


# Terminal Blocks (Hydraulic / Pneumatic)

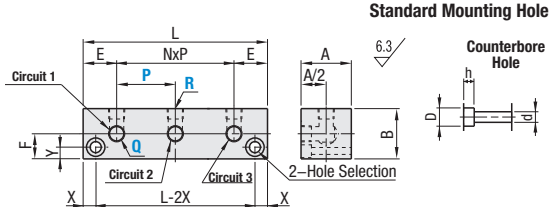
**Terminal Blocks – Hydraulic**



RoHS 10

Type										Material	Surface Treatment	Max. Operating Pressure
Pitch (P) Standard					Pitch (P) Configurable							
20 Sq	30 Sq	40 Sq	50 Sq	60 Sq	70 Sq	30 Sq	40 Sq	50 Sq	60 Sq			
BTL5B	BTL5	BTL5K	BTL5FL	BTL5FLK	BTL5L	BTL5P	BTL5KP	BTL5FLP	BTL5FLKP	General Structural Steel	Trivalent Chromate Electroless Nickel Plating	20.6 MPa = 210 kgf/cm <sup>2</sup> or Less
—	BTL5M	BTL5MK	BTL5FLM	BTL5FLKM	—	BTL5MP	BTL5MKP	—	—			
BTL5BR	BTL5R	BTL5RK	BTL5FLR	—	—	BTL5RP	BTL5RKP	—	—	304 Stainless Steel	—	1 MPa = 10 kgf/cm <sup>2</sup> or Less
—	BTL5S	—	—	—	—	—	—	—	—	316 Stainless Steel	—	
—	BTL5C	—	—	—	—	—	—	—	—	Brass	—	

**Standard Mounting Hole**






**Mounting Holes Dimension**

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

\* For 304 Stainless Steel d<sub>1</sub> dimension is 4.3.

Thread JIS B0203 R (PT)  
JIS B0202 G (PF); ISO 228-1 Compatible  
ANSI / ASME B1.20.1-1983 (NPT)

**Mounting Hole Change**

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

**L Dimension Calculation**  
Ex.: In the Case of BTL5P3-P35  
L = N x P + 2E = (Number of Circuits 3-1) x 35 + 2 x 20 = 110

\*Drawing is when 3-Circuit type is selected. The total number of Q and R threads is 6.

Ⓢ Mounting holes can be selected.  
Ⓢ Standard hole shape is selected when no hole shape modification is specified, through-hole is selected.

Part Number	Type	Mounting Hole Options	Circuits	Rc (PT), NPT	Pitch P		No. of Pitches N	Q / R Total No. of Threads	A	B	E	F	X	Y	Mounting Hole M	
					Standard	Configurable 1 mm Inc.										
Pitch Standard BTL5B BTL5BR	20 SQ.	NA (Through)	1	Q / R	1 (1/8)	25	—	0	2	20	20	20	10	6	6	M5
			2													
			3													
			4													
			5													
			6													
			7													
			8													
Pitch Standard BTL5M BTL5SM BTL5SR	30 SQ.	NA (Through)	1	Q / R	1 (1/8)	35	—	0	2	30	30	20	15	7.5	7	M6
			2													
			3													
			4													
			5													
			6													
			7													
			8													
Pitch Standard BTL5K BTL5MK BTL5RK	40 SQ.	T (Tapped)	1	Q / R	1 (1/8)	35	—	0	2	40	40	20	20	7.5	7	M6
			2													
			3													
			4													
			5													
			6													
			7													
			8													
Pitch Standard BTL5FL BTL5FLM BTL5FLR	50 SQ.	ZT (Counterbore Tapped)	1	Q / R	2 (1/4)	60	—	0	2	50	50	30	25	7.5	8	M8
			2													
			3													
			4													
			5													
			6													
			7													
			8													
Pitch Standard BTL5FLK BTL5FLKM	60 SQ.	ZT (Counterbore Tapped)	1	Q / R	2 (1/4)	60	—	0	2	60	60	30	30	7.5	8	M8
			2													
			3													
			4													
			5													
			6													
			7													
			8													
Pitch BTL5L	70 SQ.	ZT (Counterbore Tapped)	1	Q / R	6 (3/4)	60	—	0	2	70	70	40	35	10	9	M8
			2													
			3													
			4													

Ⓢ For G (PF) Thread please place an order specified with G- before part number. (Ex: G-BTL5) For ordering, see the Ordering Example.

Ⓢ For Q and R, specify 1, 2, 3, 4, 6, 8, 1, 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)

Ⓢ For Block Square 30 Type, when 3 and 8 is selected for Q and R, tapered male threads may interfere with each other. Select Block Square 40 Type instead. Ⓢ For Block Square 50 Type, when 3 and 4 is selected for Q and R, tapered male threads may interfere with each other. Select Block Square 60 Type instead.

