C-WALUE Linear Guides for Medium Load

Normal Clearance

Select C-VALUE Products for medium-accuracy positioning, medium/low load, and medium-to-low frequency drive application.

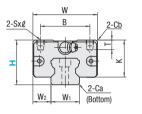
When you comsider using C-VALUE Products, select an appropriate model after comparing the specifications with those of the existing products. ET P589, P593

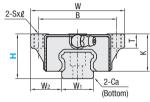


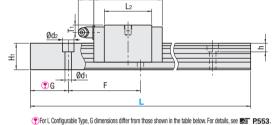
| | Ту | pe | | | | | |
|----------------------|------------------------|----------|----------------|------------------------------|--|--|--|
| | 1 block | 2 blocks | L Dimension | MMaterial ⊞Hardness | | | |
| | Standard Grade Standar | | Billionolon | <u> </u> | | | |
| Standard Block | C-SVR | C-SV2R | Selectable | | | | |
| Stan | C-SVRL | C-SV2RL | Configurable | Rails / Blocks: Carbon Steel | | | |
| 99 7 | C-SVWT | C-SV2WT | Selectable | 58HRC~62HRC | | | |
| yde lock apped | C-SVWTL | C-SV2WTL | Configurable | | | | |

C-SVRL24-160 (Selectable): X ··· Place order for C-SVR24-160

Blocks and rails are not sold as separate items. Normal Clearance Type has guaranteed radial clearances and accuracies as sets of blocks and rails.







Precautions for Use
This product is All Ball Type. Blocks are equipped with retainers to prevent balls from derailing. For how to handle the blocks, see FP547.
Radial clearances and accuracies are not juaranteed if the blocks and rails are interchanged from the original set combinations.
Thick grows are provided on the datum planes of blocks and rails. Be sure to match the datum planes when using.
Rails cannot be connected end to end.

Running parallelism is the value measured after the rail is mounted. (it is not the value measured before the rails are fastened with screws. The accuracy of Linear Guides is guaranteed after mounting the rail father fastening screws on the rail and pushing it onto the datum plane).

Minor bending of the rail will be adjusted after mounting the rail father fastening screws on the rail and pushing it onto the datum plane).

■ Others
- Filled with Lithium soap based grease (Alvania Grease S2 by Showa Shell Sekiyu K.K).
- Grease Fittings: Straight Type for H24 and Angled Type for H28 and H33.

Grease Fitting is screw-in type, and thus, can be repositioned.

For installation and maintenance of Linear Guides, see ► P.551.

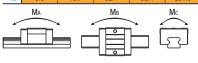
| | | | | | | | | Blo | ck Di | men | sion | | | | | | auide | Rail | Dimension | n | |
|----------|-------------------------------------|----|-------------------|----|----------------|----|------|------|-------|------|------|------------------|---------|----------------|----------------|----------------|-------------|------|----------------------|----|----|
| н | Туре | н | L | w | | В | C 0 | | к | т | 0. | Grease | e Fitti | ng | | VA/ - | 14/- | 0- | Counterbored Hole | F | G |
| | | | | VV | L ₁ | В | Sxℓ | L2 | , | • | Cb | Mounting Hole | E | T ₁ | H ₁ | W ₁ | W 2 | Ca | d1xd2xh | r | • |
| | | 24 | 100~1480 (160) | 34 | 39.3 | 26 | M4x5 | 22.9 | 20.8 | 6.2 | 0.5 | M4x0.7 | 6 | 5.5 | 13 | 15 | 9.5 | 0.5 | 4.5x7.5x6 | 60 | 20 |
| Standard | (1 block) (2 blocks) C-SVR C-SV2R | 28 | 100~1960 (160) | 42 | 47.8 | 32 | M5x5 | 27.8 | 23.4 | 7.2 | 0.5 | M6x1 | 12 | 4.5 | 16.5 | 20 | 11 | 0.5 | 6x9.5x8.5 | 60 | 20 |
| Block | C-SVRL C-SV2RL | 33 | 100~1960 (160) | 48 | 56.2 | 35 | M6x6 | 35.2 | 27.2 | 8.15 | 1 | M6x1 | 12 | 4.5 | 20 | 23 | 12.5 | 0.9 | 7x11x9 | 60 | 20 |
| | | 42 | 120~1960 (200) | 60 | 66.4 | 40 | M8x8 | 40.4 | 35 | 8.5 | 1.0 | M6x1 | 14 | 8 | 23 | 28 | 16 | 1 | 9x14x12 | 80 | 20 |
| Wide | (1 block) (2 blocks) C-SVWT C-SV2WT | 24 | 100~1480 (160) | 52 | 39.3 | 41 | M5x7 | 22.9 | 20.8 | 7 | - | M4x0.7 | 7 | 5.5 | 13 | 15 | 18.5 | 0.5 | 4.5x7.5x6 | 60 | 20 |
| Block | C-SVWTL C-SV2WTL | 28 | 100~1960 (160) | 59 | 47.8 | 49 | M6x9 | 27.8 | 23.4 | 9 | - | M6x1 | 14 | 4.5 | 16.5 | 20 | 19.5 | 0.5 | 6x9.5x8.5 | 60 | 20 |

