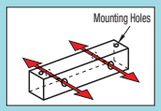
Terminal Blocks - Hydraulic

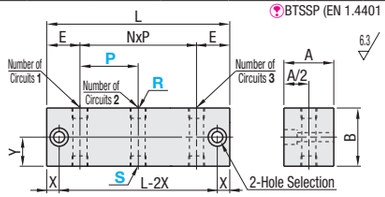
Vertical Through Hole



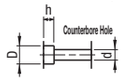
For details of recommended tapered male thread tightening torque and through pilot holes, see **P.1224**.
By inserting "G-" before part number, "PT Threads (Tapered Female Threads)" can be changed to "PF Threads (Parallel Female Threads)" in compliance with "JIS B 0202" (Unit Price remains the same).

Type							Material	Surface Treatment	Max. Operating Pressure
Pitch (P) Standard				Pitch (P) Configurable					
20 Sq.	30x35 Sq.	50 Sq.	60 Sq.	20 Sq.	30x35 Sq.	50 Sq.			
BTSB	BTS	BTSFL	BTSL	-	BTSP	BTSFLP	EN 1.0038 Equiv.	Trivalent Chromate / Electroless Nickel Plating	20.6MPa≈210kgf/cm² or less
BTSBM	BTSM	BTSFLM	-	-	-	-			
BTSBR	BTSR	BTSFLR	-	BTSBRP	BTSRP	BTSFLRP	EN 1.4301 Equiv.		
-	BTSS	-	-	-	-	-	EN 1.4401 Equiv.	-	
-	BTSC	-	-	-	-	-	Brass		1MPa≈10kgf/cm² or less

BTSSP (EN 1.4401 Equiv., 30x35 Sq., Pitch Configurable) is available on our website.



• 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 EN 1.4301 Equiv., d1 dimension is 4.3.

Thread: JIS B0203 Rc (PT)
JIS B0202 G (PF): ISO 228-1 Compatible
ANSI/ASME B.I.20.1-1983 (NPT)

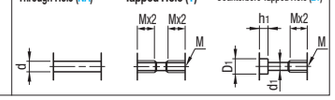
* Drawing for **3 Circuit Type** is selected. The total number of R and S threads is 6.

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 x20 = 110

• Mounting Hole Change

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



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Part Number			Rc (PT), NPT Selection	Pitch P		Number of Pitches	Total Number of R and S Threads	A	B	E	X	Y	Mounting Hole
Type	Mounting Hole Change	Number of Circuits	R, S	Standard	Configurable 1mm Increment	N							M
(20 Sq.)		1		-	-	0	2						
		2				1	4						
		3				2	6						
Pitch Standard / Pitch Configurable		4				3	8						
BTSB / BTSBM / BTSBR / BTSBRP		5	1 (1/8)	25	15~50	4	10	20	20	20	7.5	10	M5
		6				5	12						
		7				6	14						
		8				7	16						
(30x35 Sq.)		1		-	-	0	2						
		2	1 (1/8)			1	4						
Pitch Standard / Pitch Configurable	NA (Through)	3	2 (1/4)			2	6						
BTS / BTSP		4	3 (3/8)			3	8						
BTSM		5	1N (NPT1/8)	35	25~50	4	10	30	35	20	7.5	17.5	M6
BTSR / BTSRP	T (Tapped)	6	2N (NPT1/4)			5	12						
BTSS		7	3N (NPT3/8)			6	14						
BTSC	ZT (Counterbore Tapped)	8				7	16						
(50 Sq.)		1		-	-	0	2						
		2	2 (1/4)			1	4						
Pitch Standard / Pitch Configurable		3	3 (3/8)			2	6						
BTSFL / BTSFLP		4	4 (1/2)	60	35~60	3	8	50	50	30	7.5	25	M8
BTSFLM		5	6 (3/4)			4	10						
BTSFLR / BTSFLRP		6			40~60	5	12						
(60 Sq.)		1		-		0	2						
		2	6 (3/4)			1	4						
Pitch Standard		3	8 (1)	60	-	2	6	60	60	40	10	30	M8
BTSL		4				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-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. 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.)

