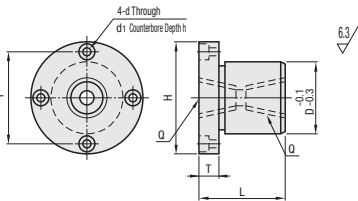


Plumbing Terminals

Flanged

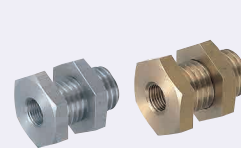


Type	Material	Surface Treatment	Accessory	Max. Operating Pressure
BTLF	EN 1.1191 Equiv.	Trivalent Chromate	Hex Socket Head Cap Screw (Stainless Steel)	20.6MPa
BTLFA	EN AW-5052 Equiv.	-	-	1MPa
BTLFC	Free-Cutting Brass	-	-	6.9MPa
BTLFS	EN 1.4301 Equiv.	-	4 pcs.	20.6MPa

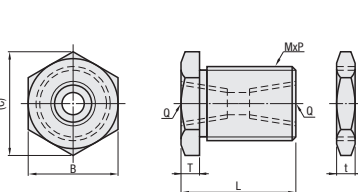


Part Number		Rc (PT)		H	D	T	L	P	d	d1	h	Included Screw (4 pcs.)	Unit Price			
Type	No.	Q											BTLF	BTLFA	BTLFC	BTLFS
BTLF BTLFA BTLFC BTLFS	1	1/8	35	15	7	20	25	4.5	8	4.4	SCB4-10					
	2	1/4	50	25	8	30	38	5.5	9.5	5.4	SCB5-10					
	3	3/8														
	4	1/2	65	35	10	45	50	6.6	11	6.5	SCB6-12					

Hex



Type	Material	Surface Treatment	Accessory	Max. Operating Pressure
BTLH	EN 1.1191 Equiv.	Trivalent Chromate	Hex Nut 1 pc.	20.6MPa
BTLHA	EN AW-5052 Equiv.	-	-	1MPa
BTLHC	Free-Cutting Brass	-	-	6.9MPa
BTLHS	EN 1.4301 Equiv.	-	-	20.6MPa

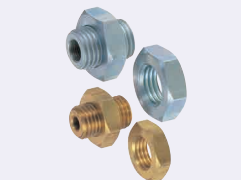


* Mx. pressure of No. 5 / 5-S is less than 1MPa.

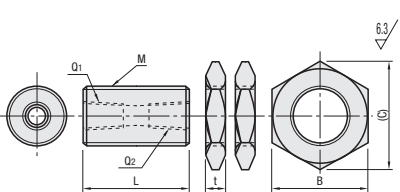
Part Number		Rc (PT)		B	(C)	MxP	L	T	Included Nut t	Unit Price			
Type	No.	Q								BTLH	BTLHA	BTLHC	BTLHS
Standard BTLH BTLHA BTLHC BTLHS	1	1/8	24	26.8	16x2.0	30	5	8					
	2	1/4	46	50.9	30x3.5	45	8	15					
	3	3/8	46	50.9	30x3.5	45	8	15					
	4	1/2	55	60.8	36x4	60	10	18					
	5	M5	24	26.8	16x2.0	30	5	8		-			

Part Number		Rc (PT)		B	(C)	MxP	L	T	Included Nut t	Unit Price			
Type	No.	Q								BTLH	BTLHC	BTLHS	
L Short BTLH BTLHC BTLHS	1-S	1/8	22	25.4	16x1.5	16	5	7					
	2-S	1/4	27	31.2	20x1.5	22	5	7					
	3-S	3/8	32	36.9	24x1.5	26	8	10					
	4-S	1/2	36	41.6	30x1.5	31	8	10					
	5-S	M5	19	21.9	12x1.5	15	5	7					

Fully Thread



Type	Material	Surface Treatment	Accessory	Max. Operating Pressure
BTLR	EN 1.1191 Equiv.	Trivalent Chromate	Hex Nut 2 pcs.	20.6MPa
BTLRA	EN AW-5052 Equiv.	-	-	1MPa
BTLRC	Free-Cutting Brass	-	-	6.9MPa
BTLRS	EN 1.4301 Equiv.	-	-	20.6MPa



NPT Tips have steps for identification on NPT side.

