

V Guide

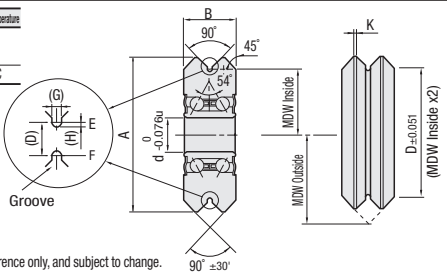
90° Type Units / Wheels

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	-30-260°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.



* 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	0.229		12.700	18.236	1.4	0.7	5900	1701	1220	252	2650	625		
	2	30.733	11.099	9.525	25.399	12.700	18.236	1.4	0.7														
	3	45.718	15.874	11.999	38.099	19.049	26.974	2.0	1.0														
BVGHS	1	19.557	7.874	4.762	15.848	7.924	11.861	1.0	0.5			12.700	18.236	1.4	0.7	5900	1701	1220	252	2650	625		
	2	30.733	11.099	9.525	25.399	12.700	18.236	1.4	0.7														
	3	45.718	15.874	11.999	38.099	19.049	26.974	2.0	1.0														
BVGHT	1	19.557	7.874	4.762	15.848	7.924	11.861	0.508	0.254			12.700	18.236	0.762	0.381	2200	519	1013	209	2200	519		
	2	30.733	11.099	9.525	25.399	12.700	18.236	0.762	0.381														
	3	45.718	15.874	11.999	38.099	19.049	26.974	0.889	0.432														

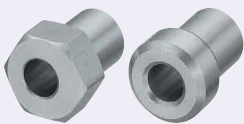
kgf=Nx0.101972



Ordering Example

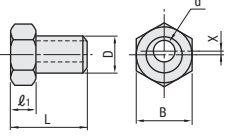
Part Number
BVGH3

90° Type Bushing

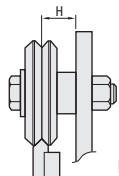
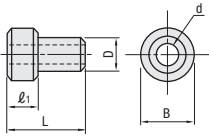


BVGBS

E (Eccentric Bushing)



C (Fixed Bushing)



Material: EN 1.4305 Equiv.

Part Number		No.		Spec.		L		D		B		d		Tolerance		Applicable Screw		X		L1		H		Unit Price	
Type	No.																								
BVGBS	1	C				13.68	4.75	10	3	+0.014	0	M3	-	0.3	6.06	10		-		6.06	10				
	2	C				17.24	9.52	13	6	+0.018	0	M6	-	0.6	6.45	12		-		6.45	12				
	3	C				24.68	11.99	19	8	+0.022	0	M8	-	1.0	9.06	17		-		9.06	17				



Ordering Example

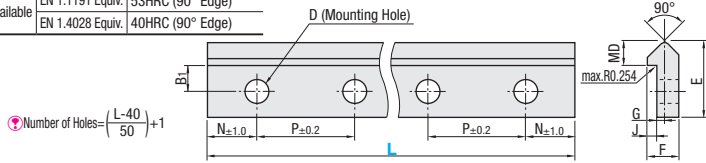
Part Number
BVGBS1

Spec.
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)



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

Part Number		L 50mm Increment		E		F		G		J		MD ±0.05		D		B1		N ±1.0		P ±0.2	
Type	No.																				
BVGTNL	1	90-1790		11.10	4.75	0.79	1.57	3.18	3.5	4	20	50									
	2			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
BVGTNL1

L
640

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



Alterations



Part Number
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

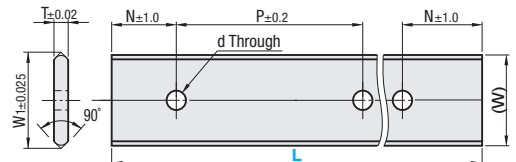
90° Type Double Sided Tracks



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

W1 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)		W1		T		N ±1.0		P ±0.2		d	
Type	No.														
BVGUR	25	90-1740		(25)		25.74		4.5		20		50		5.5	
BVGURS	44					(44)		44.74		6.0				7.0	



Ordering Example

Part Number
BVGUR25

L
90

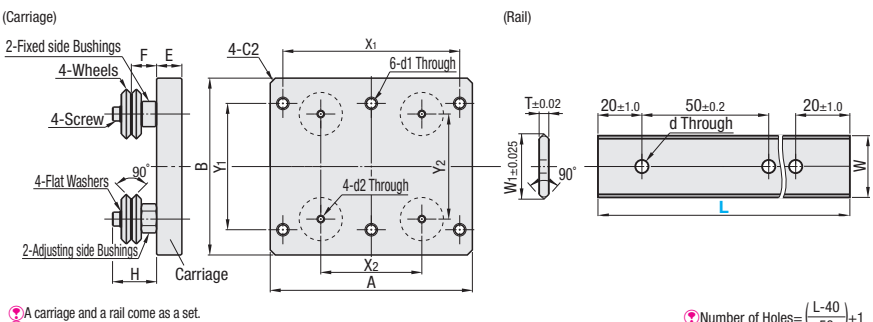
Double Sided Tracks

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		Rail		BVGUR(P652)	



Part Number		L 50mm Increment		W		W1		d		A		B		X1		X2		Y1		Y2		d1		d2		E		F		H		T		Wheel		Bushing		Screw
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