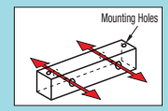
Part Number: Type | Mounting Hole Change | Number of Circuits - R - S - P

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)

Number of Circuits	Pitch (P) Standard Unit Price												Pitch (P) Configurable Unit Price				
	20 Sq.			30x35 Sq.					50 Sq.			60 Sq.	20 Sq.	30x35 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

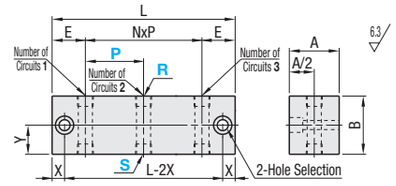
Vertical Through Hole



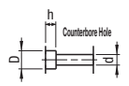
For details of recommended tapered male thread tightening torque and through pilot holes, see **P.1224**.
By inserting "G-" before part number, "PT Threads (Tapered Female Threads)" can be changed to "PF Threads (Parallel Female Threads)" in compliance with "JIS B 0202" (Unit Price remains the same).

Type							Material	Surface Treatment	Max. Operating Pressure
Pitch (P) Standard			Pitch (P) Configurable						
15 Sq.	20 Sq.	25 Sq.	35 Sq.	20 Sq.	25 Sq.	35 Sq.			
-	BTANC	BTA	BTANL	BTANCP	BTAP	BTANLP	Aluminum Alloy 5000 series	-	1MPa≈10kgf/cm² or less
BTANSA	BTANCA	BTAA	BTANLA	BTANCAP	-	-		Clear Anodize	

Material of 15 Sq. is EN AW-6063 Equiv.



• Standard hole shape



Mounting Hole Dimension	d	D	h	D1	d1	h1
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 Rc (PT)
JIS B0202 G (PF): ISO 228-1 Compatible
ANSI/ASME B.I.20.1-1983 (NPT)

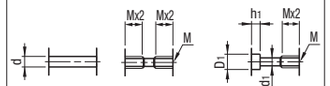
* Drawing for **3 Circuit Type** is selected. The total number of R and S threads is 6.

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

• Mounting Hole Change

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



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Part Number			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
Type	Mounting Hole Change	Number of Circuits	R, S	Standard	Configurable 1mm Increment	N							M
(15 Sq.)		1		-	-	0	2						
		2				1	4						
		3				2	6						
Pitch Standard		4	M3 (M3)			3	8						
BTANSA		5	M4 (M4)	15	-	4	10	15	15	15	5	7.5	M4
		6	5 (M5)			5	12						
		7				6	14						
		8				7	16						
(20 Sq.)	T (Tapped)	1		-	-	0	2						
		2				1	4						
Pitch Standard / Pitch Configurable		3	1 (1/8)			2	6						
BTANC / BTANCP		4	M3 (M3)			3	8						
BTANCA / BTANCAP		5	M4 (M4)	15	15~50	4	10	20	20	20	5	10	M5
		6	5 (M5)			5	12						
		7				6	14						
		8				7	16						
(25 Sq.)		1		-	-	0	2						
		2				1	4						
Pitch Standard / Pitch Configurable		3	1 (1/8)			2	6						
BTA / BTAP		4	2 (1/4)			3	8						
BTAA		5	5 (M5)	25	20~60	4	10	25	25	20	7.5	12.5	M5
	NA (Through)	6	1N (NPT1/8)			5	12						
		7	2N (NPT1/4)		25~60	6	14						
	T (Tapped)	8				7	16						
(35 Sq.)		1		-	-	0	2						
		2				1	4						
Pitch Standard / Pitch Configurable		3	2 (1/4)			2	6						
BTANL / BTANLP	ZT (Counterbore Tapped)	4	3 (3/8)			3	8						
BTANLA		5	4 (1/2)	40	35~60	4	10	35	35	25	7.5	17.5	M6
		6				5	12						
		7				6	14						
		8				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

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