



Locating Pins (Large Flat Head)

D & P Tolerance Selectable

Locating Pins – Large Flat Head / D & P Tolerance Selectable



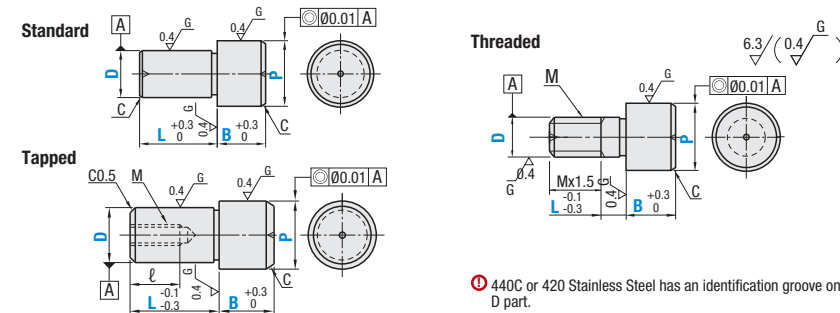
RoHS10

Alteration CN

Tolerance Selection

| D or P | Standard Grade | | | | Precision Grade | | |
|--------|----------------|--------|--------|--------|-----------------|--------|---|
| | m6 | p6 | g6 | h7 | S | A | B |
| 1.00 | +0.008 | +0.012 | -0.002 | 0 | | | |
| 3.00 | +0.002 | +0.006 | -0.008 | -0.010 | | | |
| 3.01 | +0.012 | +0.020 | -0.004 | 0 | | | |
| 6.00 | +0.004 | +0.012 | -0.012 | -0.012 | | | |
| 6.01 | +0.015 | +0.024 | -0.005 | 0 | 0 | +0.005 | 0 |
| 10.00 | +0.006 | +0.015 | -0.014 | -0.015 | | | |
| 10.01 | +0.018 | +0.029 | -0.006 | 0 | | | |
| 18.00 | +0.007 | +0.018 | -0.017 | -0.018 | | | |
| 18.01 | +0.021 | +0.035 | -0.007 | 0 | | | |
| 30.00 | +0.008 | +0.022 | -0.020 | -0.021 | | | |

| Material No. | Material | Surface Treatment | Hardness | Type | | |
|--------------|--------------------------------|-------------------|--|----------|--------|----------|
| | | | | Standard | Tapped | Threaded |
| (1) | O1 Tool Steel Equivalent | — | 60-63 HRC min. | KFFA | KFFTA | KFFNA |
| (2) | O1 Tool Steel Equivalent | Chrome Plating | 50-55 HRC min. Plating Hardness 750 HV min. | GKFFA | GKFFTA | GKFFNA |
| (3) | O1 Tool Steel Equivalent | — | — | BKFFA | BKFFTA | — |
| (4) | 304 Stainless Steel Equivalent | — | — | SKFFA | SKFFTA | SKFFNA |
| (5) | 304 Stainless Steel Equivalent | Chrome Plating | Plating Hardness 750 HV min. | — | HKFFTA | — |
| (6) | 440C or 420 Stainless Steel | — | 50-55 HRC min. | CKFFA | CKFFTA | — |



Standard

| Type | Part Number | | D | P | L | B | C |
|---|------------------------------|-----------------------------------|----|-------------------|----------------|------------------|-----|
| | D Tolerance Selection | P Tolerance Selection | | | | | |
| KFFA GKFFA* BKFFA SKFFA CKFFA | M P G H *A *B | S M P G H *A *B | 1 | 0.01 mm Increment | 1 mm Increment | 0.1 mm Increment | 0.1 |
| | | | 2 | 1.50-3.00 | 2-3 | 2.0-5.0 | 0.1 |
| | | | 3 | 2.50-6.00 | 2-6 | 2.0-15.0 | 0.5 |
| | | | 4 | 3.50-8.00 | 3-10 | 2.0-15.0 | |
| | | | 5 | 4.50-8.00 | 3 (4)-14 | 2.0-15.0 | |
| | | | 6 | 5.50-10.00 | 5-15 | 2.0-15.0 | 1 |
| | | | 8 | 6.50-10.00 | 5-15 | 2.0-30.0 | |
| | | | 10 | 8.50-15.00 | 5-16 | 2.0-30.0 | 1.5 |
| | | | 12 | 11.00-17.00 | 5-20 | 3.0-30.0 | |
| | | | 13 | 13.00-18.00 | 6-24 | 3.0-30.0 | |
| | | | 16 | 14.00-20.00 | 7-26 | 5.0-30.0 | 2 |
| | | | 18 | 17.00-27.00 | 8-32 | 5.0-35.0 | |
| | | | 20 | 22.00-30.00 | 10-40 | 5.0-40.0 | 3 |

Ⓜ Precision Grade Tolerance is not available for Chrome Plated Product Types.

