



Beam Couplings

- Multi-Beam
 - Single-Beam
 - Step-Beam
- **Torsionally rigid design**
 - **Zero backlash**
 - **No moving parts**
 - **Single beam simple coupling compatible with industry standard types**
 - **3-Beam single stage for increased torsional stiffness**
 - **6-Beam two stage for torsional stiffness and increased radial compliance**
 - **Step Beam for low inertia, electrical isolation, low cost**

Beam couplings will readily accommodate any combination of axial motion, angular and parallel misalignment.

The 3 start helical-cut design provides higher torque capability and reduced wind-up compared with single beam versions.

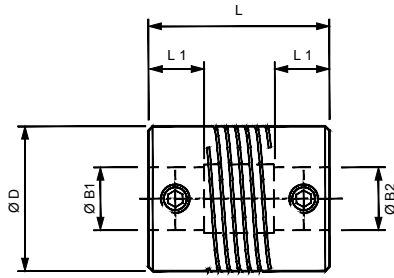
Multi-Beam is available in three standard materials: stainless steel, aluminium and acetal, for shaft diameters from 1mm to 38mm.



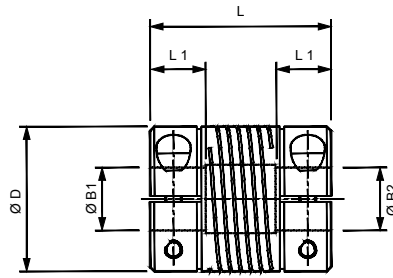
Multi-Beam

Stainless Steel Multi-Helix Flexible 3 Beam Couplings

Set Screw Hubs



Clamp Hubs



Materials & Finishes

Couplings: Stainless Steel 303 S31

Fasteners: Stainless Steel

Temperature Range

-40°F to +284°F

(-40°C to +140°C)

3-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size	Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	L1 in. (mm)	Bore Diameters			Mass kgx10-3	Fasteners				Angular Offset Deg.	Parallel Offset mm	Torsional Stiffness Nm/rad	Peak Torque lb.in (Nm)	
						Min B1	Min B2	Max B1 & B2		Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)					
Relieved	6	720.06	—	.25 (6.4)	0.5 (12.7)	.13 (3.2)	1.0	2.0	3.0	1.93	M2	—	0.7 (0.08)	.035 (0.9)	3	.003 (.07)	1.53	3.98 (0.45)
	9	720.09	—	.37 (9.5)	.56 (14.2)	.18 (4.5)	2.0	3.0	3.18	5.85	M2.5	—	2.0 (0.2)	.051 (1.3)	3	.004 (0.1)	16	4.43 (0.50)
		—	721.09	—	.37 (9.5)	.56 (14.2)	.18 (4.5)	2.0	3.0	3.18	5.85	—	M1.6	1.3 (0.15)				
	13	720.13	—	0.5 (12.7)	.75 (19.1)	.24 (6.0)	3.0	4.0	5.0	13.7	M3	—	2.8 (0.3)	.059 (1.5)	5	.005 (.127)	54	8.85 (1.0)
		—	721.13	—	0.5 (12.7)	.75 (19.1)	.24 (6.0)	3.0	4.0	5.0	13.7	—	M2	2.6 (0.3)				
	16	720.16	—	.63 (15.9)	.80 (20.3)	.26 (6.5)	3.0	4.0	6.35	22.9	M4	—	9.2 (1.0)	.079 (2.0)	5	.005 (.127)	81	15.9 (1.80)
		—	721.16	—	.63 (15.9)	.80 (20.3)	.26 (6.5)	3.0	4.0	6.35	22.9	—	M2.5	6.0 (0.6)				
	19	720.19	—	.75 (19.1)	.90 (22.9)	.26 (6.5)	4.0	4.76	8.0	35.9	M4	—	9.2 (1.0)	.079 (2.0)	5	.005 (.127)	143	23.9 (2.70)
		—	721.19	—	.75 (19.1)	.90 (22.9)	.26 (6.5)	4.0	4.76	8.0	35.9	—	M2.5	6.0 (0.6)				
	25	720.25	—	1.0 (25.4)	1.25 (31.8)	.35 (9.0)	5.0	6.0	10	92.2	M5	—	18.6 (2.1)	.098 (2.5)	5	.005 (.127)	175	53.1 (6.0)
—		721.25	—	1.0 (25.4)	1.25 (31.8)	.35 (9.0)	5.0	6.0	10	92.2	—	M3	10.6 (1.2)	.098 (2.5)				
32	720.32	—	1.25 (31.8)	1.75 (44.5)	.47 (12.0)	6.0	8.0	14	194	M6	—	33.2 (3.7)	0.12 (3.0)	5	.005 (.127)	378	88.5 (10.0)	
	—	721.32	—	1.25 (31.8)	1.75 (44.5)	.47 (12.0)	6.0	8.0	14	194	—	M4	25.2 (2.8)					0.12 (3.0)

① Length of supported bore.

③ **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor. (see page 4)

② Max. compensation values are mutually exclusive.

BORE SIZES 3-BEAM COUPLINGS

Sizes indicated in parenthesis are metric (mm).

