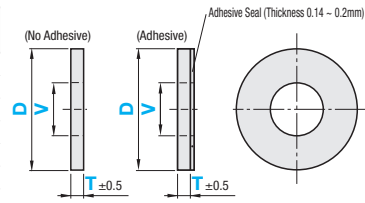


Rubber Washers



Standard		Configurable Type	Material	Hardness	Color
No Adhesive	Adhesive				
WRBN	WRBNA	FWRBN	Nitrile Rubber (NBR)	Shore A70	Black
WRBC	WRBCA	FWRBC	Chloroprene Rubber (CR)	Shore A65	Black
WRBP	WRBPA	FWRBP	Ethylene Rubber (EPDM)	Shore A65	Black
WUNS	WUNSA	FWUNS	Low Elasticity Rubber (Hanenaito® GP-35L)	Shore A32	Black
WRBS	WRBSA	FWRBS	Silicon Rubber (SI)	Shore A70	Light Gray
WRBA	WRBAA	FWRBA	Silicon Rubber (SI)	Shore A50	Milky White
WRBF	WRBFA	FWRBF	Fluororubber (FPM)	Shore A80	Black
WRBR	WRBRA	FWRBR	Butyl Rubber (IIR)	Shore A65	Black
WRBW	WRBWA	FWRBW	White Butyl Rubber (IIR)	Shore A65	White

Ⓜ Hanenaito® is a registered trademark of Naigai Rubber Industry Co., Ltd.
 Ⓜ The milky white color of silicone rubber shore A 50 is translucent.
 Ⓜ Temperature limit for seals is 80°C.



D Tolerance		V Tolerance	
D	Tolerance	Material	Tolerance
6-40	±0.5	Low Elasticity Rubber	±0.5
41-60	±0.6	Others	+0.5
61-100	±0.7		0

Rubber Washer Standard Type (No Adhesive)

Part Number Type	D	V Selection	T Selection	Unit Price								
				WRBN	WRBC	WRBP	WUNS	WRBS	WRBA	WRBF	WRBR	WRBW
WRBN	6	2	1 2 3									
WRBC	8	2 3 4	1 2 3									
WRBP	10	3 4 5 6	1 2 3 5									
WUNS	12	4 5 6 8	1 2 3 5									
WRBS	15	4 5 6 8 10	1 2 3 5									
WRBA	20	5 6 8 10 12	3 5									
WRBF	25	5 6 8 10 12 16 20	3 5									
WRBR	30	5 6 8 10 12 16 20	3 5									
WRBW	35	8 10 12 16 20 25	5									
	40	8 10 12 16 20 25 30	5									
	50	8 10 12 16 20 25 30	5									
	60	12 16 20 25 30 40	5									

Rubber Washer Standard Type (Adhesive)

Part Number Type	D	V Selection	T Selection	Unit Price								
				WRBNA	WRBCA	WRBPA	WUNSA	WRBSA	WRBAA	WRBFA	WRBRA	WRBWA
WRBNA	6	2	1 2 3									
WRBCA	8	2 3 4	1 2 3									
WRBPA	10	3 4 5 6	1 2 3 5									
WUNSA	12	4 5 6 8	1 2 3 5									
WRBSA	15	4 5 6 8 10	1 2 3 5									
WRBAA	20	5 6 8 10 12	3 5									
WRBFA	25	5 6 8 10 12 16 20	3 5									
WRBRA	30	5 6 8 10 12 16 20	3 5									
WRBWA	35	8 10 12 16 20 25	5									
	40	8 10 12 16 20 25 30	5									
	50	8 10 12 16 20 25 30	5									
	60	12 16 20 25 30 40	5									

Rubber Washer Configurable Type (No Adhesive)

Part Number Type	D	1mm Increment V	T	Unit Price								
				FWRBN	FWRBC	FWRBP	FWUNS	FWRBS	FWRBA	FWRBF	FWRBR	FWRBW
FWRBN	6-15	0 (No Hole) 2-39 (V≤D-6)	1-5									
FWRBC	16-30		6-10									
FWRBP	31-45		1-5									
FWUNS	46-60	0 (No Hole) 10-70 (V≤D-6)	6-10									
FWRBS	61-80		1-5									
FWRBA	81-100		6-10									
FWRBF		0 (No Hole) 20-80 (V≤D-6)	1-5									
FWRBR			6-10									
FWRBW			6-10									

Ⓜ When V=0, there is no hole.

