

For heat insulation
SUS416

WASHER (RISER PADS)

For heat insulation
SUS416

FREE WASHERS

—PLAIN/ FOR COUNTERSUNK BOLT / COUNTERBORE—

Material	Coefficient of thermal conductivity [cal/cm·sec·°C] (100°C)	Coefficient of thermal expansion [×10 ⁻⁶ /°C] (100°C)
SUS416	0.058	9.9
S50C	0.120	11.5

1cal/cm·sec·°C=418.6W/(m·K)

Ⓜ Non JIS material definition is listed on P.1351 - 1352

RPSK (Dowel pin type)

VH7	d	t
8	+0.015	0
10	0	0
12	+0.018	0
13	0	0

Part Number Type D V T U/Price 1~19

RPSK	25	8 10	10	Quotation
			15	
			20	
	30	8 10 12	10	
			15	
			20	
40	10 12 13	10		
		15		

RPSB (Bolt type)

Applicable bolt size	d	t
M 6	6.2	7
M 8	8.2	9
M10	10.2	11
M12	12	13
M16	17	17

Part Number Type D M (Applicable bolt size) Selection T U/Price 1~19

RPSB	25	6 8 10	10	Quotation
			15	
			20	
	30	8 10 12 16	10	
			15	
			20	
40	8 10 12 16	15		
		20		

RPST (For flat head screw)

Applicable bolt size	d	t
M 6	6.2	3.5
M 8	8.2	4.6
M10	10.2	5.7

Part Number Type D M (Applicable bolt size) Selection T U/Price 1~19

RPST	30	6 8	10	Quotation
			15	
40	6 8 10	10		
		15		

RPSZ (Counterbore type)

Applicable bolt size	d	d1	h
M 6	6.2	11	6.5
M 8	8.2	14	8.6
M10	10.2	17.5	10.8
M12	12.2	20	13

Part Number Type D M (Applicable bolt size) Selection T U/Price 1~19

RPSZ	25	6	10	Quotation
			15	
			20	
	30	6	10	
			15	
			20	
40	6	15		
		20		

Order Part Number - V, M - T

RPSK30 - V12 - T15

RPSB40 - M12 - T20

Days to Ship **Quotation**

Price **Quotation**

Alterations Part Number - V, M - T - (MK · TK1 · TK2 · TK3)

RPSZ30 - M8 - T15 - MK

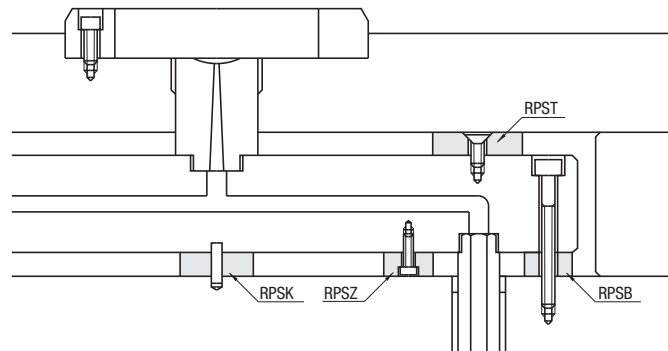
Alterations	Code	Spec.	1Code
	MK	Adds a groove on both sides in order to facilitate insulation. Express services not available. RPSK · RPSB Forming marks sometimes remain on the bottom face of the formed groove.	Quotation
	TK1	Changes T dimension tolerance. All pieces are grinded together when 20 pieces or less are ordered. (Although T dimension tolerance is as stated in the left table, variation will be limited within 0.01.)	
	TK2		
	TK3		

ex Example

SUS416 has a small heat transmission rate and is effective in cutting off heat.

Material	Thermal conductivity coefficient [cal/cm·sec·°C] (100°C)	Thermal expansion coefficient [×10 ⁻⁶ /°C] (100°C)
SUS416	0.058	9.9
S50C	0.120	11.5

1cal/cm·sec·°C=418.6W/(m·K)



MWSCS (Plain)

MWFBS (For countersunk bolt)

MWZCS (Counterbore)

Part Number Type D T V P H U/Price 1~9

MWSCS	5.0~10.0	1.0~5.0	3.0~70.0	3.0~68.0	1.0~48.0	Quotation	
							5.1~10.0
							10.1~20.0
	10.1~20.0	5.1~10.0	3.0~70.0	3.0~68.0	1.0~48.0		
							10.1~20.0
							20.1~30.0
20.5~30.0	5.1~10.0	3.0~70.0	3.0~68.0	1.0~48.0			
					10.1~20.0		
					20.1~30.0		
30.5~40.0	5.1~10.0	3.0~70.0	3.0~68.0	1.0~48.0			
					10.1~20.0		
					20.1~30.0		
40.5~60.0	5.1~10.0	3.0~70.0	3.0~68.0	1.0~48.0			
					10.1~20.0		
					20.1~30.0		
60.5~80.0	5.1~10.0	3.0~70.0	3.0~68.0	1.0~48.0			
					10.1~20.0		
					20.1~30.0		
80.5~100.0	5.1~10.0	3.0~70.0	3.0~68.0	1.0~48.0			
					10.1~20.0		
					20.1~30.0		

Part Number	D	T	V	P	H	MWZCS	MWFBS	MWSCS
Plain MWSCS	5.0~10.0	1.0~5.0	3.0~70.0	3.0~68.0	1.0~48.0	Quotation		
							5.1~10.0	
							10.1~20.0	
	10.1~20.0	5.1~10.0	3.0~70.0	3.0~68.0	1.0~48.0			
							10.1~20.0	
							20.1~30.0	
20.5~30.0	5.1~10.0	3.0~70.0	3.0~68.0	1.0~48.0				
					10.1~20.0			
					20.1~30.0			
30.5~40.0	5.1~10.0	3.0~70.0	3.0~68.0	1.0~48.0				
					10.1~20.0			
					20.1~30.0			
40.5~60.0	5.1~10.0	3.0~70.0	3.0~68.0	1.0~48.0				
					10.1~20.0			
					20.1~30.0			
60.5~80.0	5.1~10.0	3.0~70.0	3.0~68.0	1.0~48.0				
					10.1~20.0			
					20.1~30.0			
80.5~100.0	5.1~10.0	3.0~70.0	3.0~68.0	1.0~48.0				
					10.1~20.0			
					20.1~30.0			

Order Part Number - D - T - V - P - H

MWSCS - D20.0 - T6.0 - V6.0

MWFBS - D20.0 - T6.0 - V6.0 - H3.0

MWZCS - D20.0 - T6.0 - V6.0 - P4.0 - H3.0

Alterations Part Number - D - T - V - P - H - (SSC · WSC · TK)

MWFBS - D30.0 - T3.0 - V10.0 - H1.0 - TK1

Alterations	Code	Spec.	1Code
	SSC	Cuts a face. SSC=1mm increments SSC≧V/2+2 SSC≦D/2-1 Not available for D5~D8.	Quotation
	WSC	Cuts two faces. WSC=1mm increments WSC≧V+4 WSC≦D-2 Not available for D5~D8.	
	TK	Changes T dimension tolerance. TK1: T±0.1 → T±0.01 TK2: T±0.1 → T±0.02 TK3: T±0.1 → T±0.005 T dimension can be designated in 0.01mm increments when using TK1, TK2, TK3.	

Ⓜ Note that designated tolerance of TK alteration is different from that of free washer (P.1199) and free washer (Right page).

Boils
Screws
Washers