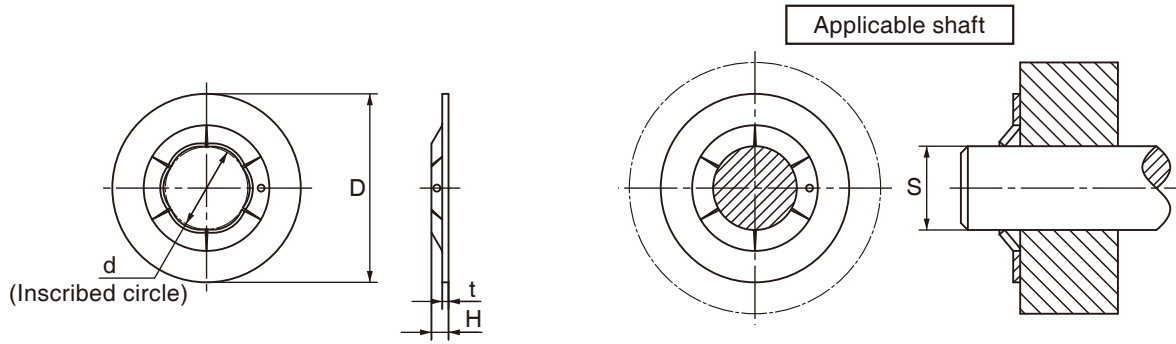


Self-locking External Nut



Unit: mm

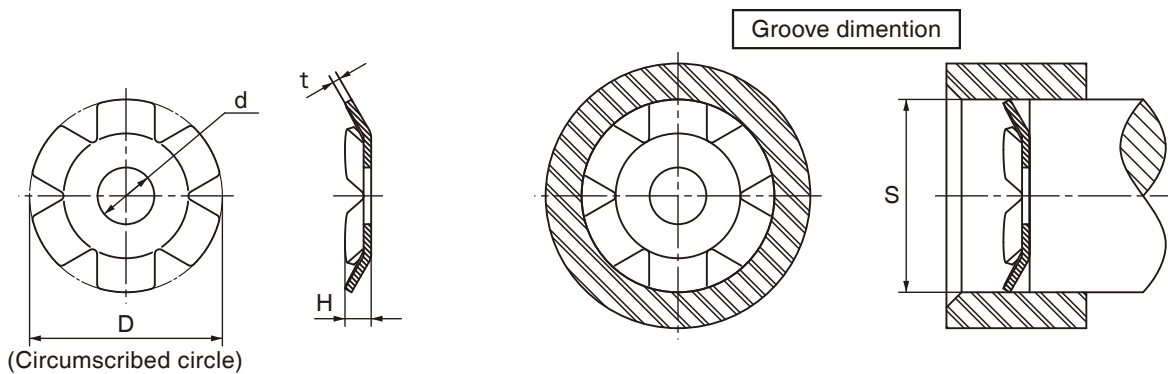
Size No.	Nuts					Applicable shaft	
	d		D	H (Ref.)	t	S	
	Basic	Tol.				Basic	Tol.
SPN- 1.2	1.1	0 -0.1	4.5	0.8	0.25	1.2	+0.04 -0.03
1.5	1.4		5.2	0.8	0.25	1.5	
2	1.9		6	0.8	0.25	2	
2.4	2.3	0 -0.15	7	0.85	0.25	2.4	+0.05 -0.03
2.6	2.5		7	0.85	0.25	2.6	
3	2.9		10	1.15	0.3	3	
4	3.9		12	1.3	0.3	4	
5	4.9		14	1.5	0.4	5	
6	5.9		16	1.75	0.4	6	
8	7.9		17.5	1.4	0.5	8	
10	9.9		21	1.8	0.7	10	
12	11.9		27	2.45	0.9	12	

Material = Carbon spring steel Hardness = 40 through 50HRC, Finish = Phosphate coating (ACP)
Material = Stainless steel for spring

Notes

- Please note that it may not be usable when the hardness of the mating shaft is high or when a hard coating such as nickel plating or chrome plating has been applied to the surface.
- Our products with little marketability may not be in stock. When employing our products, consult with us for their availability.