**Part Number Example**

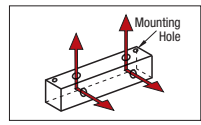
Part Number:  Q - R - K

Type:  Mounting Hole Options:  No. of Circuits:  - Q - R - K


BTL5 BTL5FLP NA 5 - Q3 - R2  
BTL5FLP NA 4 - Q4 - R3 - P50

Circuits	Available Types														
	20 SQ.		30 SQ.				40 SQ.				50 SQ.		60 SQ.		70 SQ.
	BTL5B	BTL5BR	BTL5	BTL5M	BTL5R	BTL5K	BTL5MK	BTL5RK	BTL5FL	BTL5FLM	BTL5FLR	BTL5FLK	BTL5FLKM	BTL5L	
1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	

# Terminal Blocks (Pneumatic)



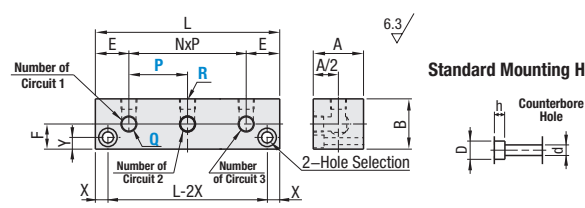
**Terminal Blocks – Pneumatic**



RoHS 10

Type										Material	Surface Treatment	Normal Pressure
Pitch (P) Standard					Pitch (P) Configurable							
15 Sq	20 Sq	25 Sq	35 Sq	50 Sq	20 Sq	25 Sq	35 Sq	50 Sq				
BTLAS	BTLAC	BTLA	BTLAK	BTLAL	BTLACP	BTLAP	BTLAKP	BTLALP	Aluminum Alloy	Clear Anodize	1 MPa = 10 kgf/cm <sup>2</sup> or Less	
—	BTLACA	BTLAA	—	—	BTLACAP	BTLAAP	BTLAAKP	BTLALAP				

Ⓢ 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
M8	8.5	14	8.5	11	6.8	6.5

Thread JIS B0203 R (PT)  
JIS B0202 G (PF); ISO 228-1 Compatible  
ANSI / ASME B1.20.1-1983 (NPT)

**Mounting Hole Change**

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

**L Dimension Calculation**  
Ex.: In the Case of BTLAP3-P35  
L = N x P + 2E = (Number of Circuits 3-1) x 35 + 2 x 20 = 110

Ⓢ Mounting holes can be selected.  
Ⓢ Standard hole shape is selected when no hole shape modification is specified, except when 15/20 Square is not specified, through-hole is selected.

\*Drawing is for when 3-Circuit type is selected. The total no. of Q and R threads is 6.

Part Number	Type	Mounting Hole Options	No. of Circuits	Rc(PT), NPT, M (Coarse)	Pitch P		No. of Pitches N	Q / R Total No. of Threads	A	B	E	F	X	Y	Mounting Hole M
					Standard	Configurable 1 mm Inc.									
Pitch Standard BTLAS	15 SQ.	T (Tapped)	1	M3 (M3) M4 (M4) 5 (M5)	15	—	0	2	15	15	15	7.5	5	3.5	M4
			2												
			3												
			4												
			5												
			6												
			7												
			8												
Pitch Standard BTLAC BTLACA	20 SQ.	T (Tapped)	1	1 (1/8) M3 (M3) M4 (M4) 5 (M5)	15	15-50	0	2	20	20	20	10	5	4	M5
			2												
			3												
			4												
			5												
			6												
			7												
			8												
Pitch Standard BTLA BTLAA	25 SQ.	NA (Through)	1	1 (1/8) 2 (1/4) 5 (M5) 1N (NPT 1/8) 2N (NPT 1/4)	25	20-60 25-60	0	2	25	25	20	12.5	7.5	7	M5
			2												
			3												
			4												
			5												
			6												
			7												
			8												
Pitch Standard BTLAK BTLAKP	35 SQ.	T (Tapped)	1	1 (1/8) 2 (1/4) 5 (M5) 1N (NPT 1/8) 2N (NPT 1/4)	25	20-60 25-60	0	2	35	35	20	17.5	7.5	7	M5
			2												
			3												
			4												
			5												
			6												
			7												
			8												
Pitch Standard BTLAL BTLALP	50 SQ.	ZT (Counterbore Tapped)	1	2 (1/4) 3 (3/8) 4 (1/2)	40	35-60	0	2	50	50	25	25	8.5	8.5	M8
			2												
			3												
			4												
			5												
			6												
			7												
			8												

Ⓢ For G (PF) Thread please place an order specified with G- before part number. (Ex: G-BTL5) For ordering, see the Ordering Example. Ⓢ For Q and R, 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. Ⓢ For 15 Square and 20 Square, only Tapped Hole is available.

Ⓢ 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)

Ⓢ For Block Square 25 Type, when 1 and 4 is selected for both tapered threads at right angles, the male threads may interfere with each other. Select Block Square 35 Type instead.

**Part Number Example**

Part Number:  Q - R - P

Type:  Mounting Hole Options:  No. of Circuits:  - Q - R - P

BTLA T 4 - Q2 - R1  
BTLAP ZT 5 - Q2 - R2 - P50  
G-BTLAP ZT 5 - Q2 - R2 - P50 (G Thread)

Circuits	Available Types																
	15 SQ.		20 SQ.		25 SQ.		35 SQ.		50 SQ.		20 SQ.		25 SQ.		35 SQ.		50 SQ.
	BTLAS	BTLAC	BTLA	BTLAK	BTLAL	BTLACP	BTLAP	BTLAKP	BTLALP	BTLAA	BTLAAP	BTLAAKP	BTLALP	BTLAA	BTLAAP	BTLAAKP	BTLALP
1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•