

Floating Joints Integrated Type

Extra Short Flange Mount

Metal Pushers / Urethane Caps



Screws	Type		Material	Surface Treatment	Hardness	Spring Material
	Round	Compact Type				
Tapped	FJCR	FJCC	S45C Equivalent	Black Oxide	40-45HRC	Spring Steel
	FJCRT	FJCCCT	SUS440C Equivalent	Tufftride®	500HV~	Spring Stainless Steel
	FJCRS	FJCCS	SUS440C Equivalent	-	40-45HRC	Spring Steel
Threaded	FJMCR	FJMCC	S45C Equivalent	Black Oxide	40-45HRC	Spring Steel
	FJMCR	FJMCCCT	S45C Equivalent	Tufftride®	500HV~	Spring Steel
	FJMCRS	FJMCCS	SUS440C Equivalent	-	40-45HRC	Spring Stainless Steel

Ⓜ Tufftride® is a trademark of DUFERRIT GmbH.
Ⓜ Tufftride® may cause uneven color, which doesn't affect mechanical function.

Tapped

Round

Compact

Ⓜ Do not insert screws deeper than the depth of tapped holes. Malfunction may occur. Ⓜ If the load continues in one direction, it may be difficult to absorb core misalignment.
Ⓜ St is the thrust clearance on which spring force is exerted. Ⓜ The floating part has a structure that prevents it from turning. Turning it is not recommended.

Floating Connectors - Extra Short Flange Mount - Tapped (for Threaded Cylinder)

Part Number	Type	M-Pitch	ℓ	W	L1	A	L	F	P.C.D.	d	d1	H	E	G	Allowable Misalignment U	Allowable Angular Deviation A'	St (Reference)	Working Load kgf(N)	Mass (g)	
																			Round	Compact Type
Round FJCR FJCRT FJCRS	3-0.5	4-0.7	11	7	3	39	14	10	28.6	4.5	8	5	21	28.6	0.5	3	0.45	~2.8(27.5)	78	51
		5-0.8	12.5	4	44	16	10.5	32.1	6	9.5	5.5	23	32.1	0.5	4	0.65	~7.8(76.5)	106	69	
		6-1.0	12.5	4	44	16	10.5	32.1	6	9.5	5.5	23	32.1	0.5	4	0.65	~7.8(76.5)	106	69	
	Compact Type FJCC FJCCCT FJCCS	8-1.25	16	10	5	50	20	13	36.6	7	11	6	26	36.6	1.0	5	0.95	~80(784.5)	166	109
		10-1.25	20	12	6	52	25	17	38.6	7	11	6	28	38.6	1.0	5	1.1	~80(784.5)	236	157
		12-1.25	23	17	7	66	28	19.5	49.6	9	14	8	36	49.6	1.0	5	1.4	~440(4315)	411	274
		14-1.5	23	17	7	66	28	19.5	49.6	9	14	8	36	49.6	1.0	5	1.4	~440(4315)	402	269
		16-1.5	30	22	9	70	35	24.5	53.6	10	18	10	40	53.6	1.5	5	1.5	~650(6374)	553	372
		18-1.5	30	22	9	70	35	24.5	53.6	10	18	10	40	53.6	1.5	5	1.5	~650(6374)	538	363
		20-1.5	38	27	10	88	45	31.5	68.1	12	18	10	51	68.1	1.5	5	1.9	~900(8826)	1078	735
		22-1.5	38	27	10	88	45	31.5	68.1	12	18	10	51	68.1	1.5	5	1.9	~900(8826)	1058	715

Floating Connectors - Extra Short Flange Mount - Threaded (for Tapped Cylinder)

Part Number	Type	M-Pitch	F	W	L1	A	L	T	P.C.D.	d	d1	H	E	G	Allowable Misalignment U	Allowable Angular Deviation A'	St (Reference)	Working Load kgf(N)	Mass (g)	
																			Round	Compact Type
Round FJMCR FJMCR FJMCRS	5-0.8	6-1.0	10	7	4	44	16	10.5	32.1	6	9.5	5.5	23	32.1	0.5	4	0.65	~20(196.1)	103	67
		8-1.25	15	10	5	50	20	13	36.6	7	11	6	26	36.6	0.5	4	0.95	~80(784.5)	105	69
		10-1.5	15	12	6	52	25	17	38.6	7	11	6	28	38.6	1.0	5	1.1	~80(784.5)	173	113
	Compact Type FJMCC FJMCCCT FJMCCS	12-1.75	18	17	7	66	28	19.5	49.6	9	14	8	36	49.6	1.0	5	1.4	~440(4315)	246	163
		16-2.0	20	22	9	70	35	24.5	53.6	10	18	10	40	53.6	1.5	5	1.5	~650(6374)	445	298
		20-2.5	25	27	10	88	45	31.5	68.1	12	18	10	51	68.1	1.5	5	1.9	~900(8826)	653	457
		20-2.5	25	27	10	88	45	31.5	68.1	12	18	10	51	68.1	1.5	5	1.9	~900(8826)	1304	928

Features

- The distance between cylinder and operated object can be made short.
- Large allowable eccentricity absorbs misalignment.
- Deep tapped hole allows wide-ranging adjustment.
- Compact Type is designed for space-saving.