Self-locking Internal Nut



Unit: mm

Size No.	Nuts					Groove dimension	
	D		d	H (Ref.)	t	S	
	Basic	Tol.				Basic	Tol.
RPN- 6	6.2	±0.1	1	1	0.3	6	+0.03
8	8.2		1.8	1.2	0.3	8	-0.06
10	10.2		3	1.4	0.4	10	+0.03 -0.07

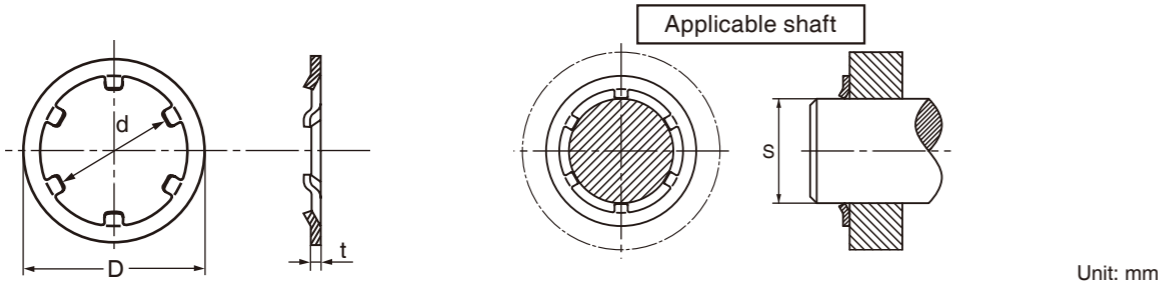
Material = Carbon spring steel Hardness = 40 through 50HRC, Finish = Phosphate coating (ACP)

Notes

- Please note that it may not be usable when the hardness of the mating shaft is high or when a hard coating such as nickel plating or chrome plating has been applied to the surface.
- Our products with little marketability may not be in stock. When employing our products, consult with us for their availability.

RETAINING RINGS | PUSH NUTS | WAVE WASHERS AND OTHERS | SCREW TYPE PLATE NUTS | SPRING PINS | SNAP PINS | JOINT CLIPS | ASSEMBLY TOOLS

Circular External Nut



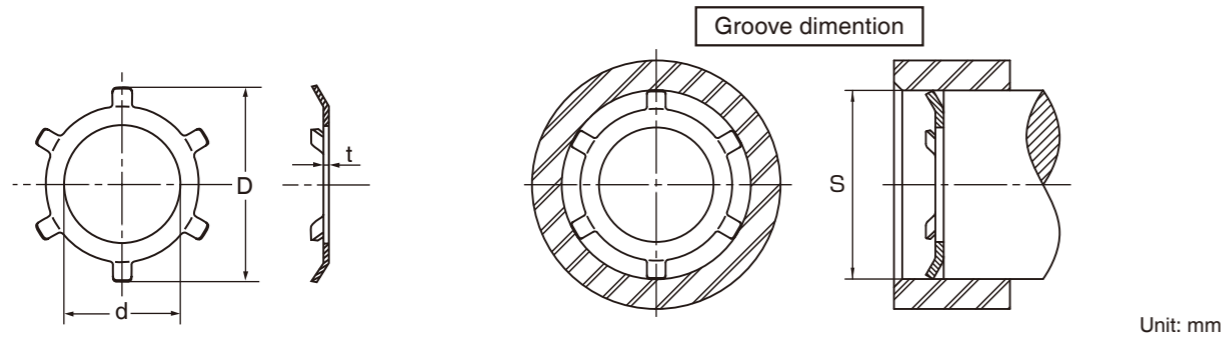
Size No.	Retaining rings					Applicable shaft		
	d		D		t	Number of teeth	S	
	Basic	Tol.	Basic	Tol.			Basic	Tol.
CSTW- 2	1.9	±0.05	6	±0.2	0.25	3	2	+0.03
2.4	2.2	+0.1	6.4		0.25	3	2.4	±0.03
3	2.8	0	8		0.25	4	3	
3.5	3.3	-0.1	7.5		0.25	4	3.5	
4	3.8	+0.1 0	9		0.25	4	4	
4.5	4.3		10		0.25	5	4.5	
5	4.8		10		0.25	5	5	
6	5.8		11		0.25	5	6	
8	7.8		13		0.25	5	8	
10	9.8		15.4		0.25	6	10	
12	11.8		17.8	0.4	6	12		
14	13.8		20.3	±0.3	0.4	6	14	±0.05
16	15.8		22.8		0.4	6	16	
18	17.8		25		0.4	8	18	
20	19.8	28	0.4		8	20		

Material = Carbon spring steel Hardness = 40 through 50HRC, Finish = Phosphate coating (ACP)
 Material = Stainless steel for spring

Notes

- Please note that it may not be usable when the hardness of the mating shaft is high or when a hard coating such as nickel plating or chrome plating has been applied to the surface.
- Our products with little marketability may not be in stock. When employing our products, consult with us for their availability.