Coupling Size	ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm)														
	(1)	(2)	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)	(12)	1/2"	(14)
6	○	●	●												
9		○	●	●											
13			○	○	●	●	●								
16			○	○	●	●	●	●	●						
19					○	●	●	●	●	●					
25						○	●	●	●	●	●	●			
32							○	○	●	●	●	●	●	●	●
Bore ref.	8	11	14	16	18	19	20	22	24	28	31	32	35	36	38

○ B1 only ● B1 & B2

Stainless Steel Multi-Helix Flexible 6 Beam Couplings Non-Relieved

Set Screw Hubs

Clamp Hubs

Materials & Finishes

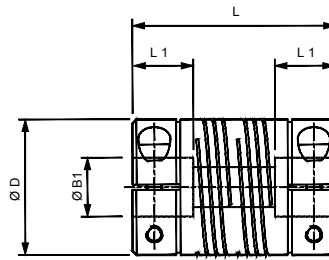
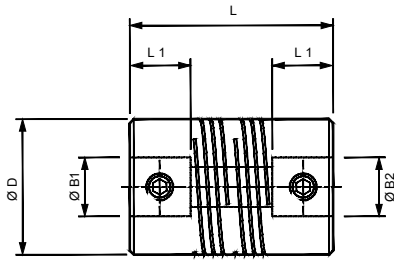
Couplings: Stainless Steel 303
S31

Fasteners: Stainless Steel

Temperature Range

-40°F to +284°F

(-40°C to +140°C)



6-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size	Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	L1 in. (mm)	Bore Diameters			Mass kgx10-3	Fasteners				Angular Offset Deg.	Parallel Offset mm	Torsional Stiffness Nm/rad	Peak Torque lb.in (Nm)
						Min B1	Min B2	Max B1 & B2		Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)				
09	702.09	—	0.4 (9.5)	0.77 (19.6)	0.21 (5.3)	2.0	4.0	4.76	7.0	M2.5	-	2.0 (0.23)	0.51 (1.3)	3.0	.002 (0.12)	5.4	13.3 (1.5)
	—	703.09	—	—	—					-	M1.6	1.3 (0.15)	0.59 (1.5)				
13	702.13	—	0.5 (12.7)	1.00 (25.4)	0.26 (6.5)	3.0	5.0	6.35	17.0	M3	-	2.8 (0.3)	0.59 (1.5)	5.0	.007 (0.17)	25	26.6 (3.0)
	—	703.13	—	—	—					-	M2	2.6 (0.3)	0.59 (1.5)				
16	702.16	—	0.63 (15.9)	1.00 (25.4)	0.26 (6.5)	3.0	6.0	8.0	28.0	M4	-	9.2 (1.0)	.079 (2.0)	5.0	.008 (0.2)	45	44.2 (5.0)
	—	703.16	—	—	—					-	M2.5	6.0 (0.68)	.079 (2.0)				
19	702.19	—	0.75 (19.1)	1.10 (28.0)	0.26 (6.5)	4.76	6.35	10.0	44.0	M4	-	9.2 (1.0)	.079 (2.0)	7.0	0.01 (0.25)	72	70.8 (8.0)
	—	703.19	—	—	—					-	M2.5	6.0 (0.68)	.079 (2.0)				
25	702.25	—	1.00 (25.4)	1.50 (38.1)	0.43 (11.0)	5.0	8.0	12.7	109	M5	-	18.6 (2.1)	.098 (2.5)	7.0	.015 (0.38)	170	141.6 (16.0)
	—	703.25	—	—	—					-	M3	10.6 (1.2)	.098 (2.5)				
32	702.32	—	1.25 (31.8)	2.25 (57.2)	0.63 (16.0)	8.0	10.0	19.0	262	M6	-	33.2 (3.7)	0.12 (3.0)	7.0	0.02 (0.5)	364	221.3 (25.0)
	—	703.32	—	—	—			16.0		-	M4	25.2 (2.8)	0.12 (3.0)				
38	702.38	—	1.50 (38.1)	2.63 (66.7)	0.71 (18.0)	8.0	12.0	22.0	443	M6	-	33.2 (3.7)	0.12 (3.0)	7.0	.024 (0.6)	634	318.6 (36.0)
	—	703.38	—	—	—			19.0		-	M5	51.8 (5.8)	0.16 (4.0)				
44	702.44	—	1.75 (44.5)	3.00 (76.2)	0.79 (20.0)	9.0	14.0	25.0	687	M6	-	33.2 (3.7)	0.11 (3.0)	7.0	.031 (0.8)	945	424.8 (48.0)
	—	703.44	—	—	—			22.0		-	M5	51.3 (5.8)	0.16 (4.0)				
51	702.51	—	2.00 (50.8)	3.75 (95.3)	0.98 (25.0)	10.0	16.0	28.0	1116	M8	-	80.0 (9.0)	0.16 (4.0)	7.0	0.35 (0.9)	1305	646.1 (73.0)
	—	703.51	—	—	—			26.0		-	M6	86.3 (9.7)	0.20 (5.0)				
57	702.57	—	2.25 (57.2)	5.12 (130)	1.26 (32.0)	10.0	20.0	32.0	1944	M8	-	80.0 (9.0)	0.16 (4.0)	7.0	.037 (0.95)	1755	902.8 (102.0)
	—	703.57	—	—	—			30.0		-	M6	86.3 (9.7)	0.20 (5.0)				
64	702.64	—	2.5 (63.5)	5.91 (150)	1.5 (38.0)	12.0	25.0	38.0	3234	M8	-	80.0 (9.0)	0.16 (4.0)	7.0	0.39 (1.0)	2340	1,239.0 (140.0)
	—	703.64	—	—	—			36.0		-	M8	212 (24.0)	0.24 (6.0)				

① Length of supported bore.

