

# Compact Floating Joints

## Extension Rod 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.

**Compact Floating Joints – Extension Rod Type**

**RoHS 10**

**L Selectable**  
**FJLC**  
**FJLCSW**

**L Configurable**  
**FJL**  
**FJLSW**

- Ⓢ Salt-bath Nitriding treatment may cause uneven color, which doesn't affect mechanical function.
- Ⓢ No Salt-bath Nitriding treatment on the thread end.
- Ⓢ For details of Salt-bath Nitriding, refer to P.4029

L Selectable	L Configurable	Material	Surface Treatment	Hardness
<b>FJLC</b>	<b>FJL</b>	1045 Carbon Steel or Equivalent	Salt-bath Nitriding	500 HV min.
<b>FJLCSW</b>	<b>FJLSW</b>	304 Stainless Steel	Nitriding Treatment	1,000 HV min.

### L Selectable

Part Number		L	T	h	D	B	(C)	Applicable Holder
Type	M-Pitch							
<b>FJLC</b> <b>FJLCSW</b>	3-0.5	10 12 15 18 20 25	4	3	4	6	6.9	4
	4-0.7	12 15 18 20 25 30			6	8	9.2	6
	5-0.8	15 18 20 25 30 40			7	10	11.5	7
	6-1.0	18 20 25 30 40 50	6	4	10	14	16.2	10
	8-1.0	25 30 40 50 60 70			13	17	19.6	13
	8-1.25	30 40 50 60 70 80			16	21	24.2	16
	10-1.25	40 50 60 70 80 90	8	4	18	23	26.6	18
	10-1.5	50 60 70 80 90 100			21	26	30	21
	12-1.5	70 80 90 100						

### L Configurable

Part Number		T	L 1 mm Increment	h	D	B	(C)
Type	M-Pitch						
<b>FJL</b> <b>FJLSW</b>	3-0.5	3 4* 5 6	3-50	3	4	6	6.9
	4-0.7	3 4* 5 6 8	3-60		6	8	9.2
	5-0.8	3 4* 5 6 8 9 10	3-60		7	10	11.5
	6-1.0	3 4* 5 6 8 9 10 12	4-80	4	10	14	16.2
	8-1.0	4 5 6* 8 9 10 12 13 15 16	4-100		13	17	19.6
	8-1.25	4 5 6 8* 9 10 12 13 15 16 19 20	4-100		16	21	24.2
	10-1.25	5 6 8* 9 10 12 13 15 16 19 20	5-100	5	18	23	26.6
	10-1.5	5 6 8 9 10 12* 13 15 16 19 20	5-100		21	26	30
	12-1.5	8 9 10 12* 13 15 16 19 20	8-100		25	30	34.6
	14-1.5	12 15* 20	10-100				
	18-1.5						
	22-1.5						

Ⓢ When h+T+L≤3M, the tapped hole goes through.

Ⓢ FJLSW is not available for M22-1.5.

### Floating Joints & Holders Application Table (FJL / FJLSW)

M-Pitch	FJL FJLSW T Dimension*	HLRA_P.3644 HLRB_P.3644 HLRC_P.3645	FJL FJLSW T Dimension*	HLRE_P.3643	FJL FJLSW T Dimension	HLRD_P.3645	FJL FJLSW T Dimension	HLRL_P.3643	FJL FJLSW T Dimension	HLRAF_P.3644
3-0.5	4									
4-0.7	4								3-6	6-3-6
5-0.8	4									
6-1.0	4									
8-1.0	6									
8-1.25	6									
10-1.25	6									
10-1.5	8									
12-1.25	8									
12-1.5	8									
14-1.5	12									
18-1.5	12									
22-1.5	15									

\*For detailed holder dimensions, refer to P.3644-3645

**Part Number Example**

Part Number - L  
**FJLC8-1.0 - 25**

Part Number - T - L  
**FJL6-1.0 - 6 - 70**

**Application Example**

FJLC  
Cylinder Rod

FJL  
Flat Bar, Plate, etc.

For U groove machining, refer to D, and "a" dimension of the holder indicated on P.3644-3645

# Compact Floating Joints

## Extension Rod Threaded Type

**Compact Floating Joints – Extension Rod Threaded Type**

**RoHS 10**

**L Selectable**  
**FJLCM**

**L Configurable**  
**FJLLM**

- Ⓢ Salt-bath Nitriding treatment may cause uneven color, which doesn't affect mechanical function.
- Ⓢ No Salt-bath Nitriding treatment on F Dimension.
- Ⓢ For details of Salt-bath Nitriding, refer to P.4029

L Selectable Type	L Configurable	Material	Surface Treatment	Hardness
<b>FJLCM</b>	<b>FJLLM</b>	1045 Carbon Steel or Equivalent	Salt-bath Nitriding	500 HV min.

### L Selectable

Part Number		L Selection	T	h	D	F	ℓ	B	(C)	R	Applicable Holder
Type	M-Pitch										
<b>FJLCM</b>	3-0.5	10 12 15	4	3	4	8	6	6	6.9	1	4
	4-0.7	12 15 18 20			6	11	9	8	9.2	6	
	5-0.8	15 18 20 25			7	13	11	10	11.5	7	
	6-1.0	18 20 25 30	6	4	10	20	18	14	16.2	1.5	10
	8-1.25	25 30 40			13	24	21	17	19.6	13	
	10-1.5	30 40 50			21	40	37	26	30	2	21
	16-2.0	60 70 80	15	5	25	50	46	30	34.6	2	25
	20-2.5	70 80 90 100									

### L Configurable

Part Number		T Selection	Specify in 1 mm Increment	h	D	F	ℓ	B	(C)	R
Type	M-Pitch									
<b>FJLLM</b>	3-0.5	3 4*	3-15	3	4	8	6	6	6.9	1
	4-0.7	3 4* 5 6 8	3-20		6	13	11	8	9.2	
	5-0.8	3 4* 5 6 8 9 10	3-25		7	19	17	10	11.5	
	6-1.0	4* 5 6 8	4-30	4	10	20	18	14	16.2	1.5
	8-1.25	5 6* 8	4-40		13	24	21	17	19.6	
	10-1.5	6 8* 9 10 12	4-50		21	40	37	26	30	2
	16-2.0	12* 15 20	8-80	5	25	50	46	30	34.6	
	20-2.5	12 15* 20	10-100		27	60	56	32	36.9	2.5
	22-2.5	12 15 20*	10-100							

### Floating Joint and Holder Application Table (FJLLM)

M-Pitch	FJLCM FJLLM T Dimension*	HLRA_P.3644 HLRB_P.3644 HLRC_P.3645	FJLCM FJLLM T Dimension*	HLRE_P.3643	FJLLM T Dimension	HLRD_P.3645	FJLLM T Dimension	HLRL_P.3643	FJLLM T Dimension	HLRAF_P.3644
3-0.5										
4-0.7	4									
5-0.8	4									
6-1.0	4									
8-1.25	6									
10-1.5	8									
16-2.0	12									
20-2.5	15									
22-2.5	20									

Ⓢ For holders of size 27, only HLRA and HLRC are available.

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

**Part Number Example**

Part Number - L  
**FJLCM6-1.0 - 25**

Part Number - T - L  
**FJLLM8-1.25 - 6 - 40**

**Application Example**

FJLLM  
HLRA