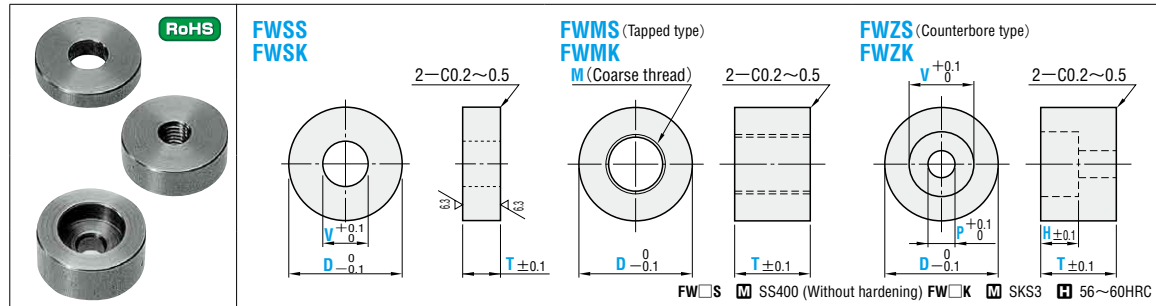


FREE WASHERS



Catalog No.	D	V 0.1mm increments	T 0.1mm increments	Base unit price	
				FWSS 1~9 pieces	FWSK 1~9 pieces
FWSS (SS400)	7 ~ 10 (0.5mm increments)	2.5~55	1.0 ~ 5		
			5.1 ~ 10		
			10.1 ~ 20		
			20.1 ~ 30		
			30.1 ~ 40		
FWSK (SKS3)	10.5 ~ 20 (0.5mm increments)	2.5~55	1.0 ~ 5		
			5.1 ~ 10		
			10.1 ~ 20		
			20.1 ~ 30		
			30.1 ~ 40		
FWSS (SS400)	21 ~ 30 (1mm increments)	2.5~55	1.0 ~ 5		
			5.1 ~ 10		
			10.1 ~ 20		
			20.1 ~ 30		
			30.1 ~ 40		
FWSK (SKS3)	31 ~ 40 (1mm increments)	2.5~55	1.0 ~ 5		
			5.1 ~ 10		
			10.1 ~ 20		
			20.1 ~ 30		
			30.1 ~ 40		
FWSS (SS400)	41 ~ 50 (1mm increments)	2.5~55	1.0 ~ 5		
			5.1 ~ 10		
			10.1 ~ 20		
			20.1 ~ 30		
			30.1 ~ 40		
FWSK (SKS3)	51 ~ 60 (1mm increments)	2.5~55	1.0 ~ 5		
			5.1 ~ 10		
			10.1 ~ 20		
			20.1 ~ 30		
			30.1 ~ 40		

Catalog No.	D	M selection	T 0.1mm increments	Base unit price	
				FWMS 1~9 pieces	FWMK 1~9 pieces
(Tapped)	8~20 (0.5mm increments)	3 (T \geq 3) 4 (T \geq 3) 5 (T \geq 3) 6 (T \geq 3) 8 (T \geq 4) 10 (T \geq 5) 12 (T \geq 6) 16 (T \geq 6) 20 (T \geq 8)	3.0 ~ 5		
			5.1 ~ 10		
			10.1 ~ 20		
			20.1 ~ 30		
			30.1 ~ 40		
FWMS (SS400)	21~30 (1mm increments)	3 (T \geq 3) 4 (T \geq 3) 5 (T \geq 3) 6 (T \geq 3) 8 (T \geq 4) 10 (T \geq 5) 12 (T \geq 6) 16 (T \geq 6) 20 (T \geq 8)	3.0 ~ 5		
			5.1 ~ 10		
			10.1 ~ 20		
			20.1 ~ 30		
			30.1 ~ 40		
FWMK (SKS3)	31~40 (1mm increments)	3 (T \geq 3) 4 (T \geq 3) 5 (T \geq 3) 6 (T \geq 3) 8 (T \geq 4) 10 (T \geq 5) 12 (T \geq 6) 16 (T \geq 6) 20 (T \geq 8)	3.0 ~ 5		
			5.1 ~ 10		
			10.1 ~ 20		
			20.1 ~ 30		
			30.1 ~ 40		
FWSS (SS400)	41~50 (1mm increments)	3 (T \geq 3) 4 (T \geq 3) 5 (T \geq 3) 6 (T \geq 3) 8 (T \geq 4) 10 (T \geq 5) 12 (T \geq 6) 16 (T \geq 6) 20 (T \geq 8)	3.0 ~ 5		
			5.1 ~ 10		
			10.1 ~ 20		
			20.1 ~ 30		
			30.1 ~ 40		

Ⓢ (D-M)/2 \geq 2 → Minimum required thickness on each side: 2 mm.
 Ⓢ T \leq M \times 8 → The maximum thickness is 8 times the tap diameter.

