

Oldham Couplings

Large Shaft Diameter, Set Screw / Clamping / Spacers

Oldham Couplings

High Rigidity Large Shaft Diameter, Set Screw / Clamping

■ Features: Large tolerance for lateral and angular misalignments covers up to Ø38 max. shafts.

■ Features: Aluminum bronze is used for spacer and it has allowable torque twice as much as Resin Type (MFJ Series).

■ Set Screw
MFJ (Standard Bore)

MFJWK (Keywayed Bore d1, d2)

■ Clamping
MFJC (Standard Bore)

MFJCLK (Keywayed Bore d1)
MFJCRK (Keywayed Bore d2)
MFJCWK (Keywayed Bore d1, d2)

Operating Temperature: -20°C ~ 80°C
Tolerances for d1 and d2 are values before slit machining.
The lateral, angular, and axial misalignment values shown are for each occurring individually. When multiple misalignments are occurring simultaneously, the allowable maximum value of each will be reduced to 1/2.
When multiple misalignments are occurring simultaneously, the allowable maximum value of each will be reduced to 1/2.
For the selection criteria and alignment procedures, see P.1061

For Keyway dimensions, see P.1092

Shape	Standard Bore	Keywayed Bore				Material	Accessory
		d1 (One Side)	d2 (One Side)	d1, d2 (Both Sides)	Hub	Spacer	
Set Screw	MFJ	-	-	MFJWK	Aluminum Alloy	Polyacetal	Set Screw
Clamping	MFJC	MFJCLK	MFJCRK	MFJCWK			Hex Socket Head Cap Screw

■ Set Screw

Part Number	Type	D	d1, d2 Selection (d1≤d2)							d3	L	l	F	Set Screw		Unit Price	
			M	Tightening Torque (N·m)	MFJ	MFJWK											
MFJ MFJWK		44	14	15	16	18	20	22	22.5	46	15	7.5	M 6	7.0			
			18	20	22	25	26										
			22	25	28	30	35	38									
		55	18	20	22	25	26	28	57	19	9.5	M 8	15.0				
			22	25	28	30	35									38	
			22	25	28	30	35									38	
70			22	25	28	30	35	38	39	77	25	12.5	M10	30.0			

■ Clamping

Part Number	Type	D	d1, d2 Selection (d1≤d2)							d3	L	l	F	A	Clamp Screw		Unit Price		
			M	Tightening Torque (N·m)	MFJC	MFJCLK	MFJCRK	MFJCWK											
MFJC MFJCLK MFJCRK MFJCWK		44	14	15	16	18	20	22.5	46	15	7.5	14.5	M5	*8.4					
			18	20	22	25													
			22	25	28	30	35												
55			18	20	22	25	28	57	19	9.5	17	M6	*14.4						
			22	25	28	30												35	
			22	25	28	30												35	
70			22	25	28	30	35	39	77	25	12.5	24	M8	*30.0					

* When the shaft diameter is small, clamp screw tightening torque should be higher than the prescribed value to prevent shaft slipping. The above tightening torque is for reference.

Part Number	Type	D	Allowable Torque (N·m)	Angular Misalignment (°)	Lateral Misalignment (mm)	Static Torsional Spring Constant (N·m/rad)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m ²)	Allowable Axial Misalignment (mm)	Mass (g)	
Set Screw MFJ MFJWK	Clamping MFJC MFJCLK MFJCRK MFJCWK	44	30	26	1	1500	12000	4 x 10 ⁻⁵	±0.5	140	
		55	45	40	2	1.5	2800	10000	11 x 10 ⁻⁵	±0.6	260
		70	80	72	2	4800	8000	40 x 10 ⁻⁵	±0.8	450	

Ordering Example: MFJ44 - 15 - 20, MFJWK70 - 22 - 35

■ Alterations

Part Number	Shaft Bore Dia. (LDC)	Shaft Bore Dia. (RDC)	Keyway (KLH, KRH, LK, RK)
MFJ55	LDC19.5	RDC21	KLH
MFJCWK70	22	35	KLH8

