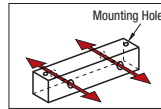


# Terminal Blocks (Hydraulic)



Manifolds

**Terminal Blocks – Hydraulic**

Type	Pitch (P) Standard			Pitch (P) Configurable			Material	Surface Treatment	Max. Operating Pressure
	20 Sq	30 x 35 Sq	50 Sq	20 Sq	30 x 35 Sq	50 Sq			
BTSB	BTS	BTSFL	BTSL	—	BTSP	BTSFLP	General Structural Steel	Trivalent Chromate	20.6 MPa = 210 kgf/cm <sup>2</sup> or Less
BTSBM	BTSM	BTSFLM	—	—	—	—	304 Stainless Steel	Electroless Nickel Plating	
BTSBR	BTSR	BTSFLR	—	BTSBRP	BTSRP	BTSFLRP	316 Stainless Steel	—	1 MPa = 10 kgf/cm <sup>2</sup> or Less
—	BTSS	—	—	—	—	—	316 Stainless Steel	—	
—	BTSC	—	—	—	—	—	Brass	—	—

Ⓢ BTSSP (316 Stainless Steel, 30x35 Square, Pitch Configurable) is available on our website.

**Standard Mounting Hole**

Mounting Hole Dimension	d	D	h	D <sub>1</sub>	d <sub>1</sub>	h <sub>1</sub>
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 304 Stainless Steel d, dimension is 4.3.  
Thread JIS B0203 Rc(PT)  
JIS B0202 G(PF): ISO 228-1 Compatible  
ANSI / ASME B1.20.1-1983 (NPT)

**Mounting Hole Change**

Through Hole (NA)	Tapped Hole (T)	Counterbore Tapped Hole (ZT)

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

**L Dimension Calculation**  
Ex.: a: For BTSP3—P35, L = N x P + 2E = (No. of Circuits 3-1) x 35 + 2 x 20 = 110

Part Number	Type	Mounting Hole Options	Circuits	Rc (PT), NPT	Pitch P		No. of Pitches N	R / S Total No. of Threads	A	B	E	X	Y	Mounting Hole M					
					Standard	Configurable 1 mm Inc.													
Pitch Standard BTSB BTSBM BTSBR	Pitch Configurable BTSBRP	NA (Through)	1	R, S	25	15-50	0	2	20	20	20	7.5	10	M5					
			2				1	4											
			3				2	6											
			4				3	8											
			5				4	10											
			6				5	12											
			7				6	14											
			8				7	16											
Pitch Standard BTS BTSM BTSR BTSS BTSC	Pitch Configurable BTSP BTSRP	NA (Through)	1	R, S	35	25-50	0	2	30	35	20	7.5	17.5	M6					
			2				1	4											
			3				2	6											
			4				3	8											
		T (Tapped)	5				1N (NPT 1/8)	4							10	5	12	6	14
			6				2N (NPT 1/4)	5							12		7		16
			7				3N (NPT 3/8)	6							14				
			8					7							16				
Pitch Standard BTSFL BTSFLM BTSFLR	Pitch Configurable BTSFLP BTSFLRP	ZT (Counterbore Tapped)	1	R, S	60	35-60	0	2	50	50	30	7.5	25	M8					
			2				1	4											
			3				2	6											
			4				3	8											
			5				4	10											
			6				5	12											
			7				6	14											
			8				7	16											
Pitch Standard BTSL			1	R, S	60		0	2	60	60	40	10	30	M8					
			2				1	4											
			3				2	6											
			4				3	8											

- Ⓢ For G (PF) Thread please place an order specified with G- before part number. (Ex: G-BTS) For ordering, see the Ordering Example. Ⓢ For R and S, specify 1, 2, 3, 4, 6, 8, 1N, 2N or 3N indicated before ( ).
- Ⓢ Single Circuit is not available for Pitch Configurable Type. Ⓢ 316 Stainless Steel and Brass is 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 from the left, 2 and 3 port pitch, and 5 and 6 port pitch. (Except 20 Square)

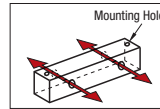
**Part Number Example**

Type	Mounting Hole Options	No. of Circuits	R	S	P
BTS		4	R3	S2	
BTSFLP	NA	4	R4	S3	P50
G-BTSFLP	NA	4	R4	S3	P50 (G Thread)