③ **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor. (see page 4)

② Max. compensation values are mutually exclusive.

BORE SIZES 6-BEAM COUPLINGS, NON-RELIEVED

○ B1 only

● B1 & B2

Sizes indicated in parenthesis are metric (mm).

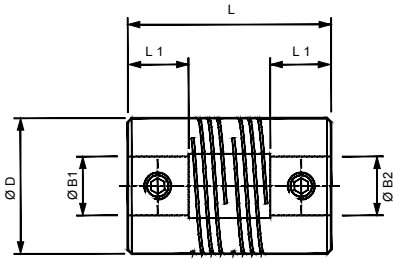
Coupling Size	ØB1, ØB2 +0.0012/-0 (+0.03mm/-0mm)																												
	(2)	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)	(12)	1/2"	(14)	5/8"	(16)	(18)	(19)	3/4"	(20)	(24)	(25)	1"	(28)	(30)	1 1/4"	(32)		
9	○	○	○	●	●																								
13		○	○	○	○	●	●	●																					
16			○	○	○	○	●	●	●																				
19						○	○	○	●	●	●																		
25							○	○	○	●	●	●	●																
32									○	○	○	○	○	○	●	●	●	●											
38									○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
44										○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
51											○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
57												○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
64													○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Bore ref.	11	14	16	18	19	20	22	24	28	31	32	35	36	38	41	42	45	46	47	48	51	52	53	54	56	57	58	58	

S = Setscrew only

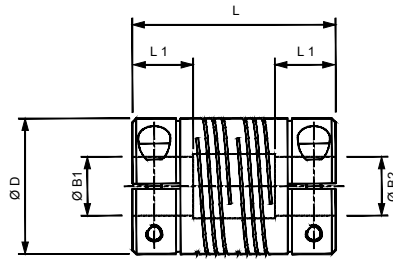
Multi-Beam

Stainless Steel Multi-Helix Flexible 6 Beam Couplings

Set Screw Hubs



Clamp Hubs



Materials & Finishes

Couplings: Stainless Steel 303
S31

Fasteners: Stainless Steel

Temperature Range

-40°F to +284°F

(-40°C to +140°C)

6-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size	Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	L1 in. (mm)	Bore Diameters			Mass kgx10-3	Fasteners				Angular Offset Deg.	Parallel Offset in. (mm)	Torsional Stiffness Nm/rad	Peak Torque lb.in (Nm)	
						Min B1	Min B2	Max B1 & B2		Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)					
Relieved	09	722.09	—	0.4 (9.5)	0.77 (19.6)	0.21 (5.3)	2.0	3.0	4.76	6.5	M2.5	-	1.7 (0.2)	0.51 (1.3)	3.0	.002 (0.12)	3.2	7.97 (0.9)
		—	723.09								-	M1.6	1.3 (0.15)	0.59 (1.5)				
	13	722.13	—	0.5 (12.7)	1.00 (25.4)	0.26 (6.5)	3.0	4.0	6.35	15.0	M3	-	2.8 (0.32)	0.59 (1.5)	5.0	.007 (0.17)	15.0	16.82 (1.9)
		—	723.13								-	M2	2.6 (0.3)	0.59 (1.5)				
	16	722.16	—	0.63 (15.9)	1.00 (25.4)	0.26 (6.5)	3.0	4.0	8	24.0	M4	-	9.2 (1.0)	.079 (2.0)	5.0	.008 (0.2)	27.0	30.09 (3.4)
		—	723.16								-	M2.5	6.0 (0.68)	.079 (2.0)				
	19	722.19	—	0.75 (19.1)	1.10 (28.0)	0.26 (6.5)	4.76	5.0	10	37.0	M4	-	9.2 (1.0)	.079 (2.0)	7.0	0.01 (0.25)	43.0	42.48 (4.8)
		—	723.19								-	M2.5	6.0 (0.68)	.079 (2.0)				
	25	722.25	—	1.00 (25.4)	1.50 (38.1)	0.43 (11.0)	5.0	6.0	12.7	99.0	M5	-	18.5 (2.1)	.098 (2.5)	7.0	.015 (0.38)	102	88.5 (10.0)
		—	723.25								-	M3	10.6 (1.2)	.098 (2.5)				
	32	722.32	—	1.25 (31.8)	2.25 (57.2)	0.63 (16.0)	8.0	9.53	19.0	236	M6	-	33.2 (3.7)	0.12 (3.0)	7.0	0.02 (0.5)	218	115.1 (13.0)
		—	723.32						16.0		-	M4	51.8 (5.8)	0.12 (3.0)				
	38	722.38	—	1.50 (38.1)	2.63 (66.7)	0.71 (18.0)	8.0	12.0	22.0	400	M6	-	33.2 (3.7)	0.12 (3.0)	7.0	.024 (0.6)	380	117.0 (20.0)
		—	723.38						19.0		-	M5	51.8 (5.8)	0.16 (4.0)				
	44	722.44	—	1.75 (44.5)	3.00 (76.2)	0.79 (20.0)	9.0	14.0	25.0	523	M6	-	33.2 (3.7)	0.11 (3.0)	7.0	.031 (0.8)	567	239.0 (27.0)
		—	723.44						22.0		-	M5	51.3 (5.8)	0.16 (4.0)				
51	722.51	—	2.00 (50.8)	3.75 (95.3)	0.98 (25.0)	10.0	16.0	28.0	996	M8	-	80.0 (9.0)	0.16 (4.0)	7.0	0.35 (0.9)	783	327.5 (37.0)	
	—	723.51						26.0		-	M6	86.3 (9.7)	0.20 (5.0)					
57	722.57	—	2.25 (57.2)	5.12 (130)	1.26 (32.0)	10.0	20.0	32.0	1708	M8	-	80.0 (9.0)	0.16 (4.0)	7.0	.037 (0.95)	1053	442.5 (50.0)	
	—	723.57						30.0		-	M6	86.3 (9.7)	0.20 (5.0)					
64	722.64	—	2.5 (63.5)	5.91 (150)	1.5 (38.0)	12.0	25.0	38.0	2300	M8	-	80.0 (9.0)	0.16 (4.0)	7.0	0.39 (1.0)	1400	757.3 (65.0)	
	—	723.64						36.0		-	M8	212 (24.0)	0.24 (6.0)					

