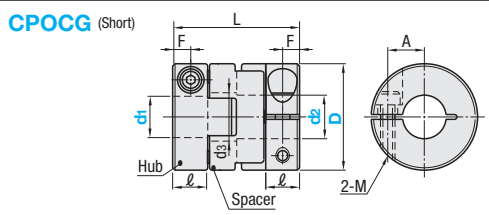


# Oldham Couplings

## Blue Set Screw / Clamping, Green Short Clamping



- Operating Temperature: -20°C - 80°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 **PE P.1061**

Parts	M Material	S Surface Treatment	A Accessory
Hub	Aluminum Alloy	Clear Anodize	Hex Socket Head Cap Screw
Spacer	Polyacetal	-	-

Part Number	Type	D	d1, d2 Selection (d1 ≤ d2)								d3	L	ℓ	t	F	A	Clamp Screw		Unit Price
			3	4	5	6	7	8	9	10							M	Tightening Torque (N · m)	
CPOCG	12	3	4	5						6	14.9	5		2.5	4	M2	0.5		
	16	3	4	5	6					8	21	7		3.5	6.5	M2.5	1		
	20		5	6	6.35	7	8			10	22.1			4	9	M3	1.5		
	25		6	6.35	7	8	10			14	27.2	8		5	11	M4	2.5		
	32		8	10	11	12	14			18	33.3	10							

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)
CPOCG 12	0.2	2	0.6	9	52000	7.1x10 <sup>-8</sup>	3
16	0.4		1	30	39000	3x10 <sup>-7</sup>	8
20	0.7		1.3	47	31000	7.4x10 <sup>-7</sup>	13
25	1.2		1.5	85	25000	2.2x10 <sup>-6</sup>	24
32	2.8		2	190	19000	7.3x10 <sup>-6</sup>	48

Ordering Example: Part Number - Shaft Bore Dia. d1 - Shaft Bore Dia. d2  
 CPOCG16 - 3 - 5

- The allowable torque varies depending on temperature. See **P.1062**
- Spacers are available separately. See **PE P.1067**

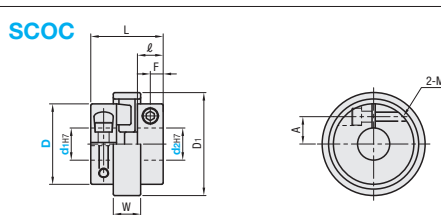
Alterations

Part Number	Shaft Bore Dia. d1 (LDC)	Shaft Bore Dia. d2 (RDC)	(LKRK)
CPOCG16	LDC4.5	RDC5.5	
CPOCG25	6	10	RK3

Keyway Dimension

Shaft Bore Dia. d1, d2	b Reference Dia.	t Reference Dia.	Key Nominal Dim. b x h
8, 10	3 ±0.0125	1.4	3x3
11, 12	4	1.8	4x4
14, 15, 16	5 ±0.0150	2.3	5x5

Alterations	Shaft Bore Dia.	Keyway
Spec.	 0.1mm Increment Shaft Dia. LDC 5.6 RDC 10.2 CPOCG D LDC, RDC 12 3 - 5 16 3 - 6 20 5 - 8 25 6.35 - 10 32 7 - 14	 Shaft Dia. d1, d2 LK 8, 10 RK 11, 12 14, 15, 16 5
Code	LDC (Left Shaft) RDC (Right Shaft)	LK (Left Shaft) RK (Right Shaft)



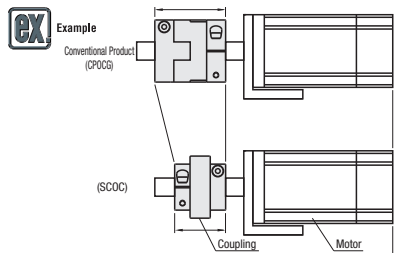
- Operating Temperature: -20°C - 80°C
- Tolerances for d1 and d2 are values before silt machining.
- The lateral, angular, and axial misalignment values shown are for each occurring individually. When multiple misalignments are occurring simultaneously, the allowable maximum value of each will be reduced to 1/2.
- For the selection criteria and alignment procedures, see **PE P.1061**
- For installing, use Coupling O.A.L. as a reference.

Parts	M Material	S Surface Treatment	A Accessory
Hub	Aluminum Alloy	Clear Anodize	Hex Socket Head Cap Screw
Spacer	Polyacetal	-	-

Part Number	Type	D	d1, d2 Selection (d1 ≤ d2)								L	D1	W	ℓ	F	A	Clamp Screw		Unit Price
			3	4	5	6	7	8	9	10							M	Tightening Torque (N · m)	
SCOC	12	3	4	5						13.5	16	5.5	5	2.5	4	2	0.5		
	16	3	4	5	6					18	21.5	8	6.5	3.25	5.5	2.5	1.0		
	20		5	6	6.35	7	8			19	27	8.8	6.8	3.4	6.5				
	25		6	6.35	7	8	10			22.5	33.5	10.5	8	4	8.5	3	1.5		

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)
SCOC 12	0.3	1.5	0.3	18	12000	0.1x10 <sup>-5</sup>	4
16	0.8		0.5	55	9000	0.42x10 <sup>-4</sup>	9
20	1.0		1.0	95	6000	1.05x10 <sup>-4</sup>	15
25	1.6		1.2	162	5000	3.04x10 <sup>-4</sup>	28

Ordering Example: Part Number - Shaft Bore Dia. d1 - Shaft Bore Dia. d2  
 SCOC25 - 8 - 10



SCOC type are up to 17% shorter in length compared to the conventional products, and can contribute to space saving design.