



**Features:** General purpose model with excellent flexibility and high rigidity. Most economical in MISUMI's disc couplings for Servo Motors.



**Double Disc Type**  
**GCPSW** (Standard Bore)  
**GCPSWLK** (Keywayed Bore d1)  
**GCPSWRK** (Keywayed Bore d2)  
**GCPSWWK** (Keywayed Bore d1, d2)

**Single Disc Type**  
**GCPSS** (Standard Bore)  
**GCPSSLK** (Keywayed Bore d1)  
**GCPSSRK** (Keywayed Bore d2)  
**GCPSSWK** (Keywayed Bore d1, d2)

⊕ Tolerances for d1 and d2 are values before slit machining.  
 ⊕ Recommended Tolerance of Shaft Diameter: h7

Disc Type	Standard Bore	Keywayed Bore			Material		Surface Treatment		
		d1 (One Side)	d2 (One Side)	d1, d2 (Both Sides)	Main Body	Disc	Set Screw	Main Body	Set Screw
Double	GCPSW	GCPSWLK	GCPSWRK	GCPSWWK	Aluminum Alloy	Stainless Steel	SCM435	Clear Anodize	Black Oxide
Single	GCPSS	GCPSSLK	GCPSSRK	GCPSSWK					

Part Number	Type	D	d1, d2 Selection (d1 ≤ d2)																L		Set Screw					
			⊕ Keywayed Bore Type is selectable for diameter 6 or larger																d3	Double	Single	ℓ	F	A	M	Tightening Torque N·m
Double Disc GCPSW GCPSWLK GCPSWRK GCPSWWK	Single Disc GCPSS GCPSSLK GCPSSRK GCPSSWK	20	4	5	6	6.35	8											8.5	28.8	23.05	11	5.5	6.4	M3	0.7	
		26	5	6	6.35	8	10	11										11.5	34.1	25.45	11.9	5.5	9			
		29	5	6	6.35	8	10	11	12	14									14.5	34.3	25.7	11.9	5.5	10.5	M4	1.7
		33	6			8	10	11	12	14	15	16						16.5	40	28.5	13	6.5	12			
		39				8	10	11	12	14	15	16	18					19	49.4	35	16	8	14	M5		

**Characteristic Values**

Part Number	Type	D	Allowable Torque (N·m)	Allowable Angle (°)	Allowable Lateral Misalignment (mm)	Static Torsional Rigidity (N·m/rad)	Max. Velocity (r/min)	Moment of Inertia (kg·m²)	Allowable Axial Misalignment (mm)	Compressive Factor	Mass (g)
Double Disc GCPSW GCPSWLK GCPSWRK GCPSWWK	Single Disc GCPSS GCPSSLK GCPSSRK GCPSSWK	20	1		0.1	550	10000	1.1x10 <sup>-6</sup>	±0.20	2	19
		26	2		0.15	700		3.3x10 <sup>-6</sup>	±0.20		31
		29	3	2	0.15	1200	5.5x10 <sup>-6</sup>	±0.30	43		
		33	5		0.2	1500	1.1x10 <sup>-5</sup>	±0.40	60		
		39	8		0.25	3350	2.7x10 <sup>-5</sup>	±0.50	113		

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Single Disc GCPSS GCPSSLK GCPSSRK GCPSSWK	Single Disc GCPSS GCPSSLK GCPSSRK GCPSSWK	20	1		700	10000	8.8x10 <sup>-7</sup>	±0.10	2	16
		26	2		1000		2.5x10 <sup>-6</sup>	±0.10		24
		29	3	2	1350	4.1x10 <sup>-6</sup>	±0.15	31		
		33	5		2000	7.7x10 <sup>-6</sup>	±0.20	44		
		39	8		4250	1.9x10 <sup>-5</sup>	±0.25	82		

⊕ Static torsional spring constant, inertia moment, and mass values are for cases of maximum shaft diameter.  
 ⊕ For the selection criteria and alignment procedures, see P.1093, 1138.

⊕ Single Disc Type cannot tolerate lateral misalignment.

**Shaft Slip Torque (N·m)**

⊕ When slip torque is less than the allowable torque, use within slip torque.

Part Number	Type	D	d1, d2																							
Double Disc GCPSW GCPSWLK GCPSWRK GCPSWWK	Single Disc GCPSS GCPSSLK GCPSSRK GCPSSWK	20	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	
		26	-	1	1.5	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3
		29	-	1	1.5	2	2.5	2.5	3	3	3	3	3	3	3	3	3	3	4	5	5	5	5	5	5	5
		33	-	-	2.5	-	2.5	3.5	3.5	4	5	5	5	5	5	5	5	5	8	8	8	8	8	8	8	8
		39	-	-	-	-	5.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8

**Keyway Dimension**

Shaft Bore Dia. d1, d2	b		t		Key Nominal Dim. b x h
	Reference Dia.	Tolerance	Reference Dia.	Tolerance	
6,6.35	2	±0.0125	1.0	1.4	2x2
8,10	3	±0.0125	1.4	1.4	3x3
11,12	4	±0.0150	1.8	0	4x4
14	5	±0.0150	2.3	0	5x5