① Length of supported bore.

③ **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor. (see page 4)

② Max. compensation values are mutually exclusive. ④ Torsional Stiffness values based on maximum bores, for smaller bore combinations the values are nearer the non-relieved type.

BORE SIZES 6-BEAM COUPLINGS, RELIEVED

○ B1 only

● B1 & B2

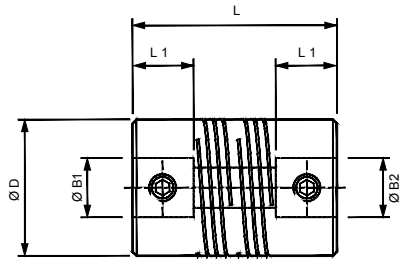
Sizes indicated in parenthesis are metric (mm).

Coupling Size	ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm)																													
	(2)	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)	(12)	1/2"	(14)	5/8"	(16)	(18)	(19)	3/4"	(20)	(24)	(25)	1"	(28)	(30)	1 1/4"	(32)			
9	○	●	●	●	●																									
13		○	○	●	●	●	●	●																						
16		○	○	●	●	●	●	●	●																					
19					○	●	●	●	●	●																				
25						○	●	●	●	●	●	●	●																	
32									○	●	●	●	●	●	●	●	●													
38									○	●	●	●	●	●	●	●	●	●	●	●										
44										○	○	○	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
51											○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
57												○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
64													○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Bore ref.	11	14	16	18	19	20	22	24	28	31	32	35	36	38	41	42	45	46	47	48	51	52	53	54	56	57	58			

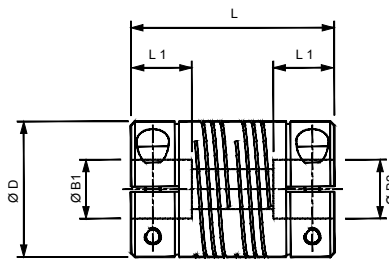
S = Setscrew only

Short Stainless Steel Multi-Helix Flexible 6 Beam Couplings Non-Relieved

Set Screw Hubs



Clamp Hubs



Materials & Finishes

Couplings: Stainless Steel 303
S31

Fasteners: Stainless Steel

Temperature Range

-40°F to +284°F

(-40°C to +140°C)

6-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size	Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	L1 in. (mm)	Bore Diameters			Mass kgx10 ⁻³	Fasteners				Angular Offset Deg.	Parallel Offset in. (mm)	Torsional Stiffness Nm/rad	Peak Torque lb.in (Nm)
						Min B1	Min B2	Max B1 & B2		Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)				
Non-Relieved 51	712.51	—	2.0 (50.8)	3.0 (76.2)	0.71 (18.0)	10.0	16.0	28.0	960	M8	-	79.7 (9.00)	0.16 (4.0)	7.0	0.02 (0.60)	1305	646.1 (73.0)
	—	713.51						26.0	906	-	M6	86.3 (9.75)	0.20 (5.0)				
57	712.57	—	2.3 (57.2)	3.5 (88.9)	0.79 (20.0)	10.0	20.0	32.0	1466	M8	-	79.7 (9.00)	0.16 (4.0)	7.0	0.02 (0.60)	1755	902.8 (102.0)
	—	713.57						30.0	1406	-	M6	86.3 (9.75)	0.20 (5.0)				
64	712.64	—	2.5 (63.5)	4.0 (101.6)	0.83 (21.0)	12.0	25.0	38.0	2052	M8	-	79.7 (9.00)	0.16 (4.0)	7.0	0.02 (0.60)	2340	1239.1 (140.0)
	—	713.64						36.0	1982	-	M8	212.4 (24.0)	0.24 (6.0)				

① Length of supported bore.

