

Linear Bushings - Standard

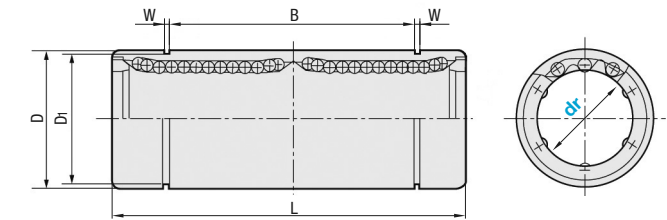
- C-VALUE Double -

■ Features: The most common specification of Linear Bushing.

Ordering Example **Part Number**
C-LMUW6



| Type | Outer Cylinder | | | Ball | Retainer | Ambient Operating Temp. | Accessory |
|--------|------------------|----------|-------------------|------------------|----------|-------------------------|------------------------------------|
| | Material | Hardness | Surface Treatment | | | | |
| C-LMUW | EN 1.3505 Equiv. | 58HRC~ | - | EN 1.3505 Equiv. | Plastic | -20~80°C | Seal Material Nitrile Rubber |



| Type | Part Number | | D | L | B | W | D1 | Eccentricity (Max.) | Rows of Balls | Mass (g) | |
|--------|-------------|------------------|------------------|------------------|--------------|------|-------|---------------------|---------------|----------|-----------|
| | dr | Tolerance | | | | | | | | | Tolerance |
| C-LMUW | 4 | +0.003 -0.013 | 8 | +0.006 -0.013 | 23 | - | - | 0.020 | 0.020 | 2 | |
| | 5 | | 10 | - | 18.2 | - | 9.6 | | | 4 | |
| | 6 | | 12 | +0.006 -0.015 | 24.8 | 0 | 1.1 | | | 11.5 | 8.5 |
| | 8 | | 15 | - | 32.8 | | 14.3 | | | 17 | |
| | 10 | | 19 | +0.006 -0.018 | 41.4 | | 18 | | | 31 | |
| | 12 | 21 | 57 | | 20 | | 41 | | | | |
| | 13 | 23 | 61 | | 22 | | 46 | | | | |
| | 16 | 28 | 70 | 49.8 | 1.6 | 27 | 73 | | | | |
| | 20 | 32 | 80 | 57.8 | 1.85 | 30.5 | 5 | 98 | | | |
| | 25 | 40 | +0.006 -0.021 | 112 | 78.3 | 38 | 0.040 | 236 | | | |
| | 30 | 45 | 123 | 85.3 | 1.85 | 43 | 43 | 262 | | | |
| | 35 | 52 | +0.006 -0.024 | 135 | +0.3 -0.7 | 0 | 49 | 0.050 | 6 | 425 | |
| | 40 | 60 | | 151 | 116.8 | 2.1 | 57 | | | 654 | |
| | 50 | 80 | | 192 | 142.8 | 2.6 | 76.5 | | | 1700 | |

⚠ No seal for dr=3 and 4. No-Seal Type has lower sliding resistance (0.4 ~ 1.2N) and moves smoothly. To prevent intrusion of dust on sliding contact surface, dust resistance measures should be taken separately.
 ⚠ Spacers and Holding Plates for linear bushings can be selected from P.238.
 ⚠ For Precautions for Use, refer to P. 221.

Basic Load Rating

| dr | Basic Load Rating | | Allowable Static Moment (N·m) |
|----|-------------------|---------------|-------------------------------|
| | C (Dynamic) N | Co (Static) N | |
| 4 | 431 | 784 | 4.31 |
| 5 | 588 | 1100 | 7.24 |
| 6 | 657 | 1200 | 10.9 |
| 8 | 813 | 1570 | 11.6 |
| 10 | 1230 | 2350 | 19.7 |
| 12 | 1400 | 2740 | 26.8 |
| 13 | 1560 | 3140 | 43.4 |
| 16 | 2490 | 5490 | 82.8 |
| 20 | 2650 | 6270 | 110 |
| 25 | 3430 | 8040 | 147 |
| 30 | 6080 | 15900 | 397 |

kgf=Nx0.101972

Recommended Tolerance of Shaft Dia. and Housing Dia.

| dr | Recommended Tolerance | |
|----|-------------------------|------------------------|
| | Shaft Dia. g6 Tolerance | Housing Dia. Tolerance |
| 4 | -0.004 | 8 +0.021 |
| 5 | -0.012 | 10 +0.006 |
| 6 | -0.005 | 12 +0.024 |
| 8 | -0.005 | 15 +0.006 |
| 10 | -0.014 | 19 |
| 12 | -0.006 | 21 +0.027 |
| 13 | -0.017 | 23 +0.006 |
| 16 | -0.007 | 28 |
| 20 | -0.007 | 32 +0.031 |
| 25 | -0.020 | 40 +0.006 |
| 30 | -0.009 | 45 |
| 35 | -0.009 | 52 +0.036 |
| 40 | -0.025 | 60 +0.006 |
| 50 | -0.025 | 80 |

*The above tolerance is recommended for fitting with shaft and assembly of housing.
 *When using the linear bushings in transfer as a simplified guide, combination with hardened g6 shaft is recommended.
 *Combination of C-VALUE linear bushings and C-VALUE shafts is recommended, when used in transfer or other purposes, which do not place importance on a gap between a linear bushing and linear shaft or sliding properties.

<C-VALUE Components> Example App. example of conveyor transfer using air cylinder