Comparison with Conventional Type Long

Structure Diagram

* Threaded Type has the same structure.

M-Pitch	Unit Price				
	FJCR	FJCC	FJCRT	FJCCCT	FJCRS
3-0.5	-	-	-	-	-
4-0.7	-	-	-	-	-
5-0.8	-	-	-	-	-
6-1.0	-	-	-	-	-
8-1.25	-	-	-	-	-
10-1.25	-	-	-	-	-
12-1.25	-	-	-	-	-
14-1.5	-	-	-	-	-
16-1.5	-	-	-	-	-
18-1.5	-	-	-	-	-
20-1.5	-	-	-	-	-
22-1.5	-	-	-	-	-

M-Pitch	Unit Price					
	FJMCR	FJMCC	FJMCR	FJMCCCT	FJMCRS	FJMCCS
5-0.8	-	-	-	-	-	-
6-1.0	-	-	-	-	-	-
8-1.25	-	-	-	-	-	-
10-1.5	-	-	-	-	-	-
12-1.75	-	-	-	-	-	-
16-2.0	-	-	-	-	-	-
20-2.5	-	-	-	-	-	-

Metal Pushers

Type	Type		Material	Surface Treatment	Hardness
	Flat	Sphere			
Tapped	KPHF	KPMF	S45C Equivalent	Black Oxide	Induction Hardened and Tempered HRC45-50
	KPHFS	KPHRS	SUS420J2	-	

Flat

Sphere

Ⓜ RoHS10

Tapped Type Ⓜ KPHFS and KPHRS (SUS420J2) may discolor due to Hardening.

Part Number	Type	D	L 1mm Increment		M Selection	ℓ	W	Unit Price			
			Flat	Sphere				KPHF	KPHFS	KPHR	KPHRS
Flat KPHF KPHFS	8	6	15-50	17-50	3	8	5				
		8	17-50	20-50	3 4		7				
		10	19-50	23-50	3 4 5		8				
		12	21-100	26-100	4 5 6		10				
		15	23-100	30-100	5 6 8S 8		14				
		16	23-100	30-100	5 6 8S 8		14				
Sphere KPHR KPHRS	10	18	26-100	34-100	6 8S 8 10S 10 12S 12 12M	10	17				
		20	28-100	37-100	8S 8 10S 10 12S 12 12M		14				
		30	36-100	50-100	10S 10 12S 12 12M 14S 18S		15				
		40	41-150	60-100	10S 10 12S 12 12M 14S 18S		20				

Ⓜ Mx2.5+5≤L is required for Tapped Type. Ⓜ 8S, 10S, 12, 12S, 14S and 18S are fine thread pitch. For thread details, refer to the right.
Ⓜ 12M is course thread pitch.

Threaded Type

Part Number	Type	D	L 1mm Increment		M Selection	ℓ	W	Unit Price	
			Flat	Sphere				KPMF	KPMR
Flat KPMF	8	6	15-50	17-50	3 4 5	8	5		
		8	17-50	20-50	4 5 6		7		
		10	19-50	23-50	5 6 8S 8		8		
		12	21-100	26-100	6 8S 8 10S 10		10		
		15	23-100	30-100	8S 8 10S 10 12S 12 12M		14		
		16	23-100	30-100	8S 8 10S 10 12S 12 12M		14		
Sphere KPMR	10	18	26-100	34-100	10S 10 12S 12 12M 16	10	17		
		20	28-100	37-100	10S 10 12S 12 12M 16		14		
		25	36-100	55-100	16 18 20		15		
		30	36-100	55-100	16 18 20		15		

Ⓜ 8S, 10S, 12 and 12S are fine thread pitch. For thread details, refer to the right. Ⓜ 12M is course thread pitch.

Ordering Example

Part Number - L - M
 KPHF10 - 20 - 5
 KPMF18 - 40 - 12S

Urethane Caps

Type	D	T Selection	L Selection	D1	d	(Y)	Unit Price	
							URCPH	URCPL
URCPH URCP URCPL	3	3	5 8	8	1	Y=T+L		
	4	3	5* 10					
	5	3	10* 15					
	6	3	10 15					
	8	3	10* 15					
	10	3	10 15					
	12	3	10* 15					
	15	3	10 15					
	20	3	15* 20					
	25	3	15* 20					
	30	3	15 20					
	35	3	15 20					
	40	3	20* 25					
	45	3	20 25					

Ⓜ Only * marked dimensions are available for URCPH and URCPL.
 Ⓜ Urethane may discolor over time but there is no effect on properties.
 Ⓜ The Urethane Cap hole diameter is designed to fit the tolerances of MISUMI Linear Shafts.