Tapped

| Type | Part Number | | D | P | L | B | M | I | C |
|---|-----------------------|-----------------------|-----|-------------------|----------------|------------------|------|----|-----|
| | D Tolerance Selection | P Tolerance Selection | | | | | | | |
| KFFTA GKFFTA BKFFTA SKFFTA HKFFTA CKFFTA | M P G H | S M P G H | 6 | 0.01 mm Increment | 1 mm Increment | 0.1 mm Increment | M3 | 5 | 1 |
| | | | 6T | 6.50-10.00 | 6-12 | 1.5-15.0 | M2.6 | 4 | |
| | | | 8 | 8-16 | 6-12 | 1.5-30.0 | M5 | 8 | 1.5 |
| | | | 8T | 8.50-15.00 | 6-12 | 1.5-30.0 | M4 | 6 | |
| | | | 10 | 10-20 | 6-16 | 3.0-30.0 | M5 | 8 | 2 |
| | | | 10T | 11.00-17.00 | 6-16 | 3.0-30.0 | M4 | 6 | |
| | | | 12 | 12-24 | 8-18 | 3.0-30.0 | M5 | 8 | |
| | | | 12T | 13.00-18.00 | 8-18 | 3.0-30.0 | M4 | 6 | 2 |
| | | | 13 | 13-26 | 8-20 | 5.0-30.0 | M8 | 10 | |
| | | | 13T | 14.00-20.00 | 8-20 | 5.0-30.0 | M6 | 9 | 3 |
| | | | 16 | 16-32 | 10-24 | 5.0-35.0 | M8 | 12 | |
| | | | 16T | 17.00-27.00 | 10-24 | 5.0-35.0 | M6 | 9 | |
| | | | 20 | 20-40 | 12-30 | 5.0-40.0 | M8 | 12 | |
| | | | 20T | 22.00-30.00 | 12-30 | 5.0-40.0 | M6 | 9 | |

Ⓜ Pins with D value ending in T (ex. 8T) have one size smaller thread diameter and larger wall thickness. (Actual D dimension is the number without "T".)

Ⓜ Note the strength of under-head part. P.1542 Ⓜ Please confirm pilot hole depth on P.1542. Holes may go through.

Threaded

| Type | Part Number | | D | P | L | B | M | C |
|----------------------------|------------------------------|-----------------------------------|----|-------------------|----------------|------------------|-----|-----|
| | D Tolerance Selection | P Tolerance Selection | | | | | | |
| KFFNA GKFFNA* SKFFNA | M P G H *A *B | S M P G H *A *B | 3 | 0.01 mm Increment | 1 mm Increment | 0.1 mm Increment | M3 | 0.5 |
| | | | 4 | 3.50-8.00 | 0-6 | 3.0-10.0 | M4 | |
| | | | 5 | 4.50-8.00 | 0-8 | 4.0-10.0 | M4 | |
| | | | 6 | 5.50-8.00 | 0-10 | 4.0-15.0 | M5 | 1 |
| | | | 8 | 6.50-10.00 | 0-10 | 4.0-15.0 | M6 | |
| | | | 8 | 8.50-15.00 | 0-10 | 5.0-30.0 | M8 | 1.5 |
| | | | 10 | 11.00-17.00 | 0-15 | 6.0-30.0 | M10 | |
| | | | 12 | 13.00-20.00 | 0-15 | 6.0-30.0 | M12 | 2 |
| | | | 16 | 17.00-27.00 | 0-20 | 7.0-30.0 | M16 | |
| | | | 20 | 22.00-30.00 | 0-20 | 10.0-30.0 | M20 | 3 |

Ⓜ Precision Grade Tolerance is not available for Chrome Plated Product Types.

Ⓜ For full thread, specify L = 0 and alteration NNC.

Part Number Example: - - - - - - - -

Part Number Alterations: - - - -

| Alterations | C-Chamfered Size | Wrench Hole | Air Vent | Insertion Guide | Relief | Radius |
|-------------|---|---|---|--|---|---|
| Code | CN | LAC | AC | GDC | NNC | RC |
| Spec. | Changes to C chamfering at P dimension to 0.5 or less. - Standard D≥3 Applicable to threaded type when D ≥ 4 - Not applicable to D dimension part. | Machines wrench hole. - Ordering Code: LAC - Press fit is not applicable. | Adds an air vent. - Not applicable to threaded type. | Adds the insertion guide. Ordering Code: GDC - Not applicable when D≤2 - Not applicable to threaded Type. | Ordering Code: NNC - Applicable when L=0 - Adds a relief at the thread end. | Changes the relief to R0.5. Ordering Code:RC |

