



Bushings for Locating Pins

Oval Type Compact Flanged / Economy Type

Oval Type Compact Flanged



Oval Type Compact Flanged Economy Type



RoHS 10

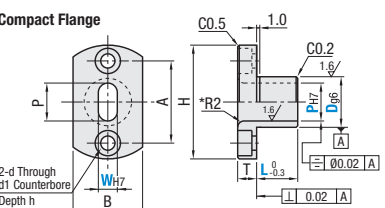
Compact Flange

| Type | Material | Surface Treatment | Hardness |
|-------|-----------------------------|----------------------------|----------------|
| JBEH | 01 Tool Steel or Equivalent | — | 56–60 HRC min. |
| JBEMH | 01 Tool Steel or Equivalent | Electroless Nickel Plating | 56–60 HRC min. |

Compact Flanged Economy

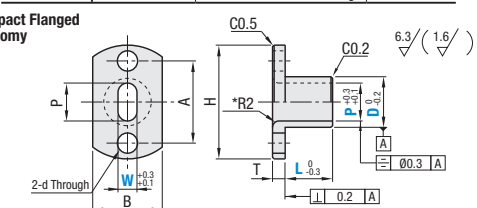
| Type | Material | Surface Treatment | Hardness |
|------|---------------------------------|----------------------------|----------------|
| JBFR | 1045 Carbon Steel or Equivalent | — | — |
| JBFM | 1045 Carbon Steel or Equivalent | Electroless Nickel Plating | — |
| JBFK | 1045 Carbon Steel or Equivalent | — | 45–50 HRC min. |
| JBFN | 1045 Carbon Steel or Equivalent | Electroless Nickel Plating | 45–50 HRC min. |

Compact Flange



2-d Through d1 Counterbore Depth h

Compact Flanged Economy



* When thickness is 2mm or less and (D-P)/2 ≤ 2, R is 0.5.


Compact Flange

| Part Number Type | D | D Tolerance g6 | P _{H7} 0.01 mm Increment | W _{H7} 0.01 mm Increment | L 1 mm Increment | T | H | A | B | d | d ₁ | h |
|---------------------|------------------|-------------------|--------------------------------------|--------------------------------------|---------------------|-----|----|-----|---|---|----------------|---|
| | | | | | | | | | | | | |
| 12 | -0.006 -0.017 | 4.00–10.00 | 28 | 20 | 15 | | | | | | | |
| 16 | | 8.00–14.00 | 36 | 26 | 22 | | | | | | | |
| 20 | -0.007 -0.020 | 10.00–18.00 | 40 | 30 | 25 | | | | | | | |
| 25 | | 13.00–22.00 | 44 | 34 | 30 | | | | | | | |
| 30 | | 16.00–25.00 | 56 | 42 | 35 | | | | | | | |
| 35 | -0.009 -0.025 | 18.0–25.00 | 60 | 46 | 40 | 6.6 | 11 | 6.5 | | | | |

Compact Flanged Economy Type

| Part Number Type | D | P 0.1 mm Increment | W 0.1 mm Increment | L 1 mm Increment | T | H | A | B | d |
|---------------------|-----------|-----------------------|-----------------------|---------------------|---|---|---|---|---|
| | | | | | | | | | |
| 12 | 4.0–10.0 | 28 | 20 | 15 | | | | | |
| 15 | 8.0–13.0 | | | 17 | | | | | |
| 16 | 8.0–14.0 | | | | | | | | |
| 18 | 10.0–16.0 | | | 20 | | | | | |
| 20 | 10.0–18.0 | | | 22 | | | | | |
| 25 | 13.0–22.0 | | | 30 | 6 | | | | |
| 30 | 16.0–25.0 | | | 35 | | | | | |
| 35 | 18.0–25.0 | | | 40 | | 8 | | | |

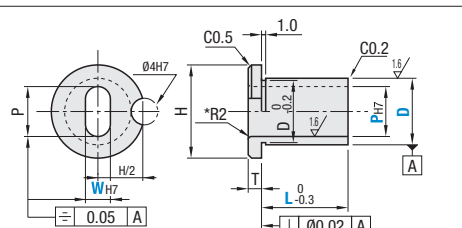
Oval with Flange (Dowel Pin)



RoHS 10

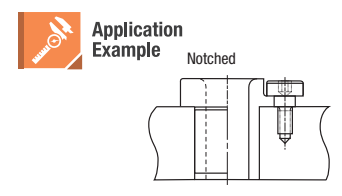
Type

| Type | Material | Surface Treatment | Hardness |
|------|-----------------------------|----------------------------|----------------|
| p6 | 01 Tool Steel or Equivalent | — | 56–60 HRC min. |
| m6 | 01 Tool Steel or Equivalent | Electroless Nickel Plating | 56–60 HRC min. |



*When wall is 2 mm or less and (D-P)/2 ≤ 2, R is 0.5.

| Part Number Type | D | D Tolerance | | P _{H7} 0.01 mm Increment | W _{H7} 0.01 mm Inc. | L 1 mm Increment | T | H |
|---------------------|------------------|------------------|------------------|--------------------------------------|---------------------------------|---------------------|---|----|
| | | p6 | m6 | | | | | |
| (p6) JBPE | 10 | +0.024 +0.015 | +0.015 +0.006 | 4.00–8.00 | 3.00 ≤ W < P | 8–40 L+T ≤ Px3 | 3 | 14 |
| JBPEM | 12 | +0.029 +0.018 | +0.018 +0.007 | 4.00–10.00 | | | | |
| 16 | | | | 8.00–14.00 | | | | |
| 20 | | | | 10.00–18.00 | | | | |
| 25 | +0.035 +0.022 | +0.021 +0.008 | | 13.00–22.00 | | | | |
| 30 | | | | 16.00–25.00 | | | | |
| (m6) JBE JBEM | 35 | +0.042 +0.026 | +0.025 +0.009 | 18.0–25.00 | | | 5 | 35 |
| | | | | | | | 5 | 40 |

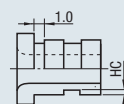



Part Number Example

| Part Number | P | L |
|-------------|--------|-------|
| JBAFG8 | P4.1 | L11 |
| JBHG20 | P13.0 | L20 |
| JBHFGY18 | P12.00 | L18.0 |
| JBFR10 | P6.0 | L10 |
| JBPE10 | P6.8 | L15 |

Part Number Alterations

| Part Number | P | W | L | (HC, RH) |
|-------------|-------|------|-------|----------|
| JBAFGP18 | P8.00 | W4.5 | L15.0 | HC |
| JBFR10 | P6.0 | W4.5 | L10 | RH |

| Alterations | Code | Specifications |
|---|------|---|
| <p>Set Screw Groove Depth</p>  | HC | <p>Changes the depth of set screw groove depth from 0.5–1.0 mm.</p> <p>Ordering Code: HC</p> <ul style="list-style-type: none"> Applicable to Retaining Straight Type only. Applicable to D dimension 18 or more. |
| <p>Inner Diameter Radius R</p>  | RH | <p>Changes the inner diameter radius R from shoulder side to D dimension end face.</p> <p>Size of R will be the same as R on shoulder side.</p> <p>Ordering Code: RH</p> <ul style="list-style-type: none"> Applicable to Compact Flange, Economy Type only. (D-P)/2-R ≥ 1.7 |