

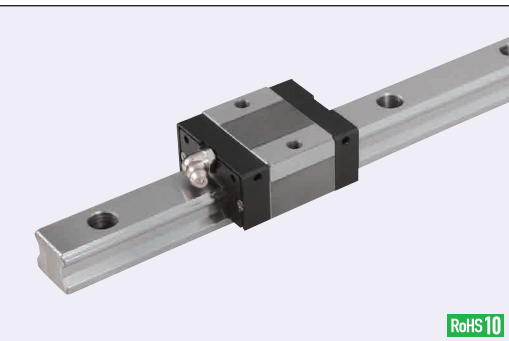
Linear Guides for Medium Load

Normal Clearance



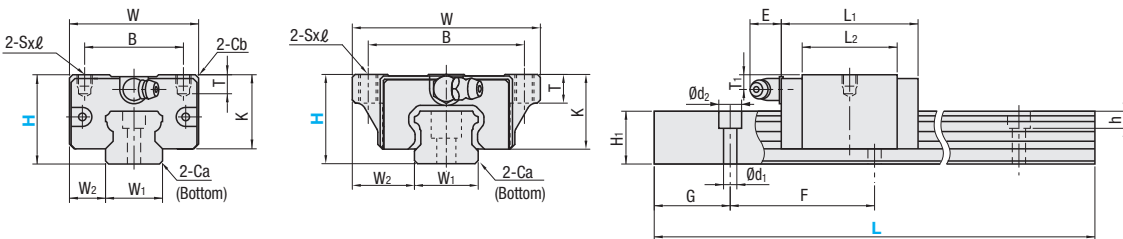
Similar Products Comparison Points

Select C-VALUE Products for medium-accuracy positioning, medium/low load, and medium-to-low frequency drive applications. When you consider using C-VALUE Products, select an appropriate model after comparing the specifications with those of the existing products. **P569, P573**



RoHS 10

The mounting dimensions are same for the existing and C-VALUE Products.



For L Configurable, G dimensions differ from those shown in the table below. For details, see **P. 531**.

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 **P. 525**.
- Radial clearances and accuracies are not guaranteed if the blocks and rails are interchanged from the original set combinations.
- Thick grooves 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 (after fastening screws on the rail and pushing it onto the datum plane).
- Minor bending of the rail will be adjusted after being mounted and will not affect the performance.

Others

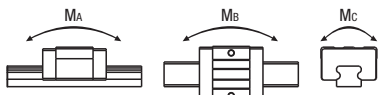
- Filled with Lithium soap based grease (Alvania Grease S2 by Showa Shell Sekiyu K.K.).
- Grease Fittings: Straight Type for H24 and H33.
- Grease Fitting is screw-in type, and thus, can be repositioned.
- For installation and maintenance of Linear Guides, see **P. 529**.

H	Type	H	L	Block Dimension										Guide Rail Dimension							
				W	L ₁	B	Sxℓ	L ₂	K	T	Cb	Grease Fitting			H ₁	W ₁	W ₂	Ca	Counterbored Hole	F	G
Standard Block	(1 block) C-SVR (2 blocks) C-SV2R C-SVRL C-SV2RL	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
		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
		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 Block	(1 block) C-SVWT (2 blocks) C-SV2WT C-SVWTL C-SV2WTL	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
		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

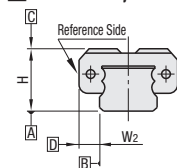
Allowable Load

kgf=N×0.10972

H	Basic Load Rating		Allowable Static Moment			Mass		
	C (Dynamic) kN	Co kN	MA N·m	MB N·m	MC N·m	Block kg	Guide Rail 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



Preload and Accuracy Standards



Interchangeable, Light Preload Type

Radial Clearance (μm)	
H24	-4~+4
H28	-5~+5
H33	-6~+6
Dimensional Accuracy (μm)	
Height H Tolerance	±120
Variation of Height H	40
Width W ₂ Tolerance	±120
Variation of Width W ₂	40
Running Parallelism of Plane C against Plane A	See
Running Parallelism of Plane D against Plane B	P. 525