Part Number		Rc (PT)		M (Coarse)	L	Included Nut			Unit Price			
Type	No.	Q1	Q2			t	B	(C)	BTLR	BTLRA	BTLRC	BTLRS
BTLR BTLRA BTLRC BTLRS	1	1/8		16	30	8	24	26.8				
	1-1N	1/8	NPT1/8							-	-	
	2	1/4		30	45	15	46	50.9		-	-	
	3	3/8										
	4	1/2		36	60	18	55	60.8				



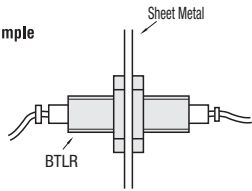
Ordering Example

Part Number

BTLF3
BTLH1-S



Example

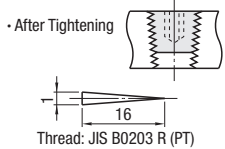
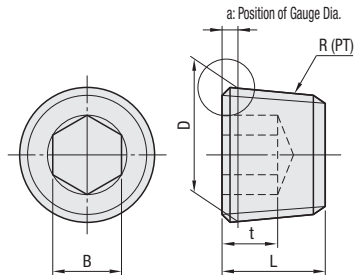


Can be positioned freely because it has no shoulder.

Tapered Screw Plugs



Type		Material	Hardness	Surface Treatment
Without Thread Coating	Thread Coated Type			
MSWT	MSWTK	EN 1.7220 Equiv.	32~42HRC	Black Oxide
MSWTM	MSWTMK	EN 1.7220 Equiv.	-	Electroless Nickel Plating
MSWTS	MSWTSK	EN 1.4567 Equiv.	-	-
MSWTP	-	PEEK	-	-



Gauge diameter at the position a is a theoretical value. For No. J, S, 1, actual maximum screw diameter may be smaller due to end chamfering.

RoHS10

Allowable temperature for Thread Coated Type is 150°C.

Part Number		D	a	L	B	t	R (PT)
Type	No.						
MSWT MSWTM	*J	7.723	0.45	6	4	3.0	1/16
	*S	7.779	0.47	6.4	4 ^{+0.03 -0.032}	3.1	
(Without Thread Coating) MSWT (Thread Coated Type) MSWTK MSWTM MSWTMK MSWTS MSWTSK MSWTP	1	9.728	0.45 (1.5)	7 (8)	5	3.5 (5)	1/8
	2	13.157	0.7 (1.8)	8.9 (11)	6	4.5 (7.6)	1/4
	3	16.662	0.7 (2.0)	10 (12)	8	5 (8)	3/8
	4	20.955	0.9	12	10	6	1/2
	6	26.441		14	14	7	3/4
	8	33.249	1.1	16.5	17	9	1

* S of MSWT is an ANSI standard screw. For installation, use hex key wrench 5/32 inch. J of MSWT is a JIS standard screw. Dimensions in () are for MSWTP.

No.	MSWTM		MSWTS		MSWTP	
	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
	1 ~ 99 pcs.	100~300	1 ~ 99 pc(s).	100~300	1 ~ 99 pc(s).	100~300
*J						
*S					-	-
1						
2						
3						
4					-	-
6					-	-
8					-	-

For orders larger than indicated quantity, please check with WOS.

No.	MSWTK		MSWTMK		MSWTSK	
	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
	1 ~ 99 pc(s).	100~200	1 ~ 99 pc(s).	100~200	1 ~ 99 pc(s).	100~200
1						
2						
3						
4						
6						
8						

For orders larger than indicated quantity, please check with WOS.



Ordering Example

Part Number

MSWTJ
MSWTSK3