Locating Pins (Large, Small Head)

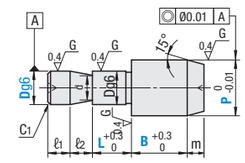
Set Screws Mounting Shank

Locating Pins – Large, Small Head / Set Screws Mounting Shank

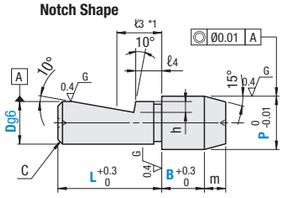
RoHS10

Materials No.	Material	Surface Treatment	Hardness	Type					
				Circumference Groove		Notch		Set Screw Flat	
				Round	Diamond	Round	Diamond	Round	Diamond
(1)	01 Tool Steel Equivalent	—	Treated Hardness: 60~63 HRC min.	JPGTS	JPGTD	JPCTS	JPCTD	JPDTS	JPDTD
(2)	01 Tool Steel Equivalent	Hard Chrome Plating	Hardness: 50~55 HRC min. Plating Hardness: 750 HV min.	GJPGTS	GJPGTD	GJPCTS	GJPCTD	GJPDTS	GJPDTD
(3)	304 Stainless Steel Equivalent	—	—	SJPGTS	SJPGTD	—	—	SJPDTS	SJPDTD
(4)	304 Stainless Steel Equivalent	Hard Chrome Plating	Plating Hardness 750 HV min.	HJPGTS	HJPGTD	HJPCTS	HJPCTD	—	—
(5)	440C or 420 Stainless Steel	—	Treated Hardness: 50~55 HRC min.	CJPGTS	CJPGTD	CJPCTS	CJPCTD	CJPDTS	CJPDTD

Circumference Groove Shape

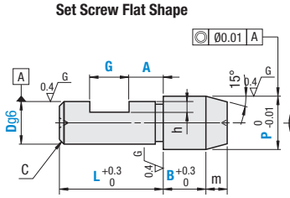


Notch Shape

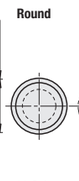


*1 ℓ3 is the recommended dimension of the position of set screw tip.

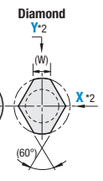
Set Screw Flat Shape



Round



Diamond



*2 Select set screw position X or Y for Diamond or Set Screw Flat Type.

! 440C or 420 Stainless Steel has an identification groove on D part.

! When D<P (Large Head)

! When D=P (Straight)

*Diamond-shape end has a relief.

! L>A+G+1

! When D>P (Small Head)

When D(P)≥3
a=1.0
d=D(P)-0.2

When D(P)<3
a=0.5
d=D(P)-0.1

! Relief dimension is reference value.

Circumference Groove Shape

Part Number			D Dimension Tolerance g6	P 0.01 mm Increment	L 1 mm Increment	B 0.1 mm Increment	d	ℓ_1	ℓ_2	m	C_1	(W)	
Type	Shape	D										When D<P	When D≥P
JPGT GJPGT SJPGT HJPGT CJPGT	S Round D Diamond	6	-0.004 -0.012	2.00–10.00	3–12	2.0–20.0	4.5	5	5	3	1	3	1.5
		6S			2–12			2			0.5		
		8	-0.005 -0.014	3.00–13.00	4–16	2.0–20.0 (15.0)	6.5	6	6	4	1.5	3.5	1.8
		8S			3–16			3			0.5		
		10		3.00–15.00	5–20	3.0–20.0	8	8	8		2	4	2.2
		10S			4–20			3			0.5		
		12	-0.006 -0.017	5.00–16.00	6–24	3.0–30.0 (25.0)	10	8			2	5	2.5
		12S			5–24			4			0.5		
		16		10.00–25.00	8–32	5.0–30.0	14	8		5	3	7	4
		16S			7–32			4			0.5		
		20	-0.007 -0.020	13.00–30.00	10–40		18	8			3	9	5

! B dimension with ( ) are applicable for diamond shape.
! Pins of with D value ending in S are for limited space with shorter mounting parts (L and ℓ_1). (Actual D dimension is the number without "S".)