Circular Internal Nut



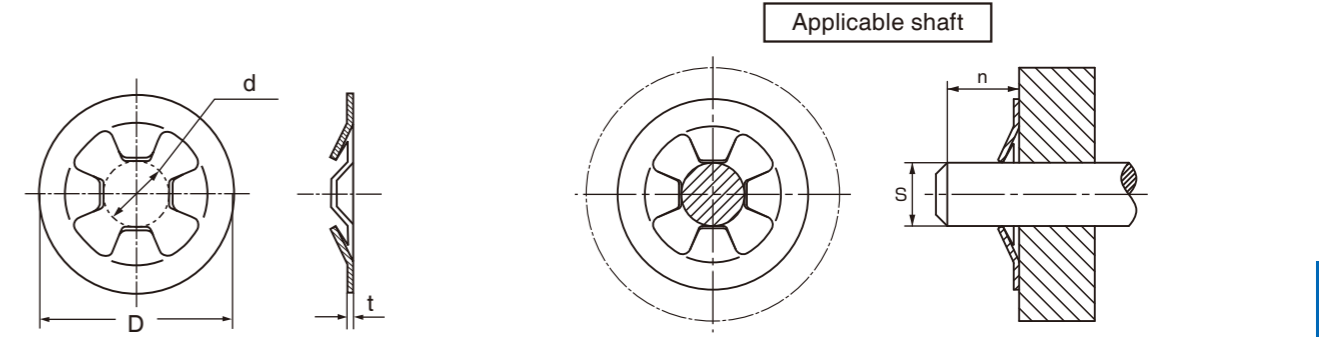
Size No.	Retaining rings					Groove dimension		
	D		d		t	Number of teeth	S	
	Basic	Tol.	Basic	Tol.			Basic	Tol.
CRTW- 6	6.2	0 -0.1	2.2	±0.2	0.25	6	6	±0.03
8	8.2		3.6		0.25	6	8	
10	10.2		5		0.25	6	10	
12	12.2		6.6		0.25	6	12	
14	14.2		8.2		0.25	6	14	
16	16.2		9.8		0.25	6	16	
18	18.2		11		0.4	8	18	

Material = Carbon spring steel Hardness = 40 through 50HRC, Finish = Phosphate coating (ACP)
 Material = Stainless steel for spring

Notes

- Please note that it may not be usable when the hardness of the mating shaft is high or when a hard coating such as nickel plating or chrome plating has been applied to the surface.
- Our products with little marketability may not be in stock. When employing our products, consult with us for their availability.

Circular Push-on Nut



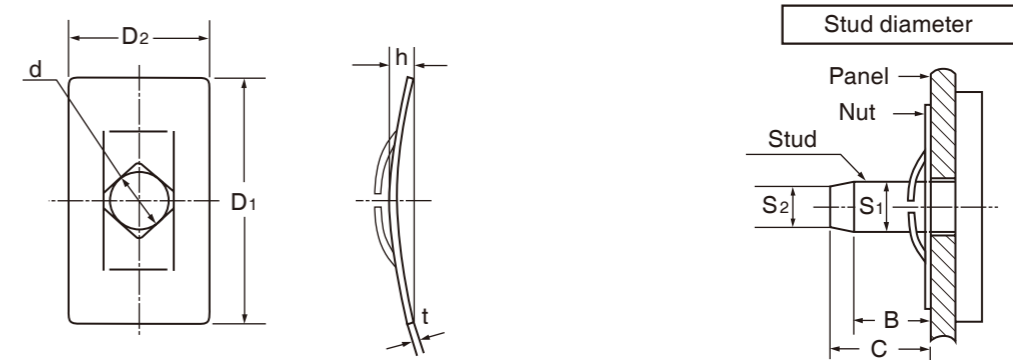
Size No.	Nuts					Applicable shaft		
	d		D		t	S		n
	Basic	Tol.	Basic	Tol.		Basic	Tol.	
CSN-3	2.7	±0.2	12	±0.3	0.3	3	±0.05	4.8
4	3.7		12		0.3	4		6
5	4.7		14		0.4	5		6.6

Material = Stainless steel for spring

Notes

- Please note that it may not be usable when the hardness of the mating shaft is high or when a hard coating such as nickel plating or chrome plating has been applied to the surface.
- Our products with little marketability may not be in stock. When employing our products, consult with us for their availability.

