | 0.43        | 2.22          | 5,000                              |
|  | 44                | 67                 | 56                | 11 | 45             | 55  | 5.5×9.5×5.5                       | M6                  | $1.23 \times 10^{-7}$                | 0.61        | 2.6           | 5,000                              |
|  | 46                | 74                 | 90                | 15 | 75             | 59  | 5.5×9.5×5.5                       | M6                  | $1.23 \times 10^{-7}$                | 1.06        | 2.33          | 5,000                              |
|  | 46                | 69                 | 48                | 11 | 37             | 57  | 5.5×9.5×5.5                       | M6                  | $3.01 \times 10^{-7}$                | 0.55        | 3.6           | 5,000                              |
|  | 50                | 73                 | 55                | 11 | 44             | 61  | 5.5×9.5×5.5                       | M6                  | $3.01 \times 10^{-7}$                | 0.72        | 3.52          | 5,000                              |
|  | 53                | 76                 | 62                | 11 | 51             | 64  | 5.5×9.5×5.5                       | M6                  | $3.01 \times 10^{-7}$                | 0.9         | 3.43          | 5,000                              |
|  | 55                | 85                 | 59                | 12 | 47             | 69  | 6.6×11×6.5                        | M6                  | $4.74 \times 10^{-7}$                | 0.98        | 4.45          | 4,520                              |
|  | 58                | 85                 | 56                | 12 | 44             | 71  | 6.6×11×6.5                        | M6                  | $8.08 \times 10^{-7}$                | 0.96        | 5.88          | 3,960                              |
|  | 62                | 89                 | 63                | 12 | 51             | 75  | 6.6×11×6.5                        | M6                  | $8.08 \times 10^{-7}$                | 1.22        | 5.89          | 3,930                              |

Axial Clearance

Unit: mm

|                  |           |
|------------------|-----------|
| Clearance symbol | G0        |
| Axial Clearance  | 0 or less |