Locating Pins

Side Locating

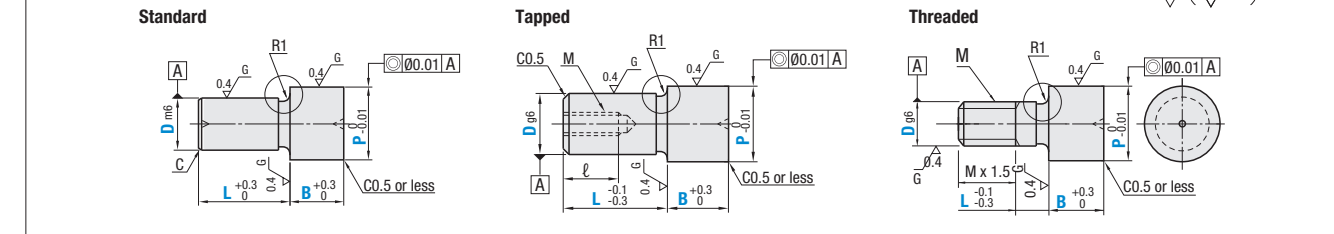
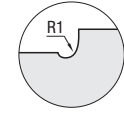
Locating Pins – Side Locating



RoHS10

| Material No. | Material | Surface Treatment | Hardness | Type | | |
|--------------|--------------------------------|-------------------|--|----------|--------|----------|
| | | | | Standard | Tapped | Threaded |
| (1) | 4115 Alloy Steel | — | Carburized 55 HRC min. (Depth: 0.7-0.8) | FPYT | FPYTM | FPYN |
| (2) | 304 Stainless Steel Equivalent | — | — | SFPYT | SFPYTM | SFPYN |

Surface Finish Relief



Standard

| Type | Part Number | | D | P | L | B | C |
|---------------|-----------------------|-----------------------|----|-------------------|----------------|------------------|-----|
| | D Tolerance Selection | P Tolerance Selection | | | | | |
| FPYT SFPYT | M P G H | S M P G H | 6 | 0.01 mm Increment | 1 mm Increment | 0.1 mm Increment | 1 |
| | | | 8 | 10.00-13.00 | 6-12 | 2.0-15.0 | 1.5 |
| | | | 10 | 12.00-15.00 | 8-16 | 3.0-20.0 | |
| | | | 12 | 14.00-16.00 | 10-20 | 3.0-30.0 | |
| | | | 13 | 16.00-18.00 | 12-24 | 5.0-30.0 | 2 |
| | | | 16 | 17.00-20.00 | 13-26 | 5.0-30.0 | |
| | | | 16 | 20.00-25.00 | 16-32 | 5.0-35.0 | |
| | | | 20 | 24.00-30.00 | 20-40 | 5.0-40.0 | 3 |

Tapped

| Type | Part Number | | D | P | L | B | M | ℓ |
|-----------------|-----------------------|-----------------------|----|-------------------|----------------|------------------|------|----|
| | D Tolerance Selection | P Tolerance Selection | | | | | | |
| FPYTM SFPYTM | M P G H | S M P G H | 6 | 0.01 mm Increment | 1 mm Increment | 0.1 mm Increment | M2.6 | 4 |
| | | | 8 | 10.00-13.00 | 9-12 | 2.0-15.0 | M4 | 6 |
| | | | 10 | 12.00-15.00 | 12-16 | 3.0-20.0 | M4 | 6 |
| | | | 12 | 14.00-16.00 | 12-20 | 3.0-30.0 | M5 | 8 |
| | | | 13 | 16.00-18.00 | 12-24 | 5.0-30.0 | M5 | 8 |
| | | | 16 | 17.00-20.00 | 16-26 | 5.0-30.0 | M8 | 12 |
| | | | 16 | 20.00-25.00 | 16-32 | 5.0-35.0 | M8 | 12 |
| | | | 20 | 24.00-30.00 | 20-40 | 5.0-40.0 | M8 | 12 |

Ⓜ Note the strength of under-head part. P.1542

* 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.

Threaded

| Type | Part Number | | D | P | L | B | M |
|---------------|-----------------------|-----------------------|----|-------------------|----------------|------------------|-----|
| | D Tolerance Selection | P Tolerance Selection | | | | | |
| FPYN SFPYN | M P G H | S M P G H | 6 | 0.01 mm Increment | 1 mm Increment | 0.1 mm Increment | M6 |
| | | | 8 | 10.00-13.00 | 3-10 | 2.0-15.0 | M8 |
| | | | 10 | 12.00-15.00 | 5-10 | 3.0-15.0 | M10 |
| | | | 12 | 14.00-16.00 | 5-15 | 3.0-20.0 | M12 |
| | | | 16 | 16.00-18.00 | 8-15 | 5.0-20.0 | M16 |
| | | | 20 | 20.00-25.00 | 8-20 | 5.0-20.0 | M20 |

Part Number Example: - - -

Static Shear Failure Data

| Materials | Static Yield Load (KN) | |
|-----------------------------|------------------------|----------------|
| | Relief | R ₁ |
| Carburized 4115 Alloy Steel | 18.8 | 21.3 |

Ⓜ Values are reference and not guaranteed values.