

Locating Pins - Hardened Stainless Steel Large Flat Head

Press Fit / Tapped / Threaded

■ **Features:** Large Flat Head with each dimension configurable. We reduced the price drastically compared to the conventional products.

Material Hardened Stainless Steel | **Hardness** 35HRC~

Material	Hardness	Press Fit			Tapped		Threaded		
		m6	p6	g6	g6	h7	g6	h7	
Hardened Stainless Steel	35HRC~	AFPDC	AFPDC	AFDGC	AFDHC	AFDTC	AFDHTC	AFPNA	AFPNA

Ⓢ When the dia. exceeds Ø10, the center hardness may become 30HR or more.

• **Press Fit**
* Insertion Guide D-0.01

• **Threaded**

• **Tapped**

Ⓢ When B>20mm, the P dim. tolerance is 0-0.02.
* For D Tolerance g6, h7, no Insertion Guide is provided. (L1)

D or P	m6	p6	g6	h7
1-3	+0.008 +0.002	+0.012 +0.006	-0.002 -0.008	0 -0.010
3.01-6	+0.012 +0.004	+0.020 +0.012	-0.004 -0.012	0 -0.012
6.01-10	+0.015 +0.006	+0.024 +0.015	-0.005 -0.014	0 -0.015
10.01-18	+0.018 +0.007	+0.029 +0.018	-0.006 -0.017	0 -0.018
18.01-25.5	+0.021 +0.008	+0.035 +0.022	-0.007 -0.020	0 -0.021

■ **Press Fit**

Part Number	Type	D	P			L	B	C	E	M	L2	(W)
			0.01mm Increment	1mm Increment	0.1mm Increment							
AFPDC(m6) AFPDC(p6) AFDGC(g6) AFDHC(h7)	Type	D	2	2.50-8.00	3-16	2.0-20.0	0	0.5	0.5	1	0.5	1
			3	3.50-8.00								
			4	4.50-8.00								
			5	5.50-8.00								
			6	6.50-16.00								
			7	7.50-16.00								
			8	8.50-16.00								
			9	9.50-16.00								
			10	10.50-16.00								
			11	11.50-16.00								
			12	12.50-17.50								
			13	14.00-20.00								
			15	16.00-22.50								
			16	17.00-25.50								
18	19.00-25.50											
20	22.00-25.50											

Ⓢ When L=3, C=0.5, L1=1.

■ **Tapped**

Part Number	Type	D	P			L	B	C	E	M	L2	(W)
			0.01mm Increment	1mm Increment	0.1mm Increment							
AFPDC(m6) AFPDC(p6) AFDGC(g6) AFDHC(h7)	Type	D	6	6.50-16.00	0-10	2.0-30.0	0.5	1	0.5	M3	147	5
			8	8.50-16.00								
			10	10.50-16.00								
			12	12.50-17.50								
			13	14.00-20.00								
			16	17.00-25.00								
			20	22.00-25.50								

Ⓢ Note the strength of under-head part. ■ P.1566 Ⓢ Please confirm pilot hole depth on ■ P.1566. Holes may go through.
* Tightening torque (reference) will be within Strength Class of Tightening Torque on Technical Data ■ P.2297 (10.9). Not applicable when using locking materials or lock washers.

■ **Threaded**

Part Number	Type	D	P			L	B	C	E	M	L2	(W)
			0.01mm Increment	1mm Increment	0.1mm Increment							
AFPNA(g6) AFPNA(h7)	Type	D	3	3.50-8.00	0-10	2.0-20.0	0.5	1	0.5	M3	147	5
			4	4.50-9.00								
			5	5.50-10.00								
			6	6.50-12.00								
			8	8.50-15.00								
			10	10.50-16.00								
			12	12.50-17.50								
			16	17.00-25.00								
			20	22.00-25.50								

Ⓢ When L=3, C=0.5, L1=1.
* Tightening torque (reference) will be within Strength Class of Tightening Torque on Technical Data ■ P.2297 (10.9). Not applicable when using locking materials or lock washers.

Ordering Example: Part Number D - P - L - B - (CN, RAC, LAC) Days to Ship Price

Press Fit AFPDC 6 - P8.97 - L12 - B3.5
Tapped AFPDC 8 - P9.25 - L15 - B8.6
Threaded AFPNA 5 - P7.80 - L8 - B4.0

Alterations: Part Number - P - L - B - (CN, RAC, LAC) Days to Ship Price

AFPDC 6 - P8.00 - L9 - B5.0 - CN
AFPDC 6 - P8.00 - L9 - B5.0 - CN

Alterations	C Chamfered Size	Hex Socket Machining	Wrench Hole	Relief	P Dimension Tolerance
Code	CN	RAC	LAC	NNC	PM/PP/PG/PH
Spec.	Changes C Chamfering at P dimension part to 0.5 or less. Ⓢ Not applicable to D dimension part.	Machines hex sockets. Ordering Code RAC Ⓢ S+3≤P-2 Ⓢ Applicable when D≥6 Values in () are applicable to Tapped Type. Ⓢ Combination with LAC is not available.	Machines wrench holes. Ordering Code LAC Ⓢ 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≥6 Ⓢ Combination with RAC is not available.	Adds a relief at the thread end. Ordering Code NNC Ⓢ Applicable when L=0.	Changes the P dim. tolerance. Ordering Code PM Ⓢ Not applicable when B>20. Ⓢ 3 Days Ⓢ Volume discount rate is applicable.

