

Support Pins

Stepped

■Features: Locating Pins with the Broad Specifiable Range of Height. Height adjustment and Round/Diamond locating in the horizontal direction are possible.

Material	Surface Treatment	Hardness	Round			Diamond		
			Threaded	Tapped	Pilot	Threaded	Tapped	Pilot
① S45C (SDPCR) S45C Equivalent (SHPCB) (SHPAB) (SHPBB) (SDPAB)	Black Oxide	-	SHPCB	SHPAB	SHPBB	SDPCB	SDPAB	-
② S45C Equivalent	Hard Chrome Plating Plating Thickness: 3µm or more	Treated Hardness: 750HV ~	SHPCR	SHPAR	SHPBR	-	SDPAR	SDPBR
③ S45C (SHPCHB) S45C Equivalent (SHPAB) (SHPBB) (SDPCHB) (SDPBB)	Black Oxide	Treated Hardness: 45 ~ 50HRC	SHPCHB	SHPAB	SHPBB	SDPCHB	-	SDPBB
④ S45C (SDPCHR) S45C Equivalent (SHPAHR) (SHPBHR)	Hard Chrome Plating Plating Thickness: 3µm or more	Treated Hardness: 45 ~ 50HRC Plating Hardness: 750HV ~	-	SHPAHR	SHPBHR	-	-	SDPCHR
⑤ SUS304	-	-	SHPCSU	SHPASU	SHPBSU	SDPCSU	SDPASU	SDPBSU
⑥ SUS440C Equivalent	-	Treated Hardness: 50 ~ 55HRC	SHPC	SHPAC	SHPBC	SDPC	SDPAC	SDPBC

⚠SUS304 may not be polished and may have no centering hole.

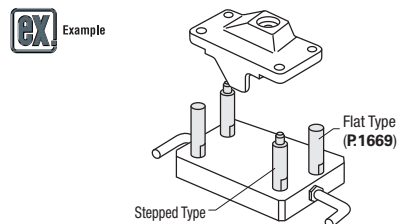
RoHS 10

Part Number	Type	D	L	P	B	m	d	M	Tightening Torque	l1	W1	W	l2
Threaded <Round>	Tapped <Round>	6	0.01mm Increment	0.01mm Increment	Selection	1	-	M3	147	-	5	1.0	8
SHPCB SHPAR SHPCHB SHPCSU SHPCC	SHPAB SHPAR SHPABH SHPASU SHPAC	8	10.00-50.00	3.00-4.00	2	6	-	M3	147	6	1.5	-	8
		10		3.00-6.00	3	8	6	M3	147	8	1.5	-	8
		12		4.00-8.00	4	10	10	M3	147	10	1.8	-	8
		15	20.00-80.00	4.00-10.00	5	12	12	M5	676	12	2.2	-	10
		20		5.00-10.00		16	16	M8	2803	16	2.5	-	10
		25		8.00-15.00				M10	5557	20	3	-	10

⚠Pilot Type is not available for D6, D8. ⚠Note the strength of undercut part for Internal Thread and Pilot. P1566
* 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	L	P	B
SHPAR10	L20.01	P4.05	B5
SDPCSU20	L50.00	P8.00	B3



Round Shape

D	Unit Price Threaded						Unit Price Internal Thread						Unit Price Pilot					
	①	②	③	④	⑤	⑥	①	②	③	④	⑤	⑥	①	②	③	④	⑤	⑥
6	SHPCB	SHPAR	SHPCHB	SHPCHR	SHPCSU	SHPCC	SHPAB	SHPAR	SHPABH	SHPAHR	SHPASU	SHPAC	SHPBB	SHPBR	SHPBHB	SHPBHR	SHPBSU	SHPBC
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Diamond Shape

D	Unit Price Threaded						Unit Price Internal Thread						Unit Price Pilot					
	①	②	③	④	⑤	⑥	①	②	③	④	⑤	⑥	①	②	③	④	⑤	⑥
6	SDPCB	SDPCR	SDPCHB	SDPCHR	SDPCSU	SDPCC	SDPAB	SDPAR	SDPABH	SDPAHR	SDPASU	SDPAC	SDPBB	SDPBR	SDPBHB	SDPBHR	SDPBSU	SDPBC
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Support Pins

Stepped, Configurable

■Features: Each dimension of Stepped Support Pins is configurable.