Spec. Shaft Bore Dia. Keyway Width Keyway

Ordering Code: MFJ, MFJC, MFJCLK, MFJCRK, MFJCWK

Code	LDC (Left Shaft)	RDC (Right Shaft)	KLH (Left Shaft)	KRH (Right Shaft)	LK (Left Shaft)	RK (Right Shaft)
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■ Spacers (for MFJ□□, MFJC□□)

MFJS

Material: Polyacetal

Part Number	Type	D1	T	d3	W	G	Applicable Coupling	Unit Price	
MFJS		44	44.3	14	22.5	10.4	MFJ□□44 MFJC□□44		
		55	55	17	28	13	MFJ□□55 MFJC□□55		
		70		69	25	39	15	16.5	MFJ□□70 MFJC□□70

■ Set Screw
MFJGWK (Keywayed Bore d1, d2)

■ Clamping
MFJCGWK (Keywayed Bore d1, d2)

Operating Temperature: -20°C ~ 80°C
Tolerances for d1 and d2 are values before slit machining.
The lateral, angular, and axial misalignment values shown are for each occurring individually. When multiple misalignments are occurring simultaneously, the allowable maximum value of each will be reduced to 1/2.
When multiple misalignments are occurring simultaneously, the allowable maximum value of each will be reduced to 1/2.
For the selection criteria and alignment procedures, see P.1061
When the lateral/angular misalignments, the torque and the rotational speed are over 50% of the allowable values, apply grease with molybdenum disulfide periodically.

Shape	Keywayed Bore	Material	Accessory
	d1, d2 (Both Sides)	Hub	Spacer
Set Screw	MFJGWK	Stainless Steel	Aluminum Bronze
Clamping	MFJCGWK	Stainless Steel	Aluminum Bronze

■ Set Screw

Part Number	Type	D	d1, d2 Selection (d1≤d2)							d3	L	l	F	M	Tightening Torque (N·m)	Unit Price
			MFJGWK		45	15	16	18	20							
20	22	24				25										
25	28	30				35										
55			20	22	24	25	29	49.4	17	8.5	M 6	6.0				
			25	28	30	35										
			25	28	30	35										
70			25	28	30	35	36	57.0	20	10	M 8	14.0				

■ Clamping

Part Number	Type	D	d1, d2 Selection (d1≤d2)							d3	L	l	F	A	Clamp Screw		Unit Price
			M	Tightening Torque (N·m)													
MFJCGWK		45	15	16	18	20	22.5	46	16.2	6	14.5	M5	*10				
			20	22	24	25											
			20	22	24	25											
55			20	22	24	25	29	57	20.8	7	18.5	M6	*15				

* When the shaft diameter is small, clamp screw tightening torque should be higher than the prescribed value to prevent shaft slipping. The above tightening torque is for reference.

Part Number	Type	D	Allowable Torque (N·m)	Angular Misalignment (°)	Lateral Misalignment (mm)	Static Torsional Spring Constant (N·m/rad)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m ²)	Allowable Axial Misalignment (mm)	Mass (g)
MFJGWK		45	60	1	65000	10000	1.7 x 10 ⁻⁴	±0.3	400	
		55	90	1	100000	10000	3.3 x 10 ⁻⁴	±0.5	700	
		70	160	1.6	180000		11 x 10 ⁻⁴	±0.6	1300	

Ordering Example: MFJGWK45 - 15 - 20, MFJCGWK55 - 22 - 25

Alterations: MFJGWK45 - LDC19 - RDC19, MFJCGWK55 - 22 - 25 - KLH8

Spec. Shaft Bore Dia. Keyway Width Keyway

Ordering Code: MFJGWK, MFJCGWK

Code	LDC (Left Shaft)	RDC (Right Shaft)	KLH (Left Shaft)	KRH (Right Shaft)
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Keyway Dimension

Shaft Bore Dia. d1, d2	b	t	Key Nominal Dim. b x h
14~17	5	2.3	5x5
17.1~22	6	2.8	6x6
22.1~30	8	3.3	8x7
30.1~38	10	3.3	10x8