

Locating Pins - High Hardness Stainless Steel Large Head, Tapered

Press Fit / Tapped / Threaded

Locating Pins - High Hardness Stainless Steel Large Head, Tapered

Configurable Taper Angle, D and P Selectable Tolerance

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

RoHS

Material	Hardness	Pin Shape	Press Fit		Tapped	Threaded
			m6	p6	g6	g6
High Hardness Stainless Steel	35HRC~	Round	AFPBA	AFPBA	AFPBA	AFPNA
		Diamond	AFPBD	AFPBD	AFPBD	AFPND

• **Press Fit**
 * Insertion Guide D 0.01
 No Edge
 R0.2
 15°
 0.8
 0.01 A
 P 0.01
 L 0.3
 B 0.3
 m

• **Threaded**
 No Edge
 R0.2
 15°
 0.8
 0.01 A
 P 0.01
 L 0.3
 B 0.3
 m

• **Tapped**
 No Edge
 R0.2
 15°
 0.8
 0.01 A
 P 0.01
 L 0.3
 B 0.3
 m
 C0.5
 L 2
 W
 (Round) (Diamond)
 60°

■ **Press Fit**

Type	Part Number	D dim. Tolerance		P	L	B	C	m	L1	(W)	Unit Price Round Shape	Unit Price Diamond Shape
		m6	p6									
<Round>	2	+0.008	+0.012	2.50- 8.00	3(4)-16	1.0-15.0	0.5	0.5	0	1.2	AFPBA	AFPBD
AFPBA (m6)	3	+0.002	+0.006	3.50- 8.00								
AFPBA (p6)	4	+0.002	+0.006	4.50- 8.00	3	1.0-15.0	1	2	1	2.2	AFPBA	AFPBD
<Diamond>	5	+0.012	+0.02	5.50- 8.00								
AFPBD (m6)	6	+0.004	+0.012	6.50-10.00	4(5)-16	1.0-15.0	1.5	3	3	3.5	AFPBD	AFPBD
AFPBD (p6)	8	+0.015	+0.024	8.50-10.00								

⚠ L dimension in () is applicable to Diamond Shape. ⚠ When L=3, C=0.5 and L1=1.

■ **Tapped**

Type	Part Number	D	D dim. Tolerance g6	P	L	B	m	(W)	M (Coarse)	*Recommended Tightening Torque N-cm	L2	Unit Price Round Shape	Unit Price Diamond Shape
AFPBT (Round)	6	6	-0.004	6.50-10.00	6(9)-16	1.0-15.0	3	3	3	147	5	AFPBT	AFPBT
AFPBD (Diamond)	8	8	-0.005	8.50-10.00	8(12)-16	1.0-15.0	3	3.5	4	333	6	AFPBD	AFPBD

⚠ 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.

■ **Threaded**

Type	Part Number	D	D dim. Tolerance g6	P	L	B	ML	M (Coarse)	*Recommended Tightening Torque N-cm	m	(W)	Unit Price Round Shape	Unit Price Diamond Shape
AFPNA (Round)	3	3	-0.002	3.50- 8.00	3-10	1.0-15.0	4.5	3	147	0.5	1.5	AFPNA	AFPND
AFPNA (Diamond)	4	4	-0.004	4.50- 8.00	3-10	1.0-15.0	6	4	333	1	1.8	AFPNA	AFPND
AFPNA (Diamond)	5	5	-0.004	5.50- 8.00									
AFPND (Diamond)	6	6	-0.012	6.50-10.00	4-10	1.0-15.0	7.5	5	676	2	2.2	AFPNA	AFPND
AFPND (Diamond)	8	8	-0.005	8.50-10.00									

⚠ 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: P - L - B

Standard: AFPBA 8 - P9.02 - L10 - B3.2
 Threaded: AFPNA 6 - P8.00 - L5 - B4.0
 Tapped: AFPBT 8 - P9.01 - L12 - B6.4

Alterations

Part Number: P - L - B - (MH, NTK, LAC)

Alterations: AFPBPA8 - P9.05 - L12 - B6.4 - MH

Alterations	Tapping	Removal Tap	Wrench Hole Machining																						
Code	MH	NTK	LAC																						
Spec.	Adds a tapped hole. Ordering Code: MH ⚠ Applicable when D>6 ⚠ B>Lz+4 ⚠ Applicable to Press Fit only. ⚠ Combination with NTK is not available.	Removes a removal tap hole. Ordering Code: NTK ⚠ Effective tap length of D depends on B dimension specifiable range. ⚠ When L+B=m-M3, the tapped holes go through. ⚠ When L+B=m-M3, the pilot holes for tapping may go through. ⚠ Applicable only when D>6. ⚠ Combination with MH is not available.	Machines wrench holes. Ordering Code: LAC ⚠ Orientation between Diamond Shape Head and Wrench Hole is arbitrary.																						
	<table border="1"> <tr><th>D</th><th>M</th><th>B</th></tr> <tr><td>6</td><td>M3</td><td>4</td></tr> <tr><td>8</td><td>M4</td><td>6</td></tr> </table>	D	M	B	6	M3	4	8	M4	6	<table border="1"> <tr><th>D</th><th>M</th><th>B</th></tr> <tr><td>6</td><td>3</td><td>1.0-4.5</td></tr> <tr><td>8</td><td>4</td><td>1.0-5.9</td></tr> </table>	D	M	B	6	3	1.0-4.5	8	4	1.0-5.9	<table border="1"> <tr><th>D</th><th>Q</th></tr> <tr><td>6.50-10.00</td><td>2</td></tr> </table>	D	Q	6.50-10.00	2
D	M	B																							
6	M3	4																							
8	M4	6																							
D	M	B																							
6	3	1.0-4.5																							
8	4	1.0-5.9																							
D	Q																								
6.50-10.00	2																								

■ **Features:** Stainless Steel Large Head Tapered excellent in corrosion resistance and hardness. Selectable tolerance on both ends and tapered dimensions.

