





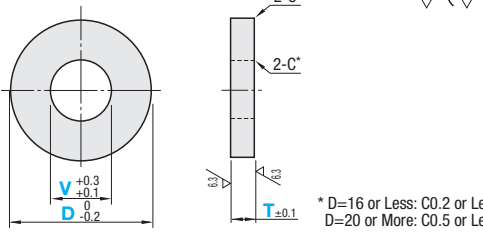
# Metal Washer

Standard Grade, T Dimension Selectable / Configurable



Type		Material	Surface Treatment
T Dimension Selectable	T Dimension Configurable		
WSSB	TWSSB	S45C Equivalent SUS304	Black Oxide
WSSM	TWSSM		Electroless Nickel Plating
WSSS	TWSSS		-

 Hardened Type  P.119  
 T Dimension Selectable is Material S45C Equivalent and SUS304 Equivalent.



$V: +0.3 / +0.1 / 0 / -0.2$   
 $D: +0.3 / 0 / -0.2$   
 $T: \pm 0.1$

\* D=16 or Less: C0.2 or Less  
D=20 or More: C0.5 or Less

RoHS 10

## T Dimension Selectable (Standard Grade)

Part Number Type	D	V Selection	T Selection	Unit Price		
				WSSB	WSSM	WSSS
4	2		1 2			
			1.5 2.5			
5	2 3		1 2			
			1.5 2.5 3			
6	2 3 4		1 2			
			1.5 2.5 3 4 5 6			
8	2 3 4 5 6		1 2 3 5			
			1.5 2.5 4 6 8			
10	2 3 4 5 6 8		1 2 3 5			
			1.5 2.5 4 6 8			
12	3 4 5 6 8 10		1 2 3 5			
			1.5 2.5 4 6 8			
13	4 5 6 8 10		1 2 3 5			
			1.5 2.5			
14	4 5 6 8 10		1 2 3 5			
			1.5 2.5			
15	4 5 6 8 10 12		1 2 3 5			
			1.5 2.5			
16	4 5 6 8 10 12		1 2 3 5			
			1.5 2.5 4 6 8			
20	4 5 6 8 10 12 15 16		1 2 3 5			
			1.5 2.5 4 6 8			
25	6 8 10 12 15 16 20		1 2 3 5			
			1.5 2.5 4 6 8			
30	8 10 12 15 16 20 25		1 2 3 5			
			1.5 2.5 4 6 8			
35	10 12 15 16 20 25		3 5 10			
			3 5 10			
40	10 12 15 16 20 25 30		3 5 10			
			3 5 10			
50	10 12 15 16 20 25 30		3 5 10			
			3 5 10			
60	15 16 20 25 30		3 5 10			
			3 5 10			

Ordering Example: Part Number - V - T  
WSSS14 - 10 - 5


## T Dimension Configurable (Standard Grade)

Part Number Type	D	V Selection	T 0.5mm Increment	D	T	Unit Price		
						TWSSB	TWSSM	TWSSS
4	2		1.0-10.0	4-10	1.0- 2.0			
					2.5- 5.0			
5	2 3		1.0-10.0	12-20	5.5-10.0			
					1.0- 2.0			
6	2 3 4		1.0-10.0	25, 30	2.5- 5.0			
					5.5-10.0			
8	2 3 4 5 6		1.0-10.0		1.0- 2.0			
					2.5- 5.0			
10	2 3 4 5 6 8		1.0-10.0		5.5-10.0			
					1.0- 2.0			
12	3 4 5 6 8 10		1.0-10.0		2.5- 5.0			
					5.5-10.0			
13	4 5 6 8 10		1.0-10.0		1.0- 2.0			
					2.5- 5.0			
14	4 5 6 8 10		1.0-10.0		5.5-10.0			
					1.0- 2.0			
15	4 5 6 8 10 12		1.0-10.0		2.5- 5.0			
					5.5-10.0			
16	4 5 6 8 10 12		1.0-10.0		1.0- 2.0			
					2.5- 5.0			
20	4 5 6 8 10 12 15 16		1.0-10.0		5.5-10.0			
					1.0- 2.0			
25	6 8 10 12 15 16 20		1.0-10.0		2.5- 5.0			
					5.5-10.0			
30	8 10 12 15 16 20 25		1.0-10.0		5.5-10.0			
					1.0- 2.0			



