

Floating Connectors

Extra Short Threaded Stud Mount

Floating Connectors – Extra Short Threaded Stud Mount

RoHS 10

Lateral – Tapped
FJX FJXS

Lateral – Threaded
FJMX FJMS

Lateral, Angular – Tapped
FJCX FJCS

Lateral, Angular – Threaded
FJCMX FJCMS

Lateral Misalignment Structural Diagram

Lateral, Angular Misalignment Structural Diagram

Type		Main Body / Cover		Joint			Spring	Washer									
Lateral Misalignment	Lateral, Angular Misalignment	Material	Surface Treatment	Material	Surface Treatment	Hardness	Material	Material	Surface Treatment	Hardness							
FJX	FJMX	FJCX	FJCMX	1045 Carbon Steel or Equivalent	Black Oxide	1045 Carbon Steel or Equivalent	Black Oxide	35-45 HRC min.	304 Stainless Steel-WPB	304 Stainless Steel	Nitride Treatment	600 HV min.					
FJXS	FJMS	FJCS	FJCMS	304 Stainless Steel	—	420 Stainless Steel (Stainless Steel440C)	—	—	304 Stainless Steel	—	420 Stainless Steel(Stainless Steel440C)	—	35-45 HRC min.	304 Stainless Steel-WPB	304 Stainless Steel	Nitriding Treatment	500 HV min.

Ⓜ Materials in () are for Angular types.

Floating Connectors (Extra Short Threaded Stud Mount) Tapped (for Threaded Cylinder)

Part Number	Type	M-Pitch	L	L ₁	L ₂	L ₃	L ₄	A	B	D	Allowable Misalignment U	Axial Backlash (Reference Value)	Maximum Applied Tensile / Compression Force (N)	Mass (g)
			5-0.8	6-1.0	8-1.25	10-1.25	14-1.5	18-1.5						
Tapped Type FJX FJXS	5-0.8	9	6	16.5	5	4.1	7	17	18.5	0.5	0.5	150	20	
	6-1.0	11	8.5	21	6	5.2	10	22	24	0.5	0.5	1100	40	
	8-1.25	13.5	10	24.5	7	6	12	27	29.5	0.5	0.5	2500	85	
	10-1.25	18	11	30	8	7	17	36	39	0.75	0.75	6000	190	
	14-1.5	20	13	37	9.5	8.5	22	46	50	1	1	11000	390	

Floating Joints (Extra Short Threaded Stud Mount Type with Angular Misalignment Compensation) Tapped (for Threaded Cylinder)

Part Number	Type	M-Pitch	L	L ₁	L ₂	L ₃	L ₄	A	B	D	Allowable Misalignment U	Allowable Angular Deviation A°	Axial Backlash (Reference Value)	Maximum Applied Tensile / Compression Force (N)	Mass (g)	Available Types	
			5-0.8	6-1.0	8-1.25	10-1.25	14-1.5	FJCX	FJCS								
Tapped Type FJCX FJCS	5-0.8	14	6	18.5	4.5	4	7	24	26	0.5	4	0.65	150	46	•	•	
	6-1.0	17	8.5	21	5.5	5	10	27	29	0.5	4	0.95	1100	66	•	•	
	8-1.25	21	10	26	6.5	6	12	30	32	0.5	4	1.1	2500	99	•	•	
	10-1.25	23	11	29	7	7	17	38	40	1	5	1.4	6000	174	•	—	
	14-1.5	23	11	29	7	7	17	38	40	1	5	1.4	6000	174	•	—	

Floating Joints (Extra Short Threaded Stud Mount) Threaded (for Tapped Cylinder)