③ **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor. (**see page 4**)

② Max. compensation values are mutually exclusive.

BORE SIZES 6-BEAM COUPLINGS, NON-RELIEVED

B1 only

B1 & B2

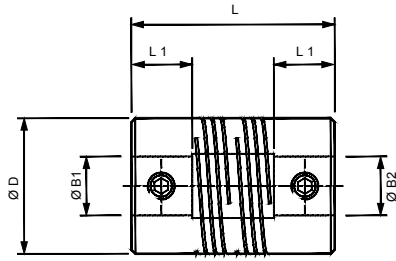
Coupling Size	10	12	(1/2")	14	(5/8")	16	18	19	(3/4")	20	24	25	(1")	28	30	(1 1/4")	32		
51	○	○	○	○	○	●	●	●	●	●	●	●	●	●	●	●	●	S	
57	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●	S	S
64		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Bore ref.	32	35	36	38	41	42	45	46	47	48	51	52	53	54	56	57	58		

S = Setscrew only

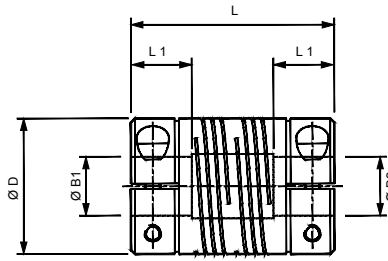
Multi-Beam

Short Stainless Steel Multi-Helix Flexible 6 Beam Couplings

Set Screw Hubs



Clamp Hubs



Materials & Finishes

Couplings: Stainless Steel 303 S31

Fasteners: Stainless Steel

Temperature Range

-40°F to +284°F
(-40°C to +140°C)

6-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size	Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	① L1 in. (mm)	Bore Diameters			Mass kgx10-3	Fasteners				② Angular Offset Deg.	② Parallel Offset in. (mm)	④ Torsional Stiffness Nm/rad	③ Peak Torque lb.in (Nm)
						Min B1	Min B2	Max B1 & B2		Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)				
Relieved	51	732.51	2.0 (50.8)	3.0 (76.2)	0.71 (18.0)	10.0	16.0	28.0	855	M8	-	79.7 (9.00)	0.16 (4.0)	7.0	0.02 (0.60)	783	327.5 (37.0)
		-						733.51	26.0	801	-	M6	86.3 (9.75)				
	57	732.57	2.3 (57.2)	3.5 (88.9)	0.79 (20.0)	10.0	20.0	32.0	1371	M8	-	79.7 (9.00)	0.16 (4.0)	7.0	0.02 (0.60)	1053	442.5 (50.0)
		-						733.57	30.0	1399	-	M6	86.3 (9.75)				
	64	732.64	2.5 (63.5)	4.0 (101.6)	0.83 (21.0)	12.0	25.0	38.0	2038	M8	-	79.7 (9.00)	0.16 (4.0)	7.0	0.02 (0.60)	1400	575.3 (65.0)
		-						733.64	36.0	1965	-	M8	212.4 (24.0)				

- ① Length of supported bore.
- ③ **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor. (see page 4)
- ② Max. compensation values are mutually exclusive. ④ Torsional Stiffness values based on maximum bores, for smaller bore combinations the values are nearer the non-relieved type.

BORE SIZES 6-BEAM COUPLINGS, RELIEVED

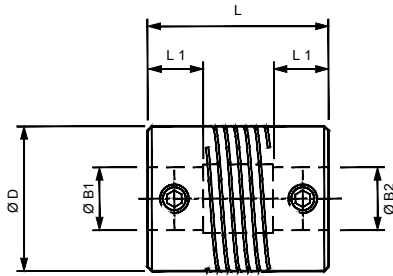
B1 only B1 & B2

Coupling Size	10	12	(1/2")	14	(5/8")	16	18	19	(3/4")	20	24	25	(1")	28	30	(1 1/4")	32
51	○	○	○	○	○	●	●	●	●	●	●	●	●	S			
57	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	S	S
64		○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●
Bore ref.	32	35	36	38	41	42	45	46	47	48	51	52	53	54	56	57	58

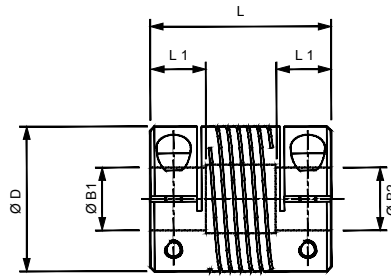
S = Setscrew only

Aluminium Multi-Helix Flexible 3 Beam Couplings

Set Screw Hubs



Clamp Hubs



Materials & Finishes

Couplings: Aluminium L168 or better

Fasteners: Alloy steel, black oiled

Temperature Range

-40°F to +248°F

(-40°C to +120°C)

