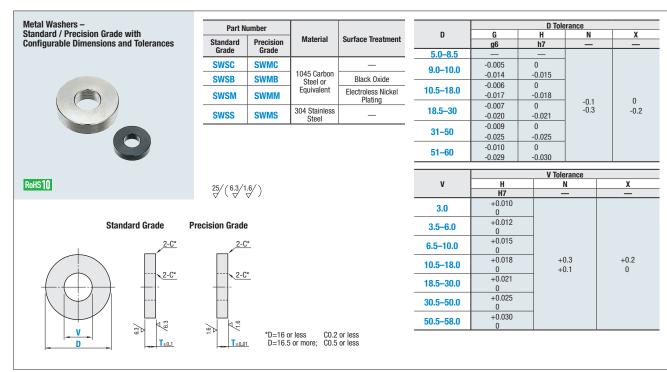
# **Metal Washers**

### Standard / Precision Grade with Configurable Dimensions and Tolerances



#### **Standard Class**

Part Number	D Tolerance Selection	V Tolerance Selection	D	V 0.5 mm Increment	T Part Number Example Part Number		Part Number Example		Number	] - [ ]	Tolera D	nce Se	election V	1 -		
	0010011011	Coloction							SI	WSC	-	G		Н	-	D
			<b>5.0–10.0</b> 0.5 mm Increment			D		V		Т						
			10.5–20.0			9-30	_	D-V≥6		1–10 2–10						
			0.5 mm Increment			31–60	)	D–V≥12		2-10	U					
SWSC SWSB SWSM SWSS	G H N X	H N X	21–30 1 mm Increment	3.0–58.0 (V≤D-2) ① Refer to the following	1.0-2.9* 3.0-10.0											
			31–40 1 mm Increment													
			41–50 1 mm Increment													
			51–60 1 mm Increment													

- \* Tolerances 1, 2, and 3 are not available for SWSS.
- T≥3 for SWSS
- No specification available for sizes without declaration of value.
- D must ≥9 when G or H is selected as the tolerance values of D and V. The dimension ranges of V and T are shown in the table below.

## **Metal Washers**

Standard / Precision Grade with Configurable Dimensions and Tolerances, continued

#### **Precision Grade**

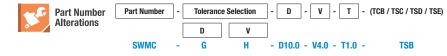
		v		v	-	D	V	T
Part Number	D Tolerance	Tolerance Selection	D	0.5 mm Increment	T 0.1 mm Increment	9–30	D-V≥6	1–10
	Selection					31–60	D-V≥12	2–10
			5.0-10.0 0.5 mm Increment	3.0–58.0 (V≤D-2) ① Refer to the following	1.0-2.9* 3.0-10.0			
			10.5–20.0 0.5 mm Increment					
SWMC SWMB	G H	H N	21–30 1 mm Increment					
SWMM SWMS	N X	X	31–40 1 mm Increment					
			41–50 1 mm Increment					
			51–60 1 mm Increment					

\* Tolerances 1, 2, and 3 are not available for SWSS.

T≥3 for SWMS

ON specification available for sizes without declaration of value.

© D must ≥9 when G or H is selected as the tolerance values of D and V. The dimension ranges of V and T are shown in the table below.



	Alterations	Negative Tolerance	Positive Tolerance	Zero Negative Tolerance	Zero Positive Tolerance		
	Code	TCB	TCC	TCD	TCE		
Standard Grade T Tol.	$T\pm0.1$ $TC_{-}$ Available for Standard Grade	Changes Thickness Tolerance (T) T -0.1 -0.3  Ordering Code: TCB	Changes Thickness Tolerance (T) T +0.3 +0.1 Ordering Code: TCC	Changes Thickness Tolerance (T)  T 0 -0.2  Ordering Code: TCD	Changes Thickness Tolerance (T) T +0.2 0 Ordering Code: TCE		

	Alterations	Negative Tolerance	Positive Tolerance	Zero Negative Tolerance	Zero Positive Tolerance	
_	Code	TSB	TSC	TSD	TSE	
Precision Grade T Tol	→ ☐ T±0.01 ☐ TS  O Available for Standard Grade	Changes Thickness Tolerance (T) T -0.01 -0.03 Ordering Code: TSB	Changes Thickness Tolerance (T) T +0.03 +0.01 Ordering Code: TSC	Changes Thickness Tolerance (T)  T 0 -0.02  Ordering Code: TSD	Changes Thickness Tolerance (T) T +0.02 Ordering Code: TSE	

- D10.0 - V4.0 - T1.0