Part Number	Type	M-Pitch	M ₁	L ₁	L ₂	L ₃	L ₄	A	B	D	Allowable Lateral Misalignment U	Axial Backlash (Reference Value)	Max. Operating Force (N)		Mass (g)
													Tensile	Compression	
Threaded Type FJMX FJMS	5-0.8	M8-1.25	6	16.5	5	4.1	7	17	18.5	0.5	0.5	300	1100	25	
	6-1.0	M8-1.25	6	16.5	5	4.1	7	17	18.5	0.5	0.5	500	2500	35	
	8-1.25	M10-1.5	8.5	21	6	5.2	10	22	24	0.5	0.5	1300	6000	50	
	10-1.5	M14-2.0	10	24.5	7	6	12	27	29.5	0.5	0.5	3100	11000	105	

Floating Joints (Extra Short Threaded Stud Mount Type with Angular Misalignment Compensation) Threaded (for Tapped Cylinder)

Part Number	Type	M-Pitch	M ₁	L ₁	L ₂	L ₃	L ₄	A	B	D	Allowable Misalignment U	Allowable Angular Deviation A°	Axial Backlash (Reference Value)	Max. Operating Force (N)		Mass (g)	Available Sizes	
														Tensile	Compression		FJCMX	FJCMS
Threaded Type FJCMX FJCMS	5-0.8	M8-1.25	8.5	18.5	4.5	4	6	7	24	26	0.5	4	0.65	300	1100	50	•	•
	6-1.0	M8-1.25	8.5	18.5	4.5	4	6	7	24	26	0.5	4	0.65	500	2500	76	•	•
	8-1.25	M10-1.5	10	21	5.5	5	8.5	10	27	29	0.5	4	0.95	1300	6000	76	•	•
	10-1.5	M14-2.0	11	26	6.5	6	10	12	30	32	1	5	1.1	3100	11000	121	•	—

Part Number Example

Part Number: **FJX8-1.25 FJMS10-1.5**

Application Example

Comparison with Conventional Type

- Features**
- The distance between cylinder and operated object can be shortened.
 - Large allowable eccentricity absorbs misalignment.
 - For threaded (for tapped cylinder), a thread on the operated object is larger than that on the cylinder to stabilize the strength. (N-Pitch part)

Floating Connectors

Extra Short Foot Mount

Angular Misalignment Compensation Type as well as Lateral Misalignment Compensation Type is now available.

Floating Connectors – Extra Short Foot Mount

RoHS 10

Lateral – Tapped
FJXL FJXLS

Lateral – Threaded
FJMXL FJMSLS

Lateral, Angular – Tapped
FJCL FJCLS

Lateral, Angular – Threaded
FJCMXL FJCMSLS

Lateral Misalignment Structural Diagram

Lateral, Angular Misalignment Structural Diagram

Type		Main Body / Cover		Connector			Spring	Washer									
Lateral Misalignment	Lateral, Angular Misalignment	Material	Surface Treatment	Material	Surface Treatment	Hardness	Material	Material	Surface Treatment	Hardness							
FJXL	FJMXL	FJCL	FJCMXL	1045 Carbon Steel or Equivalent	Black Oxide	1045 Carbon Steel or Equivalent	Black Oxide	35-45 HRC min.	304 Stainless Steel-WPB	304 Stainless Steel	Nitriding Treatment	500 HV min.					
FJXLS	FJMSLS	FJCLS	FJCMSLS	304 Stainless Steel	—	420 Stainless Steel(Stainless Steel440C)	—	—	304 Stainless Steel	—	420 Stainless Steel(Stainless Steel440C)	—	35-45 HRC min.	304 Stainless Steel-WPB	304 Stainless Steel	Nitriding Treatment	500 HV min.

Ⓜ Materials in () are for Angular types.

