


# Gussets

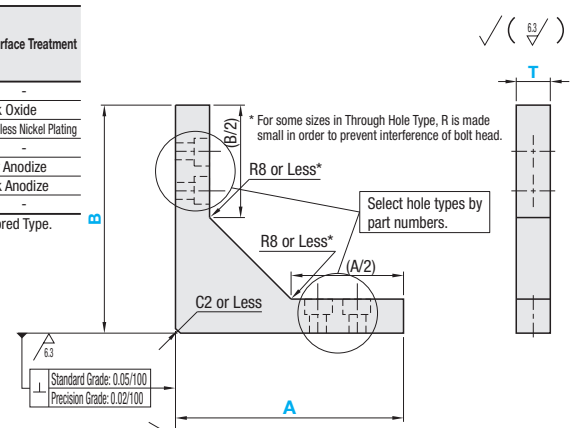
## Through/Counterbored Holes, Hole Position Fixed

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

**RoHS**



Type		Material	Surface Treatment
Standard Grade (Perpendicularity: 0.05/100)	Precision Grade (Perpendicularity: 0.02/100)		
Through Hole	Counterbored Hole		
RBDS	RBYS	1018 Carbon Steel	Black Oxide Electroless Nickel Plating
RBDB	RBYS		
RBDM	RBYM		
RBDW	RBWA		
RBDA	RBWA	5052 Aluminum Alloy	Clear Anodize Black Anodize
RBDV	RBVW		
RBDW	RBVW		
RBDV	RBVW		
RBDF	-	304 Stainless Steel	-
-	RGDF		

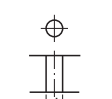
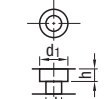


For some sizes in Through Hole Type, R is made small in order to prevent interference of bolt head.

Select hole types by part numbers.

Standard Grade: 0.05/100  
Precision Grade: 0.02/100

**Hole and Bolt Selection Table**

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

**When A=30 or 50**

A	a1	C
30	20	8
50	35	(When B is 100 or less) 12 (When B=150) 17

**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
30	20	-	-	8
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

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

Part Number	Type	A	B	T
Through Hole (1018 Carbon Steel)	Counterbored Hole (1018 Carbon Steel)	30	30 50 80 100	12 10
RBDS	RBYS	50	50 80 100	12 10
RBDB	RBYS	80	80 100 150 200 250	12 16 12 16
RBDM	RBYM	100	100 150 200 250 300	12 16 12 16
RBDW	RBWA	150	150 200 250 300	12 16 12 16
RBDV	RBVW			
RBDF				

**Precision Grade - Through Hole**

Part Number	Type	A	B	T
Through Hole (1018 Carbon Steel)	Counterbored Hole (1018 Carbon Steel)	30	30 50 80 100	12 10
RGDS	RGYS	50	50 80 100	12 10
RGDB	RGYS	80	80 100 150 200 250	12 16 12 16
RGDM	RGYM	100	100 150 200 250 300	12 16 12 16
RGDA	RGWA	150	150 200 250 300	12 16 12 16
RGDV	RGVW			
RGDF				

**Ordering Example** Part Number - B - T

Example: RBDA100 - 150 - T12

**Alterations** Part Number - B - T - (ASY, BSY)

Example: RBYB100 - 150 - T16 - ASY5

**Alteration** Code Spec. Price Adder

Alteration	Code	Spec.	Price Adder
Changes holes on either side A or side B to tapped holes. Hole diameters are selectable.	ASY	T Screw Nominal Dia. (M)	
Change of the hole on side A	ASY4	10 4.5	
Change of the hole on side B	BSY5	12 4.5, 6	
Tapped hole may go through.		16 5, 6, 8	


A+B	Standard Grade Tolerance Unit Price (Tolerance Precision Type: Price in the table x1.1.)																						
	Through Hole								Counterbored Hole														
	1018 Carbon Steel				5052 Aluminum Alloy				1018 Carbon Steel				5052 Aluminum Alloy										
60	RBDS	T=12	T=16	RBDB	T=12	T=16	RBDW	T=10, 16	T=12	T=10, 16	T=12	RBYS	T=12	T=16	RBYM	T=10, 16	T=12	RBWA	T=10, 16	T=12	RBVW	T=10, 16	T=12
80																							
100																							
110																							
130																							
150																							
160																							
180																							
200																							
230																							
250																							
280																							
300																							
330																							
350																							
400																							
450																							

