

Floating Joints / Quick Connection Type

Circular Tapped / Circular Threaded Type

Surface treatment of 304 Stainless Steel has changed from Salt-bath Nitriding to Nitride treatment.
Better corrosion resistance and hardness, less particle generation on the surface than the conventional products.

Floating Joints – Circular Tapped / Circular Threaded Type

RoHS10

| Type | | Material | Surface Treatment | Surface Hardness |
|--------|----------|---------------------------------|---------------------|------------------|
| Tapped | Threaded | | | |
| FJCL | FJCLM | 1045 Carbon Steel or Equivalent | Salt-bath Nitriding | 500 HV min. |

Tapped Type

Threaded Type

25/(25/6.3/)

ⓘ Salt-bath Nitriding treatment may cause uneven color, which doesn't affect mechanical function.
ⓘ For details of Salt-bath Nitriding, refer to P.4029

Circular Tapped Type

| Type | M-Pitch | T | h | L | D | d | B | F | C | Applicable Holder | | |
|------|---------|---------|---|----|----|----|----|----|-----|----------------------|------------------------------|----|
| | | | | | | | | | | FJCL T Dimension* | HLRA HLRB HLRC HLRE | |
| FJCL | 3-0.5 | 4* 5 | 3 | 5 | 6 | 10 | 8 | 3 | 0.2 | 4 | 6 | |
| | 4-0.7 | 3 4* 5 | | 6 | 7 | 14 | 10 | 4 | | | 7 (*1) | |
| | 5-0.8 | 4 5 6* | | 7 | 8 | 12 | 5 | 8 | | | | |
| | 6-1.0 | 4 6* 8 | 4 | 8 | 10 | 16 | 14 | 6 | | 0.5 | 8 | 10 |
| | 8-1.25 | 8* 9 10 | | 9 | 13 | 20 | 17 | 7 | | | | 13 |
| | 10-1.25 | 8* | | 11 | 16 | 24 | 21 | 8 | | | | 16 |
| | 10-1.5 | 8* 9 10 | | 12 | 18 | 26 | 22 | 10 | | | | 18 |
| | 12-1.25 | 8 12* | | 13 | 21 | 30 | 27 | 11 | | | | 21 |
| | 14-1.5 | 12* | | 15 | 25 | 35 | 30 | 13 | | | | 25 |
| | 18-1.5 | 15* | | | | | | | | | | |

ⓘ (*1) When M-Pitch is 4-0.7 and selecting T=4, applicable holder is HRLB_
ⓘ For detailed holder dimensions, refer to P.3644-3645.

Circular Threaded Type

| Type | M-Pitch | T | h | D | d | L | F | L ₁ | ℓ | B | R | C | Applicable Holder | | | | |
|--------|---------|--------|---|----|----|----|----|----------------|----|----|-----|-----|-----------------------|-------|---|----|----|
| | | | | | | | | | | | | | FJCLM T Dimension* | HLRB_ | | | |
| FJCLM | 4-0.7 | 3 4* | 3 | 4 | 14 | 6 | 4 | 11 | 9 | 10 | 1.5 | 0.2 | 4 | 4 | | | |
| | 5-0.8 | 4* 5 6 | | 6 | 7 | 5 | 13 | 11 | 12 | 6 | | | | | | | |
| | 6-1.0 | 4* 6 | | 7 | 16 | 8 | 6 | 19 | 17 | 14 | | | | 7 | | | |
| | 8-1.25 | 6* 8 | 4 | 10 | 20 | 9 | 7 | 20 | 18 | 17 | | | 2 | 0.5 | 6 | 10 | |
| | 10-1.5 | 8* | | 13 | 24 | 11 | 8 | 24 | 21 | 21 | | | | | | 8 | 13 |
| | 16-2.0 | 12* | | 21 | 35 | 13 | 11 | 35 | 32 | 30 | | | | | | 12 | 21 |
| 20-2.5 | 15* | | 5 | 25 | 40 | 15 | 13 | 40 | 37 | 36 | | | 15 | 25 | | | |

ⓘ For holder dimension details, refer to P.3644-3645.

Part Number Example: **FJCL6-1.0 - 8**

Holder

Compact / L-Shaped Type

Surface treatment of 304 Stainless Steel has changed from Salt-bath Nitriding to Nitride treatment.
Better corrosion resistance and hardness, less particle generation on the surface than the conventional products.

