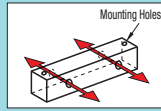


# Terminal Blocks - Hydraulic

## Vertical Through Hole



For details of recommended tapered male thread tightening torque and through pilot holes, see P.1224.

By inserting "G-" before part number, "PT Threads (Tapered Female Threads)" can be changed to "PF Threads (Parallel Female Threads)" in compliance with "JIS B 0202" (Unit Price remains the same).

Type		Pitch (P) Standard		Pitch (P) Configurable		Material	Surface Treatment	Max. Operating Pressure
20 Sq.	30x35 Sq.	50 Sq.	60 Sq.	20 Sq.	30x35 Sq.			
BTSB	BTS	BTSFL	BTSL	-	BTSP	BTSFLP	SS400	Trivalent Chromate Electroless Nickel Plating
BTSBM	BTSM	BTSFLM	-	-	-	-	Steel for General Structure (BTSM) (BTSFLM)	
BTSBR	BTSR	BTSFLR	-	BTSBRP	BTSRP	BTSFLRP	SUS304	1MPa=10kgf/cm <sup>2</sup> or less
-	BTSS	-	-	-	-	-	SUS316	
-	BTSC	-	-	-	-	-	Brass	1MPa=10kgf/cm <sup>2</sup> or less

Ⓜ BTSSP (SUS316, 30x35 Sq., Pitch Configurable) is available on our website.

Number of Circuits 1, 2, 3

Standard hole shape

Mounting Hole Dimension	d	D	h	D1	d1	h1
M5	5.5	9.5	5.5	8	4.2	4.5
M6	6.6	11	6.5	9.5	5.1	5.5
M8	8.5	14	8.5	11	6.8	6.5

\* Only for SUS304, d1 dimension is 4.3.  
Thread: JIS B0203 Rc (PT)  
JIS B0202 G (PF): ISO 228-1 Compatible  
ANSI/ASME B.1.20.1-1983 (NPT)

• Mounting Hole Change  
Through Hole (NA) Tapped Hole (T) Counterbore Tapped Hole (ZT)

\* Drawing for 3 Circuit Type is selected. The total number of R and S threads is 6.  
Ⓜ Mounting hole shape can be selected freely.  
Ⓜ Standard hole shape is selected when no hole shape modification is specified.

<L Dimension Calculation>  
Ex.: For BTSP3- -P35, L=NxP+2E= (Number of Circuits 3 - 1) x 35 + 2 x 20 = 110

Part Number	Type	Mounting Hole Change	Rc (PT), NPT Selection	Pitch P		Number of Pitches	Total Number of R and S Threads	A	B	E	X	Y	Mounting Hole
				Standard	Configurable 1mm Increment								
Pitch Standard BTBS BTSM BTSR BTSS BTSC	Pitch Configurable	NA (Through)	1 (1/8)	25	15~50	0	2	20	20	20	7.5	10	M5
						1	4						
						2	6						
						3	8						
						4	10						
						5	12						
						6	14						
						7	16						
Pitch Standard BTS BTSM BTSR BTSS BTSC	Pitch Configurable	T (Tapped)	1 (1/8) 2 (1/4) 3 (3/8) 1N (NPT1/8) 2N (NPT1/4) 3N (NPT3/8)	35	25~50	0	2	30	35	20	7.5	17.5	M6
						1	4						
						2	6						
						3	8						
						4	10						
						5	12						
						6	14						
						7	16						
Pitch Standard BTSFL BTSFLM BTSFLR	Pitch Configurable	ZT (Counterbore Tapped)	2 (1/4) 3 (3/8) 4 (1/2) 6 (3/4)	60	35~60 40~60	0	2	50	50	30	7.5	25	M8
						1	4						
						2	6						
						3	8						
						4	10						
						5	12						
						6	14						
						7	16						
Pitch Standard BTSL	Pitch Configurable	-	6 (3/4) 8 (1)	60	-	0	2	60	60	40	10	30	M8
						1	4						
						2	6						
						3	8						

Ⓜ By inserting "G-" before part number, the thread type can be changed to the G (PF) Thread as part of ordering. (Ex: G-BTA) For ordering, see the Ordering Example.

Ⓜ For R and S, specify 1, 2, 3, 4, 5, M3, M4, 1N or 2N indicated before ( ). Ⓜ Single Circuit is not available for Pitch Configurable Type. Ⓜ SUS316 or Brass is for up to 6 connections.

Ⓜ Specify the pitch taking into consideration the necessary dimensions for fitting the couplings. Ⓜ Each 6 and 8 Circuit Type has an additional mounting hole at the midpoint of the overall length. 7 Circuit Type has an additional mounting hole at each midpoint of the 2 - 3 port pitch, and 5 - 6 port pitch from the left to the right. (Except 20 Sq.)

Part Number	Type	Mounting Hole Change	Number of Circuits	R	S	P
BTS	-	-	4	R3	S2	-
BTSFLP	NA	4	-	R4	S3	P50
G-BTSFLP	NA	4	-	R4	S3	P50 (G Thread)

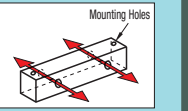
Ordering Example

Part Number	Type	Mounting Hole Change	Number of Circuits	R	S	P
BTA	T	-	3	R1	S2	-
BTAP	ZT	4	-	R2	S2	P50
G-BTAP	ZT	4	-	R2	S2	P50 (G Thread)

Number of Circuits	Pitch (P) Standard						Pitch (P) Configurable										
	20 Sq.		30x35 Sq.		50 Sq.		20 Sq.		30x35 Sq.		50 Sq.						
1	BTSB	BTSBM	BTSBR	BTS	BTSM	BTSR	BTSS	BTSC	BTSFL	BTSFLM	BTSFLR	BTSL	BTSBRP	BTSP	BTSRP	BTSFLP	BTSFLRP
2																	
3																	
4																	
5																	
6																	
7																	
8																	

# Terminal Blocks - Pneumatic

## Vertical Through Hole



For details of recommended tapered male thread tightening torque and through pilot holes, see P.1224.