Catalog No.	D	V 0.1mm increments	P 0.1mm increments	H 0.1mm increments	T 0.1mm increments	Base unit price	
						FWZS 1~9 pieces	FWZK 1~9 pieces
(Counterbore type)	9~20 (0.5mm increments)	5~45	3~43	1~48	3.0 ~ 5		
					5.1 ~ 10		
					10.1 ~ 20		
					20.1 ~ 30		
					30.1 ~ 40		
FWZS (SS400)	21~30 (1mm increments)	5~45	3~43	1~48	3.0 ~ 5		
					5.1 ~ 10		
					10.1 ~ 20		
					20.1 ~ 30		
					30.1 ~ 40		
FWZK (SKS3)	31~40 (1mm increments)	5~45	3~43	1~48	3.0 ~ 5		
					5.1 ~ 10		
					10.1 ~ 20		
					20.1 ~ 30		
					30.1 ~ 40		
FWSS (SS400)	41~50 (1mm increments)	5~45	3~43	1~48	3.0 ~ 5		
					5.1 ~ 10		
					10.1 ~ 20		
					20.1 ~ 30		
					30.1 ~ 40		

Ⓢ (D-V)/2 \geq 2 → Minimum required thickness on each side: 2 mm
 Ⓢ (V-P) \geq 2 → A step of 1 mm or more on each side is required.
 Ⓢ P \times 8 \geq (T-H) \geq 2 → Diameter length of shaft portion is minimum 2 mm and maximum P \times 8.

Ⓢ (D-V)/2 \geq 2 Minimum required thickness on each side: 2 mm.

Order Catalog No. - D - V - M - P - H - T
 FWSS - D20 - V5 - - - - T2.0
 FWMS - D15 - - M3 - - - - T3.5
 FWZS - D20 - V10 - - P5 - H10 - T20

Days to Ship **Quotation**

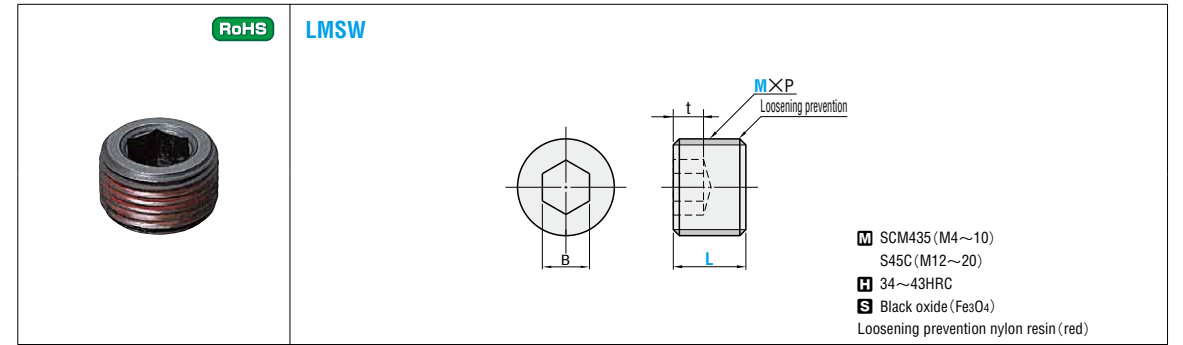
Price **Quotation**

Alterations Catalog No. - D - V - T - (TKC)
 FWSS - D20 - V5 - T2.0 - TKC2

Alteration	Code	Spec.	1Code
	TKC1	Thickness tolerance change	
	TKC2	Code Tolerance	Code 1Code
	TKC3	TKC1 ±0.05	TKC1
	TKC3	TKC2 ±0.01	TKC2 (Quotation)

SCREW PLUGS FOR LOOSENING PREVENTION

Ⓢ M4~M10 coarse thread, M12~M20 fine thread (pitch 1.5)



M \times P	L	B	t	Catalog No.		Base unit price		Volume discount unit price			
				Type	M	1~19 pcs.	20~49 pcs.	50~99 pcs.	100~500 pcs.		
4	0.7	4	2	1.5	LMSW	4					
5	0.8	5	2.5	2		5					
6	1.0	6	3	3.5		6					
8	1.25	8	4	5		8					
10	1.5	10	5	6		10					
12	1.5 (fine thread)		6	5		12					
16		12	8	5		16					
20	10		6	6		20					

Quotation

Order Catalog No. LMSW 10

Days to Ship **Quotation**

Overview

The screw plug has been coated with a water-based type of loosening prevention agent that is composed primarily of nylon.

Features

- Highly suitable for repeated use.
- Because a double nut is not necessary, it is possible to reduce the number of machining man-hours for dies and other items.
- Re-tightening adjustments can be made at any time.
- Excellent chemical resistance.