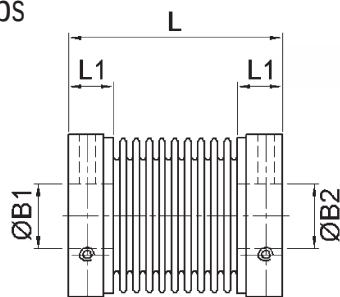
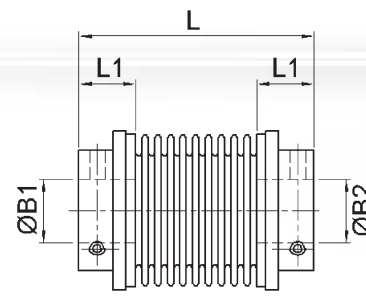
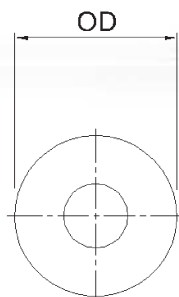




Set Screw Hubs

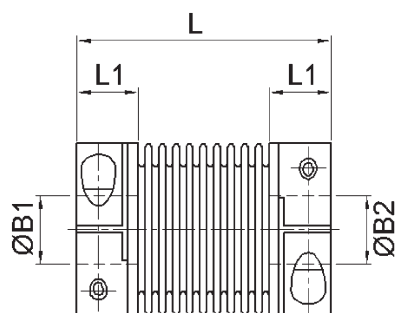


Ref. 321

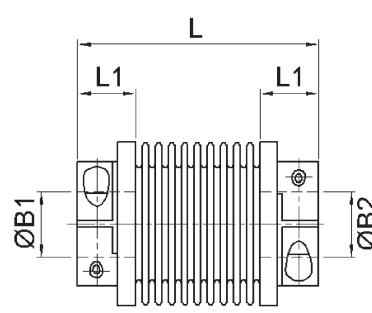


Ref. 321

Clamp Hubs



Ref. 323



Ref. 323

The convolutions of Flex-Ni Couplings are formed by the electrolytic deposition of nickel. This produces stress-free convolutions with closely controlled wall thickness.

Nickel bellows couplings are characterised by their exceptional quality of rotational positional integrity. This is achieved through high torsional stiffness in a coupling that is still able to accommodate large amounts of lateral and angular misalignment due to low spring rates in these directions. These couplings are used primarily in instrumentation and similar sensitive applications.

Materials & Finishes

Hubs: Aluminium Alloy

Bellows: Electrodeposited nickel

Fasteners: Alloy steel

Temperature Range

–50°C to +120°C



DIMENSIONS & ORDER CODES

Size	Number of convolutions	Order Code		Dimensions						Fasteners		
		Set Screw Hub	Clamp Hub	O.D	O/A Length L	Max Shaft Depth L1	Max Bores	Moment of Inertia kgm ² x 10 ⁻⁸	Mass kg x 10 ⁻³	Size	Torque (Ncm)	A/F (mm)
7	8	321.07	-	6.35	14	4	3.175	1.3	1.5	M2	41	0.9
12	14	321.12	-	12	23	6	6.35	18.5	10	M2.5	79	1.3
17	14	321.17	-	17	27	7	10	36.2	8.5	M3	132	1.5
		-	323.17	16.3	29	8	6.35	46.6	11.0	M2	35	1.5
25	10	321.25	-	25	33	7	12.7	161.0	19.5	M3	132	1.5
		-	323.25	25	37	9	12.7	245.0	28.5	M2.5	66	2.0
36	7	321.36	-	36.3	42.3	9.5	19.05	601.0	39.0	M6	510	3.0
		-	323.36	36.3	46.9	11.8	19.05	2960.0	85.0	M4	262	3.0
50	11	321.50	-	51	59.3	10.5	20	952.0	52.0	M6	860	3.0
		-	323.50	51	61.9	11.8	20	3560.0	105.0	M4	262	3.0

PERFORMANCE

Size	Peak Torque (Ncm)	Wind up Arcs/Ncm	Max misalignment compensation			Nominal Spring Rates			
			Angular Deg	Radial mm	Axial mm	Torsional (Nm/rad)	Angular (N/deg)	Radial (N/mm)	Axial (N/mm)
7	4.9	285	10	0.19	0.65	7	<0.15	6.9	3.5
12	13	75	15	0.54	1.72	27	<0.15	4.2	2.2
17	50	20	10	0.43	1.78	103	0.15	12.3	4.0
25	328	4.0	8	0.46	2.07	515	0.41	38.1	11.2
36	918	1.2	6	0.46	3.28	1719	0.32	87.8	20.2
50	1624	0.6	9	1.12	6.1	3438	<0.15	57.8	17.6

15

AVAILABLE BORES

Size	Ø B1, B2 H8														
	3	3.175	4	4.763	5	6	6.350	8	9.525	10	12	12.700	16	19.050	20
7	•	•	•												
12	•	•	•	•	•	•	•								
17	•	•	•	•	•	•	•	S	S	S					
25						•	•	•	•	•	•	•			
36										•	•	•	•		
50											•	•	•	•	•
Bore Ref.	14	16	18	19	20	22	24	28	31	32	35	36	42	47	48

S = Setscrew only

IMPORTANT

Load capacity depends on application conditions:
see page 6 for details