


# Rigid Couplings

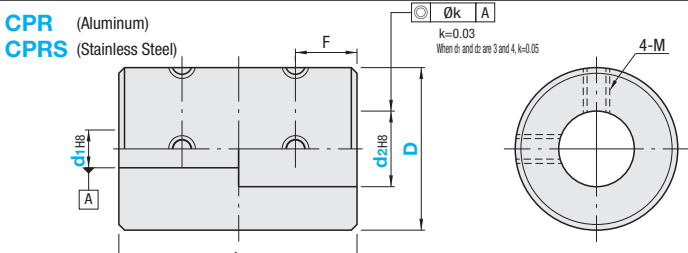
## Set Screw, Clamping

The rigid type cannot tolerate any lateral and angular misalignments. Adequate centering is required before use.

**Set Screw**



**CPR** (Aluminum)  
**CPRS** (Stainless Steel)



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

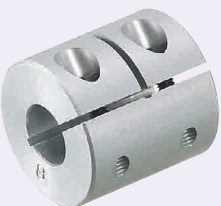
Type	Material	Surface Treatment	Accessory
CPR	Aluminum Alloy	Clear Anodize	Set Screw
CPRS	Stainless Steel	-	

Part Number	Type	D	d1, d2 Selection (d1 ≤ d2)				L	M (Coarse)	F	Unit Price	
			3	4	5	6				CPR	CPRS
CPR (Aluminum)	16	3	4	5	6	24	M3	6			
	20	5	6	8	10	30		7			
CPRS (Stainless Steel)	25	8	10	11	12	36	M4	9			
	32	12	14	15	16	41		10			
CPR (Aluminum)	40	15	16	18	20	44	M5	10.5			

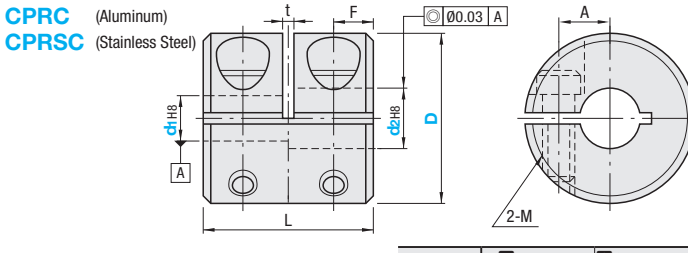
Part Number	Allowable Torque (N·m)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m <sup>2</sup> )	Screw Tightening Torque (N·m)	Mass (g)
CPR (Aluminum)	16	0.3	24000	4.4x10 <sup>-7</sup>	11
	20	0.5	19000	1.3x10 <sup>-6</sup>	20
	25	1	15000	3.9x10 <sup>-6</sup>	39
	32	2	12000	1.2x10 <sup>-5</sup>	71
CPRS (Stainless Steel)	40	4	4000	1.5x10 <sup>-5</sup>	120
	16	0.3	24000	1.2x10 <sup>-6</sup>	28
	20	0.5	19000	3.5x10 <sup>-6</sup>	54
	25	1	15000	1.0x10 <sup>-5</sup>	100
32	2	12000	3.1x10 <sup>-5</sup>	190	

Recommended Tolerance of Applicable Shaft Diameter: h6 and h7

**Clamping**



**CPRC** (Aluminum)  
**CPRSC** (Stainless Steel)



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

Type	Material	Surface Treatment	Accessory
CPRC	Aluminum Alloy	Clear Anodize	Hex Socket Head Cap Screw
CPRSC	Stainless Steel	-	

Part Number	Type	D	d1, d2 Selection (d1 ≤ d2)				L	M (Coarse)	A	t	F	Unit Price	
			5	6	8	10						CPRC	CPRSC
CPRC (Aluminum)	16	5	6			16	M2.5	6.5	1	3.75			
	20	6	8			20				4.75			
CPRSC (Stainless Steel)	25	8	10			25	M3	9	6	6			
	32	10	12	14		32				M4	11	7.75	
CPRC (Aluminum)	40	14	15	16	18	44	M5	13	1.5	10.5			
	50	18	20	24		55					M6	16	2

Part Number	Allowable Torque (N·m)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m <sup>2</sup> )	Screw Tightening Torque (N·m)	Mass (g)
CPRC (Aluminum)	16	0.3	9500	3.0x10 <sup>-7</sup>	9
	20	0.5	7600	8.7x10 <sup>-7</sup>	15
	25	1	6100	2.7x10 <sup>-6</sup>	29
	32	2	4800	7.1x10 <sup>-6</sup>	61
CPRSC (Stainless Steel)	40	4	4000	1.5x10 <sup>-5</sup>	120
	50	6	4000	7.0x10 <sup>-5</sup>	240
	16	0.3	9500	8.0x10 <sup>-7</sup>	22
	20	0.5	7600	2.4x10 <sup>-6</sup>	41
25	1	6100	7.3x10 <sup>-6</sup>	1.5	80
32	2	4800	2.5x10 <sup>-5</sup>	2.5	160


