

Locating Pins - High Hardness Stainless Steel, Large Flat Head

Press Fit / Tapped / Threaded

For products uncovered by e-Catalog Standard, see P131.

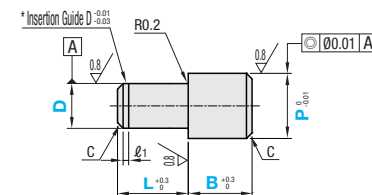
Features: For High Hardness Stainless Steel - Large Flat Head Type, the configurable range of dimensions has been further widened. For order of up to 1,000 pcs., the 7th Day Shipping is available. (For details, see P1617.)



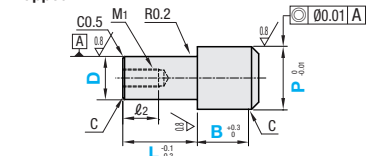
Material	Hardness	Press Fit				Tapped		Threaded	
		m6	p6	g6	h7	g6	h7	g6	h7
High Hardness Stainless Steel	35HRC~	AFDPC	AFDPC	AFDGC	AFDHC	AFDTC	AFDHTC	AFPFNA	AFPFHNA

When the dia. exceeds Ø10, the center hardness may become 30HRC~.

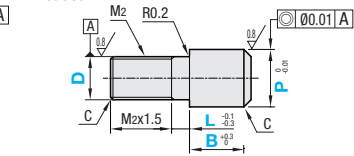
Press Fit



Tapped



Threaded



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

Tolerance

D or P	m6	p6	g6	h7
2.00~3.00	+0.008 +0.002	+0.006 +0.006	-0.008 -0.008	0 -0.010
3.01~6.00	+0.012 +0.004	+0.012 +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
10.01~17.50	+0.018 +0.007	+0.029 +0.018	-0.006 -0.017	0 -0.018

Press Fit

Part Number		P	L	B	ℓ ₁	C	Unit Price
Type	D	0.01mm Increment	1mm Increment	0.1mm Increment			
AFDPC (m6) AFDPC (p6) AFDGC (g6) AFDHC (h7)	2	2.50-8.00	3-16	2.0-20.0	0	0.5	
	3	3.50-8.00					
	4	4.50-8.00		2.0-30.0	1	1	
	5	5.50-8.00					
	6	6.50-16.00					
	8	8.50-16.00					
	10	10.50-16.00	5-25				
	12	12.50-17.50					

When L=3, C=0.5, L1=1.

Tapped

Part Number		P		L	B	M1	* Recommended Tightening Torque	ℓ2	C	Unit Price
Type	D	0.01mm Increment	1mm Increment	0.1mm Increment	(Coarse)	N·cm				
AFPDTC (g6) AFPDHTC (h7)	6	6.50~16.00	6~16	2.0~30.0	M3	147	5	1		
	8	8.50~16.00	8~16		M4	333	6			
	10	10.50~16.00	10~20		M5	676	8			
	12	12.50~17.50	12~25							

Note the strength of under-head part. P1618 Please confirm pilot hole depth on P1618. Holes may go through.

* Tightening torque (reference) is of Tightening Torque Strength Class (10.9) indicated on Technical Data P2365. Not applicable when using locking materials or lock washers.

Threaded

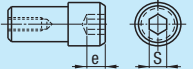
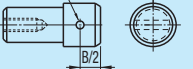
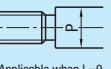
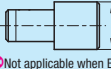
Part Number Type	D	P		L	B	C	M2 (Coarse)	* Tightening Torque N·cm	Unit Price
		0.01mm Increment	1mm Increment						
AFPFNA (g6) AFPFHNA (h7)	3	3.50~8.00	0~10	2.0~30.0	1	0.5	M3	147	
	4	4.50~8.00					M4	333	
	5	5.50~8.00					M5	676	
	6	6.50~12.00					M6	1156	
	8	8.50~15.00					M8	2803	
	10	10.50~16.00					M10	5557	
	12	12.50~17.50	0~20				M12	9702	

When L<Pitchx2, the incomplete threaded portion (Pitch x 2) is included in M2x1.5. For Coarse Thread Pitch Dims., see P2360.

* Tightening torque (reference) is of Tightening Torque Strength Class (10.9) indicated on Technical Data P2365. Not applicable when using locking materials or lock washers.

