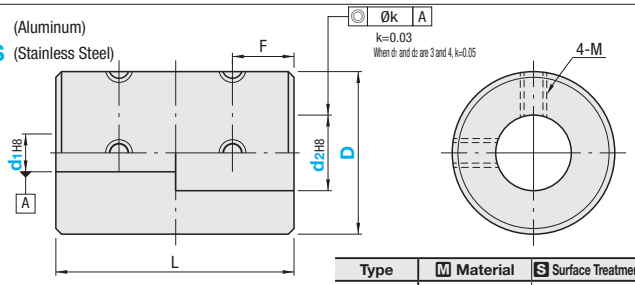
Rigid Couplings
Set Screw, Clamping

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

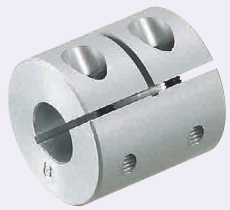
Type	Material	Surface Treatment	Accessory
CPR	Aluminum Alloy	Clear Anodize	Set Screw
CPRS	Stainless Steel	-	

Part Number Type	D	d1, d2 Selection (d1≤d2)	L	M (Coarse)	F	Unit Price CPR	Unit Price 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 Type	D	Allowable Torque (N·m)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m²)	Screw Tightening Torque (N·m)	Mass (g)
CPR (Aluminum)	16	0.3	24000	4.4×10^{-7}	0.7	11
	20	0.5	19000	1.3×10^{-6}		20
	25	1	15000	3.9×10^{-6}	1.7	39
	32	2	12000	1.2×10^{-5}		71
	40	4	4000	1.5×10^{-5}	4	120
CPRS (Stainless Steel)	16	0.3	24000	1.2×10^{-6}	0.7	28
	20	0.5	19000	3.5×10^{-6}		54
	25	1	15000	1.0×10^{-5}	1.7	100
	32	2	12000	3.1×10^{-5}		190

Recommended Tolerance of Applicable Shaft Diameter: h6 and h7

Clamping



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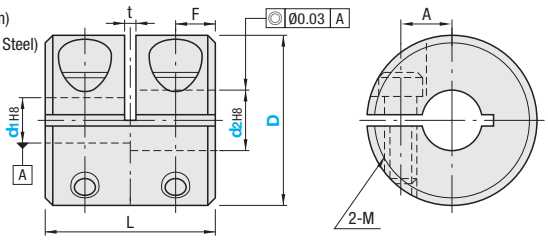
CPRC (Aluminum)
CPRSC (Stainless Steel)



d1,d2Tolerances for and are values before slit machining.

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 CPRC	Unit Price CPRSC
CPRC (Aluminum)	16	5 6	16	M2.5	5	1	3.75		
	20	6 8	20		6.5		4.75		
CPRSC (Stainless Steel)	25	8 10	25	M3	9		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	13		-

Part Number Type	D	Allowable Torque (N·m)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m²)	Screw Tightening Torque (N·m)	Mass (g)
CPRC (Aluminum)	16	0.3	9500	3.0×10^{-7}	1	9
	20	0.5	7600	8.7×10^{-7}		15
	25	1	6100	2.7×10^{-6}	1.5	29
	32	2	4800	7.1×10^{-6}	2.5	61
	40	4	4000	1.5×10^{-5}	7	120
	50	6	4000	7.0×10^{-5}	12	240
CPRSC (Stainless Steel)	16	0.3	9500	8.0×10^{-7}	1	22
	20	0.5	7600	2.4×10^{-6}		41
	25	1	6100	7.3×10^{-6}	1.5	80
	32	2	4800	2.5×10^{-5}	2.5	160

Ordering Example

Part Number	-	Shaft Bore Dia. d1	-	Shaft Bore Dia. d2
CPRC25	-	8	-	10