Similar Product Page **P569**



Part Number	-	L
C-SVR28	-	880
C-SVWT28	-	880



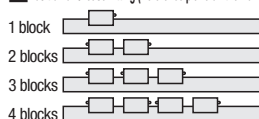
Part Number	-	L	-	(B3)
C-SVR28	-	640	-	B3

Alterations	Code	Spec.
3-Block Specifications	B3	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

H	B3: Price Adder		B4: Price Adder	
	C-SVR	C-SVWT	C-SVR	C-SVWT
24				
28				
33		-		-

Position of Grease Fitting (Reference plane on the front side)



Selectable Shortest Rail Length for B3/B4

H	B3 (3-block)	B4 (4-block)
24	340	400
28	400	460
33	400	520
42	440	520

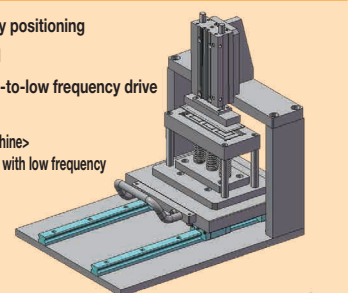


Example

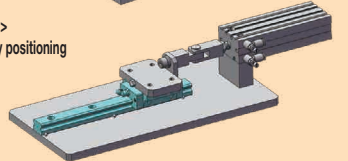
C-VALUE Products - App. Example

- Medium-accuracy positioning
- Medium/low load
- Used for medium-to-low frequency drive

<Manual Press Fitting Machine>
Used for manual operation with low frequency



<Air Cylinder Drive Section>
Used for medium-accuracy positioning



For calculation of L Dimension Configurable Type (10mm Increment), add the amount shown on the left to the unit price of the Selectable Type longer than, and closest to this L Dimension Configurable Type.

H	L	Unit Price			
		1 block		2 blocks	
24	100	C-SVR	C-SVWT	C-SV2R	C-SV2WT
	160				
	220				
	280				
	340				
	400				
	460				
	520				
	580				
	640				
	700				
	760				
	820				
	880				
	940				
	1000				
	1060				
	1120				
	1180				
	1240				
	1300				
	1360				
	1420				
	1480				
28	100			-	-
	160				
	220				
	280				
	340				
	400				
	460				
	520				
	580				
	640				
	700				
	760				
	820				
	880				
	940				
	1000				
	1060				
	1120				
	1180				
	1240				
	1300				
	1360				
	1420				
	1480				
33	100				
	160	-	-	-	-
	220	-	-	-	-
	280	-	-	-	-
	340	-	-	-	-
	400	-	-	-	-
	460	-	-	-	-
	520	-	-	-	-
	580	-	-	-	-
	640	-	-	-	-
	700	-	-	-	-
	760	-	-	-	-
	820	-	-	-	-
	880	-	-	-	-
	940	-	-	-	-
	1000	-	-	-	-
	1060	-	-	-	-
	1120	-	-	-	-
	1180	-	-	-	-
	1240	-	-	-	-
	1300	-	-	-	-
	1360	-	-	-	-
	1420	-	-	-	-
	1480	-	-	-	-
42	100				
	160	-	-	-	-
	220	-	-	-	-
	280	-	-	-	-
	340	-	-	-	-
	400	-	-	-	-
	460	-	-	-	-
	520	-	-	-	-
	580	-	-	-	-
	640	-	-	-	-
	700	-	-	-	-
	760	-	-	-	-
	820	-	-	-	-
	880	-	-	-	-
	940	-	-	-	-
	1000	-	-	-	-
	1060	-	-	-	-
	1120	-	-	-	-
	1180	-	-	-	-
	1240	-	-	-	-
	1300	-	-	-	-
	1360	-	-	-	-
	1420	-	-	-	-
	1480	-	-	-	-
	1540	-	-	-	-
	1600	-	-	-	-
	1660	-	-	-	-
	1720	-	-	-	-
	1780	-	-	-	-
	1840	-	-	-	-
	1900	-	-	-	-
	1960	-	-	-	-

L Dimension Configurable Type (10mm Increment)

H	Unit Price			
	1 block		2 blocks	
	C-SVRL	C-SVWTL	C-SV2RL	C-SV2WTL
24				
28				
33		-		-