

Floating Joints

Quick Connection Type

Features: Length can be configured in 1mm increments.

Type	Material	Surface Treatment	Hardness
FJGF	1045 Carbon Steel or Equivalent	Hard Chrome Plating	750 HV min.
FJRL	1045 Carbon Steel or Equivalent	Salt-bath Nitriding	500 HV min.
FJRSL	304 Stainless Steel	Nitride Treatment	1000 HV min.

Ⓢ For details of Salt-bath Nitriding, see P.4029
 Ⓢ Salt-bath Nitriding may cause uneven color, which doesn't affect mechanical function.
 Ⓢ No Salt-bath Nitriding Treatment on the Thread End of FJRL.

T / L Configurable

Part Number	T	L	h	D	B	C	
Type	M-Pitch	0.1 mm Increment	1 mm Increment				
FJGF	3-0.5	2.0-20.0	3-10	6	8	9.2	
	4-0.7		3	7	10	11.5	
	5-0.8		4	8	12	13.9	
	6-1.0		5	10	14	16.2	
	8-1.0	3.0-20.0	4-30	13	17	19.6	
	8-1.25		4	16	21	24.2	
	10-1.5		5	18	23	26.6	
	12-1.25		6	21	26	30	
	12-1.5	4.0-20.0	5-40	5	25	34.6	
	14-1.5		6	27	32	36.9	
	16-1.5						
	18-1.5						
22-1.5	10.0-30.0	10-40					

- Ⓢ When $h + T + L \leq 3M$, the tapped hole may go through.
- Ⓢ FJGF is a floating connector for air cylinders.

Example of T Dimension Configuring Method

– Configure T Dimension when using an Original Holder/Flat Bar combination.
 – It is possible to minimize backlash by "Size Configuration allowing for Groove Width/Allowance".

Example of Connector T Dimensions for Connection to Flat Bar

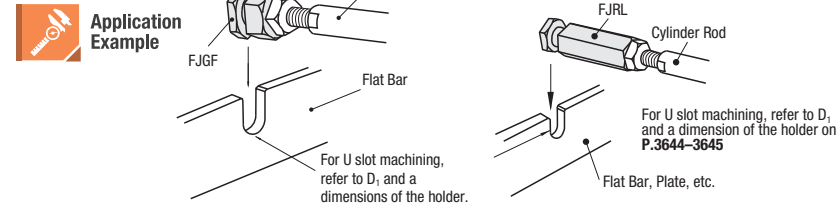
Processing Method	Plate Thickness	Tolerance		Unit: mm	
		Upper Limit	Lower Limit	Connector T Dimension	Backlash*
Ex. 1 Cold Rolling	4.5	0	-0.1	4.5	0.05-0.2
Ex. 2 Hot Rolling	5	+0.3	-0.3	5.3	0.05-0.7

T Selection / L Configurable

Part Number	T	L	h	D	B	(C)	
Type	M-Pitch	1 mm Increment					
FJRL FJRSL	3-0.5	2 3 4 5 6	3-50	3	6	8	9.2
	4-0.7	2 3 4 5 6 8	3-60		7	10	11.5
	5-0.8	3 4 5 6 8 9 10	3-60		8	12	13.9
	6-1.0	3 4 5 6 8 9 10 12	4-80		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	16	21	24.2	
	10-1.25		4	18	23	26.6	
	10-1.5		4	21	26	30	
	12-1.25	5 6 8 9 10 12 13 15 16 19 20	5-100		25	30	34.6
	12-1.5		5	27	32	36.9	
	14-1.5		5				
	16-1.5		5				
18-1.5	8 9 10 12 13 15 16 19 20	8-100					
22-1.5	12 15 20	10-100					

- Ⓢ For compatible holders, see HLRAF (P.3644).
- Ⓢ When $h + T + L \leq 3M$, the tapped hole may go through.

Part Number Example: FJGF4-0.7 - 4.5 - 15, FJRL4-0.7 - 8 - 20



Compact Floating Joints / Floating Joints

Threaded Type / Sheet Metal Holder Set

Type	Material	Surface Treatment	Surface Hardness
FJD	1045 Carbon Steel or Equivalent	Salt-bath Nitriding	500 HV min.
FJDSW	304 Stainless Steel	Nitride Treatment	1,000 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
 Ⓢ No Salt-bath Nitriding Treatment on F Dimension for FJDL.

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

Ⓢ FJDSW is not available for M22-2.5.

Part Number Example: FJD5-0.8 - 5, FJDL10-1.5 - 8 - 20

Type	Material	Surface Treatment	Surface Hardness	
FJSC	1045 Carbon Steel or Equivalent	Low Carbon Steel 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	T	h	D	B	(C)	Included Holder	Maximum Applied Tensile/Compression Force (N)	
Type	M-Pitch	Tolerance				Tolerance		
FJSC	3-0.5	2.3	2	6	8	9.2	2.3 ±0.19	19
	4-0.7			7	10	11.5		54
	5-0.8			8	12	13.9		123
	6-1.0			10	14	16.2		123

Part Number Example: FJSC4-0.7