3-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size	Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	① L1 in. (mm)	Bore Diameters			Mass kgx10 ⁻³	Fasteners				② Angular Offset Deg.	② Parallel Offset in. (mm)	Torsional Stiffness Nm/rad	③ Peak Torque lb.in (Nm)	
						Min B1	Min B2	Max B1 & B2		Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)					
Relieved	6	724.06	—	.25 (6.4)	0.5 (12.7)	.13 (3.2)	1.0	2.0	3.0	0.7	M2	—	1.7 (0.2)	.035 (0.9)	3.0	.003 (.07)	1.53	354 (0.40)
	9	724.09	—	.37 (9.5)	.56 (14.2)	.18 (4.5)	2.0	3.0	3.18	2.2	M2.5	—	4.8 (0.5)	.051 (1.3)	3.0	.004 (0.1)	5.4	354.02 (0.40)
		—	725.09	—	—	—					—	M1.6	—	.059 (1.5)				
	13	724.13	—	0.5 (12.7)	.75 (19.1)	.24 (6.0)	3.0	4.0	5.0	5.0	M3	—	8.0 (0.9)	.059 (1.5)	5.0	.005 (.127)	28.0	796.57 (0.90)
		—	725.13	—	—	—					—	M2	—	.059 (1.5)				
	16	724.16	—	.63 (15.9)	.80 (20.3)	.26 (6.5)	3.0	4.0	6.35	8.2	M4	—	19.5 (2.2)	.079 (2.0)	5.0	.005 (.127)	38.0	13.28 (1.50)
		—	725.16	—	—	—					—	M2.5	—	.079 (2.0)				
	19	724.19	—	.75 (19.1)	.90 (22.9)	.26 (6.5)	4.0	4.76	8.0	12.8	M4	—	19.5 (2.2)	.079 (2.0)	5.0	.005 (.127)	65.0	22.13 (2.50)
—		725.19	—	—	—	—					M2.5	—	.079 (2.0)					
25	724.25	—	1.0 (25.4)	1.25 (31.8)	.35 (9.0)	5.0	6.0	10	32.6	M5	—	40.7 (4.6)	.098 (2.5)	5.0	.005 (.127)	121	35.4 (4.0)	
	—	725.25	—	—	—					—	M3	—	.098 (2.5)					
32	724.32	—	1.25 (31.8)	1.75 (44.5)	.47 (12.0)	6.0	8.0	14	70	M6	—	67.3 (7.6)	0.12 (3.0)	5.0	.005 (.127)	238	53.1 (8.0)	
	—	725.32	—	—	—					—	M4	—	0.12 (3.0)					

① Length of supported bore.

③ **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor. (see page 4)

② Max. compensation values are mutually exclusive.

BORE SIZES 3-BEAM COUPLINGS

Sizes indicated in parenthesis are metric (mm).

Coupling Size	ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm)														
	(1)	(2)	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)	(12)	1/2"	(14)
6	○	●	●												
9		○	●	●											
13			○	○	●	●	●								
16				○	●	●	●	●	●						
19					○	●	●	●	●	●					
25							○	●	●	●	●	●			
32									○	○	●	●	●	●	●
Bore ref.	8	11	14	16	18	19	20	22	24	28	31	32	35	36	38

○ B1 only

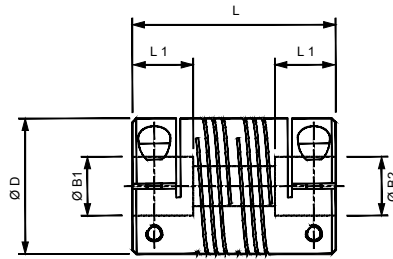
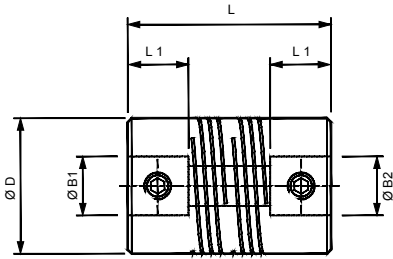
● B1 & B2

Multi-Beam

Aluminium Multi-Helix Flexible 6 Beam Couplings Non-Relieved

Set Screw Hubs

Clamp Hubs



Materials & Finishes

Couplings: Aluminium L168 or better

Fasteners: Alloy steel, black oiled

Temperature Range

-40°F to +248°F

(-40°C to +120°C)

