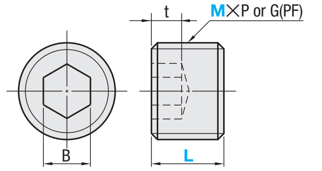
M2.5～M10 are Coarse thread, while M12～M45 (Pitch1.5) are fine thread.

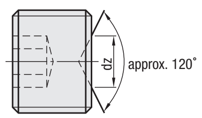
■Parallel screw plug

MSW (Metric thread type)
MSWS (Metric thread short type)
D-MSW (Parallel pipe thread type)



M			
MSW	SCM435 (M2.5～10) S45C (M12～45)	H	34～43HRC
MSWS	S45C	S	Black Oxide (Fe_3O_4) (Class 2 JIS B 0207)
D-MSW	C3604		

■MSW : Dimensions and shape of cup point



Part No.	dz max.
MSW3	1.4
MSW4	2.0
MSW5	2.5

Note that the tips of MSW 3, 4 and 5 are the "cup points".

■Metric thread type

M×P		L	B	t	Part No. Type	M
2.5	0.45	3	1.3	1.2	MSW	2.5
3	0.5	3	1.5			3*
4	0.7	4	2	1.5		4*
5	0.8	5	2.5	2		5*
6	1.0	6	3	3.5		6
8	1.25	8	4	5		8
10	1.5	10	5	6		10
12	1.5 (Fine thread)		6	5		12
14						14
16			8			16
18			10			18
20		12		6		20
22			12			22
24			14			24
25						25
26						26
27						27
28						28
30			17			30
33						33
36		18		10		36
38						38
40						40
42						42
45						45

* The tips of MSW 3, 4 and 5 are the "cup points".

■Metric thread short type

M×P		L	B	t	Part No. Type	M-L
8	1.25	6	4	3	MSWS	8-6
10	1.5		5			10-6
12	1.5 (Fine thread)		6			12-6
14						14-6
16			8			16-6
18			10			18-6
20		8		4		20-8
22			12			22-8
24			14			24-8
25						25-8
26						26-8
27						27-8
28						28-8
30						30-8
33			17			33-8

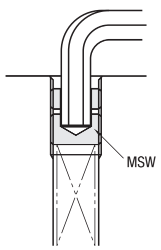
■Parallel pipe thread type

G(PF)	L	B	t	Part No. Type	No.
G1/8	8	5	4	D-MSW	1
G1/4	10	7	5		2
G3/8		8			3
G1/2		10			4

ex Example

■MSW・D-MSW
・Adjustment of fixing position is easy.

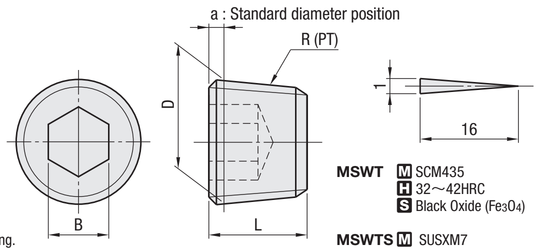
■Short type
・Short L dimension enables use in small space.
・Plate material to process tap hole and load on screw plug are to be concerned because the amount of threading on the screw is small.



■Tapered screw plug

MSWT (Tapered type)
MSWTS (Stainless, tapered type)

Thread part : JIS B 0203
Tapered thread R (PT) for tubing
*However, the thread part of MSWT No. S is ANSI B2.2. tapered thread (NPT) for American tubing.



MSWT	M	SCM435
	H	32～42HRC
	S	Black Oxide (Fe_3O_4)
MSWTS	M	SUSXM7

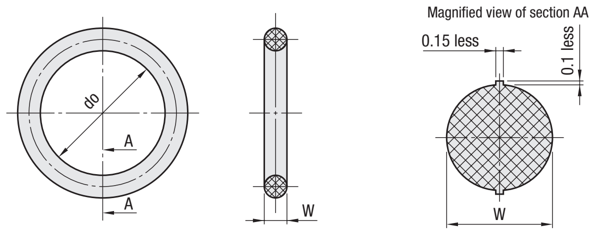
D	a	L	B	t	R(PT)	Part Number Type	No.
7.723	0.45	6	4	3.0	1/16	MSWT	*J
7.779	0.47	6.4	$4^{+0.03}_{-0.032}$	3.1			*S
9.728	0.45	7	5	3.5	1/8	MSWT MSWTS (Stainless)	1
13.157	0.7	8.9	6	4.5	1/4		2
16.662	0.7	10	8	5	3/8		3
20.955	0.9	12	10	6	1/2		4
26.441		14	14	7	3/4		6
33.249	1.1	16.5	17	9	1		8

No. of threads per 25.4mm. * MSWT No. S is ANSI thread; Use a 5/32" hex wrench for mounting. MSWT No. J is JIS thread.

Order

Part No.
D-MSW2
MSWT 4

PACK	Type
10PACK- (for 10pcs) 30PACK- (for 30pcs)	D-ORZ



max.℃	M
−15℃～150℃	Fluoric rubber

The operating temperature range is a reference value.