P-Type Push-on Nut



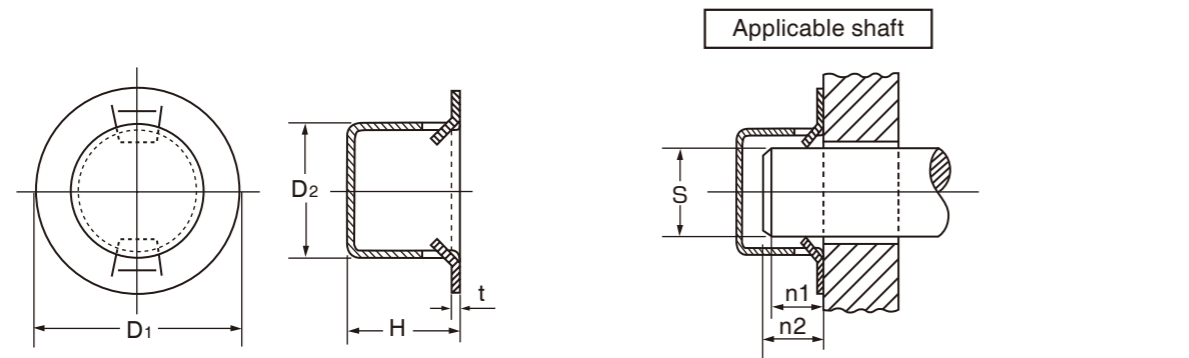
Size No.	Nuts						Stud diameter					
	d		D1	D2	Tol.	h	t	S1		S2	B	C
	Basic	Tol.						Basic	Tol.			
PSN- 1.2	1.1	±0.1	12	6	±0.15	±0.25	0.3	1.3	±0.05	1	4.5	6
1.5	1.38		12	6			0.95	1.57		1.2	4.5	6
1.8	1.68		12	6			1.05	1.87		1.5	4.5	6
2	1.85		12	6			1	2.07		1.6	4.5	6
3	2.8		14	8			1.2	3.1		2.6	6	8
4	3.8		16	9			1.5	4.1		3.6	6	8
5	4.8		18	11			1.6	5.1		4.6	6	8
6	5.8		20	12			1.7	6.1		5.6	8	10
8	7.8		23	15			2.2	8.1		7.6	8	10

Material = Carbon spring steel Hardness = 40 through 50HRC, Finish =Zinc Plate plus Chromate

Notes

- The ○ marked Size-Nos. of nuts are manufactured on request.
- Please note that it may not be usable when the hardness of the mating shaft is high or when a hard coating such as nickel plating or chrome plating has been applied to the surface.
- Our products with little marketability may not be in stock. When employing our products, consult with us for their availability.

Cap Nut F-Type



Unit: mm

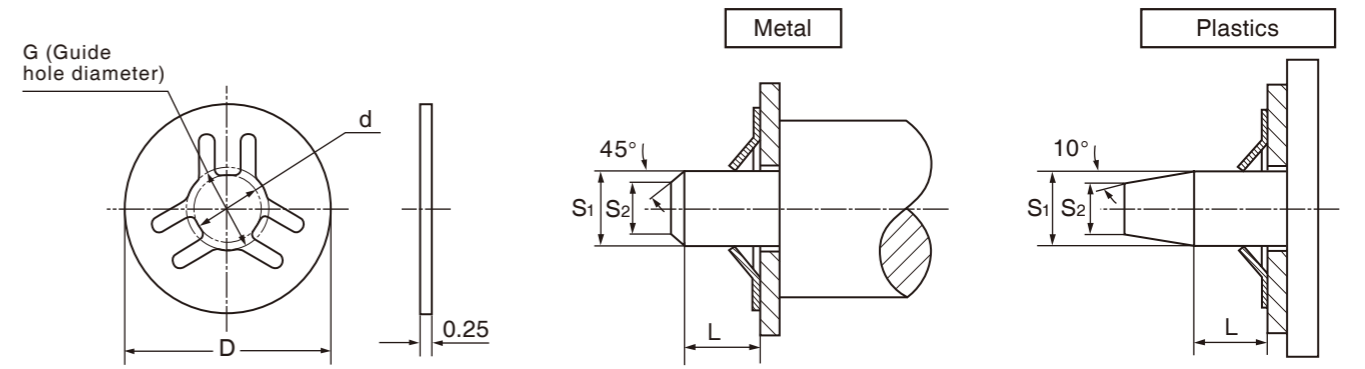
Size No.	Nuts						Applicable shaft			
	D ₁		D ₂	H		t	S		n1 (Min.)	n2 (Max.)
	Basic	Tol.	Basic	Basic	Tol.		Basic	Tol.		
WS-5	11.5	±0.2	6	5	±0.3	0.4	5	±0.05	3	4
6	12		7.1	5		0.45	6		3	4
8	14.3		9.3	7.3		0.5	8		3	6