6-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size	Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	L1 in. (mm)	Bore Diameters			Mass kgx10-3	Fasteners				Angular Offset Deg.	Parallel Offset in. (mm)	Torsional Stiffness Nm/rad	Peak Torque lb.in (Nm)	
						Min B1	Min B2	Max B1 & B2		Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)					
Non-Relieved	09	706.09	—	0.4 (9.5)	0.77 (19.6)	0.21 (5.3)	2.0	4.0	4.76	2.85	M2.5	-	4.8 (0.55)	0.51 (1.3)	3.0	.002 (0.12)	1.8	8.85 (1.0)
		—	707.09									-	M1.6	2.6 (0.29)				
	13	706.13	—	0.5 (12.7)	.09 (22.9)	0.26 (6.5)	3.0	5.0	6.35	5.5	M3	-	8.0 (0.90)	0.59 (1.5)	5.0	.007 (0.17)	14.0	17.7 (2.0)
		—	707.13								-	M2	5.8 (0.66)	0.59 (1.5)				
	16	706.16	—	0.63 (15.9)	1.00 (25.4)	0.26 (6.5)	3.0	6.0	8	9.8	M4	-	22.1 (2.5)	.098 (2.5)	5.0	.008 (0.2)	27.0	30.09 (3.4)
		—	707.16								-	M2.5	11.5 (1.3)	.079 (2.0)				
	19	706.19	—	0.75 (19.1)	1.04 (26.5)	0.26 (6.5)	4.76	6.35	10	14.0	M4	-	22.1 (2.5)	.098 (2.5)	7.0	0.01 (0.25)	46.0	46.9 (5.3)
		—	707.19								-	M2.5	11.5 (1.3)	.079 (2.0)				
	25	706.25	—	1.00 (25.4)	1.50 (38.1)	0.43 (11.0)	5.0	8.0	12.7	38.0	M5	-	40.7 (4.6)	.098 (2.5)	7.0	.015 (0.38)	108	88.5 (10.0)
		—	707.25								-	M3	21.2 (2.4)	.098 (2.5)				
	32	706.32	—	1.25 (31.8)	2.25 (57.2)	0.63 (16.0)	8.0	9.53	19.0	92.0	M6	-	67.3 (7.6)	0.12 (3.0)	7.0	0.02 (0.5)	225	132.8 (15.0)
		—	707.32						16.0		-	M4	49.6 (5.6)	0.12 (3.0)				
	38	706.38	—	1.50 (38.1)	2.63 (66.7)	0.71 (18.0)	8.0	12.0	22.0	154	M6	-	67.3 (7.6)	0.12 (3.0)	7.0	.024 (0.6)	315	194.7 (22.0)
		—	707.38						19.0		-	M5	97.4 (11.0)	0.16 (4.0)				
	44	706.44	—	1.75 (44.5)	3.00 (76.2)	0.79 (20.0)	9.0	14.0	25.0	239	M6	-	67.3 (7.6)	0.11 (3.0)	7.0	.031 (0.8)	459	265.5 (30.0)
		—	707.44						22.0		-	M5	97.4 (11.0)	0.16 (4.0)				
51	706.51	—	2.00 (50.8)	3.75 (95.3)	0.98 (25.0)	10.0	16.0	28.0	389	M8	-	159 (18)	0.16 (4.0)	7.0	0.35 (0.9)	666	354 (40.0)	
	—	707.51						26.0		-	M6	168 (19)	0.20 (5.0)					
57	706.57	—	2.25 (57.2)	5.12 (130)	1.26 (32.0)	10.0	20.0	32.0	674	M8	-	159 (18)	0.16 (4.0)	7.0	.037 (0.95)	918	486.8 (55.0)	
	—	707.57						30.0		-	M6	168 (19)	0.20 (5.0)					
64	706.64	—	2.5 (63.5)	5.91 (150)	1.5 (38.0)	12.0	25.0	38.0	1118	M8	-	159 (18)	0.16 (4.0)	7.0	0.39 (1.0)	1125	663.8 (75.0)	
	—	707.64						36.0		-	M8	407 (46)	0.24 (6.0)					

① Length of supported bore.

③ **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor. (see page 4)

② Max. compensation values are mutually exclusive.

BORE SIZES 6-BEAM COUPLINGS, NON-RELIEVED

○ B1 only

● B1 & B2

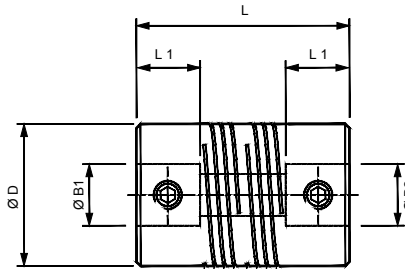
Sizes indicated in parenthesis are metric (mm).

Coupling Size	ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm)																											
	(2)	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)	(12)	1/2"	(14)	5/8"	(16)	(18)	(19)	3/4"	(20)	(24)	(25)	1"	(28)	(30)	1 1/4"	(32)	
9	○	○	○	●	●																							
13		○	○	○	○	●	●	●																				
16			○	○	○	○	○	●	●																			
19					○	○	○	○	●	●	●																	
25						○	○	○	○	●	●	●	●															
32									○	○	○	○	○	○	●	●												
38									○	○	○	○	○	○	○	○	○	○	○	○	○							
44										○	○	○	○	○	○	○	○	○	○	○	○	S	S					
51											○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
57												○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
64													○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Bore ref.	11	14	16	18	19	20	22	24	28	31	32	35	36	38	41	42	45	46	47	48	51	52	53	54	56	57	58	

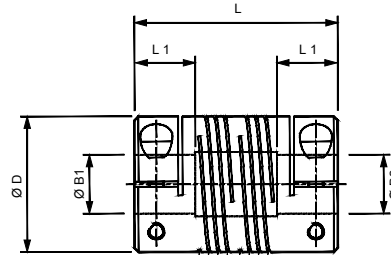
S = Setscrew only

Aluminium Multi-Helix Flexible 6 Beam Couplings

Set Screw Hubs



Clamp Hubs



Materials & Finishes

Couplings: Aluminium L168 or better

Fasteners: Alloy steel, black oiled

Temperature Range

-40°F to +248°F

(-40°C to +120°C)

