

Metal Collar

Standard Grade / Precision Grade I.D. / O.D. Tolerance Selectable / Dimension Configurable



RoHS 10

Part Number	Material	Surface Treatment
Standard Grade	S45C Equivalent	Black Oxide
Precision Grade	SUS304	Electroless Nickel Plating

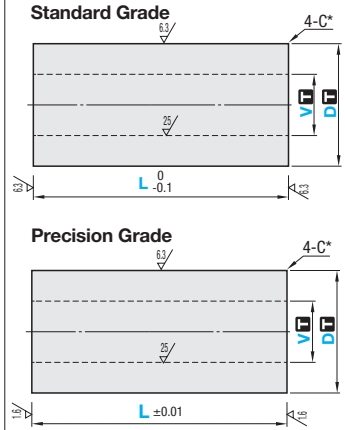
D	I.D. Tolerance Selection			
	G	H	N	X
5.0-8.5	-	-	-	-
9.0-10.0	-0.005	0	-0.1	0
	-0.014	-0.015		
10.5-18.0	-0.006	0	-0.3	-0.2
	-0.017	-0.018		
18.5-30	-0.007	0	-0.3	-0.2
	-0.020	-0.021		
31-50	-0.009	0	-0.3	-0.2
	-0.025	-0.025		
51-60	-0.010	0	-0.3	-0.2
	-0.029	-0.030		

V	V Tolerance Selection			
	H7	N	X	
3.0	+0.010	-	-	-
3.5-6.0	+0.012	+0.3	+0.2	-
	0			
6.5-10.0	+0.015	+0.3	+0.2	-
	0			
10.5-18.0	+0.018	+0.3	+0.2	-
	0			
18.5-30.0	+0.021	+0.3	+0.2	-
	0			
30.5-50.0	+0.025	+0.3	+0.2	-
	0			
50.5-58.0	+0.030	+0.3	+0.2	-
	0			

I.D./O.D. Tolerance Price Number List

D (O.D.)	V (I.D.)	Price No.
G	H	②
	N	①
	X	①
H	H	②
	N	①
	X	①
N	H	①
	N	③
	X	③
X	H	①
	N	③
	X	③

* Guide to Price List
 Ex. When ordering Material S45C, O.D. g6, I.D. H7 and L Tolerance ±0.01
 Part Number: SNMC-GH-V4.0-D10.0-L10.0
 1. Check the I.D./O.D. Tolerance Price Number List.
 (GH is Price Number ②)
 2. In the price list of precision grade, find the column of I.D./O.D. tolerance price ② shown in the price list of precision grade.



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

Standard Grade

Part Number	D Tolerance Selection	V Tolerance Selection	V 0.5mm Increment	D	L	Unit Price																	
						SNCC			SNCB			SNCM			SNCS								
SNCC SNCB SNCM SNCS	G H N X	H N X	3.0~58.0 (V≤D-2) Refer to the following.	5.0-10.0	0.1mm Increment	10.0~ 25.0																	
					0.5mm Increment	25.1~ 50.0																	
						50.1~ 64.0																	
					10.5-20.0	0.1mm Increment	10.0~ 25.0																
						0.5mm Increment	25.1~ 50.0																
							50.1~ 75.0																
				21-30	1mm Increment	10.0~ 25.0																	
						25.1~ 50.0																	
						50.1~ 75.0																	
				31-40	1mm Increment	10.0~ 25.0																	
						25.1~ 50.0																	
						50.1~ 75.0																	
41-50	1mm Increment	10.0~ 25.0																					
		25.1~ 50.0																					
		50.1~ 75.0																					
51-60	1mm Increment	10.0~ 25.0																					
		25.1~ 50.0																					
		50.1~ 75.0																					
		75.1~100.0																					

⚠ D≥9 is applicable when G or H is selected as the tolerance values of D and V. ⚠ Machining Limits of V and Overall Length ⚠ When H is selected as the tolerance values of D and V, and L≥Vx4 when V≥8, a middle relief is added. The dimension range of V is shown in the table below.

D	V
9~30	D-V≥6
31~60	D-V≥12

Ordering Example
 Part Number - Tolerance Selection - V - D - L
 SNCS - G H - V10.0 - D25 - L50.5

Precision Grade

Part Number	D Tolerance Selection	V Tolerance Selection	V 0.5mm Increment	D	L	Unit Price																	
						SNMC			SNMB			SNMM			SNMS								
SNMC SNMB SNMM SNMS	G H N X	H N X	3.0~58.0 (V≤D-2) Refer to the following.	5.0-10.0	0.1mm Increment	10.0~ 25.0																	
					0.5mm Increment	25.1~ 50.0																	
						50.1~ 64.0																	
					10.5-20.0	0.1mm Increment	10.0~ 25.0																
						0.5mm Increment	25.1~ 50.0																
							50.1~ 75.0																
				21-30	1mm Increment	10.0~ 25.0																	
						25.1~ 50.0																	
						50.1~ 75.0																	
				31-40	1mm Increment	10.0~ 25.0																	
						25.1~ 50.0																	
						50.1~ 75.0																	
41-50	1mm Increment	10.0~ 25.0																					
		25.1~ 50.0																					
		50.1~ 75.0																					
51-60	1mm Increment	10.0~ 25.0																					
		25.1~ 50.0																					
		50.1~ 75.0																					
		75.1~100.0																					

⚠ D≥9 is applicable when G or H is selected as the tolerance values of D and V. ⚠ Machining Limits of V and Overall Length ⚠ When H is selected as the tolerance values of D and V, and L≥Vx4 when V≥8, a middle relief is added. The dimension range of V is shown in the table below.

D	V
9~30	D-V≥6
31~60	D-V≥12

Ordering Example
 Part Number - Tolerance Selection - V - D - L
 SNMS - G H - V10.0 - D25 - L50.5

Alterations
 Part Number - Tolerance Selection - V - D - L
 SNCS - G H - V10.0 - D25 - L50.0 - LCB

Alterations Code	Negative Tolerance	Positive Tolerance	Zero, Negative Tolerance	Zero, Positive Tolerance
	LCB	LCC	LCD	LCE
<p>⚠ Applicable to Standard Grade</p>	Changes L Tolerance (L) L -0.1 L -0.2 ORDERING CODE LCB	Changes L Tolerance (L) L +0.3 L +0.1 ORDERING CODE LCC	Changes L Tolerance (L) L 0 L -0.2 ORDERING CODE LCD	Changes L Tolerance (L) L +0.2 L 0 ORDERING CODE LCE

Alterations Code	Negative Tolerance	Positive Tolerance	Zero, Negative Tolerance	Zero, Positive Tolerance
	LSB	LSC	LSD	LSE
<p>⚠ Applicable to Precision Grade</p>	Changes L Tolerance (L) L -0.01 L -0.03 ORDERING CODE LSB	Changes L Tolerance (L) L +0.03 L +0.01 ORDERING CODE LSC	Changes L Tolerance (L) L 0 L -0.02 ORDERING CODE LSD	Changes L Tolerance (L) L +0.02 L 0 ORDERING CODE LSE