Material = Carbon spring steel Hardness = 40 through 50HRC, Finish = Nickel plating

Notes

1. Please note that it may not be usable when the hardness of the mating shaft is high or when a hard coating such as nickel plating or chrome plating has been applied to the surface.
2. Our products with little marketability may not be in stock. When employing our products, consult with us for their availability.

Flat Push Nut



Unit: mm

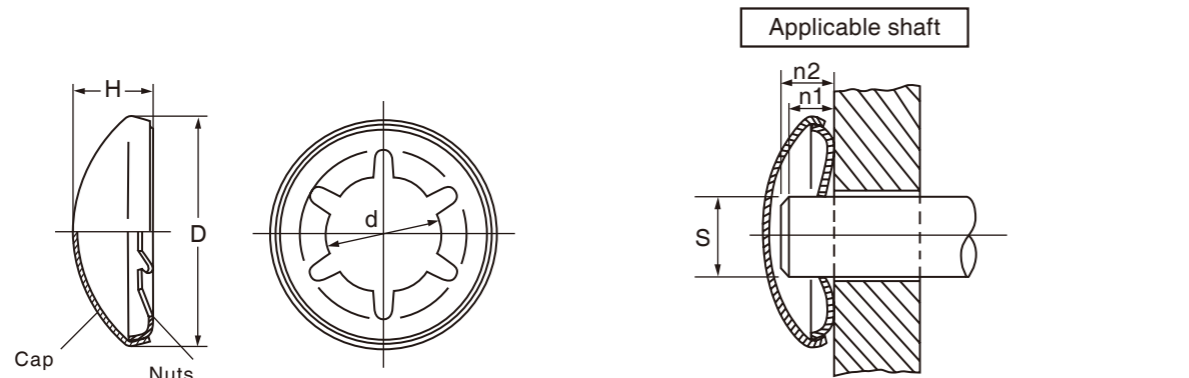
Size No.	Flat Push Nut						Applicable stud ^{Note 2}				
	d		D		G		Number of teeth	Metal & Plastics			
	Basic	Tol.	Basic	Tol.	Basic	Tol.		S ₁	S ₂	L	
FSPN-2	1.6	±0.05	7	±0.2	2.2	±0.05	3	2	+0.1	1.5	Approx.3
3	2.6		8		3.2		3	-0.03	2		
4	3.6		9		4.2		4	(+0.1 / 0) ^{Note 3}	3		
5	4.6		10		5.2		5		4		

Material = Carbon spring steel

Notes

1. Type of packing: Stack (500 pieces per stack)
2. A preferable hardness for metal shafts is 200HV or lower. When rigid shafts are to be applied, consult with us.
3. The tolerance value in parentheses is for plastic material.
4. Our products with little marketability may not be in stock. When employing our products, consult with us for their availability.

Cap Nut D-Type



Unit: mm

Size No.	Nuts						Applicable shaft					
	d		D		H		Plate thickness of cap	Plate thickness of nut	S		n1 (Min.)	n2 (Max.)
	Basic	Tol.	Basic	Tol.	Basic	Tol.			Basic	Tol.		
DS-5	4.9	0 / -0.15	13	±0.3	5.5	±0.3	0.3	0.3	5	+0.05 / -0.03	2.5	4
6	5.9		15		5.5		6	2.5	4			
8	7.9		15.6		5.5		8	2.5	4			

Raw material of cap = Stainless steel (SUS304-CS)

Raw material of nut = Carbon spring steel Hardness = 40 through 50HRC, Finish = Phosphate coating (ACP)

Notes

1. Please note that it may not be usable when the hardness of the mating shaft is high or when a hard coating such as nickel plating or chrome plating has been applied to the surface.
2. Our products with little marketability may not be in stock. When employing our products, consult with us for their availability.

RETAINING RINGS | PUSH NUTS | WAVE WASHERS AND OTHERS | SCREW TYPE PLATE NUTS | SPRING PINS | SNAP PINS | JOINT CLIPS | ASSEMBLY TOOLS