


# Rigid Couplings

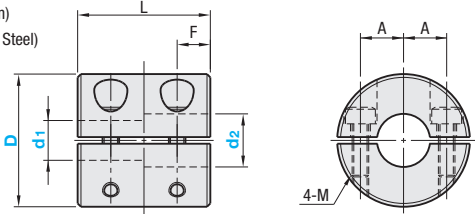
## Split, Clamping Long

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

**Split**



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




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

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

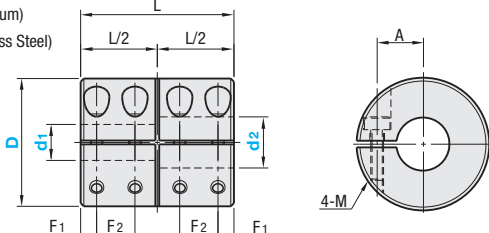
Part Number Type	D	d1, d2 Selection (d1 ≤ d2)				L	F	A	M	Unit Price	
										CPSR	CPSRS
CPSR (Aluminum)	16	5	6			16	3.75	5	M2.5		
	20	6	8			20	4.75	6.5			
CPSRS (Stainless Steel)	25		8	10		25	6	9	M3		
	32		10	12	14	32	7.75	11	M4		

Part Number Type	D	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>	1	8.8
	20	0.5	31000	8.7x10 <sup>-7</sup>		15
	25	1	25000	2.7x10 <sup>-6</sup>	1.5	29
	32	2	19000	9.3x10 <sup>-6</sup>	2.5	61
CPSRS (Stainless Steel)	16	0.3	39000	8.2x10 <sup>-7</sup>	1	22
	20	0.5	31000	2.4x10 <sup>-6</sup>		41
	25	1	25000	7.3x10 <sup>-6</sup>	1.5	80
	32	2	19000	2.5x10 <sup>-5</sup>	2.5	160

**Clamping Long**



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



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

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

Part Number Type	D	d1, d2 Selection (d1 ≤ d2)				L	F1	F2	A	M	Unit Price	
											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	M3		

Part Number Type	D	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>	0.5	10
	20	0.5	31000	9.2x10 <sup>-7</sup>		18
	25	1	25000	3.4x10 <sup>-6</sup>	1	38
	32	2	19000	1.0x10 <sup>-5</sup>	1.5	70
CPNDS (Stainless Steel)	16	0.3	39000	8.9x10 <sup>-7</sup>	0.5	25
	20	0.5	31000	2.5x10 <sup>-6</sup>		45
	25	1	25000	9.2x10 <sup>-6</sup>	1	100
	32	2	19000	2.7x10 <sup>-5</sup>	1.5	180

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