


# Couplings

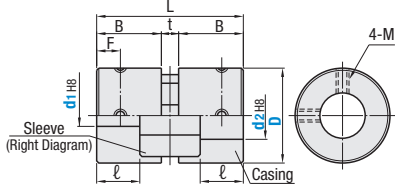
## Sleeved Set Screw

Couplings –  
Sleeved Set Screw

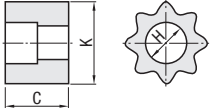


RoHS10

**CPF**



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



① Operating Temperature -20–60°C

Parts	Material	Surface Treatment	Accessories
Casing	Aluminum Alloy (Sintered Treatment for CPF32)	Electrodeposited Coating (Black) (Steam Treatment for CPF32)	Set Screw
Sleeve	Polyurethane (Orange)	—	

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

① For the selection criteria and alignment procedures, see **P.1091, 1093.**

Part Number		d1, d2 (d1≤d2)						L	B	ℓ	t	F	Sleeves			Set Screw	
Type	D												C	K	H	M	Tightening Torque (N·m)
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		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 <sup>2</sup> )	Mass (g)
Type	D							
CPF	16	0.5	2	0.2	4.4	39000	9 x 10 <sup>-7</sup>	22
	20	1			9.5	31000	2.7 x 10 <sup>-6</sup>	42
	25	1.5			20	25000	8.1 x 10 <sup>-6</sup>	81
	32	3			52	19000	2.5 x 10 <sup>-5</sup>	150

① The allowable torque varies depending on temperature. See **P.1091.**

### Features

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



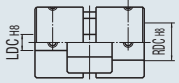
Part Number Example

Part Number	-	Shaft Bore Dia. d <sub>1</sub>	-	Shaft Bore Dia. d <sub>2</sub>
CPF20	-	10	-	10



Part Number Alterations


Part Number	-	Shaft Bore Dia. d <sub>1</sub> (LDC)	-	Shaft Bore Dia. d <sub>2</sub> (RDC)
CPF25	-	LDC7.6	-	RDC9.1

Alterations	Code	Spec.	
Shaft Bore Dia. 	LDC (Left Shaft)	0.1 mm Increment Ordering Code: LDC7.6 RDC9.1	D LDC, RDC 16 3–8 20 5–10 25 6–12 32 8–14
	RDC (Right Shaft)	⊗ Not applicable to CPJLW.	

# Couplings

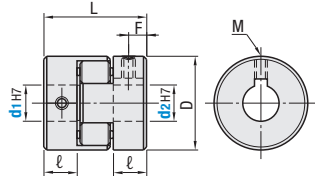
## Jaw & Spider Set Screw

Jaw & Spider Set Screw



**CPJLW**

(No.= 50, 70)

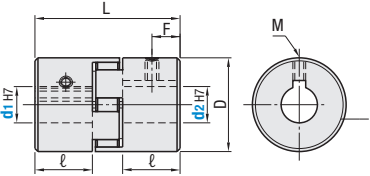


① Operating Temperature -40°C – 100°C

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

① For the selection criteria and alignment procedures, see **P.1091, 1093.**

(No.=75, 90, 95)



Parts	Material	Surface Treatment	Accessories
Body	Steel Type Sintered Alloy	Corrosion Resistant Coating	Set Screw
Spider	NBR (Black)	—	

Part Number		d <sub>1</sub> , d <sub>2</sub> (d <sub>1</sub> ≤d <sub>2</sub> )						D	L	ℓ	F	Set Screw	
Type	D											M	Tightening Torque (N·m)
CPJLW	50	10	11	12	14	15	16	27.3	43.4	15.6	8	M6	5
	70	11	12	14	15	16	18	19	34.4	50.2			
	75	14	15	16	18	19	20	22	44.5	54.1			20.7
	90	18	19	20	22	24	25	53.6	54.6	20.7	11.2	M8	10
	95	18	19	20	22	24	25	28	53.6	63.8			

Part Number		Allowable Torque (N·m)	Angular Misalign. (°)	Lateral Misalign. (mm)	Static Torsional Spring Constant (N·m/rad)	Max Rot. Speed (r/min)	Moment of Inertia (Kg·m <sup>2</sup> )	Allowable Axial Misalign. (mm)	Mass (g)
Type	D								
CPJLW	50	2.1	1	0.38	33.4	18000	1.6 x 10 <sup>-5</sup>	+1.0 0	90
	70	3.6			77.7	14000	3.3 x 10 <sup>-5</sup>		200
	75	8.4			241	11000	1.1 x 10 <sup>-4</sup>	+1.1 0	360
	90	9.8			317	9000	2.2 x 10 <sup>-4</sup>		520
	95	13.1			317	9000	2.6 x 10 <sup>-4</sup>		570

① The allowable torque varies depending on temperature. See **P.1091**



Part Number Example

Part Number	-	Shaft Bore Dia. d <sub>1</sub>	-	Shaft Bore Dia. d <sub>2</sub>
CPJLW50	-	10	-	12