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Notch Shape / Set Screw Flat Shape

Part Number			D	D Dimension Tolerance g6	P 0.01 mm Increment	L 1 mm Increment	B 0.1 mm Increment	G 1 mm Increment	A 0.1 mm Increment	Flat Position	ℓ_3	ℓ_4	h	C	m	Applicable Set Screws	(W)	
Type		Shape															When D<P	When D≥P
Notched	Set Screw Flat	S Round D Diamond	6	-0.004 -0.012	5.00–10.00	12–20	5.0–20.0	3–9	2.0–8.0	X Y	5.5	2.5	1.0	1	3	M4	3	1.5
JPCT	JPDT		8	-0.005 -0.014	5.00–13.00	14–22	5.0–30.0 (15.0)		2.0–12.0		7.5	3.5	1.2	1.5	4	M5	3.5	1.8
GJPCT	GJPDT		10		5.00–15.00	15–25	5.0–30.0 (25.0)		2.0–16.0		7.5	3.5	1.2	2	4	M6	4	2.2
HJPCT	SJPDT		12	-0.006 -0.017	5.00–16.00	15–25			2.0–20.0	! Applicable to diamond shape only.	7.5	3.5	1.2	2	4	M6	5	2.5
CJPCT	CJPDT		16		10.00–25.00	15–35	5.0–30.0		2.0–28.0		10.5	5.5	2.0	3	5	M8	7	4
			20	-0.007 -0.020	13.00–30.00	27–40			2.0–36.0		13.5	8.5	2.0	3	5	M8	9	5

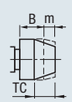
! B dimension with ( ) are applicable for diamond shape.
! Applicable set screws in the table are the recommended sizes for Notched Shape.

Part Number Example

Part Number	-	P	-	L	-	B	-	G	-	A	-	Flat Position
JPGTS10	-	P12.00	-	L6	-	B3.5						
JPDTD10	-	P10.05	-	L22	-	B7.5	-	G5	-	A14.3	-	X

D	Available Types for Circumference Groove									
	Round Shape					Diamond Shape				
	(1) JPGTS	(2) GJPGTS	(3) SJPGTS	(4) HJPGTS	(5) CJPGTS	(1) JPGTD	(2) GJPGTD	(3) SJPGTD	(4) HJPGTD	(5) CJPGTD
6	•	•	•	•	•	•	•	—	•	•
6S	•	•	•	•	•	•	•	—	•	•
8	•	•	•	•	•	•	•	—	•	•
8S	•	•	•	•	•	•	•	—	•	•
10	•	•	•	•	•	•	•	—	•	•
10S	•	•	•	•	•	•	•	—	•	•
12	•	•	•	•	•	•	•	—	•	•
12S	•	•	•	•	•	•	•	—	•	•
16	•	•	•	•	•	•	•	—	•	•
16S	•	•	•	•	•	•	•	—	•	•
20	•	•	•	•	•	•	•	—	•	•

D	Available Types for Notch								Available Types for Set Screw Flat							
	Round Shape				Diamond Shape				Round Shape				Diamond Shape			
	(1) JPCTS	(2) GJPCTS	(4) HJPCTS	(5) CJPCTS	(1) JPCTD	(2) GJPCTD	(4) HJPCTD	(5) CJPCTD	(1) JPDTS	(2) GJPDTS	(3) SJPDTS	(5) CJPDTS	(1) JPDTD	(2) GJPDTD	(3) SJPDTD	(5) CJPDTD
6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	—	—
6S	•	•	•	•	•	•	•	•	•	•	•	•	•	•	—	—
8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	—	—
8S	•	•	•	•	•	•	•	•	•	•	•	•	•	•	—	—
10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	—	—
10S	•	•	•	•	•	•	•	•	•	•	•	•	•	•	—	—
12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	—	—
12S	•	•	•	•	•	•	•	•	•	•	•	•	•	•	—	—
16	•	•	•	•	•	•	•	•	•	•	•	•	•	•	—	—
16S	•	•	•	•	•	•	•	•	•	•	•	•	•	•	—	—
20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	—	—

Alterations	Change the length of the tip taper part								
Code	TC								
Spec.	Chage for m dimenson. Ordering Code: TC (1mm Increments) - B+m≥TC+2 (Straight part min. 2mm) -P/2-TC x tan15° (°≈0.27)>0.(5 tip Ø1.0min.) - The B dimension changes depending on the TC designation. (Dimension B after change = B+m-TC)		D	TC	D	TC	D	TC	
			6	4-13	10	5-22	13	5-22	
			8	5-16	12		16	6-23	
							20		