

Floating Connectors

Bracket Mounting Type

Part	Material	Surface Treatment
Main Body	See Below	
Thread	1018 Carbon Steel or Equivalent	Trivalent Bright Chromate
Mounting Part (M8-M12)	Low Carbon Steel	
Mounting Part (M14-M26)	Cast Iron Class No.30 Equivalent	Enamel (Blue) Manganese Phosphate Coating Treatment

Part Number Type	M-Pitch	ℓ	ℓ ₁	ℓ ₂	L	L ₁	T	D	d	W	P	P ₁	H	B	(C)	Allowable Misalignment U	Working Load kgf (N) For Push and Pull	Mass (kg)									
																			FLCL								
Standard Type	8-1.0	8	6	10	23.5	39.5	3	30	5.5	31	16	—	16	14	16.2	0.5	~60 (588)	0.16									
	10-1.25	10	9	12	28.5	49.5		36	6.5	43	20		19	19	22				0.75	~120 (1177)	0.27						
	12-1.5	13	14	27	72	36		14	51	7	51		28	35	26				23	26.6	1	~540 (5296)	0.80				
	14-1.5																							47	29	33.5	
	16-1.5	15	24	31	34	90		55	18	62	9		62	36	46				32	35				40.4	1.5	~780 (7644)	1.50
	18-1.5																										
22-1.5																											
26-1.5																											

Part Number Example

Part Number: **FLCM3-0.5**
FLCT10-1.25

Application Example

Overview

- The tip inside the connector is spherical and can absorb misalignment. Shaft alignment and parallelism setting in cylinder mounting can thus be achieved merely by visual estimation.
- Due to integration of connector and holder, selecting is easy and reduces the number of parts..
- For Miniature Type (FLCM), screws with sizes M3 to M6 are provided for small cylinders.
- For Standard Type, three mounting variations are offered: Screw-In Type (FLCT), Flange Mounting Type (FLCF), and Bracket Mounting Type (FLCL).

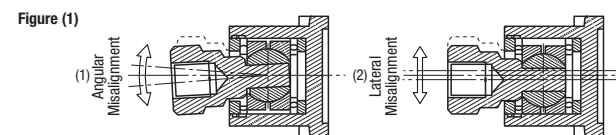
Thread Diameter	Type (How to Mount)
Miniature	M3-M6 FLCM (Screw-in)
Standard Type	M8-M26 FLCT (Screw-in), FLCF (Flange Mounting), FLCL (Bracket Mounting)

Miniature (M3-M6) FLCM

Part No.	Part Name	Material
(1)	Stud	304 Stainless Steel
(2)	Nut	1018 Carbon Steel or Equivalent
(3)	Case	C36000 Brass
(4)	Ball Holder	C36000 Brass
(5)	Ball Joiner	C36000 Brass
(6)	Socket	C36000 Brass
(7)	Rod Tip Nut	SWCH Carbon Steel 8R Carbon Wire Steel (JIS)

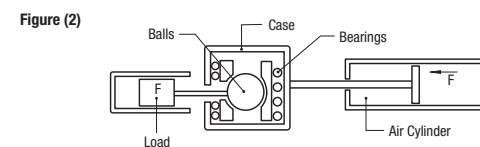
Features

- Misalignment is absorbed in three-dimensions through the ball joint swing A and misalignment motion B (Refer to Figure (1)).
- FLCT, FLCF and FLCL have a built-in bearing, which reduces lateral load significantly and absorbs misalignment (Refer to Figure (2)).



Standard (M8-M26) FLCT / FLCF / FLCL

Part No.	Part Name	Material
(1)	Rod Tip Socket	1018 Carbon Steel or Equivalent (M26 is 1045 Carbon Steel or Equivalent)
(2)	Cap	52100 Bearing Steel
(3)	Radial Direction Clearance	—
(4)	Steel Ball Retainer	52100 Bearing Steel
(5)	Rubber Steel Ball Retainer Plate	Nitrile Rubber
(6)	Steel Ball	—
(7)	Ball Holder	52100 Bearing Steel
(8)	Case	Cast Iron Class No.30 Equivalent



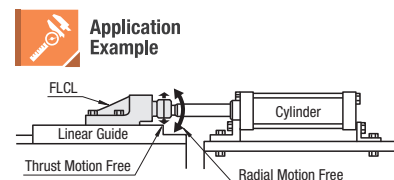
Benefits

The following benefits are obtained by installing on the cylinder rod.

- Prevents one end of cylinder rod from getting worn out.
- Prevents breakage of the gasket.
- Enables operation at low pressure
- Prevents thrust decline.

Precautions for Use

- Although the screw is rotatable, the connector cannot be used as a rotating joint.
- Non-reusable after disassembled.
- Grease filled to eliminate oiling.
- The applied load shown is static. Note that the applied load value for repeated impact load will be lower than shown.



Floating Joints

Quick Connection Type

Features: This is a connector for a threaded cylinder rod.

Type	Material	Surface Treatment	Hardness
FJG	1045 Carbon Steel or Equivalent	Salt-bath Nitriding	750 HV min.
FJR	304 Stainless Steel	Nitriding Treatment	500 HV min.
FJRSS			—
FJRSW			1,000 HV min.
FJRC		Hard Chrome Plating	750 HV min.

T Selectable Type

Part Number Type	M-Pitch	T Selection				L	h	D	B	(C)
		FJG	FJR, FJRSW, FJRC	FJRSS						
FJG FJR FJRSS	3-0.5	4	2 3 4* 5 6	3	5	3	6	8	9.2	
	4-0.7		2 3 4* 5 6 8	3 5 6 8	6		7	10	11.5	
	5-0.8		3 4 5 6* 8 9 10	3 4 5 8 9 10	7		8	12	13.9	
	6-1.0	6	3 4 5 6* 8 9 10 12	4 5 8	8		10	14	16.2	
	8-1.0	8		4 5 6 8* 9 10 12 13 15 16	5 6 12		9	13	17	19.6
	8-1.25									
10-1.25			4 5 6 8* 9 10 12 13 15 16 19 20	6 9 10 12	11	16	21	24.2		
10-1.5	12									
12-1.25			5 6 8 9 10 12* 13 15 16 19 20	—	12	18	23	26.6		
14-1.5			5 6 8 9 10 12* 13 15 16 19 20	8 9 10 16 19	13	21	26	30		
16-1.5			8 9 10 12 13 15* 16 19 20	—						
18-1.5	15		8 9 10 12 13 15* 16 19 20	12	15	5	25	30	34.6	
22-1.5	20		12 15 20	—	17	6	27	32	36.9	

For compatible holders, see P.3644-3645
Specification of T in part number for FJG not required.

Features for New Standard "FJG"

- Global standard supported internationally
- Low price is achieved through mass production.
- Plating makes the external quality superior to the previous products.

Part Number Example

Part Number: **FJG8-1.25**
FJR5-0.8 - 6
FJRSS4-0.7 - 4

Application Example

