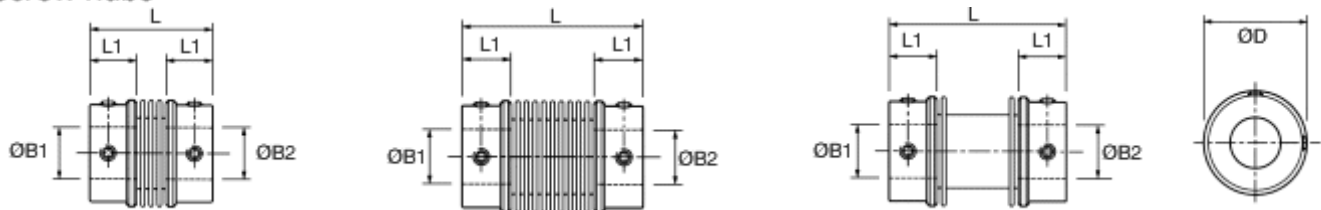
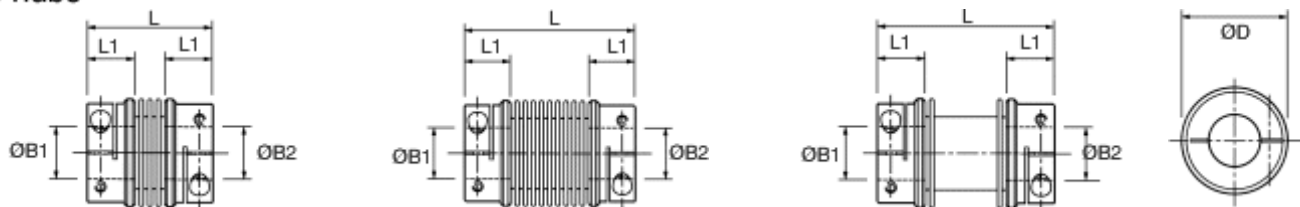


FLEX - B STAINLESS STEEL BELLOW COUPLERS

Set screw hubs



Clamp hubs



Comparative properties

The properties of the 3 types compared on a scale of 1 to 3. 3 = best.

Parameter	Type		
	Short	Long	Stretched
Peak Torque	2	1	3
Torsional Stiffness	3	1	2
Angular Compensation	2	3	1
Axial Compensation	2	3	1
Radial Compensation	1	3	2

Service factors

Peak torque values apply to uniform load, constant speed drives where there is no misalignment or axial motion. Apply the service factors to the application torque as appropriate, e.g.,
 Application torque = 17 lb.in
 Service factor = 3
 \ Adjusted torque = 51 lb.in
 Select a coupler where Peak Torque exceeds 51 lb.in.
 Note that max compensation values are mutually exclusive. If one parameter is set at maximum, the remaining two must be at zero.

HOW TO ORDER

Combine the coupler ref in Main Table with BORE REFS in Standard Bores Table. Please identify both bores e.g.

530.34.28.32

Coupler ref.	_____	_____	_____	_____
Ø B1 ref.	_____	_____	_____	_____
Ø B2 ref.	_____	_____	_____	_____

MAIN TABLE - DIMENSIONS & ORDER CODES

Coupler Size	Set Screw Hubs	Clamp Hubs	ØD	L	L1	ØB1, ØB2 max	Fastners		Moment of inertia	Mass
							Screw	Wrench mm		
	COUPLER REF									
	530.20	-		31.0					90	18
	532.20	-		45.2					100	19
20	534.20	-	20.0	43.6	11.0	8	M4	2.27	90	18
	-	537.20		31.0					90	16



Materials & Finishes

Hubs:
Al. Alloy 2011T3 and 2011T8
Clear anodised finish

Bellows:
Spring quality stainless steel

Joint assembly:
Copper C106, heat treated
Zinc plate, black chromate

Fasteners:
Alloy steel, black oiled

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	-	539.20	45.2				100	18
	-	541.20	43.6		4-40	2.33	2	90
	530.26	-	37.5					350
	532.26	-	54.3		M5	4.62	2.5	400
26	534.26	-	53.2	26.0				370
	-	536.26	37.5	14.0	12			330
	-	538.26	54.3		M3	2.43	2.5	380
	-	540.26	53.2					350
	530.34	-	40.0					975
	532.34	-	57.0		M5	4.62	2.5	1128
34	534.34	-	56.6	34.0				988
	-	536.34	40.0	14.0	16			925
	-	538.34	57.0		M3	2.43	2.5	1078
	-	540.34	56.6					938
	530.41	-	49.7					2490
	532.41	-	71.4		M6	7.61	3	2740
41	534.41	-	70.7	41.0				2477
	-	536.41	49.7	18.0	20			2390
	-	538.41	71.4		M4	5.66	3	2660
	-	540.41	70.7					2377

Temperature Range
 -40°F to +248°F
 (-40°C to +120°C)

PERFORMANCE

Coupler Size	Ref.	Peak torque Nm	Max compensation				Flexural stiffness		
			Angular ± deg	Radial ± mm	Axial ± mm	Torsional Nm / rad	Angular N / deg	Radial N / mm	Axial N / mm
20	530 & 537	2.0	2	0.06	0.35	315	1.03	115	17.7
	532 & 539	1.0	6	0.50	1.00	170	0.33	6.7	7.8
	534 & 541	2.5	1.3	0.20	0.20	225	0.33	8.2	7.1
26	530 & 536	3.2	2	0.06	0.36	755	1.27	238	5.7
	532 & 538	1.6	6	0.50	1.00	380	0.39	8.2	3.3
	534 & 540	4.0	1.3	0.20	0.20	615	1.52	14.6	6.4
34	530 & 536	7.5	2.5	0.10	0.60	1740	1.34	227	6.6
	532 & 538	3.8	8	1.00	1.90	915	0.62	12.7	3.8
	534 & 540	9.4	1.5	0.30	0.30	1455	1.98	23.2	27.9
41	530 & 536	10.0	2.5	0.15	0.80	2880	1.58	144	13.1
	532 & 538	5.0	8	1.20	2.50	1310	0.52	9.3	3.8
	534 & 540	12.5	1.8	0.40	0.50	2245	2.30	19.2	7.2

1. Length of supported thro' bore. Shafts can near-butt.
 2. Maximum recommended tightening torque.
 3. Values apply with max bores.
 4. **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor.
 5. Max. compensation values are mutually exclusive.
 6. Torsional stiffness values apply at 50% peak torque with no misalignment, measured shaft-to-shaft with largest standard bores.
- Note that in some vendors' catalogues the given torsional stiffness applied to the un-mounted bellows element only, an unrepresentative calculated value.**

SERVICE FACTORS

Nature of load	Factor
Uniform load	1.5
Non-uniform load	2
Shock load	3
Reversing shock load	4



STANDARD BORES

Coupler Size	ØB1, ØB2+0.03/-0mm																					
	3	3.175	4	4.763	5	6	6.350	8	9	9.525	10	11	12	12.700	14	15	15.875	16	18	19	19.050	20
20	●	●	●	●	●	●	●															
26			●	●	●	●	●	●	●	●	●	●										
34						●	●	●	●	●	●	●	●	●	●	●	●	●	●			
41							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Bore ref.	14	16	18	19	20	22	24	28	30	31	32	33	35	36	38	40	41	42	45	46	47	48
Corresponding bore adaptor					251		253	255			257			259				260				261

Diameters for which a bore adaptor is shown can be adapted to smaller shaft sizes.

