



# Locating Pins - Hardened Stainless Steel - Spherical Small Head - Pressfit / Tapped -

Features: Sphere Small Head Type has been newly added to the Hardened Stainless Steel Locating Pin product line-up.

Material	Hardness	Pin Shape	Press Fit				Tapped	
			m6	p6	g6	h7	g6	h7
Hardened Stainless Steel	35HRC~	Round	AQSA	AQSPA	AQSGA	AQSHA	AQSTA	AQSTHA
		Diamond	AQSD	AQSPD	AQSGD	AQSHD	AQSTD	AQSTHD

When the diameter exceeds  $\phi 10$ , the center hardness may become 30HRC or more.

**Tolerance**

D or P	m6	p6	g6	h7
1.00-3.00	+0.008 +0.002	+0.012 +0.006	-0.002 -0.008	0 -0.010
3.01-6.00	+0.012 +0.004	+0.020 +0.012	-0.004 -0.012	0 -0.012
6.01-10.00	+0.015 +0.006	+0.024 +0.015	-0.005 -0.014	0 -0.015
10.01-18.00	+0.018 +0.007	+0.029 +0.018	-0.006 -0.017	0 -0.018
18.01-25.50	+0.021 +0.008	+0.035 +0.022	-0.007 -0.020	0 -0.021

**Pressfit**

Part Number	D	P	L	B	C	$\ell_1$	(W)
Type		0.01mm Increment	1mm Increment	0.1mm Increment			
<Round> AQSA(m6) AQSPA(p6) AQSGA(g6) AQSHA(h7)  <Diamond> AQSD(m6) AQSPD(p6) AQSGD(g6) AQSHD(h7)	3	1.00(2.00)-3.00	3(4)-10	2.0-10.0	0.5	1	1
	4	2.00-4.00					
	5	2.00-5.00					
	6	2.00-6.00					
	7	2.00-7.00					
	8	2.00(3.00)-8.00					
	9	2.00(3.00)-9.00	4(5)-20	2.0-15.0	1.5	1	1.2
	10	6.00-10.00					
	11	6.00-11.00					
	12	6.00-12.00					
	13	6.00-13.00					
	15	6.00-15.00					
	16	6.00-16.00					
	18	8.00-18.00					
	20	13.00-20.00					
	22	13.00-22.00					
	24	13.00-24.00	20-27 20-30 20-33 5.0-30.0	2.0-20.0	2	2	1.5
	25	13.00-25.00					
	26	20-27					
	27	20-30					
28	20-33						

**Tapped**

Part Number	D	P	L	B	M	*Tightening Torque N·cm	$\ell_2$	(W)
Type		0.01mm Increment	1mm Increment	0.1mm Increment	(Corse)			
<Round> AQSTA(g6) AQSTHA(h7)  <Diamond> AQSTD(g6) AQSTHD(h7)	6	4.00-6.00	8(9)-12	2.0-12.0	M3	147	5	1.5
	8	6.00-8.00	11(12)-16	2.0-15.0	M4	333	6	1.8
	10	7.00-10.00	11(12)-20	3.0-20.0	M5	676	8	2.2
	12	7.00-12.00						
	13	8.00-13.00						
	16	8.00-16.00	M6	17(18)-30 17(18)-37	5.0-20.0 5.0-30.0	1156	9	2.5
	20	13.00-20.00						
	25	13.00-25.00						
	26	5.0-20.0						
	27	5.0-30.0						

When D=3, C=0.5 and  $\ell_1=1$ .

**Tapped**

**Part Number Example**: AQSA4 - P2.01 - L6 - B5.5

**Part Number Alterations**: AQSTA6 - P4.00 - L6 - B8 - PP

Alterations	Air Vent	Wrench Hole	P Dimension Tolerance
Code	AC	LAC	PM/PP/PG/PH
Spec.	Adds an air vent. Ordering Code: AC D=0.15 D=P (Round) When D-3≤P, a relief groove is provided on B dim. part.	Machines wrench holes. Ordering Code: LAC Q Diamond Shape Hole is drilled on the diamond head vertically but with arbitrary orientation of its diamond surfaces against those of the diamond head. Applicable when D≥8. Applicable to Tapped Type only.	Changes the P dim. tolerance. Ordering Code: PM 3 Days Volume discount rate is applicable. Ordering Code: Tolerance PM m6 PP p6 PG g6 PH h7



# Locating Pins - Hardened Stainless Steel - Small Flat Head - Pressfit / Tapped -

Features: Small Flat Head Type has been newly added to the Hardened Stainless Steel Locating Pin product line-up.