O-ring groove matching dimention (reference value) *d		*D, D1		do (inner diameter)		W (thickness)		Part No. Pack	Type	No.
3.2	$^{+0.15}_{0}$	5.4	$^{0}_{-0.15}$	3	±0.13	1.5	±0.07	10PACK 30PACK	D-ORZ	3 - 1.5
4		6.2		3.8		1.5	±0.07			3.8 - 1.5
4.2		6.4		4		1.5	±0.07			4 - 1.5
5		7.2		4.8		1.5	±0.07			4.8 - 1.5
5.2		7.4		5		1.5	±0.07			5 - 1.5
5.2		8.4				2	±0.08			5 - 2
6		8.2		5.8		1.5	±0.07			5.8 - 1.5
6.2		8.4		6		1.5	±0.07			6 - 1.5
6.2		9.4				2	±0.08			6 - 2
6.7		8.9		6.5	±0.14	1.5	±0.07			6.5 - 1.5
6.7		9.9				2	±0.08			6.5 - 2
7.7		9.9		7.5		1.5	±0.07			7.5 - 1.5
7.7		10.9				2	±0.08			7.5 - 2
8.2		10.4		8		1.5	±0.07			8 - 1.5
8.2		11.4				2	±0.08			8 - 2
8.7		11.9		8.5		2	±0.08			8.5 - 2
9.2		11.4		9		1.5	±0.07			9 - 1.5
9.2		12.4				2	±0.08			9 - 2
9.2		14.4				3	±0.09			9 - 3
9.7		11.9		9.5		1.5	±0.07			9.5 - 1.5
9.7		12.9				2	±0.08			9.5 - 2
10		12.2		9.8		1.5	±0.07			9.8 - 1.5
10.2		12.4		10		1.5	±0.07			10 - 1.5
10.2		13.4				2	±0.08			10 - 2
10.2		14.2				2.4	±0.08			10 - 2.4
10.7		12.9		10.5		1.5	±0.07			10.5 - 1.5
10.7		13.9				2	±0.08			10.5 - 2
11.2		13.4		11	±0.17	1.5	±0.07			11 - 1.5
11.2		14.4				2	±0.08			11 - 2
11.7		13.9		11.5		1.5	±0.07			11.5 - 1.5
11.7		14.9				2	±0.08			11.5 - 2
11.8		15.8		11.6		2.4	±0.08			11.6 - 2.4
12		14.8		11.8		1.8	±0.08			11.8 - 1.8
12		16				2.4	±0.08			11.8 - 2.4
12.2		14.4		12		1.5	±0.07			12 - 1.5
12.2		15.4				2	±0.08			12 - 2
12.2		16.4				2.5	±0.08			12 - 2.5
12.2		17.4				3	±0.09			12 - 3
12.62		15.38		12.42		1.78	±0.07			12.42 - 1.78
12.7		14.9		12.5		1.5	±0.07			12.5 - 1.5
12.7		15.9				2	±0.08			12.5 - 2

O-ring groove matching dimention (reference value) *d		*D, D1		do (inner diameter)		W (thickness)		Part No. Pack	Type	No.
13.2	$^{+0.15}_{0}$	15.4	$^{0}_{-0.15}$	13	±0.17	1.5	±0.07	10PACK 30PACK	D-ORZ	13 - 1.5
13.2		16.4				2	±0.08			13 - 2
13.5		17.5		13.3		2.4	±0.08			13.3 - 2.4
14.1		18.1		13.9		2.4	±0.08			13.9 - 2.4
14.2		17		14		1.8	±0.08			14 - 1.8
14.2		17.4				2	±0.08			14 - 2
14.2		19.4				3	±0.09			14 - 3
15.2		18		15		1.8	±0.08			15 - 1.8
15.2		19.4				2.5	±0.08			15 - 2.5
15.7		18.9		15.5		2	±0.08			15.5 - 2
15.8		18.56		15.6		1.78	±0.07			15.6 - 1.78
16.2		19.4		16		2	±0.08			16 - 2
16.2		20.4				2.5	±0.08			16 - 2.5
17.2		20		17		1.8	±0.08			17 - 1.8
17.2		20.4				2	±0.08			17 - 2
17.2		21.4				2.5	±0.08			17 - 2.5
18.2		21.4		18		2	±0.08			18 - 2
18.2		22.2				2.4	±0.08			18 - 2.4
18.2		22.4				2.5	±0.08			18 - 2.5
19.2		22.4		19	±0.22	2	±0.08			19 - 2
19.2		23.4				2.5	±0.08			19 - 2.5
20.2		23.4		20		2	±0.08			20 - 2
20.2		24.4				2.5	±0.08			20 - 2.5
20.49		24.93		20.29		2.62	±0.08			20.29 - 2.62
21.2		24.4		21		2	±0.08			21 - 2
21.5		25.5		21.3		2.4	±0.08			21.3 - 2.4
22.2		25.4		22		2	±0.08			22 - 2
22.2		26.4				2.5	±0.08			22 - 2.5
22.2		27.4				3	±0.09			22 - 3
23.6		27.4		23.3		2.4	±0.08			23.3 - 2.4
23.8		26.8		23.5		2	±0.08			23.5 - 2
23.77		28.01		23.47		2.62	±0.08			23.47 - 2.62
25.6		29.4		25.3		2.4	±0.08			25.3 - 2.4
27.6		31.4		27.3		2.4	±0.08			27.3 - 2.4
29.3		31.3		29		1.5	±0.07			29 - 1.5
36.3		39.3		36	±0.3	2	±0.08			36 - 2
39.64		43.88		39.34		2.62	±0.08			39.34 - 2.62
44		50		43.7	±0.36	3.5	±0.09			43.7 - 3.5
46.3		49.3		46		2	±0.08			46 - 2

Cooling Components