

Metal Collars

Standard / Precision Grade with Configurable Dimensions and Tolerances

Metal Collars – Standard / Precision Grade with Configurable Dimensions and Tolerances

RoHS10

Part Number		Material	Surface Treatment
Standard Grade	Precision Grade		
SNCC	SNMC	1045 Carbon Steel or Equivalent	—
SNCB	SNMB		Black Oxide
SNCM	SNMM		Electroless Nickel Plating
SNCS	SNMS	304 Stainless Steel	—

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

Standard Grade

Precision Grade

*D=16 or less C0.1–0.2
D=16.5 or more C0.5 or less

V	V Tolerance		
	H	N	X
3.0	+0.010 0	—	—
3.5–6.0	+0.012 0	—	—
6.5–10.0	+0.015 0	—	—
10.5–18.0	+0.018 0	+0.3 +0.1	+0.2 0
18.5–30.0	+0.021 0	—	—
30.5–50.0	+0.025 0	—	—
50.5–58.0	+0.030 0	—	—

Standard Grade

Part Number	D Tolerance Selection	V Tolerance Selection	V 0.5 mm Increment	D	L 0.5 mm Increment
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 0.5 mm Increment	10.0–64.0
				10.5–20.0 0.5 mm Increment	10.0–100.0
				21–30 1 mm Increment	
				31–40 1 mm Increment	
				41–50 1 mm Increment	
				51–60 1 mm Increment	

- Ⓛ D≥9 is applicable when G or H is selected as the tolerance values of D and V. The dimension range of V is shown in the table below.
- Ⓛ Machining Limits of V and Overall Length L≤Vx8
- Ⓛ When H is selected as the tolerance values of D and V, and L≥Vx4 when V≥8, a middle relief is added.

Precision Grade

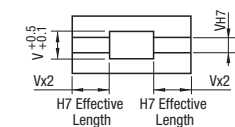
Part Number	D Tolerance Selection	V Tolerance Selection	V 0.5 mm Increment	D	L 0.5 mm Increment
SNMC SNMB SNMM SNMS	G H N X	H N X	3.0–58.0 (V≤D-2) Refer to the following.	5.0–10.0 0.5 mm Increment	10.0–64.0
				10.5–20.0 0.5 mm Increment	10.0–100.0
				21–30 1 mm Increment	
				31–40 1 mm Increment	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

- Ⓛ D≥9 is applicable when G or H is selected as the tolerance values of D and V. The dimension range of V is shown in the table below.
- Ⓛ Machining Limits of V and Overall Length L≤Vx8
- Ⓛ When H is selected as the tolerance values of D and V, and L≥Vx4 when V≥8, a middle relief is added.

Part Number Example

Part Number: SNCS - G H - V10.0 - D25 - L50.5

D	V
9–30	D–V≥6
31–60	D–V≥12



Metal Collars

Standard / Precision Grade with Configurable Dimensions and Tolerances, *continued*

Part Number Alterations

Part Number - Tolerance Selection - D - V - T - (LCB / LCC / LCD / LCE) (LSB / LSC / LSD / LSE)

SNCS - G H - V10.0 - D25 - L50.0 - LCB

Alterations	Negative Tolerance		Positive Tolerance		Zero Negative Tolerance		Zero Positive Tolerance	
	Code	LCB	LCC	LCD	LCE			
Standard Grade L Tolerance	<p>Available for Standard Grade</p>	Changes L Tolerance (T) L -0.1 L -0.2 Ordering Code: LCB	Changes L Tolerance (T) L +0.3 L +0.1 Ordering Code: LCC	Changes L Tolerance (T) L 0 L -0.2 Ordering Code: LCD	Changes L Tolerance (T) L +0.2 L 0 Ordering Code: LCE			
Precision Grade L Tolerance	<p>Available for Precision Grade</p>	Changes L Tolerance (T) L -0.01 L -0.03 Ordering Code: LSB	Changes L Tolerance (T) L +0.03 L +0.01 Ordering Code: LSC	Changes L Tolerance (T) L 0 L -0.02 Ordering Code: LSD	Changes L Tolerance (T) L +0.02 L 0 Ordering Code: LSE			