Material	Hardness	Pin Shape	Press Fit				Tapped	
			m6	p6	g6	h7	g6	h7
Hardened Stainless Steel	35HRC~	Round	ADSC	ADSPC	ADSGC	ADSHC	ADSTC	ADSTHC

When the diameter exceeds  $\phi 10$ , core hardness may be 30HRC or more.

**Tolerance**

D or P	m6	p6	g6	h7
1.00-3.00	+0.008 +0.002	+0.012 +0.006	-0.002 -0.008	0 -0.010
3.01-6.00	+0.012 +0.004	+0.020 +0.012	-0.004 -0.012	0 -0.012
6.01-10.00	+0.015 +0.006	+0.024 +0.015	-0.005 -0.014	0 -0.015
10.01-18.00	+0.018 +0.007	+0.029 +0.018	-0.006 -0.017	0 -0.018
18.01-25.50	+0.021 +0.008	+0.035 +0.022	-0.007 -0.020	0 -0.021

**Press fit**

Part Number	D	P	L	B	C	$\ell_1$	
Type		0.01mm Increment	1mm Increment	0.1mm Increment			
ADSC(m6) ADSPC(p6) ADSGC(g6) ADSHC(h7)	3	1.00-3.00	3-10	2.0-10.0	0.1	1	
	4	2.00-4.00					
	5	2.00-5.00					
	6	2.00-6.00					
	7	2.00-7.00					
	8	2.00-8.00					
	9	2.00-8.00	4-20	2.0-20.0	0.5	1	1.2
	10	6.00-10.00					
	11	6.00-11.00					
	12	6.00-12.00					
	13	6.00-13.00					
	15	6.00-15.00					
	16	6.00-16.00					
	18	6.00-18.00					
	20	13.00-20.00					
	22	13.00-22.00					
	24	13.00-24.00	12-30 20-40	7.0-30.0	1	1	1.5
	25	13.00-25.00					
	26	13.00-25.00					
	27	13.00-25.00					
	28	13.00-25.00					

**Tapped**

Part Number	D	P	L	B	M	*Tightening Torque N·cm	C	$\ell_2$
Type		0.01mm Increment	1mm Increment	0.1mm Increment	(Corse)			
ADSTC(g6) ADSTHC(h7)	6	4.00-6.00	8-12	2.0-12.0	M3	147	1	5
	8	6.00-8.00	11-16	2.0-15.0	M4	333		6
	10	7.00-10.00	11-20	3.0-20.0	M5	676		8
	12	7.00-12.00						
	13	8.00-13.00						
	16	8.00-16.00	M6	16-30 16-37	5.0-20.0 5.0-30.0	1156	9	2.2
	20	13.00-20.00						
	25	13.00-25.00						
	26	5.0-20.0						
	27	5.0-30.0						

L dimension in ( ) is applicable to Diamond Shape. Note the strength of under-head part (technical data page). Please confirm pilot hole depth (technical data page). Holes may go through. Tightening torque will be within Strength Class of 10.9. \*Not applicable when using locking adhesives or lock washers.

**Part Number Example**: ADSC5 - P3.98 - L6 - B3.0

**Part Number Alterations**: ADSTC8 - P6.50 - L6 - B8.0 - LAC

Alterations	Air Vent	C Chamfered Size	Hex Socket Machining	Wrench Hole	P Dimension Tolerance
Code	AC	CN	RAC	LAC	PM/PP/PG/PH
Spec.	Adds an air vent. Ordering Code: AC D=0.15 D=P (Round) When D-3≤P, a relief groove is provided on B dim. part. When B≤3.0, C≤0.5.	Changes C Chamfering at P dimension part to 0.5 or less. Ordering Code: CN C0.5 or Less Press Fit D≥4 Tapped D≥6 Not applicable to D dimension part.	Machines hex sockets. Ordering Code: RAC S+3≤P-2 D Applicable Dimensions Hex Hole Dimensions 8-9 4.0~ 3 2 10-11 6.5~ 12-15 6.5~ 16-18 9.5~ 4 2.5 20-25 6.0~ 6 4 Combination with LAC is not available.	Machines wrench holes. Ordering Code: LAC Q Applicable when D≥8. Applicable to Tapped Type only. Applicable Dimension Wrench Hole Dim. P B Q ~9.99 5.0~ 9.9 2 10.0-20.0 2.5 5.0~ 7.9 2 8.0-11.9 2.5 12.0-30.0 3.5 Combination with RAC is not available.	Changes the P dim. tolerance. Ordering Code: PM Ordering Code: Tolerance PM m6 PP p6 PG g6 PH h7 3 Days Volume discount rate is applicable.

Locating Pins / Bushings for Locating Pins

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