Ordering Example	Part Number	P	L	B
	Type D	P9.25	L15	B8.6
	AFDTC	8	P9.25	L15 - B8.6

Alterations	Part Number	P	L	B	(CN, RAC, LAC ... etc)
	AFPFHNA8	P9.98	L9	B5.0	CN

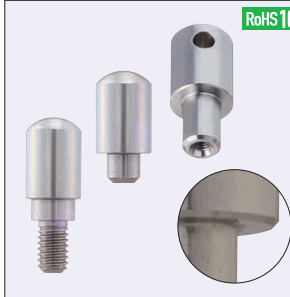
Alteration	C Chamfered Size	Hex Socket Machining	Wrench Hole	Relief	P Dimension Tolerance
Code	CN	RAC	LAC	NNC	PM/PP/PG/PH
Spec.	Adds an air vent. (Ordering Code) AC 	Machines hex sockets. (Ordering Code) RAC 	Machines wrench holes. (Ordering Code) LAC 	Adds a relief at the thread end. (Ordering Code) NNC 	Changes the P dim. tolerance. (Ordering Code) PM 
	Changes C Chamfering at P dimension part to 0.5 or less. Not applicable to D dimension part.	* S=3cP-2 Applicable when D≥6 Values in () are applicable to Tapped Type. Combination with LAC is not available.	* 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.	* Applicable when L=0.	* Not applicable when B>20. Ordering Code Tolerance PM m6 PP p6 PG g6 PH h7 3 Days Volume discount rate is applicable.

Locating Pins - High Hardness Stainless Steel, R / Taper R

Press Fit / Tapped / Threaded

For products uncovered by e-Catalog Standard, see P131.

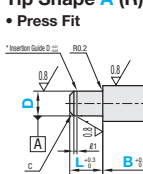
Features: R and Taper R Types have been newly added to the High Hardness Stainless Steel Locating Pin product line-up. For order of up to 1,000 pcs., the 7th Day Shipping is available. (For details, see P1617.)



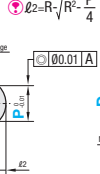
Material	Hardness	Pin Shape	Press Fit				Tapped		Threaded	
			m6	p6	g6	h7	g6	h7	g6	h7
High Hardness	25HRC	Round	APE	APPE	APGE	APHE	APG	APHG	APA	APHA

When the dia. exceeds Ø10, the center hardness may become 30HRC~.

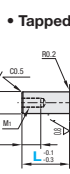
Tip Shape A (R)



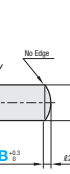
Press Fit



Tapped



Threaded

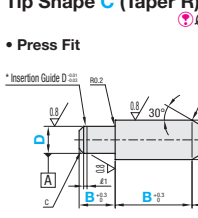


Tolerance

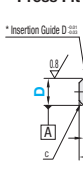
D or P	m6	p6	g6	h7
2.00~3.00	+0.008 +0.002	+0.012 +0.006	-0.002 -0.008	0 -0.010
3.01~6.00	+0.012 +0.004	+0.020 +0.012	-0.004 -0.012	0 -0.012
6.01~10.00	+0.015 +0.006	+0.024 +0.015	-0.005 -0.014	0 -0.015
10.01~17.50	+0.018 +0.007	+0.029 +0.018	-0.006 -0.017	0 -0.018

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

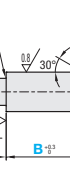
Tip Shape C (Taper R)



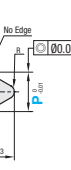
Press Fit



Tapped



Threaded



Press Fit

Part Number Type	Tip Shape	D	P		L	B	R	C	L1	(W)	Unit Price Round Shape	Unit Price Diamond Shape
			0.01mm Increment	1mm Increment								
<Round> APE (m6) APPE (p6) APGE (g6) APHE (h7)	A	2	2.50~8.00	3(4)~16	1.0~20.0	Shape A R≤P/2 Shape C R≤P/2	0.5	1	0	1.2		
		3	3.50~8.00									
		4	4.50~8.00									
		5	5.50~8.00									
		6	6.50~12.00									
		8	8.50~15.00									
	C	10	10.50~16.00	4(5)~16	1.0~40.0(20.0)		1.5	1		3		
		12	12.50~17.50									

