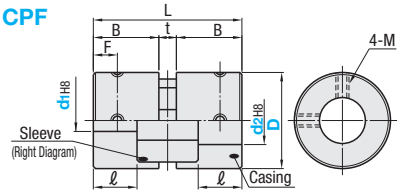
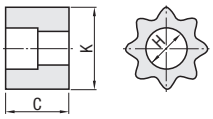
Sleeved Couplings / Jaw & Spider Couplings
Set Screw

■Sleeved Set Screw

CPF



Only 1 set screw location when d_1 and d_2 are 4mm or less.



Operating Temperature: -20°C ~ 60°C

Parts	M Material	S Surface Treatment	A Accessory
Casing	Aluminum Alloy (Sintered Treatment for CPF32)	Electrodeposited Paint (Black) (Steam Treatment for CPF32)	Set Screw
Sleeve	Polyurethane (Orange)	-	

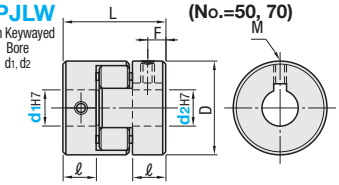
The lateral, angular, and axial misalignment values shown are for each occurring individually. When multiple misalignments are occurring simultaneously, the allowable maximum value of each will be reduced to 1/2.

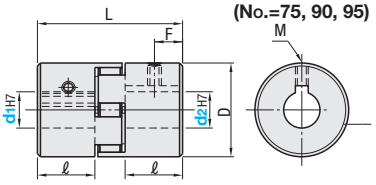
For the selection criteria and alignment procedures, see P.1061

■Jaw & Spider, Set Screw

CPJLW

With Keywayed Bore d_1, d_2





Operating Temperature: -40°C ~ 100°C

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.

For the selection criteria and alignment procedures, see P.1061

Parts	M Material	S Surface Treatment	A Accessory
Main Body	Steel Type Sintered Alloy	Corrosion Resistant Coating	Set Screw
Spider	NBR (Black)	-	

Part Number Type	D	d_1, d_2 Selection ($d_1 \leq d_2$)	L	B	ℓ	t	F	Sleeve C	Sleeve K	Sleeve H	Set Screw M	Set Screw Tightening Torque (N · m)	Unit Price
CPF	16	3 4 5 6 6.35 8	27	12	8	3	4	11	14	6/6	M3	0.7	
	20	5 6 6.35 8 10	34	15	10	4	5	14	18	8/8			
	25	6 6.35 8 10 12	41	18	12	5	6	17	22	10/10	M4	1.7	
	32	8 10 12 14	48	21	14	6	7	20	29	12/14			

Part Number Type	No.	d_1, d_2 Selection ($d_1 \leq d_2$)	D	L	ℓ	F	Set Screw M	Set Screw Tightening Torque (N · m)	Unit Price
CPJLW	50	10 11 12 14 15 16	27.3	43.4	15.6	8	M6	5	
	70	11 12 14 15 16 17 18 19	34.4	50.2	19				
	75	14 15 16 17 18 19 20 22	44.5	54.1	20.7			7	
	90	18 19 20 22 24 25	53.6	54.6	20.7	11.2			
	95	18 19 20 22 24 25 28	53.6	63.8	25.3		M8	10	

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·m²)	Mass (g)
CPF	16	0.5	2	0.2	4.4	39000	9×10^{-7}	22
	20	1			9.5	31000	2.7×10^{-6}	42
	25	1.5			20	25000	8.1×10^{-6}	81
	32	3			52	19000	2.5×10^{-5}	150

The allowable torque varies depending on temperature. See P.1062

Part Number Type	No.	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·m²)	Allowable Axial Misalignment (mm)	Mass (g)
CPJLW	50	2.1	1	0.38	33.4	18000	1.6×10^{-5}	+1.0 0	90
	70	3.6			77.7	14000	3.3×10^{-5}		200
	75	8.4			241	11000	1.1×10^{-4}	+1.1 0	360
	90	9.8			317	9000	2.2×10^{-4}		520
	95	13.1			317	9000	2.6×10^{-4}		570

The allowable torque varies depending on temperature.See P.1062

■Features (CPF)

- The torque is conveyed by the serrations engagement on the sleeve. A flexible coupling with a simple structure.
- Excellent in flexibility with high tolerances to lateral/angular misalignments, and absorbs torsional vibrations.
- Serrations engage with high accuracy and has significantly small backlash.
- Simple structure, it can be fixed easily with a set screw and centered easily.
- Oil resistant and wear resistant.

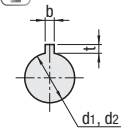
■Features (CPJLW)

- A flexible coupling with a simple structure by combination of 2 bodies and 1 spider.
- Main body and the spider are of smooth blind fit, making for easy installation, removal and maintenance.
  (Body and spider are detachable.)

Ordering Example

Part Number	-	Shaft Bore Dia. d_1	-	Shaft Bore Dia. d_2
CPF20	-	10	-	10
CPJLW50	-	10	-	12

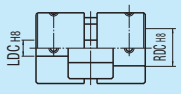
Keyway Dimension



Shaft Bore Dia. d_1, d_2	b Reference Dia.	b Tolerance	t Reference Dia.	t Tolerance	Key Nominal Dim. bxh
10	3	±0.0125	1.4	+0.1 0	3x3
11, 12	4	±0.0150	1.8		4x4
14~17	5		2.3		5x5
18~22	6		2.8		6x6
24~28	8	±0.0180	3.3	+0.2 0	8x7

Alterations

Part Number	-	Shaft Bore Dia. d_1 (LDC)	-	Shaft Bore Dia. d_2 (RDC)
CPF25	-	LDC7.6	-	RDC9.1

Alterations	Code	Spec.
Shaft Bore Dia. 	LDC (Left Shaft)	0.1mm Increment Ordering Code: LDC7.6, RDC9.1
	RDC (Right Shaft)	

D	LDC, RDC
16	3~ 8
20	5~10
25	6~12
32	8~14

⊗Not applicable to CPJLW