

Metal Collar

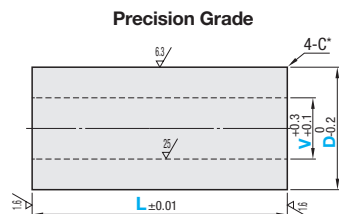
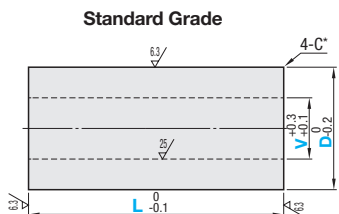
Hardened Type - Standard Grade / Precision Grade, L Dimension Configurable / Dimension Configurable



Part Number				Material	Surface Treatment	Hardness
L Dimension Configurable		Dimension Configurable				
Standard Grade	Precision Grade	Standard Grade	Precision Grade			
NCLCH	ASH	FNCLCH	FAS	S45C Equivalent	-	45~50HRC
NCLBH	ASC	FNCLBH	FASC		Black Oxide	
NCLMH	PASC	FNCLMH	FPASC		Electroless Nickel Plating	
-	-	-	-	SKS3 Equivalent	-	55HRC~
-	-	-	-		Black Oxide	
-	-	-	-		Electroless Nickel Plating	
NCLSSH	SASCH	FNCLSH	FSASCH	SUS440C or 13Cr stainless	-	45~50HRC

Ⓜ Depending on thickness and length, S45C Hardened Type may be less than 45HRC.
 Ⓜ Stainless Steel Hardened Type may be discolored due to hardening.

* D=16 or Less: C0.1 ~ 0.2
 D=16.5 or More: C0.5 or Less



L Dimension Configurable, Standard Grade / Precision Grade

Type	Part Number	D Selection	L 0.1mm Increment	Unit Price								
				Standard Grade				Precision Grade				
	V			NCLCH	NCLBH	NCLMH	NCLSSH	ASH	ASC	PASC	SASCH	
Standard Grade NCLCH NCLBH NCLMH NCLSSH	2	4 5 6 8 10	10.0~ 16.0									
	3	5 6 8 10 12	10.0~ 25.0									
			25.1~ 50.0									
	4 5 6	(6) 8 10 12 13 14 15 16	Ⓜ(6)→Applicable to V4.	10.0~ 25.0								
				25.1~ 50.0								
				10.0~ 25.0								
25.1~ 50.0												
8 10 12	(10) (12) (13) (14) 15 16	Ⓜ(10)→Applicable to V8. Ⓜ(12 13 14)→Applicable to V8, 10.	10.0~ 25.0									
			25.1~ 50.0									
			50.1~ 75.0									
			75.1~ 100.0									
Precision Grade ASH ASC PASC SASCH	8 10 12 15 16 20	(20) 25	10.0~ 25.0									
			25.1~ 50.0									
			50.1~ 75.0									
			75.1~ 100.0									
	8 10 12 15 16 20 25	30 35	10.0~ 25.0									
			25.1~ 50.0									
10 12 15 16 20 25 30	40 50 60	10.0~ 25.0										
		25.1~ 50.0										
		50.1~ 75.0										
			75.1~ 100.0									

Ordering Example: Part Number - D - L
 NCLCH10 - 20 - 50.5

Dimension Configurable, Standard Grade / Precision Grade

Part Number	V 0.5mm Increment (V3 or More)	D	L 0.1mm Increment	Unit Price																
				Standard Grade						Precision Grade										
				FNCLCH	FNCLBH	FNCLMH	FNCSK	FNCSKB	FNCSKM	FNCLSH	FAS	FASC	FPASC	FASK	FASKB	FASKM	FSASCH			
Standard Grade FNCLCH FNCLBH FNCLMH FNCSK FNCSKB FNCSKM FNCLSH	(Selection)	2.0 2.6	4.0~10.0 (0.5mm Increment)	10.0~ 25.0																
				25.1~ 50.0																
				50.1~ 75.0																
				75.1~ 100.0																
				10.0~ 25.0																
				25.1~ 50.0																
				50.1~ 75.0																
				75.1~ 100.0																
				10.0~ 25.0																
				25.1~ 50.0																
				50.1~ 75.0																
				75.1~ 100.0																
Precision Grade FAS FASC FPASC FASK FASKB FASKM FSASCH	(0.5mm Increment)	3.0~90.0	41~50 (1mm Increment)	10.0~ 25.0																
				25.1~ 50.0																
				50.1~ 75.0																
				75.1~ 100.0																
				10.0~ 25.0																
				25.1~ 50.0																
				50.1~ 75.0																
				75.1~ 100.0																
				10.0~ 25.0																
				25.1~ 50.0																
				50.1~ 75.0																
				75.1~ 100.0																

Ⓜ Machining Limits of Collar Thickness and Overall Length
 Length: 10.0≤L≤50.0 → (D-V)/2≥1; 50.1≤L≤100.0 → (D-V)/2≥3
 Ⓜ Machining Limits of Collar Thickness and Overall Length (Material: SKS3)
 4≤D≤10 → V≤D-2; 10.5≤D≤30 → V≤D-4; 31≤D≤60 → V≤D-6
 61≤D≤80 → V≤D-8; 81≤D≤100 → V≤D-10
 Ⓜ Machining Limits of V and Overall Length L≤Vx8

Ordering Example: Part Number - V - D - L
 FNCLCH - V10.5 - D19.5 - L50.5

Alterations: Part Number - V - D - L - (VKC)
 FNCLBH - V10.5 - D30 - L30.5 - VKC

Ⓜ Not applicable to L Dimension Configurable Type.

Alteration	Code	Spec.
I.D. Tolerance	VKC	Changes the I.D. Tolerance to H7. Ordering Code: VKC Machining Conditions: Ⓜ 6≤D≤40 V≥3 L≤40 Ⓜ When V<5, L≤Vx4 Ⓜ When V≥5, L≤Vx3
		Thickness Conditions
		D D-V
		6~15 D-V≥3
		15.5~18 D-V≥4
		18.5~20 D-V≥5
		21~40 D-V≥6