😱 Both ends of the rail are evenly cut for L Dimension Configurable Type. G dim., see 壓 P.553.

kaf=N×0.10972

Allowable Load

| | | | | | | | | - | | | |
|----|---|------|------|------|-------|----------|-------|------------|--|--|--|
| | Basic Load Rating Allowable Static Moment | | | | | | Mass | | | | |
| н | C (Dynamic) | Co | MA | Мв | Mc | Bloc | k kg | Guide Rail | | | |
| | kN | kN | N∙m | N∙m | N∙m | Standard | Wide | kg/m | | | |
| 24 | 3.2 | 5.2 | 13.3 | 13.3 | 40.8 | 0.07 | 0.098 | 1.32 | | | |
| 28 | 4.7 | 7.1 | 18.6 | 18.6 | 75.2 | 0.11 | 0.15 | 2.28 | | | |
| 33 | 6.9 | 10.6 | 38.0 | 38.0 | 129.7 | 0.18 | 0.26 | 3.17 | | | |
| 42 | 0.2 | 12.7 | 52 A | 52.4 | 201.0 | 0.40 | | 4.54 | | | |



Preload and Accuracy Standards Normal Cle



| Normai | CIE | aı | ra | nce | туре |
|--------|-----|----|----|-----|------|
| | _ | | | | |

| | Radial Cle | arance (µm) |
|---------------|-------------|---------------|
| \rightarrow | H24 | -4~+4 |
| 7⊕Ì | H28 | -5~+5 |
| | H33 | -6~+6 |
| | H42 | -7~+7 |
| | Dimensional | Accuracy (um) |

| Dimensional Accuracy (µm) | | | | | |
|--|--------|--|--|--|--|
| Height H Tolerance | ±120 | | | | |
| Variation of Height H | 40 | | | | |
| Width W ₂ Tolerance | ±120 | | | | |
| Variation of Width W2 | 40 | | | | |
| Running Parallelism of Plane C against Plane A | See | | | | |
| Running Parallelism of Plane D against Plane B | P.547. | | | | |

Linear Guide
Linear Guide: General Information Site
MISUMI Linear Guides

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For large quantity order, use this Search engine. MISUMI Linear Guides (Lg. Qty.)





L Dimension Configurable Type (10mm Increment) Additional Price

| | Unit Price | | | | | | | | |
|----|------------|---------|---------|----------|--|--|--|--|--|
| н | 1 bl | ock | 2 bl | ocks | | | | | |
| | C-SVRL | C-SVWTL | C-SV2RL | C-SV2WTL | | | | | |
| 24 | | | | | | | | | |
| 28 | | | | | | | | | |
| 33 | | - | | - | | | | | |
| 42 | | - | | - | | | | | |

©L Dimension Configurable Type (10mm Increment)

Add the above amount to the unit price of the Selectable Type longer than, and closest to this L Dimension Configurable Type.











| Alterations | Code | Spec. |
|------------------------|------|---|
| 3-Block Specifications | В3 | Add 2 blocks to 1-block product to ship as 3-block separate item. Selection Example: C-SVR24-400-B3 |
| 4-Block Specifications | B4 | Add 3 blocks to 1-block product to ship as 4-block separate item. Selection Example: C-SVR24-400-B4 |

Additional Block Price

| н | B3: /1 | Code | B4: /1 | Code |
|----|--------|--------|--------|--------|
| П | C-SVR | C-SVWT | C-SVR | C-SVWT |
| 24 | | | | |
| 28 | | | | |
| 33 | | - | | - |
| 42 | | - | | - |
| | | | | |

| Position of Grease Fitting (Reference plane on the front side) |
|--|
| 1 block |
| 2 blocks |
| 3 blocks |
| 4 blocks |
| 4 DIOCKS |

| Sel | Selectable Shortest Rail Length for B3/B4 | | | | | | |
|-----|---|--------------|--|--|--|--|--|
| Н | B3 (3-block) | B4 (4-block) | | | | | |
| 24 | 340 | 400 | | | | | |
| 28 | 400 | 460 | | | | | |
| 33 | 400 | 520 | | | | | |
| 42 | 440 | 520 | | | | | |