

Locating Pins - Tip Shape Selectable

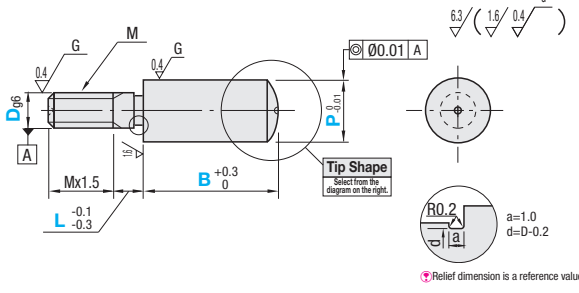
Tip Length Configurable - Threaded

☑ For products uncovered by e-Catalog Standard, see P.131.

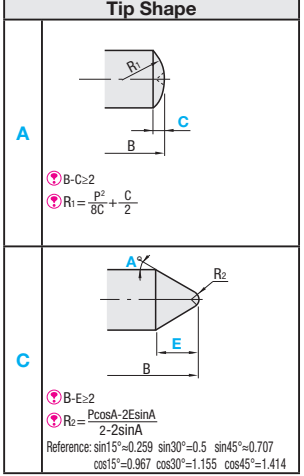
■ **Features:** While it has the same shape as conventional Tip Shape Selectable Type (Shapes A and C only), its configurable range is different therefrom. Overall length of insertion guide, R length and tapered section length are configurable.



Material No.	Material	Surface Treatment	Hardness	Type
(1)	SKS3 Equivalent	-	Treated Hardness: 55~60HRC	LPALJ
(2)	SKS3 Equivalent	Hard Chrome Plating	Treated Hardness: 50~55HRC Plating Hardness: 750HV~	LPALG
(3)	S45C Equivalent	-	Treated Hardness: 45~50HRC	LPAL
(4)	S45C Equivalent	Black Oxide	Treated Hardness: 45~50HRC	LPALB
(5)	S45C Equivalent	Hard Chrome Plating	Treated Hardness: 45~50HRC Plating Hardness: 750HV~	LPALR
(6)	SUS304	-	-	LPALS
(7)	SUS304	Hard Chrome Plating	Plating Hardness: 750HV~	LPALD
(8)	SUS440C or 13Cr stainless	-	Treated Hardness: 50~55HRC	LPALC



☑ When L<Pitchx2, the incomplete threaded portion (Pitch x 2) is included in Mx1.5. For Coarse Thread Pitch Dims., see P.2360.
 ☑ Fully Threaded Type of L=0 w/o Pilot is available. P.1661
 ☑ Polished, centering hole is sometimes not available for SUS304.



Part Number	Type	Tip	D	D dim. Tolerance μm	P 0.01mm Increment	B 0.1mm Increment	C 1mm Increment	A Selection	E 1mm Increment	L 1mm Increment	M (Coarse)	* Tightening Torque N·cm
LPALJ LPALG LPAL LPALB LPALR LPALS LPALD LPALC	A	3	-0.002	-0.008	4.00~8.00	5.0~30.0	Shape A 1≤C≤P/2	Shape C 15 30 45	Shape C 3~28	0~10	M3	98
		4	-0.004	-0.012	5.00~9.00	5.0~30.0					M4	225
		5	-0.004	-0.012	6.00~10.00	5.0~35.0					M5	461
		6	-0.005	-0.014	7.00~12.00	5.0~45.0					M6	784
		8	-0.005	-0.014	9.00~15.00	5.0~45.0					M8	1911
	C	10	-0.006	-0.017	11.00~20.00	5.0~55.0					M10	3783
		12	-0.006	-0.017	13.00~20.00	5.0~55.0					M12	6605
		16	-0.007	-0.020	17.00~27.00	5.0~60.0					M16	16366
		20	-0.007	-0.020	21.00~30.00	5.0~60.0					M20	32928

☑ For full threading, specify L = 0 and alteration NNC.
 * The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on P.2365.) Not applicable when using locking materials or lock washers.

Ordering Example: Part Number - P - B - C - A - E - L - L0

LPALJA10 - P12.00 - B6.5 - C5 - A15 - E10 - L0

LPALC16 - P20.00 - B7.0 - C5 - A15 - E10 - L5

Details of E Dimension Configurable Range

P	E 1mm Increment		
	A 15	A 30	A 45
5.00~8.00	4~6	3	-
8.01~12.00	6~12	4, 5	3
12.01~16.00	8~16	5~9	4, 5
16.01~20.00	10~20	7~12	5~7
20.01~25.00	12~24	8~15	6~9
25.01~30.00	14~28	10~18	7~11

D	Unit Price							
	(1) Treated SKS3 LPALJ	(2) Hard SKS3 LPALG	(3) S45C LPAL	(4) S45C Black Oxide LPALB	(5) Hard S45C LPALR	(6) SUS304 LPALS	(7) Hard SUS304 LPALD	(8) SUS440C or 13Cr stainless LPALC
3								
4								
5								
6								
8								
10								
12								
16								
20								

Alterations: Part Number - P - B - C - A - E - L - L0 - (SC, DRC, etc.) - NNC

LPALBA8 - P10.00 - B5.0 - C3 - A15 - E10 - L0 - NNC

Alterations	Wrench Flats	Wrench Hole (Ø3.5)	Wrench Hole (Ø2.5)	Screwdriver Slot	Thread Dia.	Relief
Code	SC	LAC	LTE	DRC	MC	NNC
Spec.	SC = 1mm Increment ☑ When B-C or B-E ≤ 11, adds wrench flats on the tip. ☑ P-3≤SC≤P-1, SC≥D	Adds a Ø3.5 hole. ☑ Applicable when B-C or B-E ≥ 10 and when P≥8.	Adds a Ø2.5 hole. ☑ Applicable when B-C or B-E≥8 and when 7≤P≤15.	Width 0.8mm Depth 1mm	Changes the thread diameter to MC. ☑ D/3≤MC<D ☑ MC≥3 [Ordering Code] MC4 ☑ The incomplete threaded portion (Pitch x 2) is included.	Adds a relief at the thread end. ☑ Applicable when L=0.