Ordering Example: Part Number - V - T  
TWSSB30 - 8 - 5.5

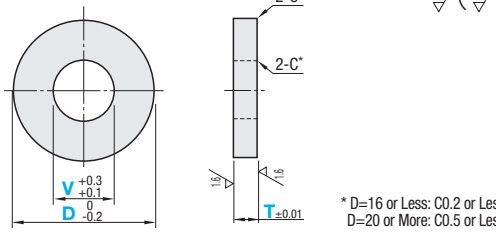
# Metal Washer

Precision Grade, T Dimension Selectable / Configurable



Type		Material	Surface Treatment
T Dimension Selectable	T Dimension Configurable		
WASB	TWASB	S45C Equivalent SUS304	Black Oxide
WASM	TWASM		Electroless Nickel Plating
WASS	TWASS		-

 Hardened Type  P.119



$V: +0.3 / +0.1 / 0 / -0.2$   
 $D: +0.3 / 0 / -0.2$   
 $T: \pm 0.01$

\* D=16 or Less: C0.2 or Less  
D=20 or More: C0.5 or Less

RoHS 10

## T Dimension Selectable (Precision Grade)

Part Number Type	D	V Selection	T Selection	Unit Price		
				WASB	WASM	WASS
4	2		1 2			
			1.5 2			
5	2 3		1 2			
			1.5 2			
6	2 3 4		1 2			
			1.5			
8	2 3 4 5 6		1 2 3 5			
			1.5			
10	2 3 4 5 6 8		1 2 3 5			
			1.5 2.5			
12	3 4 5 6 8 10		1 2 3 5			
			1.5 2.5			
13	4 5 6 8 10		1 2 3 5			
			1.5 2.5			
14	4 5 6 8 10		1 2 3 5			
			1.5			
15	4 5 6 8 10 12		1 2 3 5			
			1.5			
16	4 5 6 8 10 12		1 2 3 5			
			1.5			
20	4 5 6 8 10 12 15 16		2 3 5			
			1.5 2.5			
25	6 8 10 12 15 16 20		2 3 5			
			2 3 5			
30	8 10 12 15 16 20 25		2 3 5			
			2 3 5			
35	10 12 15 16 20 25		3 5 10			
			3 5 10			
40	10 12 15 16 20 25 30		3 5 10			
			3 5 10			
50	10 12 15 16 20 25 30		3 5 10			
			3 5 10			
60	15 16 20 25 30		3 5 10			
			3 5 10			

Ordering Example: Part Number - V - T  
WASB14 - 10 - 5

## T Dimension Configurable (Precision Grade)

Part Number Type	D	V Selection	T 0.5mm Increment	D	T	Unit Price		
						TWASB	TWASM	TWASS
4	2		1.0-10.0	4-10	1.0- 2.0			
					2.5- 5.0			
5	2 3		1.0-10.0	12-20	5.5-10.0			
					1.0- 2.0			
6	2 3 4		1.0-10.0	25, 30	2.5- 5.0			
					5.5-10.0			
8	2 3 4 5 6		1.0-10.0		1.0- 2.0			
					2.5- 5.0			
10	2 3 4 5 6 8		1.0-10.0		5.5-10.0			
					1.0- 2.0			
12	3 4 5 6 8 10		1.0-10.0		2.5- 5.0			
					5.5-10.0			
13	4 5 6 8 10		1.0-10.0		1.0- 2.0			
					2.5- 5.0			
14	4 5 6 8 10		1.0-10.0		5.5-10.0			
					1.0- 2.0			
15	4 5 6 8 10 12		1.0-10.0		2.5- 5.0			
					5.5-10.0			
16	4 5 6 8 10 12		1.0-10.0		1.0- 2.0			
					2.5- 5.0			
20	4 5 6 8 10 12 15 16		1.0-10.0		5.5-10.0			
					1.0- 2.0			
25	6 8 10 12 15 16 20		1.0-10.0		2.5- 5.0			
					5.5-10.0			
30	8 10 12 15 16 20 25		1.0-10.0		5.5-10.0			
					1.0- 2.0			

Ordering Example: Part Number - V - T  
TWASB30 - 8 - 5.5