

V Guide

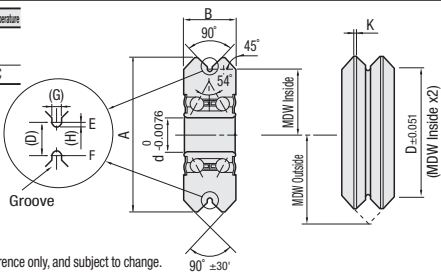
90° Type Units / Wheels

90° Type Wheel



Type	Material	Hardness	Seal	Heat Resistance Temperature
BVGH	EN 1.3505 Equiv.	60-62HRC	Metal Shield	0-100°C
BVGHS	EN 1.4125 Equiv.	58-60HRC	Nitrile Rubber	0-100°C
BVGHT	EN 1.4125 Equiv.	58-60HRC	Metal Shield	-30-260°C

*For BVGHS No.2 / No.3, the materials are changed to Nitrile Rubber Metal Shield.



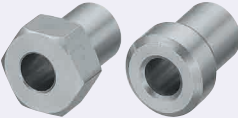
90° ±30°

* G and H dimensions are for reference only, and subject to change.

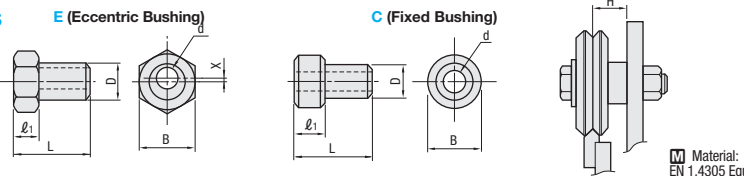
Part Number		A		B	d	D		MDW		(G)*	(H)*	K	Radial Load (LRmax.) (N)	Thrust Load (LSmax.) (N)	Unit Price
Type	No.					Between E and F		Inside	Outside						
BVGH	1	19.557	7.874	4.762	15.848	7.924	11.861	1.0	0.5				1220	252	
	2	30.733	11.099	9.525	25.399	12.700	18.236	1.4	0.7				2650	625	
	3	45.718	15.874	11.999	38.099	19.049	26.974	2.0	1.0				5900	1701	
BVGHS	1	19.557	7.874	4.762	15.848	7.924	11.861	1.0	0.5				1220	252	
	2	30.733	11.099	9.525	25.399	12.700	18.236	1.4	0.7				2650	625	
	3	45.718	15.874	11.999	38.099	19.049	26.974	2.0	1.0				5900	1701	
BVGHT	1	19.557	7.874	4.762	15.848	7.924	11.861	0.508	0.254				1013	209	
	2	30.733	11.099	9.525	25.399	12.700	18.236	0.762	0.381				2200	519	
	3	45.718	15.874	11.999	38.099	19.049	26.974	0.889	0.432				4897	1412	

kgf=Nx0.101972

90° Type Bushing



Type	Material	Hardness
BVGBS	EN 1.4305 Equiv.	58-60HRC



E (Eccentric Bushing)

C (Fixed Bushing)

Material: EN 1.4305 Equiv.

Part Number	No.	Spec.	L	D	B	d	Tolerance	Applicable Screw	X	ℓ ₁	H	Unit Price
BVGBS	1	C	13.68	4.75	10	3	+0.014 0	M3	- 0.3	6.06	10	
	2	C	17.24	9.52	13	6	+0.018 0	M6	- 0.6	6.45	12	
	3	C	24.68	11.99	19	8	+0.022 0	M8	- 1.0	9.06	17	

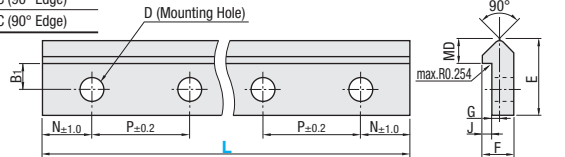
Ordering Example

Part Number - Spec.
BVGBS1 - E

90° Type Single Sided Tracks



Type	Mounting Hole	Material	Hardness
BVGTNL	Available	EN 1.1191 Equiv.	53HRC (90° Edge)
BVGTNSL	Available	EN 1.4028 Equiv.	40HRC (90° Edge)



D (Mounting Hole)

Number of Holes = $\left(\frac{L-40}{50}\right) + 1$

Part Number		L 50mm Increment		E	F	G	J	MD	D	B ₁	N	P
Type	No.			±0.38	±0.38	±0.05		±0.05			±1.0	±0.2
BVGTNL BVGTNSL	1	90-1790		11.10	4.75	0.79	1.57	3.18	3.5	4	20	50
	2	(For L dimensions, please refer to the price list.)		15.88	6.35		2.36	4.75	4.5	5.5		
	3			22.23	8.71	1.57	2.77	6.35	5.5	8		

Ordering Example

Part Number - L
BVGTNL1 - 640

Alteration Code	Surface Treatment
	MTC
Spec.	Electroless nickel plating is applied. ⊗ Not available for Stainless Steel Type.

Alterations

Part Number - (MTC)L
BVGTNL1 - MTC740

⊗ Only applicable to Single Sided Track Type BVGTNL.