Ordering Example: **Standard**
 Part Number - V - T
 WUNS20 - 10 - 5

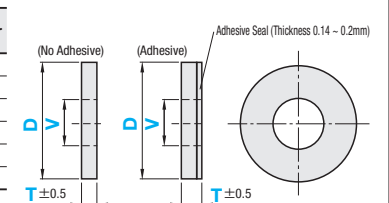
Ordering Example: **Configurable Type**
 Part Number - D - V - T
 FWUNS - D19 - V3 - T5

Sponge Washers



Standard		Configurable Type	Material	Hardness	Color	
No Adhesive	Adhesive					
WSGC	WSGCA	WSGNC	WSGNCA	Chloroprene Rubber Sponge	Asker C25	Black
WSGP	WSGPA	WSGNP	WSGNPA	Ethylene Rubber Sponge	Asker C8	Black
WSGB	WSGBA	WSGNB	WSGNBA	Nitrile Rubber Sponge	Asker C30	Black
WSEA	WSEAA	WSEPA	WSEPAA	EPT Sealer®	(Asker C5 or Less)	Black
WSGA	WSGAA	WSGNA	WSGNAA	Silicon Rubber Sponge	Asker C35	Orange
WSGF	WSGFA	WSGNF	WSGNFA	Fluororubber Sponge	Asker C35	Black

Ⓜ For EPT Sealer® (Dust-proof, General Purpose Sponge), see [LINK](#) P.445.
 Ⓜ Temperature limit for seals is 80°C.



D, V Tolerance	
D, V	Tolerance
10-40	±1.0
41-60	±1.5
61-100	±2.0

Standard Type (No Adhesive)

Part Number Type	D	V Selection	T Selection	Unit Price						
				WSGC	WSGP	WSGB	WSEA	WSGA	WSGF	
WSGC	6	2	3							
WSGP	8	2 3 4	3							
WSGB	10	3 4 5 6	3 5							
WSEA	12	4 5 6 8	3 5							
WSGA	15	4 5 6 8 10	3 5							
WSGF	20	5 6 8 10 12	3 5 10							
	25	5 6 8 10 12 16 20	3 5 10							
	30	5 6 8 10 12 16 20	3 5 10							
	35	8 10 12 16 20 25	5 10							
	40	8 10 12 16 20 25 30	5 10							
	50	8 10 12 16 20 25 30	5 10							
	60	12 16 20 25 30 40	5 10							

Standard Type (Adhesive)

Part Number Type	D	V Selection	T Selection	Unit Price						
				WSGCA	WSGPA	WSGBA	WSEAA	WSGAA	WSGFA	
WSGCA	6	2	3							
WSGPA	8	2 3 4	3							
WSGBA	10	3 4 5 6	3 5							
WSEAA	12	4 5 6 8	3 5							
WSGAA	15	4 5 6 8 10	3 5							
WSGFA	20	5 6 8 10 12	3 5 10							
	25	5 6 8 10 12 16 20	3 5 10							
	30	5 6 8 10 12 16 20	3 5 10							
	35	8 10 12 16 20 25	5 10							
	40	8 10 12 16 20 25 30	5 10							
	50	8 10 12 16 20 25 30	5 10							
	60	12 16 20 25 30 40	5 10							

Configurable Type

The unit price of Configurable Type "No Adhesive" is shown in the table below.

Part Number Type (xMaterial Multiplier)	T	T Tolerance	D 1mm Increment	V 1mm Increment	Unit Price					
					D10-20	D21-40	D41-60	D61-80	D81-100	
WSGNC (x1.0) WSGNP (x1.0) WSGNB (x1.0) WSEPA (x1.0)	3	±0.5	10-100	0 (No Hole) 5-30 Ⓜ When D≤40, D-V≥5 When D>40, D-V≥8						
	5									
	8									
	10				±1					
WSGNA (x1.0) WSGNAA (x1.2)	3	±0.5								
	5									
	8				±1.5					
10										
WSGNF (x1.0) WSGNFA (x1.2)	2	±0.5								
	3				±1.5					
	5									
10	±1.5									

Ordering Example: **Standard**
 Part Number - V - T
 WSGPA15 - 6 - 5

Ordering Example: **Configurable Type**
 Part Number - D - V
 WSGNA3 - D12 - V6