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

Tapped

Part Number Type	Tip Shape	D	P		L	B	R	M1 (Coarse)	* Tightening Torque N·cm	(W)	Unit Price Round Shape	Unit Price Diamond Shape
			0.01mm Increment	1mm Increment								
<Round> APG (g6) APHG (h7)	A	6	6.50~12.00	6(9)~16	1.0~40.0(20.0)	Shape A R≤P/2 Shape C R≤P/2	M3	147	147	3		
		8	8.50~15.00	8(12)~16								
		10	10.50~16.00	10(13)~20								
		12	12.50~17.50	12(15)~20								

L, B dimensions in () are applicable to Diamond Shape. Note the strength of under-head part. P1618 Please confirm pilot hole depth on P1618. Holes may go through.

* Tightening torque (reference) is of Tightening Torque Strength Class (10.9) indicated on Technical Data P2365. Not applicable when using locking materials or lock washers.

Threaded

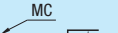
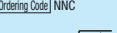
Part Number Type	Tip Shape	D	P		L	B	R	M2 (Coarse)	* Tightening Torque N·cm	(W)	Unit Price Round Shape	Unit Price Diamond Shape
			0.01mm Increment	1mm Increment								
<Round> APA (g6) APHA (h7)	A	3	3.50~8.00	0~10	1.0~40.0(20.0)	Shape A R≤P/2 Shape C R≤P/2	M3	147	147	1.5		
		4	4.50~8.00									
		5	5.50~8.00									
		6	6.50~12.00									
		8	8.50~15.00									
		10	10.50~16.00									
<Diamond> APDA (g6) APHDA (h7)	C	12	12.50~17.50				M12	9702	9702	5		

B dimension in () is applicable to Diamond Shape. When L<Pitchx2, the incomplete threaded portion (Pitchx2) is included in M2x1.5. For Coarse Thread Pitch Dims., see P2360.

* Tightening torque (reference) is of Tightening Torque Strength Class (10.9) indicated on Technical Data P2365. Not applicable when using locking materials or lock washers.

Ordering Example	Part Number	P	L	B	R
	Type Tip Shape D	P10.00	L5	B12.0	R6
	APE A	6 - P10.00	L5 - B12.0	R6	

Alterations	Part Number	P	L	B	R	(SC, LAC, RDC ... etc)
	APDAC8	P12.00	L5	B10.0	R6	MC6

Alterations	Wrench Flats	Wrench Hole Machining	Screwdriver Slot	Thread Dia.	Relief																		
Code	SC	LAC	DRC	MC	NNC																		
Spec.	Ordering Code SC10  SC = 1mm Increment ⚠ When B≤1, add wrench flats on the tip. ⚠ Not applicable to Diamond Shape. ⚠ P-3SC≤SP-1, SC≥D	Machines wrench holes: Ordering Code LAC  <table><thead><tr><th colspan="2">Applicable Dimension</th><th>Wrench Hole Dimensions</th></tr><tr><th>P</th><th>B</th><th>Q</th></tr></thead><tbody><tr><td>~9.99</td><td>5.0~9.9</td><td>2</td></tr><tr><td></td><td>5.0~7.9</td><td>2</td></tr><tr><td>10.00~</td><td>8.0~11.9</td><td>2.5</td></tr><tr><td></td><td>12.0~40.0</td><td>3.5</td></tr></tbody></table> ⚠ 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	Applicable Dimension		Wrench Hole Dimensions	P	B	Q	~9.99	5.0~9.9	2		5.0~7.9	2	10.00~	8.0~11.9	2.5		12.0~40.0	3.5	Ordering Code DRC  Width 0.8mm Depth 1mm ⚠ Applicable to Threaded Type only.	Changes the thread diameter: Ordering Code MC4  D/3=MC<D MCmin3 ⚠ The incomplete threaded portion (Pitch x2) is included.	Adds a relief at the thread end. Ordering Code NNC  ⚠ Applicable when L=0.
	Applicable Dimension		Wrench Hole Dimensions																				
P	B	Q																					
~9.99	5.0~9.9	2																					
	5.0~7.9	2																					
10.00~	8.0~11.9	2.5																					
	12.0~40.0	3.5																					