Diaphragm Coupling ► Screw Clamp Type
Double Diaphragm

Please order according to the diagram

❶~❹ Select the type and parameters in the order of for ordering.

Model (❶Code ❷D)	–	❸d	–	❹c	–	Dd Dc
FALTJ16	–	d5	–	c6	–	Dd

■ Optional Processing

● Discounted Price

Quantity	1~9	10~
Price	100%	Separate Quotation

Price Excluding Tax (Yuan)

CAD 2D 3D

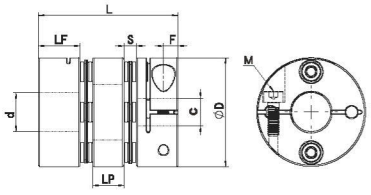
Code	Type		Material		Surface Treatment	Accessories
			Main Body	Diaphragm		
FALTJ	Screw Clamp Type	Double Diaphragm	Aluminum Alloy	Stainless Steel	Anodic Oxidation	Hex Socket Head Cap Screw

◆ It is recommended to use H7 tolerance for shaft diameter and inner bore tolerance.

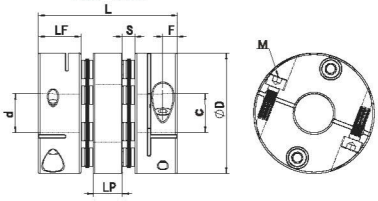
■ Features

- High sensitivity, high torque, and high rigidity;
- Identical clockwise and counterclockwise rotation characteristics;
- Zero backlash;
- Stainless steel diaphragm compensates for angular and axial misalignment;
- Suitable for servo motor and stepper motor connections.

Outer Diameter Φ12~Φ44



Outer Diameter Φ56~Φ82



Model ❶ Code	❷ΦD	L	Common Shaft Bore Sizes ❸d/❹c (Please specify the shaft bore diameter within the range of d≤c with a tolerance of H7)	LF	LP	S	F	Fastening Bolt M	Fastening Bolt Tightening Torque(n.m)
FALTJ	12	15.9	3-4-5	5.9	3	0.55	2.1	M1.6	0.23~0.28
	16	23	3-4-5-6	7.9	4.8	1.25	2.6	M2	0.4~0.5
	19	27	3-4-5-6-6.35-7-8	9.1	5.2	1.8	3.3	M2.5	1
	20	28.8	3-4-5-6-6.35-7-8	10.6	4	1.8	3.5	M2.5	1
	26	35	5-6-6.35-7-8-9-9.525-10-11-12-14	11.35	7.1	2.6	3.9	M3	1.5
	29	34.3	5-6-6.35-7-8-9-9.525-10-11-12-14	11.85	6.6	2.0	3.5	M3	1.5
	32	41	5-6-6.35-8-9-9.525-10-11-12-12.7-14-15	12.25	9.5	3.5	3.85	M3	1.5
	33	40	5-6-6.35-8-9-9.525-10-11-12-12.7-14-15-16	12.25	8.5	3.5	4.0	M3	1.5
	34	45	5-6-6.35-8-9-9.525-10-11-12-12.7-14-15-16	14.25	9.5	3.5	4.85	M4	3.5
	39	50	8-9-9.525-10-11-12-12.7-14-15-16-17-18-19	14.9	11.2	4.5	5.0	M4	3.5
	44	50	8-9-9.525-10-11-12-12.7-14-15-16-17-18-19-20-22	14.9	11.2	4.5	5.0	M4	3.5
	56	64	10-12-14-15-16-17-18-19-20-22-24-25-28-30-32	19.75	13.5	5.5	6.4	M5	8
	68	75	12-14-15-16-17-18-19-20-22-24-25-28-30-32-35-38	23.35	15.7	6.3	7.7	M6	13
	82	98	17-18-19-20-22-24-25-28-30-32-35-38-40-42	30	22	8.0	9.7	M8	28

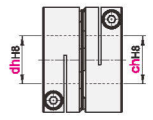
● Note: For any other size requirements, please contact customer service, sales representatives, or other relevant technical personnel for detailed parameters.

Technical Specification Table

Model ❶ Code	❷ΦD	L	Rated Torque (N.m)	Allowable Eccentricity (mm)	Allowable Angular Misalignment (∠°)	Allowable Axial Deviation (mm)	Allowable Rotational Speed (RPM)	Static Torsional Rigidity (N.m/rad)	Moment Inertia ($kg.m^2$)	Weight (g)
FALTJ	12	15.9	0.25	0.03	1	±0.08	10000	133	7.67×10^{-8}	3.7
	16	23	0.6	0.05	1	±0.1	10000	255	3.58×10^{-7}	10
	19	27	1	0.12	1.5	±0.18	10000	700	9.1×10^{-7}	14
	20	28.8	1	0.10	2.0	±0.20	10000	550	1.1×10^{-6}	19
	26	35	2	0.15	1.5	±0.30	10000	1850	3.0×10^{-6}	37
	29	34.3	2	0.15	2.0	±0.30	10000	1200	5.5×10^{-6}	43
	32	41	6	0.17	1.5	±0.36	10000	2850	7.6×10^{-6}	67
	33	40	6	0.20	2.0	±0.40	10000	1500	1.1×10^{-5}	60
	34	45	6	0.17	1.5	±0.36	10000	4050	9.0×10^{-6}	77
	39	50	13	0.22	1.5	±0.45	10000	9000	3.0×10^{-5}	118
	44	50	15	0.22	1.5	±0.54	10000	10000	3.8×10^{-5}	144
	56	64	28	0.27	1.5	±0.72	10000	25000	1.6×10^{-5}	318
	68	75	60	0.31	1.5	±0.80	9000	35000	2.0×10^{-4}	492
	82	98	100	0.55	1.5	±0.80	8000	70000	2.5×10^{-4}	1013

● Note: The above moment of inertia and technical parameters are measured based on the maximum bore size. The maximum rated torque is associated with the durability of the coupling itself. The larger the outer diameter, the greater the force it can bear, and the smaller the outer diameter, the higher the allowable rotational speed.

■ Optional Processing

Optional Processing Code	Variable d/c Bore Size ch ( ) dh ( )
Optional Processing	

Keyway Machining on d-Bore Side	Keyway Machining on c-Bore Side
Dd	Dc
	
Selection Method Dd	Selection Method Dc
❶ Not for use with optional processing of dh and ch.	❶ Not for use with optional processing of dh and ch.

❶ Keyway machining can be selected when the bore size is ≥6.

❶ See the following for keyway machining and changes to bore size P236.