

Locating Pins (Spherical Large Head)

Locating Pins – Spherical Large Head

Buffed Product

Buffed Surface

RoHS10

Material No.	Material	Surface Treatment	Hardness	P Dimension Selectable		P Dimension Configurable		P, L & B Dimension Configurable	
				Type	D Tolerance & Shape	Type	D Tolerance & Shape	Type	D Tolerance & Shape
(1)	O1 Tool Steel Equivalent	—	Treated Hardness: 60–63 HRC min.	JPQ	B m6 PB Round p6	JPQ	A m6 PA Round p6	FPQ	A m6 PA Round p6
(2)	O1 Tool Steel Equivalent	Hard Chrome Plating	Hardness: 50–55 HRC min. Plating Hardness: 750 HV min.	—		GJPQ		GFPQ	
(3)	304 Stainless Steel Equivalent	—	—	SJPQ		SJPQ		SFPQ	
(4)	304 Stainless Steel Equivalent	Hard Chrome Plating	Plating Hardness: 750 HV min.	—		HJPQ		HFPQ	
(5)	440C or 420 Stainless Steel	—	Treated Hardness: 50–55 HRC min.	CJPQ		CJPQ		CFPQ	
(6)	O1 Tool Steel Equivalent	Buffed Surface	Treated Hardness: 60–63 HRC min.	—		MJPQ		MFPQ	
(7)	O1 Tool Steel Equivalent	Hard Chrome Plated + Buffed Surface	Hardness: 50–55 HRC min. Plating Hardness: 750 HV min.	—		MGJPQ		MGFPQ	
(8)	440C or 420 Stainless Steel	Buffed Surface	Treated Hardness: 50–55 HRC min.	—		MCJPQ		MCFPQ	

Some combinations are not available. Refer to the price list to select the available combination.

Round

Diamond

*The insertion guide is applicable to tolerance p6 only.

- 440C or 420 Stainless Steel has an identification groove on D part.
- Polished, centering hole is sometimes not available for 304 Stainless Steel.
- When the P dimension is small, a centering hole will cause the spherical section to become small.

Locating Pins for Height Adjusting with shorter B fixed dimension is also available. P.1616

P Selectable

Type	Part Number		D Tolerance		P	L	B	C	ℓ						
	D Tolerance & Shape	D	m6	p6											
JPQ SJPQ CJPQ	Round B m6 PB p6	1	+0.008	+0.012	2	3	3	0.1	0						
					3 4										
					4 5 6										
					5 6 7										
					6 7 8										
					7 8 9 10										
					9 10 11 12										
					12 13										
					10					+0.015	+0.024	15	10	1.5	1
					10					+0.006	+0.015	10	10	2	2

P Configurable

Type	Part Number		D Tolerance		P 0.01 mm Increment	L	B	C	ℓ	(W)
	D Tolerance & Shape	D	m6	p6						
JPQ GJPQ SJPQ HJPQ CJPQ	Round A m6 PA p6	1	+0.008	+0.012	1.50–2.50	3	3	0.1	0	—
					2.50–4.00					
					3.50–6.00					
					4.50–7.00					
					5.50–8.00					
					6.50–10.00					
					9.00–13.00					
					11.00–15.00					
					13.00–16.00					
					14.00–18.00					
Buff Finished MJQP MGJPQ MCJPQ	Diamond D m6 PD p6	8	+0.015	+0.024	9.00–13.00	15	8	1.5	1	3.5
					11.00–15.00					
					13.00–16.00					
					14.00–18.00					
13	+0.018	+0.029	17.00–25.00	22	10	2	2	2	7.0	
			14.00–18.00							
			17.00–25.00							
			22.00–30.00							
20	+0.021	+0.035	22.00–30.00	30	15	3	3	2	9.0	
			22.00–30.00							

Applicable when D≥5. Applicable when D≥2.