Holder – Compact Type

RoHS10

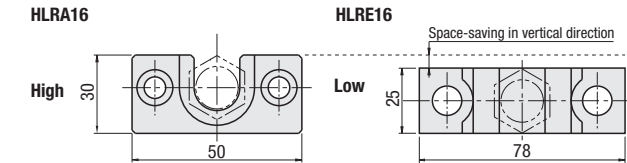
| Type | Material | Surface Treatment | Surface Hardness |
|--------|---------------------------------|---------------------|------------------|
| HLRE | 1045 Carbon Steel or Equivalent | Salt-bath Nitriding | 500 HV min. |
| HLRESW | 304 Stainless Steel | Nitriding Treatment | 1,000 HV min. |

*D=18, 21, 25 is straight without taper.
ⓘ Salt-bath Nitriding may cause uneven color, which doesn't affect mechanical function.
ⓘ For details of Salt-bath Nitriding, refer to P.4029

| Part Number Type | D | B | (C) | D ₁ | T | T ₁ | W | H | P | R | d | L | t | A | E |
|------------------|----|------|-----|----------------|-----|----------------|----|------|-----|------|----|------|----|---|---|
| | | | | | | | | | | | | | | | |
| 7 | 10 | 11.5 | 8 | 4 | 45 | 12 | 32 | 5 | 4.5 | 13.5 | 5 | 13 | 20 | | |
| 8 | 12 | 13.9 | 9 | 6 | 48 | 14 | 34 | 5.5 | 5.5 | 14.5 | 6 | 15.4 | 22 | | |
| 10 | 14 | 16.2 | 11 | 8 | 52 | 16.5 | 38 | 7 | 6.8 | 16.5 | 7 | 17.5 | 24 | | |
| 13 | 17 | 19.6 | 14 | 12 | 63 | 20 | 46 | 8 | 9 | 20.5 | 8 | 21 | 30 | | |
| 16 | 21 | 24.2 | 18 | 15 | 78 | 25 | 58 | 10 | 11 | 22.5 | 10 | 25.5 | 39 | | |
| 18 | 23 | 26.6 | 20 | 18 | 90 | 26.5 | 66 | 11 | 12 | 28.5 | 12 | 28.5 | 50 | | |
| 21 | 26 | 30 | 23 | 21 | 96 | 29 | 72 | 12 | 13 | 31.5 | 15 | 31.5 | 56 | | |
| 25 | 30 | 34.6 | 27 | 25 | 104 | 32.5 | 80 | 11.5 | 13 | 35.5 | 15 | 35.2 | 64 | | |

Part Number Example: **HLRE8**

- Features**
- In comparison with the conventional holder (HLRA), overall height (H dimension) is lower.
 - The holder saves space.
 - The conventional floating joints (FJR etc.) can be used together.



Holder – L-Shaped Type

Holder – L-Shaped Type

| Type | Material | Surface Treatment | Surface Hardness |
|------|---------------------------------|---------------------|------------------|
| HLRL | 1018 Carbon Steel or Equivalent | Salt-bath Nitriding | 500 HV min. |

ⓘ Salt-bath Nitriding may cause uneven color, which doesn't affect mechanical function.
ⓘ For details of Salt-bath Nitriding, refer to P.4029

| Part Number Type | D | H | B | D ₁ | T | L | W | a | P | S | d |
|------------------|----|----|----|----------------|----|-----|----|----|----|-----|---|
| | | | | | | | | | | | |
| 7 | 20 | 10 | 8 | 6 | 19 | 22 | 6 | 10 | 14 | 4.5 | |
| 8 | 25 | 12 | 9 | 8 | 22 | 22 | 7 | 12 | 14 | 5.5 | |
| 10 | 30 | 14 | 11 | 10 | 25 | 32 | 8 | 14 | 20 | 6.5 | |
| 13 | 35 | 17 | 14 | 12 | 32 | 40 | 10 | 20 | 25 | 9 | |
| 16 | 40 | 21 | 18 | 15 | 38 | 50 | 12 | 26 | 30 | 11 | |
| 18 | 45 | 23 | 20 | 18 | 40 | 60 | 14 | 34 | 40 | 13 | |
| 21 | 50 | 26 | 23 | 21 | 50 | 80 | 15 | 40 | 50 | 15 | |
| 25 | 60 | 30 | 27 | 25 | 60 | 100 | 19 | 40 | 60 | 19 | |

Part Number Example: **HLRL10**