Floating Connectors (Extra Short Foot Mount) Tapped (for Threaded Cylinder)

Part Number	Type	M-Pitch	L ₁	L ₂	L ₃	L ₄	A	B	C	P	E	d	Allowable Misalignment U	St (Reference Value)	Maximum Applied Tensile / Compression Force (N)	Mass (g)
			5-0.8	6-1.0	8-1.25	10-1.25	14-1.5	18-1.5								
Tapped Type FJXL FJXLS	5-0.8	9	22	5	4.1	7	17 (19)	17	9	4	4.5	0.5	0.5	150	30 (40)	
	6-1.0	11	28	6	5.2	10	22	22	11	5.5	5.5	0.5	0.5	1100	65	
	8-1.25	13.5	32	7	6	12	26	25	14	6	6.6	0.5	0.5	2500	115	
	10-1.25	18	40	8	7	17	35 (36)	32	20	8	9	0.75	0.75	6000	260 (280)	
	14-1.5	20	50	9.5	8.5	22	44 (45)	40.5	26	10	11	1	1	11000	520 (555)	

Ⓜ Values in () are for Stainless Steel.

Floating Connectors (Extra Short with Lateral and Angular Misalignment Compensation Type) Tapped (for Threaded Cylinder)

Part Number	Type	M-Pitch	L ₁	L ₂	L ₃	L ₄	A	B	C	P	E	d	Allowable Misalignment U	Allowable Angular Misalignment	St (Reference Value)	Maximum Applied Tensile / Compression Force (N)	Mass (g)
			5-0.8	6-1.0	8-1.25	10-1.25											
Tapped Type FJCL FJCLS	5-0.8	14.9	22.5	4.5	4	7	25	18	9	4	4.5	0.5	4	0.65	150	73	
	6-1.0	17.1	27.5	5.5	5	10	28	22	11	5	5.5	0.5	4	0.95	1100	112	
	8-1.25	21.9	33.5	6.5	6	12	32	27	14	6	6.6	0.5	4	1.1	2500	176	
	10-1.25	21.9	33.5	6.5	6	12	32	27	14	6	6.6	0.5	4	1.1	2500	176	

⊗ 8-1.25 not available for FJCLS.

Floating Connectors (Extra Short Foot Mount) Threaded (for Tapped Cylinder)

Part Number	Type	M-Pitch	L ₁	L ₂	L ₃	L ₄	A	B	C	P	E	d	Allowable Misalignment U	St (Reference Value)	Max. Operating Force (N)		Mass (g)
															Tensile	Compression	
Threaded Stud Type FJMXL FJMSLS	5-0.8	6	22	5	4.1	7	17 (19)	17	9	4	4.5	0.5	0.5	300	1100	35 (45)	
	6-1.0	6	22	5	4.1	7	17 (19)	17	9	4	4.5	0.5	0.5	500	2500	50	
	8-1.25	8.5	28	6	5.2	10	22	22	11	5.5	5.5	0.5	0.5	1300	6000	70	
	10-1.5	10	32	7	6	12	26	25	14	6	6.6	0.5	0.5	3100	11000	130	

Ⓜ Value in () are for Stainless Steel.

Floating Connectors (Extra Short with Lateral and Angular Misalignment Compensation Type) Threaded (for Tapped Cylinder)

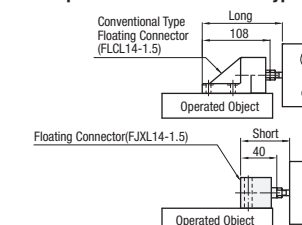
Part Number	Type	M-Pitch	L ₁	L ₂	L ₃	L ₄	A	B	C	P	E	d	Allowable Misalignment U	Allowable Angular Misalignment	St (Reference Value)	Max. Operating Force (N)		Mass (g)
																Tensile	Compression	
Threaded Stud Type FJCMXL	5-0.8	6	22.5	4.5	4	7	25	18	9	4	4.5	0.5	4	0.65	300	1100	76	
	6-1.0	6	22.5	4.5	4	7	25	18	9	4	4.5	0.5	4	0.95	500	2500	120	
	8-1.25	8.5	27.5	5.5	5	10	28	22	11	5	5.5	0.5	4	0.95	1300	600	120	

Part Number Example

Part Number: **FJXL5-0.8 FJMSL6-1.0**

Application Example

Comparison with Conventional Type



- Features**
- The distance between cylinder and operated object can be shortened.
 - Large allowable eccentricity absorbs misalignment.