RoHS 10

Material	Surface Treatment	Hardness	Type					
			Press Fit	Tapped	Threaded	Press Fit	Tapped	Threaded
① SKS3 Equivalent	-	Treated Hardness: 60 ~ 63HRC	SHFJ	SHFU	SHFN	-	SHXU	SHXN
② SKS3 Equivalent	Hard Chrome Plating Plating Thickness: 3µm or more	Treated Hardness: 50 ~ 55HRC Plating Hardness: 750HV ~	GSHFJ	GSHFU	GSHFN	GSHXJ	-	-
③ SUS304	-	-	SSHFJ	SSHFU	SSHFN	-	-	SSHXN
⑤ SUS440C Equivalent	-	Treated Hardness: 50 ~ 55HRC	CSHFJ	CSHFU	CSHFN	CSHXJ	CSHXU	CSHXN

⚠SUS304 may not be polished and may have no centering hole.

⚠Q≤P-1 ⚠When K-Pitch x 2, the incomplete threaded portion is included in M x 1.5. ⚠SUS440C Equivalent has an identification groove at any position on D part.

Press Fit

Part Number	Type	D	P		Q	K	L	B	Unit Price Straight			Unit Price Shouldered		
			0.1mm Increment	Shouldered					①	②	③	④	⑤	⑥
Straight Shouldered SHFJ GSHXJ GSHFU GSHXU SSHFN CSHXU	Shouldered	3	3.5-6.0	3.0-5.0	2.00-5.00	3-6	10.00-60.00	2.0-5.0						
		4	4.5-7.0	3.0-5.0	2.00-6.00	4-8	10.00-60.00	2.0-10.0						
		5	5.5-8.0	3.0-7.0	2.00-7.00	5-10	10.00-60.00	2.0-10.0						
		6	6.5-10.0	5.0-7.0	4.00-9.00	6-12	10.00-80.00	2.0-12.0						
		8	9.0-13.0	5.0-8.0	4.00-12.00	8-16	10.00-80.00	2.0-15.0						
		10	11.0-15.0	6.0-11.0	5.00-14.00	10-20	10.00-100.00	2.0-20.0						

Tapped

Part Number	Type	D	P		Q	K	L	B	Unit Price Straight			Unit Price Shouldered		
			0.1mm Increment	Shouldered					①	②	③	④	⑤	⑥
Straight Shouldered SHFU SHXU GSHFU GSHXU CSHFU CSHXU	Shouldered	6	6.5-10.0	5.0-7.0	4.00-9.00	6-12	10.00-80.00	2.0-12.0						
		8	9.0-13.0	5.0-9.0	4.00-12.00	8-16	10.00-80.00	2.0-15.0						
		10	11.0-15.0	6.0-11.0	5.00-14.00	10-20	10.00-100.00	2.0-20.0						
		12	13.0-16.0	6.0-13.0	5.00-15.00	12-24	10.00-100.00	2.0-20.0						

Threaded

Note the strength of under-head part. P.1566

Part Number	Type	D	P		Q	K	L	B	Unit Price Straight			Unit Price Shouldered		
			0.1mm Increment	Shouldered					①	②	③	④	⑤	⑥
Straight Shouldered SHFN SHXN GSHFN GSHXN SSHFN CSHXN	Shouldered	3	3.5-6.0	3.0-5.0	2.00-5.00	0-6	10.00-60.00	2.0-5.0						
		4	4.5-7.0	3.0-5.0	2.00-6.00	0-8	10.00-60.00	2.0-10.0						
		5	5.5-8.0	3.0-7.0	2.00-7.00	0-10	10.00-60.00	2.0-10.0						
		6	6.5-10.0	5.0-7.0	4.00-9.00	0-12	10.00-80.00	2.0-12.0						
		8	9.0-13.0	5.0-9.0	4.00-12.00	0-16	10.00-80.00	2.0-15.0						
		10	11.0-15.0	6.0-11.0	5.00-14.00	0-20	10.00-100.00	2.0-20.0						

The dispersion of L dimension should be within 0.02 for same orders.

Ordering Example: SHFJ5 - P6.0 - Q4.50 - K5 - L30.55 - B3.2

Alterations	Wrench Flats		Screwdriver Slot		Relief	
	SC	HC	DRC	NNC		
Code	SC	HC	DRC	NNC		
Spec.	SC=1mm Increment SC>D Ordering Code SC8 ⚠For Tapped, SC=M1+3 ⚠Applicable to Straight only.	HC=1mm Increment HC>P HC>D Ordering Code HC10 ⚠Applicable to Shouldered only.	Width 0.8mm, Depth 1mm Ordering Code DRC ⚠Applicable to Threaded only.	Adds a relief at the thread end. Ordering Code NNC ⚠Applicable when K=0. ⚠Applicable to Threaded only.		