Locating Pins - Hardened Stainless Steel Small Head, Tapered / Straight, Tapered, Sphere

Press Fit / Tapped

■ **Features:** Small Head Tapered / Various Straight types can be delivered within 7 days for up to 500 pcs. Straight Type now has an insertion guide.

Material Hardened Stainless Steel | **Hardness** 35HRC~

Material	Hardness	Pin Shape	Press Fit			Tapped		
			m6	p6	g6	g6	h7	
Hardened Stainless Steel	35HRC~	Round	AFPSA	AFPSA	AFPSGA	AFPSHA	AFPSA	AFPSHA
		Diamond	AFPSD	AFPSD	AFPSGD	AFPSHD	AFPSD	AFPSHD

Ⓢ When B+E>20mm, the P dim. tolerance is 0-0.02.
Ⓢ P-2EtanA=0.73 (Tip dia. 0.073 or more)
Reference: tan15°=0.267 tan30°=0.577
tan45°=1 tan60°=1.732
* For D Tolerance g6, h7, no Insertion Guide is provided. (L1)

• **Press Fit**
* Insertion Guide D-0.03

• **Tapped**

Ⓢ Diamond Shape end has a relief.

D or P	m6	p6	g6	h7
1-3	+0.008 +0.002	+0.012 +0.006	-0.002 -0.008	0 -0.010
3.01-6	+0.012 +0.004	+0.020 +0.012	-0.004 -0.012	0 -0.012
6.01-10	+0.015 +0.006	+0.024 +0.015	-0.005 -0.014	0 -0.015
10.01-18	+0.018 +0.007	+0.029 +0.018	-0.006 -0.017	0 -0.018
18.01-25.5	+0.021 +0.008	+0.035 +0.022	-0.007 -0.020	0 -0.021

■ **Press Fit**

Part Number	Type	D	P			L	B	C	E	M	L2	(W)
			0.01mm Increment	1mm Increment	0.1mm Increment							
<Round> AFPSA(m6) AFPSA(p6) AFPSGA(g6) AFPSHA(h7)	Type	D	3	1.00(2.00)-3.00	3(4)-10	2.0-10.0	2.0-15.0	1	0.5	1	0.5	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								
			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								
			25	13.00-25.00								

Ⓢ P and L dimensions in () are applicable to Diamond Shape.
Ⓢ When L=3, C=0.5 and L1=1.

■ **Tapped**

Part Number	Type	D	P			L	B	C	E	M	L2	(W)
			0.01mm Increment	1mm Increment	0.1mm Increment							
<Round> AFPSA(m6) AFPSA(p6) AFPSGA(g6) AFPSHA(h7)	Type	D	6	4.00-6.00	11(12)-20	2.0-15.0	3.0-20.0	0.5-10.0	0.5	M3	147	5
			8	6.00-8.00								
			10	7.00-10.00								
			12	7.00-12.00								
			13	8.00-13.00								
			16	8.00-16.00								
			20	13.00-20.00								
			25	13.00-25.00								

Ⓢ L dimension in () is applicable to Diamond Shape. Ⓢ Note the strength of under-head part. ■ P.1566 Ⓢ Please confirm pilot hole depth on ■ P.1566. Holes may go through.
* Tightening torque (reference) will be within Strength Class of Tightening Torque on Technical Data ■ P.2297 (10.9). Not applicable when using locking materials or lock washers.

Ordering Example: Part Number D - P - L - B - (AC, RAC, LAC... etc) Days to Ship Price

AFPSA 8 - P6.01 - L8 - B5.3
AFPSA 6 - P4.20 - L6 - B5.3

Alterations	Air Vent	Hex Socket Machining	Wrench Hole	P Dimension Tolerance	Taper Angle
Code	AC	RAC	LAC	PM/PP/PG/PH	A
Spec.	Adds an air vent. Ordering Code AC Ⓢ When D=3P, a relief groove is provided on B dim. part.	Machines hex sockets. Ordering Code RAC Ⓢ S+3≤P-2 x E x tanA° Ⓢ Round Shape is applicable to D≥8, and Diamond Shape is applicable to D≥10.	Machines wrench holes. Ordering Code LAC Ⓢ 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 Ⓢ Not applicable when B+E>20. Ⓢ 3 Days Ⓢ Volume discount rate is applicable.	Changes the taper angle. Ordering Code A60 Ⓢ 3 Days Ⓢ Volume discount rate is applicable.