

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-3SL)	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.

(No Adhesive)

(Adhesive)

Adhesive Seal (Thickness 0.14 ~ 0.2mm)

D

T

V

D Tolerance

D

Tolerance

V 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		V Selection	T Selection	Unit Price							
Type	D			WRBN	WRBC	WRBP	WUNS	WRBS	WRBA	WRBF	WRBR
WRBN WRBC WRBP WUNS WRBS WRBA WRBF WRBR WRBW	6	2	1 2 3								
	8	2 3 4	1 2 3								
	10	3 4 5 6	1 2 3 5								
	12	4 5 6 8	1 2 3 5								
	15	4 5 6 8 10	1 2 3 5								
	20	5 6 8 10 12	3 5								
	25	5 6 8 10 12 16 20	3 5								
	30	5 6 8 10 12 16 20	3 5								
	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	V		T	Unit Price								
Type	D	Selection	Selection	WRBNA	WRBCA	WRBPA	WUNSA	WRBSA	WRBAA	WRBFA	WRBRA	WRBWA
WRBNA WRBCA WRBPA WUNSA WRBSA WRBAA WRBFA WRBRA WRBWA	6	2	1 2 3									
	8	2 3 4	1 2 3									
	10	3 4 5 6	1 2 3 5									
	12	4 5 6 8	1 2 3 5									
	15	4 5 6 8 10	1 2 3 5									
	20	5 6 8 10 12	3 5									
	25	5 6 8 10 12 16 20	3 5									
	30	5 6 8 10 12 16 20	3 5									
	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	1mm Increment			Unit Price								
Type	D	V	T	FWRBN	FWRBC	FWRBP	FWUNS	FWRBS	FWRBA	FWRBF	FWRBR	FWRBW
FWRBN FWRBC FWRBP FWUNS FWRBS FWRBA FWRBF FWRBR FWRBW	6~15	0 (No Hole) 2~39 (V≤D-6)	1~5									
			6~10									
			1~5									
			6~10									
			1~5									
			6~10									
	31~45	0 (No Hole) 10~70 (V≤D-6)	1~5									
			6~10									
			1~5									
			6~10									
			1~5									
			6~10									
	46~60	0 (No Hole) 20~80 (V≤D-6)	1~5									
			6~10									
			1~5									
			6~10									
			1~5									
			6~10									
61~80	0 (No Hole) 20~80 (V≤D-6)	1~5										
		6~10										
		1~5										
		6~10										
		1~5										
		6~10										
81~100	0 (No Hole) 20~80 (V≤D-6)	1~5										
		6~10										
		1~5										
		6~10										
		1~5										
		6~10										

❗ When V=0, there is no hole.



Ordering Example

Standard

Part Number - V - T
WUNS20 - 10 - 5

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 P.445.
❗ Temperature limit for seals is 80°C.

(No Adhesive)

(Adhesive)

Adhesive Seal (Thickness 0.14 ~ 0.2mm)

D

T

V

D, V Tolerance

D, V

Tolerance

10~40	±1.0
41~60	±1.5
61~100	±2.0

Standard Type (No Adhesive)

Part Number	D	V Selection	T Selection	Unit Price					
Type	D		T	WSGC	WSGP	WSGB	WSEA	WSGA	WSGF
WSGC WSGP WSGB WSEA WSGA WSGF	6	2	3						
	8	2 3 4	3						
	10	3 4 5 6	3 5						
	12	4 5 6 8	3 5						
	15	4 5 6 8 10	3 5						
	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	D	V Selection	T Selection	Unit Price					
Type	D		T	WSGCA	WSGPA	WSGBA	WSEAA	WSGAA	WSGFA
WSGCA WSGPA WSGBA WSEAA WSGAA WSGFA	6	2	3						
	8	2 3 4	3						
	10	3 4 5 6	3 5						
	12	4 5 6 8	3 5						
	15	4 5 6 8 10	3 5						
	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			D	V	Unit Price				
Type (xMaterial Multiplier)		T	1mm Increment	1mm Increment	D10~20	D21~40	D41~60	D61~80	D81~100
WSGNC (x1.0) WSGNP (x1.0) WSGNB (x1.0) WSEPA (x1.0)	WSGNCA (x1.2) WSGNPA (x1.2) WSGNBA (x1.2) WSEPAA (x1.2)	3	10~100	0 (No Hole) 5~30 ❗ When D≤40, D-V≤5 When D>40, D-V≥8					
		5							
		8							
		10			-				
WSGNA (x1.0) WSGNAA (x1.2)		3							
		5							
		8							
		10			-				
WSGNF (x1.0) WSGNFA (x1.2)		2							
		3							
		5							
		10			-	-			



Ordering Example

Standard

Part Number - V - T
WSGPA15 - 6 - 5

Configurable Type

Part Number - D - V
WSGNA3 - D12 - V6