Ordering Example: Part Number - Shaft Bore Dia. d1 - Shaft Bore Dia. d2  
**CPRC25 - 8 - 10**

# Rigid Couplings

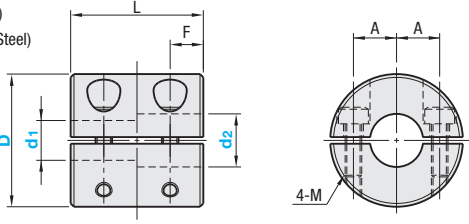
## Split, Clamping Long

The rigid type cannot tolerate any lateral and angular misalignments. Adequate centering is required before use.

**Split**



**CPSR** (Aluminum)  
**CPSRS** (Stainless Steel)




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

Type	Material	Surface Treatment	Accessory
CPSR	Aluminum Alloy	Clear Anodize	Hex Socket Head Cap Screw
CPSRS	Stainless Steel	-	

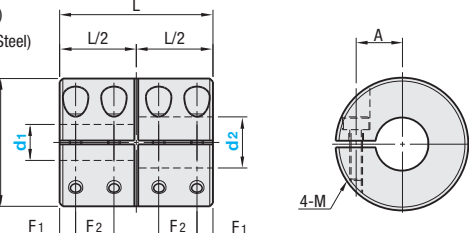
Part Number	Type	D	d1, d2 Selection (d1 ≤ d2)				L	F	A	M	Unit Price	
			5	6	8	10					CPSR	CPSRS
CPSR (Aluminum)	16	5	6			16	3.75	5	M2.5			
	20	6	8			20	4.75	6.5				
CPSRS (Stainless Steel)	25	8	10			25	6	9	M3			
	32	10	12	14		32	7.75	11		M4		

Part Number	Allowable Torque (N·m)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m <sup>2</sup> )	Screw Tightening Torque (N·m)	Mass (g)
CPSR (Aluminum)	16	0.3	39000	3.2x10 <sup>-7</sup>	8.8
	20	0.5	31000	8.7x10 <sup>-7</sup>	15
	25	1	25000	2.7x10 <sup>-6</sup>	1.5
	32	2	19000	9.3x10 <sup>-6</sup>	2.5
CPSRS (Stainless Steel)	16	0.3	39000	8.2x10 <sup>-7</sup>	22
	20	0.5	31000	2.4x10 <sup>-6</sup>	41
	25	1	25000	7.3x10 <sup>-6</sup>	1.5
	32	2	19000	2.5x10 <sup>-5</sup>	2.5

**Clamping Long**



**CPND** (Aluminum)  
**CPNDS** (Stainless Steel)



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

Type	Material	Surface Treatment	Accessory
CPND	Aluminum Alloy	Clear Anodize	Hex Socket Head Cap Screw
CPNDS	Stainless Steel	-	

Part Number	Type	D	d1, d2 Selection (d1 ≤ d2)				L	F1	F2	A	M	Unit Price	
			5	6	8	10						CPND	CPNDS
CPND (Aluminum)	16	5	6			22	2.5	5.5	5	M2			
	20	6	8			24					6	7	
CPNDS (Stainless Steel)	25	8	10			36	4.5	9	9	M2.5			
	32	10	12	14		40					4	10	11

Part Number	Allowable Torque (N·m)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m <sup>2</sup> )	Screw Tightening Torque (N·m)	Mass (g)
CPND (Aluminum)	16	0.3	39000	3.4x10 <sup>-7</sup>	10
	20	0.5	31000	9.2x10 <sup>-7</sup>	18
	25	1	25000	3.4x10 <sup>-6</sup>	1
	32	2	19000	1.0x10 <sup>-5</sup>	1.5
CPNDS (Stainless Steel)	16	0.3	39000	8.9x10 <sup>-7</sup>	25
	20	0.5	31000	2.5x10 <sup>-6</sup>	45
	25	1	25000	9.2x10 <sup>-6</sup>	1
	32	2	19000	2.7x10 <sup>-5</sup>	1.5

Ordering Example: Part Number - Shaft Bore Dia. d1 - Shaft Bore Dia. d2  
**CPSR25 - 8 - 10**