

# Support Pins

## Selectable Pilot (Tip) Shape

**Support Pins – Selectable Pilot (Tip) Shape**

Threaded	Tapped	Pilot	Material	Surface Treatment	Hardness
LSPC	LSPA	LSPB	1045 Carbon Steel or Equivalent	Black Oxide	—
LSPRC	LSPAR	LSPBR		Hard Chrome Plating	Plating Hardness :750 HV min.
LSPHBC	LSPAHB	LSPBHB		Black Oxide	Treated Hardness: 45~50 HRC min.
LSPHRC	LSPAHR	LSPBHR	304 Stainless Steel	Hard Chrome Plating	Treated Hardness: 45~50 HRC min. Plating Hardness :750 HV min.
LSPSUC	LSPASU	LSPBSU		—	—
LSPSCC	LSPASC	LSPBSC	440C or 420 Stainless Steel	—	Treated Hardness: 50~55 HRC min.

$6.3 / \sqrt[3]{(1.6/0.4)^G}$

**Threaded**

**Tapped**

**Pilot**

**Pilot-Tip Shape Selection**

Shape	Tip Shape	Notes
A Shape		$P \cdot 2 \cdot \tan A \geq 0.73$ (Tip dia. $\phi 0.73$ or above) Reference: $\tan 15^\circ = 0.267$ $\tan 30^\circ = 0.577$ $\tan 45^\circ = 1$ $\tan 60^\circ = 1.732$
B Shape		SR P/2 No Edge
C Shape		

Ⓢ For Stepped Pilot Type, D Dimension 10 or more is available. Ⓢ Note the strength of undercut part for Tapped. P.1542

Part Number		Type	Tip Shape	D	L 0.01 mm Increment	P 0.01 mm Increment	B 0.1 mm Increment	E 0.1 mm Increment (Shape A Only)	A Selection (Shape A Only)	R (Shape C)	d	M (Coarse)	F	M <sub>1</sub> (Coarse)	ℓ <sub>1</sub>	W	ℓ <sub>2</sub>
Threaded	Tapped																
LSPC	LSPA	LSPB	A	6	10.00~50.00	3.00~4.00	2.0~12.0	0.5~10.0	15	1	3	3	1.5	M3	—	5	8
LSPRC	LSPAR	LSPBR		8													
LSPHBC	LSPAHB	LSPBHB		10													
LSPHRC	LSPAHR	LSPBHR		12													
LSPSUC	LSPASU	LSPBSU	B	10	20.00~80.00	5.00~10.00	2.0~25.0	0.5~10.0	30	1.5	8	8	4	M5	6	10	10
LSPSCC	LSPASC	LSPBSC		12													
				15													
				20													
			C	15	10.00~15.00	2.0~30.0	2.0~30.0	45	60	2	10	10	5	M8	9	17	10
				25													

Ⓢ D values 6, 8 unavailable for Pilot type parts.

**Part Number Example**

Part Number - L - P - B - E - A

LSPAA10 - L20.01 - P4.05 - B5 - E2.0 - A15

LSPBC12 - L25.01 - P8.00 - B10

LSPCA10 - L20.01 - P4.05 - B5 - E2.0 - A15

**Tapped, Threaded**

**Recommended Tightening Torque (Reference)**

M (Coarse)	Tightening Torque N•cm
M3	98
M4	225
M5	461
M6	784
M8	1911
M10	3783
M12	6605
M16	16366
M20	32928

\*The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on MISUMI 2019 catalog P.4015). Not applicable when using locking agents or spring washers.

# Hex Support Pins

## Stepped

**Hex Support Pins – Stepped**

Type			Material	Surface Treatment	Hardness
Threaded	Tapped	Pilot			
SRPCB	SRPAB	SRPBB	1045 Carbon Steel or Equivalent	Black Oxide	—
SRPCR	SRPAR	—		Hard Chrome Plating	Plating Hardness: 750 HV min.
SRPCHB	SRPAHB	SRPBHB		Black Oxide	Treated Hardness: 45~50 HRC min.
SRPCHR	SRPAHR	SRPBHR	304 Stainless Steel	Hard Chrome Plating	Treated Hardness: 45~50 HRC min. Plating Hardness: 750 HV min.
SRPCC	SRPAC	SRPBC		440C or 420 Stainless Steel	—

$6.3 / \sqrt[3]{(1.6/0.4)^G}$

**Threaded**

**Tapped**

**Pilot**

**RoHS 10**

Ⓢ When G < Pitch x 2, the incomplete threaded section (Pitch x 2) is included in M x 1.5. Pitch Diameter P.4010

Ⓢ Relief dimension is a reference value.

Pilot	Part Number		B	L 0.01 mm Increment	P 0.01 mm Increment	F 0.1 mm Increment	G 1 mm Increment Threaded Only	m	(C)	d	M (Coarse)	M <sub>1</sub> (Coarse)	ℓ <sub>1</sub>	d <sub>1</sub>
	SRPBB	SRPBHB												
SRPBB	SRPAB	SRPBB	6	10.00~50.00	3.00~4.00	2.0~12.0	0	1	6.9	4	M4	M3	—	—
			7											
			8											
			10											
SRPBHB	SRPAR	SRPBB	10	15.00~50.00	3.00~6.00	2.0~15.0	0	2	9.2	5	M5	M4	6	8
			12											
			13											
			17											
SRPBHR	SRPAHB	SRPBB	14	20.00~80.00	4.00~8.00	2.0~20.0	0	3	11.5	6	M6	M5	8	10
			17											
			19											
			24											
SRPBC	SRPAHR	SRPBB	17	20.00~80.00	5.00~10.00	2.0~25.0	0	4	13.9	8	M8	M6	9	12
			19											
			24											
			24											

Ⓢ Pilot type available for B≥10. Ⓢ 440C or 420 Stainless Steel is B≥8.  
Ⓢ D6, D7 unavailable for SRPAC, SRPCC part types Ⓢ For full thread, specify a G dimension of 0 and NNC alteration.

**Part Number Example**

Part Number - L - P - F

Type | B | L | P | F

SRPBHB 14 - L70.02 - P6.00 - F5.0

SRPAHB 14 - L70.02 - P6.00 - F5.0

**Part Number Alterations**

Part Number - L - P - F - G - (DRC, NNC)

SRPCB12 - L30.00 - P4.98 - F3.0 - G0 - NNC

Alterations	Screwdriver Slot	Relief
Code	<b>DRC</b>	<b>NNC</b>
Spec.	Machines a screwdriver slot of width 0.8mm and depth 1 mm.	Adds a relief at the thread end. Ⓢ Applicable when G=0.

**Tapped and Threaded**

**Recommended Tightening Torque (Reference)**

M (Coarse)	Tightening Torque N•cm
M3	98
M4	225
M5	461
M6	784
M8	1911
M10	3783
M12	6605
M16	16366
M20	32928

Ⓢ \*The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on MISUMI 2019 catalog P.4015). Not applicable when using locking agents or spring washers.