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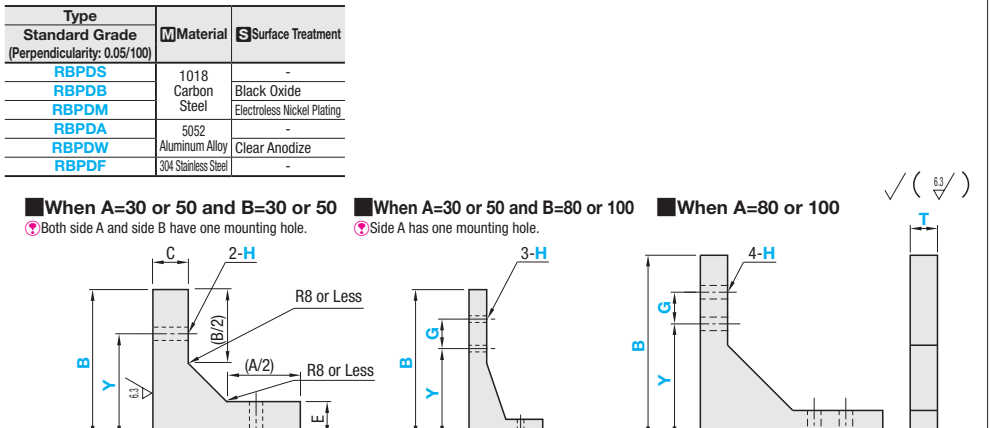
## Through Hole, Hole Position Configurable

**Feature:** The mounting hole pitch can be configured. When the mounting hole pitch does not match with the fixed dimension (Through Hole) on the left-hand page, the following standard is available.

**RoHS**



Type	Material	Surface Treatment
Standard Grade (Perpendicularity: 0.05/100)		
RBPDS	1018 Carbon Steel	-
RBPDB		Black Oxide
RBPDM		Electroless Nickel Plating
RBPDA	5052 Aluminum Alloy	-
RBPDW		Clear Anodize
RBPDF	304 Stainless Steel	-



When A=30 or 50 and B=30 or 50: Both side A and side B have one mounting hole.

When A=30 or 50 and B=80 or 100: Side A has one mounting hole.

When A=80 or 100: Side A has one mounting hole.

Dimension	H (Nominal Dia.)				
Hole Dia.	3	4	5	6	8
	3.5	4.5	5.5	6.5	9

Part Number	Type	A	B	1mm Increment				H	T		C	E
				Side A Hole Pitch		Side B Hole Pitch			1018 Carbon Steel	5052 Aluminum Alloy 304 Stainless Steel		
				X	F	Y	G					
(1018 Carbon Steel) RBPDS, RBPDB, RBPDM		30	30 50	20-24	-	-	-	3 4 5	12	10	8	8
(5052 Aluminum Alloy) RBPDA, RBPDW		50	80 100	30-44	-	-	-				12	12
(304 Stainless Steel) RBPDF		80	80 100	50-56	F ≥ Hx2 and X+F ≤ A-8 or 0*3	Y ≥ (B/2)+8	G ≥ Hx2 and Y+G ≤ B-8 or 0*3	5 6 8	12	12	20	20
		100	100 150	60-76							25	25

\*1. When A=30 or 50, side A has 1 mounting hole and specification of F dimension is not required.  
 \*2. When B=30 or 50, side B has 1 mounting hole and specification of G dimension is not required.  
 \*3. When 0 is specified for F and G dimensions, 1 mounting hole is provided.

**Ordering Example** Part Number - B - X - F - Y - G - H - T

Example: RBPDS50 - 100 - X40 - F0 - Y90 - G15 - H6 - T12

**Days to Ship** [Configure Online](#)

**Price** [Configure Online](#)

A+B	Unit Price					
	1018 Carbon Steel		5052 Aluminum Alloy		304 Stainless Steel	
	RBPDS	RBPDB	RBPDM	RBPDA	RBPDW	RBPDF
60						
80						
100						
110						
130						
150						
160						
180						
200						
250						