By inserting "G-" before part number, "PT Threads (Tapered Female Threads)" can be changed to "PF Threads (Parallel Female Threads)" in compliance with "JIS B 0202" (Unit Price remains the same).

Type		Pitch (P) Standard		Pitch (P) Configurable		Material	Surface Treatment	Max. Operating Pressure
15 Sq.	20 Sq.	25 Sq.	35 Sq.	20 Sq.	25 Sq.			
-	BTANC	BTA	BTANL	BTANCP	BTAP	BTANLP	AS052 (BTANSA) (BTANC) (BTANCA) (BTANL) (BTANLA) (BTANCP) (BTANCAP) (BTANLP)	1MPa=10kgf/cm <sup>2</sup> or less
BTANSA	BTANCA	BTAA	BTANLA	BTANCAP	-	-	Aluminum Alloy (BTA) (BTAA) (BTAP)	

Ⓜ Material of 15 Sq. is A6063.  
Clear Anodize

Number of Circuits 1, 2, 3

Standard hole shape

Mounting Hole Dimension	d	D	h	D1	d1	h1
M4	4.3	-	-	-	-	4.5
M5	5.5	9.5	5.5	8	4.2	4.5
M6	6.6	11	6.5	9.5	5.1	5.5

Thread: JIS B0203 Rc (PT)  
JIS B0202 G (PF): ISO 228-1 Compatible  
ANSI/ASME B.1.20.1-1983 (NPT)

• Mounting Hole Change  
Through Hole (NA) Tapped Hole (T) Counterbore Tapped Hole (ZT)

\* Drawing for 3 Circuit Type is selected. The total number of R and S threads is 6.  
Ⓜ Mounting hole shape can be selected freely.  
Ⓜ Standard hole shape is selected when no hole shape modification is specified.  
Note that the default of 15 Sq. and 20 Sq. is Through Hole.

<L Dimension Calculation>  
Ex.: For BTAP3- -P35, L=NxP+2E= (Number of Circuits 3-1) x 35 + 2 x 20 = 110

Part Number	Type	Mounting Hole Change	Rc (PT), NPT, M (Coarse) Selection	Pitch P		Number of Pitches	Total Number of R and S Threads	A	B	E	X	Y	Mounting Hole	
				Standard	Configurable 1mm Increment									
Pitch Standard BTANSA	Pitch Configurable	T (Tapped)	R, S	M3 (M3) M4 (M4) M5 (M5)	15	-	0	2	15	15	15	5	7.5	M4
							1	4						
							2	6						
							3	8						
							4	10						
							5	12						
							6	14						
							7	16						
Pitch Standard BTANC BTANCA	Pitch Configurable	T (Tapped)	1 (1/8) M3 (M3) M4 (M4) M5 (M5)	15	15~50	0	2	20	20	20	5	10	M5	
						1	4							
						2	6							
						3	8							
						4	10							
						5	12							
						6	14							
						7	16							
Pitch Standard BTA BTAA	Pitch Configurable	NA (Through)	1 (1/8) 2 (1/4) 5 (M5) 1N (NPT1/8) 2N (NPT1/4)	25	20~60 25~60	0	2	25	25	20	7.5	12.5	M5	
						1	4							
						2	6							
						3	8							
						4	10							
						5	12							
						6	14							
						7	16							
Pitch Standard BTANL BTANLA	Pitch Configurable	ZT (Counterbore Tapped)	2 (1/4) 3 (3/8) 4 (1/2)	40	35~60	0	2	35	35	25	7.5	17.5	M6	
						1	4							
						2	6							
						3	8							
						4	10							
						5	12							
						6	14							
						7	16							

Ⓜ By inserting "G-" before part number, the thread type can be changed to the G (PF) Thread as part of ordering. (Ex: G-BTA) For ordering, see the Ordering Example.

Ⓜ For R and S, specify 1, 2, 3, 4, 5, M3, M4, 1N or 2N indicated before ( ). Ⓜ Single Circuit is not available for Pitch Configurable Type. Ⓜ Specify the pitch taking into consideration the necessary dimensions for fitting the couplings.

Ⓜ Each 6 and 8 Circuit Type has an additional mounting hole at the midpoint of the overall length. 7 Circuit Type has an additional mounting hole at each midpoint of the 2 - 3 port pitch, and 5 - 6 port pitch from the left to the right. (Except 15 and 20 Sq.)

Ordering Example

Part Number	Type	Mounting Hole Change	Number of Circuits	R	S	P
BTA	T	-	3	R1	S2	-
BTAP	ZT	4	-	R2	S2	P50
G-BTAP	ZT	4	-	R2	S2	P50 (G Thread)

Number of Circuits	Pitch (P) Standard						Pitch (P) Configurable				
	15 Sq.		20 Sq.		25 Sq.		20 Sq.		25 Sq.		35 Sq.
1	BTANSA	BTANC	BTANCA	BTA	BTAA	BTANL	BTANLA	BTANCP	BTANCAP	BTAP	BTANLP
2											
3											
4											
5											
6											
7											
8											