BTSB
BTSBM
BTSBR
BTS  
BTSM
BTSR
BTSS
BTSC  
BTSFL
BTSFLM
BTSFLR
BTSL  
BTSBRP
BTSP
BTSRP
BTSFLRP

Circuits	Available Types																
	20 SQ.				30 x 35 SQ.				50 SQ.		60 SQ.		20 SQ.		30 x 35 SQ.		50 SQ.
	BTSB	BTSBM	BTSBR	BTS	BTSM	BTSR	BTSS	BTSC	BTSFL	BTSFLM	BTSFLR	BTSL	BTSBRP	BTSP	BTSRP	BTSFLP	BTSFLRP
1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

# Terminal Blocks Pneumatic



Manifolds

**Terminal Blocks – Pneumatic**

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	5052 Aluminum Alloy	Clear Anodize	1 MPa = 10 kgf/cm <sup>2</sup> or Less
BTANSA	BTANCA	BTA	BTANLA	BTANCAP	—	—	—	—	—

Ⓢ Material of 15 square is 6063 Aluminum Alloy.

**Standard Mounting Hole**

Mounting Holes Dimension	d	D	h	D <sub>1</sub>	d <sub>1</sub>	h <sub>1</sub>
M4	4.3	—	—	—	—	—
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 R (PT)  
JIS B0202 G (PF): ISO 228-1 Compatible  
ANSI / ASME B1.20.1-1983 (NPT)

**Mounting Hole Options**

Through Hole (NA)	Tapped (T)	Counterbore Tapped (ZT)

\* Drawing is for when 3-Circuit type is selected. The total number of R and S ports is six.  
Ⓢ Mounting holes can be selected.  
Ⓢ Standard hole shape is selected when no hole shape modification is specified.  
Note that the default of 15 Square and 20 Square is Through Hole.

**L Dimension Calculation**  
Ex.: In the Case of BTSP3-P35, L = N x P + 2E = (No. of Circuits 3-1) x 35 + 2 x 20 = 110

Part Number	Type	Mounting Hole Change	Circuits	Rc (PT), NPT, M (Coarse)	Pitch P		No. of Pitches N	R / S Total No. of Threads	A	B	E	X	Y	Mounting Hole M				
					Standard Type	1 mm Increment												
Pitch Standard BTANSA	Pitch Standard BTANCA	T (Tapped)	1	M3 (M3) M4 (M4) 5 (M5)	15	—	0	2	15	15	15	5	7.5	M4				
			2				1	4										
			3				2	6										
			4				3	8										
			5				4	10										
			6				5	12										
			7				6	14										
			8				7	16										
Pitch Standard BTANC BTANCA	Pitch Standard BTANCP BTANCAP	T (Tapped)	1	1 (1/8) M3 (M3) M4 (M4) 5 (M5)	15	15-50	0	2	20	20	20	5	10	M5				
			2				1	4										
			3				2	6										
			4				3	8										
			5				4	10										
			6				5	12										
			7				6	14										
			8				7	16										
Pitch Standard BTA BTAA	Pitch Standard BTAP	NA (Through)	1	1 (1/8) 2 (1/4) 5 (M5) 1N (NPT 1/8) 2N (NPT 1/4)	25	20-60	0	2	25	25	20	7.5	12.5	M5				
			2				1	4										
			3				2	6										
			4				3	8										
		T (Tapped)	5				4	10							5	12	6	14
			6				5	12								7		16
			7				6	14										
			8				7	16										
Pitch Standard BTANL BTANLA	Pitch Configurable BTANLP	ZT (Counterbore Tapped)	1	2 (1/4) 3 (3/8) 4 (1/2)	40	35-60	0	2	35	35	25	7.5	17.5	M6				
			2				1	4										
			3				2	6										
			4				3	8										
			5				4	10										
			6				5	12										
			7				6	14										
			8				7	16										

- Ⓢ BTANCP, BTANCAP, BTAP, and BTANLP are not available with Single Circuit (1).
- Ⓢ For G (PF) Thread please place an order specified with G- before part number. (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 from the left, 2 and 3 port pitch, and 5 and 6 port pitch. (Except 15 and 20 Square)

**Part Number Example**

Type	Mounting Hole Options	No. 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)