

Gussets

Through/Counterbored Holes, Hole Position Fixed

Features: Through holes and counterbored holes are selectable. In addition, hole on either A side or B side can be changed to tapped holes.

Type			Material	Surface Treatment
Standard Grade (Perpendicularity: 0.05/100)	Counterbored Hole	Precision Grade (Perpendicularity: 0.02/100)		
RBDS	RBYS	RGDS	Steel for General Structure	-
RBDB	RBYS	RGDB		Black Oxide
RBDM	RBYS	RGDM		Electroless Nickel Plating
RBDA	RBYA	RGDA	Aluminum Alloy	Clear Anodize
RBDA	RBYA	RGDA		Black Anodize
RBDV	RBVY	RGDV		-
RBDF	-	RGDF	SUS304	-

⊗ B200 or more are not available for Precision Type and Counterbored Type.

Select hole types by part numbers.

Hole and Bolt Selection Table

Hole Type	Through Hole	Counterbored Hole
Shape		
Dimension	Screw Nominal Dia. 4 5 6 d 5.5 6.5 9	Screw Nominal Dia. 4 5 6 d 4.5 5.5 6.5 d1 8 9.5 11 h 4.4 5.4 7

Details Listed in Dimensional Section

When A=30 or 50

A	a1	C
30	20	8
50	35	(When B is 100 or less) 17

B	b1	b2	E
30	20	- *	(When A=30) 8 (When A=50) 12
50	35	- *	(When A=30) 8 (When A=50) 12
80	50	15	(When A=30) 8 (When A=50) 12
100	60	20	12
150	90	30	20

T	Through Hole (Screw Nominal Dia.)	Counterbored Hole (Screw Nominal Dia.)
10, 12	5	4
16	8	6

* 1 mounting hole for B50 or less.
* The nominal diameter is the recommended screw size. For details of dimension, see Hole and Bolt Selection Table.

When A=80, 100 or 150

A	a1	a2	C
80	50	15	(When B is 100 or less) 20 (When B is 150 or more) 25
100	60	20	(When B is 150 or less) 25 (When B is 200 or more) 35
150	90	30	40

B	b1	b2	b3	E
80	50	15	- *	(When A=80) 20 (When A=100) 25
100	60	20	- *	(When A=80) 20 (When A=100) 25 (When A=150) 40
150	90	30	- *	30
200	140	20	20	40
250	160	30	30	40
300	180	40	40	40

T	Through Hole (Screw Nominal Dia.)	Counterbored Hole (Screw Nominal Dia.)
12	6	5
16	8	6

* 2 mounting holes for B150 or less.
* The nominal diameter is the recommended screw size. For details of dimension, see Hole and Bolt Selection Table.

Standard Grade Through Hole / Counterbored Hole (⊗ B200 or more are not available for Counterbored Hole Type.)

Part Number Type	A	B Selection					T Selection		
		SS400	A5052, SUS304	SS400	A5052, SUS304	SS400	A5052, SUS304		
Through Hole (SS400) RBDS RBDB RBDM (A5052) RBDA RBDW RBDV (SUS304) RBDF	30	30	50	80	100	12	10		
	50	50	80	100	12	10			
		150	12	16	12	16			
		80	80	100	150	200	250	12	16
		100	100	150	200	250	300	12	16
150	150	200	250	300	12	16			

Precision Grade - Through Hole

Part Number Type	A	B Selection					T Selection	
		SS400	A5052, SUS304	SS400	A5052, SUS304	SS400	A5052, SUS304	
Through Hole (SS400) RGDS RGDB RGDM (A5052) RGDA RGDW RGDV (SUS304) RGDF	30	30	50	80	100	12	10	
	50	50	80	100	12	10		
		150	12	16	12	16		
		80	80	100	150	12	16	
		100	100	150	200	12	16	
150	150	200	250	12	16			

Ordering Example: Part Number - B - T
RBDA100 - 150 - T12

Alterations: Part Number - B - T - (ASY, BSY)
RBYB100 - 150 - T16 - ASY5

Alteration	Code	Spec.
	ASY	Changes holes to tapped holes. Hole diameters are selectable.
	BSY	Changes the hole on side A --- ASY4 Change of the hole on side B --- BSY5
	BSY5	⊗ Tapped hole may go through.

Calculation Example of Unit Price
RBDA100-150-T16
A+B=Dimension + B Dimension = 100+150=250

Calculation Example of Precision Grade
RGDA100-150-T16

A+B	Standard Grade Tolerance Unit Price (Tolerance Precision Type: Price in the Table x1.1.)																
	Through Hole							Counterbored Hole									
	SS400		A5052		SUS304			SS400		A5052		SUS304					
	RBDS	RBDB	RBDM	RBDA	RBDW, RBDV	RBDF	RBYS	RBDB	RBDM	RBDA	RBDW, RBDV	RBDF	RBYS	RBDB	RBDM	RBDA	RBDW, RBDV
	T=12	T=16	T=12	T=16	T=12	T=16	T=12	T=16	T=12	T=16	T=12	T=16	T=12	T=16	T=12	T=16	T=12
60																	
80																	
100																	
110																	
130																	
150																	
160																	
180																	
200																	
230																	
250																	
280																	
300																	
330																	
350																	
400																	
450																	