RoHS

Material	Hardness	Pin Shape	Press Fit	Tapped	Threaded
			AKFA	AKFTA	AKFNA
High Hardness Stainless Steel	35HRC~	Round	AKFA	AKFTA	AKFNA
		Diamond	AKFD	AKFTD	AKFND

• **Press Fit**
 * Insertion Guide D 0.01
 No Edge
 R0.2
 15°
 0.8
 0.01 A
 P 0.01
 L 0.3
 B 0.3
 m

• **Threaded**
 No Edge
 R0.2
 15°
 0.8
 0.01 A
 P 0.01
 L 0.3
 B 0.3
 m
 Mx1.5
 W
 (Diamond)
 60°

• **Tapped**
 No Edge
 R0.2
 15°
 0.8
 0.01 A
 P 0.01
 L 0.3
 B 0.3
 m
 C0.5
 L 2
 W
 60°

⚠ P-2EtanA=0.73 (Tip dia. 0.73 or more)
 Reference: tan15°=0.267 tan30°=0.577 tan45°=1 tan60°=1.732

■ **Press Fit**

Type	Part Number	D Tol. Selection	P Tolerance Selection	D	P	L	B	E	A Selection	C	(W)	L1	Unit Price Round Shape	Unit Price Diamond Shape		
													AKFA	AKFD		
AKFA (Round)	M P G H	M P G H	S M P G H	2	2.50- 8.00	3(4)-16	1.0-10.0	0.5-5.0	15	0.5	1.2	0	AKFA	AKFD		
															3	3.50- 8.00
															4	4.50- 8.00
															5	5.50- 8.00
AKFD (Diamond)	M P G H	M P G H	S M P G H	6	6.50-10.00	4(5)-16	1.0-10.0	0.5-5.0	15	1	1.8	1	AKFA	AKFD		
															5	5.50- 8.00
															6	6.50-10.00

⚠ L dimension in () is applicable to Diamond Shape. ⚠ When L=3, C=0.5 and L1=1.

■ **Tapped**

Type	Part Number	D Tol. Selection	P Tolerance Selection	D	P	L	B	E	A Selection	(W)	M (Coarse)	*Recommended Tightening Torque N-cm	L2	Unit Price Round Shape	Unit Price Diamond Shape
														AKFTA	AKFTD
AKFTA (Round)	6	M	S	6	6.50-10.00	6(9)-16	1.0-10.0	0.5-5.0	15	3	M3	147	5	AKFTA	AKFTD
AKFTD (Diamond)	8	M	S	8	8.50-10.00	8(12)-16	1.0-10.0	0.5-5.0	15	3.5	M4	333	6	AKFTA	AKFTD

⚠ Note the strength of under-head part. ⚠ P.1566 ⚠ L dimension in () is applicable to Diamond Shape. ⚠ 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**

Type	Part Number	D Tol. Selection	P Tolerance Selection	D	P	L	B	E	A Selection	M (Coarse)	*Recommended Tightening Torque N-cm	(W)	Unit Price Round Shape	Unit Price Diamond Shape
													AKFNA	AKFND
AKFNA (Round)	3	M	S	3	3.50- 8.00	3-10	1.0-10.0	0.5-5.0	15	M3	147	1.5	AKFNA	AKFND
AKFNA (Diamond)	4	M	S	4	4.50- 8.00	3-10	1.0-10.0	0.5-5.0	15	M4	333	1.8	AKFNA	AKFND
AKFNA (Diamond)	5	M	S	5	5.50- 8.00									
AKFND (Diamond)	6	M	S	6	6.50-10.00	4-10	1.0-10.0	0.5-5.0	15	M5	676	2.2	AKFNA	AKFND
AKFND (Diamond)	8	M	S	8	8.50-10.00									

⚠ 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: P - L - B - E - A

AKFA M S 6 - P10.00 - L6 - B3.0 - E5.0 - A30

Alterations

Part Number: P - L - B - E - A - (MH, AC)

AKFAMS6 - P10.00 - L6 - B3.0 - E5.0 - A30 - MH

Alterations	Tapping	Air Vent									
Code	MH	AC									
Spec.	Adds a tapped hole. Ordering Code: MH ⚠ Applicable when D>6 ⚠ B>Lz+4 ⚠ Applicable to Press Fit only.	Adds an air vent. Ordering Code: AC ⚠ Not applicable to Threaded. ⚠ It has a relief groove.									
	<table border="1"> <tr><th>D</th><th>MH</th><th>L2</th></tr> <tr><td>6</td><td>M3</td><td>4</td></tr> <tr><td>8</td><td>M4</td><td>6</td></tr> </table>	D	MH	L2	6	M3	4	8	M4	6	
D	MH	L2									
6	M3	4									
8	M4	6									