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continued

P, L & B Configurable

Type	Part Number		D Tolerance		P 0.01 mm Increment	L 1 mm Increment	B 0.1 mm Increment	C	ℓ	(W)							
	D Tolerance & Shape	D	m6	p6													
FPQ GFPQ SFPQ HFPQ CFPQ Buff Finished MFPQ MGFPQ MCFPQ	Round A m6 PA p6 Diamond D m6 PD p6	1	+0.008	+0.012	1.50–2.50	2, 3	2.0–5.0	0.1	0	—							
					2.50–4.00												
					3.50–6.00												
					4.50–7.00												
					5.50–8.00												
					6.50–10.00												
					9.00–13.00												
					11.00–15.00												
					13.00–16.00												
					14.00–18.00												
					17.00–25.00												
					22.00–30.00												
					20						+0.021	+0.035	20–40	5.0–20.0	3	2	9.0

Applicable when D≥5. Applicable when D≥2.

P Selectable

D	Available Types for Round Shape		
	(1) O1 Tool Steel Hardened JPQB JPQPB	(3) 304 Stainless Steel SJPQB SJPQPB	(5) 440C or 420 Stainless Steel CJPQB CJPQPB
1	•	•	•
2	•	•	•
3	•	•	•
4	•	•	•
5	•	•	•
6	•	•	•
8	•	•	•
10	•	•	•

P Configurable

D	Available Types for Round Shape								Available Types for Diamond Shape							
	(1) O1 Tool Steel Hardened JPQA JPQPA	(2) Hard O1 Tool Steel GJPQA GJPQPA	(3) 304 Stainless Steel SJPQA SJPQPA	(4) Hard 304 Stainless Steel HJPQA HJPQPA	(5) 440C or 420 Stainless Steel CJPQA CJPQPA	(6) O1 Tool Steel Hardened + Buffed MJQA MJQPA	(7) Hard O1 Tool Steel + Buffed MGJQA MGJQPA	(8) 440C or 420 Stainless Steel + Buffed MCJQA MCJQPA	(1) O1 Tool Steel Hardened JPQD JPQPD	(2) Hard O1 Tool Steel GJPQD GJPQPD	(3) 304 Stainless Steel SJPQD SJPQPD	(4) Hard 304 Stainless Steel HJPQD HJPQPD	(5) 440C or 420 Stainless Steel CJPQD CJPQPD	(6) O1 Tool Steel Hardened + Buffed MJQD MJQPD	(7) Hard O1 Tool Steel + Buffed MGJD MGJPD	(8) 440C or 420 Stainless Steel + Buffed MCJD MCJPD
1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
13	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
16	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	

P, L & B Configurable

D	Available Types for Round Shape								Available Types for Diamond Shape							
	(1) O1 Tool Steel Hardened FPQA FPQPA	(2) Hard O1 Tool Steel GFPQA GFPQPA	(3) 304 Stainless Steel SFPQA SFPQPA	(4) Hard 304 Stainless Steel HFPQA HFPQPA	(5) 440C or 420 Stainless Steel CFPQA CFPQPA	(6) O1 Tool Steel Hardened + Buffed MFPQA MFPQPA	(7) Hard O1 Tool Steel + Buffed MGFPQA MGFPQPA	(8) 440C or 420 Stainless Steel + Buffed MCFPQA MCFPQPA	(1) O1 Tool Steel Hardened FPQD FPQPD	(2) Hard O1 Tool Steel GFPQD GFPQPD	(3) 304 Stainless Steel SFPQD SFPQPD	(4) Hard 304 Stainless Steel HFPQD HFPQPD	(5) 440C or 420 Stainless Steel CFPQD CFPQPD	(6) O1 Tool Steel Hardened + Buffed MFPQD MFPQPD	(7) Hard O1 Tool Steel + Buffed MGFPQD MGFPQPD	(8) 440C or 420 Stainless Steel + Buffed MCFPQD MCFPQPD
1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
12	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
13	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
16	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	

Part Number Example

Part Number: [Type] [D Tolerance Shape] [D] - [P] - [L] - [B]

Example: JPQ A 4 - 5.00 - L5 - B2.5

Part Number Alterations

Part Number: [Type] - [P] - [L] - [B] - [RC]

Example: FPQA4 - P6.50 - L5 - B2.5 - RC

Application Example

Pins with spherical head prevent damages on mating parts.

Part Number Alterations

Part Number: [Type] - [P] - [L] - [B] - [RC]

Example: FPQA4 - P6.50 - L5 - B2.5 - RC

Alterations

Radius: RC (R0.5)

Code: RC

Spec: Changes the relief to R0.5. Ordering Code: RC. Applicable when P-D≥2.

Alteration is not available for P Dimension Selectable Type.