Single Sided Track

L	Unit Price					
	BVGTNL1	BVGTNL2	BVGTNL3	BVGTNSL1	BVGTNSL2	BVGTNSL3
90, 140, 190						
240, 290						
340, 390						
440, 490						
540, 590						
640, 690						
740, 790						
840, 890						
940, 990						
1040, 1090						
1140, 1190						
1240, 1290						
1340, 1390						
1440, 1490						
1540, 1590						
1640, 1690						
1740, 1790						

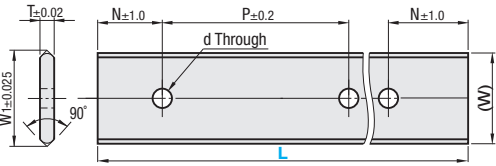
V Guide Systems

90° Type Bushings / Single Sided Tracks / Double Sided Tracks

90° Type Double Sided Tracks



Type	Material	Surface Treatment	Hardness
BVGUR	EN 1.1191 Equiv.	Black Oxide	58HRC (90° Edge)
BVGURS	EN 1.4125 Equiv.	-	52HRC (90° Edge)



W₁ ±0.025

90°

W₁ is the dimension at the intersection of 90°. (Both ends are R machined))

Number of Holes = $\left(\frac{L-40}{50}\right) + 1$

Part Number		L 50mm Increment		(W)	W ₁	T	N	P	d
Type	No.						±1.0	±0.2	
BVGUR BVGURS	25	90-1740		(25)	25.74	4.5	20	50	5.5
	44	(For L dimensions, please refer to the price list.)		(44)	44.74	6.0			7.0

Ordering Example

Part Number - L
BVGUR25 - 90

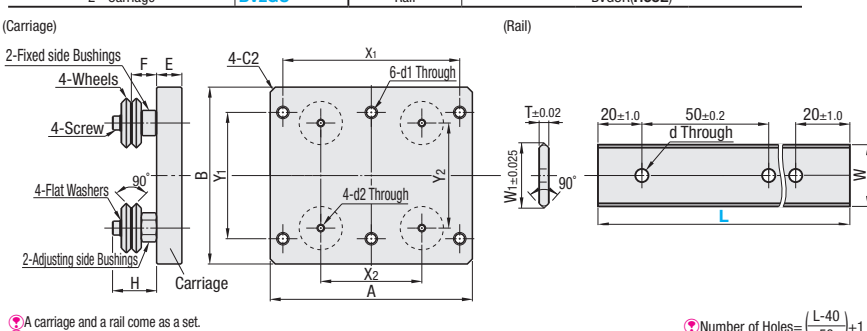
Double Sided Tracks

L (Selection)	Unit Price			
	BVGUR25	BVGURS25	BVGUR44	BVGURS44
90, 140				
190, 240				
290, 340				
390, 440				
490, 540				
590, 640				
690, 740				
790, 840				
890, 940				
990, 1040				
1090, 1140				
1190, 1240				
1290, 1340				
1390, 1440				
1490, 1540				
1590, 1640				
1690, 1740				

90° Type V Guide Units



Type	Material	Surface Treatment	Hardness
1 - Carriage	BVGU	Plate: EN AW-5052 Equiv.	Black Anodize
2 - Carriage	BV2GU		BVGUR(P652)



(Carriage)

(Rail)

2-Fixed side Bushings

4-Wheels

4-Screw

4-Flat Washers

2-Adjusting side Bushings

Carriage

4-C2

6-d1 Through

4-d2 Through

W₁ ±0.025

90°

W₁ is the dimension at the intersection of 90°. (Both ends are R machined))

Number of Holes = $\left(\frac{L-40}{50}\right) + 1$

Part Number		L 50mm Increment	W	W ₁	d	A	B	X ₁	X ₂	Y ₁	Y ₂	d ₁	d ₂	E	F	H	T	Wheel	Bushing		Screw
Type	No.																		Fixed Side	Adjusting Side	
BVGU (1 Carriage Set) BV2GU (2 Carriage Sets)	25	90~1740 (For L dimensions, please refer to the price list)	25	25.74	5.5	80	70	70	40	50	41.59	M5	M3	10	10	17.5	4.5	BVGH1	BVGBS1-C	BVGBS1-E	CB3-22
	25L		25	25.74	5.5	120	70	100	80	50	41.59	M5	M3	10	10	17.5	4.5		BVGBS2-C	BVGBS2-E	CB6-25
	44		44	44.74	7	120	105	100	80	80	70.14	M6	M6	10	12	24.5	6	BVGH2			

⊗ A, X₁ and X₂ of No. 25L are larger than those of No. 25.

Ordering Example

Part Number - L
BVGU25 - 840

L (Selection)	Unit Price				
	BVGU25	BV2GU25	BVGU25L	BV2GU25L	BVGU44
90					
140					
190, 240					
290, 340					
390, 440					
490, 540					
590, 640					
690, 740					
790, 840					
890, 940					
990, 1040					
1090, 1140					
1190, 1240					
1290, 1340					
1390, 1440					
1490, 1540					
1590, 1640					
1690, 1740					