6-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size	Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	L1 in. (mm)	Bore Diameters			Mass kgx10-3	Fasteners				Angular Offset Deg.	Parallel Offset in. (mm)	Torsional Stiffness Nm/rad	Peak Torque lb.in (Nm)	
						Min B1	Min B2	Max B1 & B2		Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)					
Relieved	09	726.09 -	0.4 (9.5)	0.77 (19.6)	0.21 (5.3)	2.0	3.0	4.76	2.5	M2.5	-	4.8 (0.55)	0.51 (1.3)	3.0	.002 (0.12)	0.9	5.31 (0.6)	
	-	727.09								-	M1.6	2.6 (0.29)	0.59 (1.50)					
	13	726.13	-	0.5 (12.7)	.09 (22.9)	0.26 (6.5)	3.0	4.0	6.35	5.0	M3	-	8.0 (0.9)	0.59 (1.5)	5.0	.007 (0.17)	7.0	11.5 (1.3)
		-	727.13								-	M2	5.8 (0.66)	0.59 (1.5)				
	16	726.16	-	0.63 (15.9)	1.00 (25.4)	0.26 (6.5)	3.0	4.0	8	8.6	M4	-	19.5 (2.2)	0.59 (1.5)	5.0	.008 (0.2)	13.5	17.7 (2.0)
		-	727.16								-	M2.5	11.5 (1.3)	.079 (2.0)				
	19	726.19	-	0.75 (19.1)	1.04 (26.5)	0.26 (6.5)	4.76	5.0	10	12.4	M4	-	19.5 (2.2)	.098 (2.5)	7.0	0.01 (0.25)	23.0	26.6 (3.0)
		-	727.19								-	M2.5	11.5 (1.3)	.079 (2.0)				
	25	726.25	-	1.00 (25.4)	1.50 (38.1)	0.43 (11.0)	5.0	6.0	12.7	35.0	M5	-	40.7 (4.6)	.098 (2.5)	7.0	.015 (0.38)	54	44.25 (5.0)
		-	727.25								-	M3	21.2 (2.4)	.098 (2.5)				
	32	726.32	-	1.25 (31.8)	2.25 (57.2)	0.63 (16.0)	8.0	9.53	19.0	84.0	M6	-	67.3 (7.6)	0.12 (3.0)	7.0	0.02 (0.5)	112	61.96 (7.0)
		-	727.32						16.0		-	M4	49.6 (5.6)	0.12 (3.0)				
	38	726.38	-	1.50 (38.1)	2.63 (66.7)	0.71 (18.0)	8.0	12.0	22.0	140	M6	-	67.3 (7.6)	0.12 (3.0)	7.0	.024 (0.6)	157	97.36 (11.0)
		-	727.38						19.0		-	M5	97.4 (11.0)	0.16 (4.0)				
	44	726.44	-	1.75 (44.5)	3.00 (76.2)	0.79 (20.0)	9.0	14.0	25.0	218	M6	-	67.3 (7.6)	0.11 (3.0)	7.0	.031 (0.8)	229	132.7 (15.0)
		-	727.44						22.0		-	M5	97.4 (11.0)	0.16 (4.0)				
51	726.51	-	2.00 (50.8)	3.75 (95.3)	0.98 (25.0)	10.0	16.0	28.0	348	M8	-	159 (18)	0.16 (4.0)	7.0	0.35 (0.9)	333	177.0 (20.0)	
	-	727.51						26.0		-	M6	168 (19)	0.20 (5.0)					
57	726.57	-	2.25 (57.2)	5.12 (130)	1.26 (32.0)	10.0	20.0	32.0	593	M8	-	159 (18)	0.16 (4.0)	7.0	.037 (0.95)	459	247.8 (28.0)	
	-	727.57						30.0		-	M6	168 (19)	0.20 (5.0)					
64	726.64	-	2.5 (63.5)	5.91 (150)	1.5 (38.0)	12.0	25.0	38.0	1198	M8	-	159 (18)	0.16 (4.0)	7.0	0.39 (1.0)	560	336.6 (38.0)	
	-	727.64						36.0		-	M8	407 (46)	0.24 (6.0)					

① Length of supported bore.

③ **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor. (see page 4)

② Max. compensation values are mutually exclusive. ④ Torsional Stiffness values based on maximum bores, for smaller bore combinations the values are nearer the non-relieved type.

BORE SIZES 6-BEAM COUPLINGS, RELIEVED

○ B1 only

● B1 & B2

Sizes indicated in parenthesis are metric (mm).

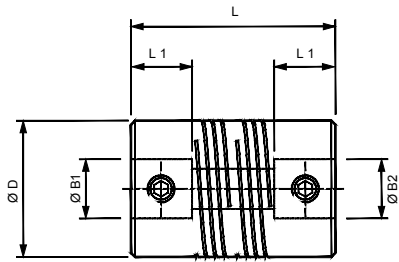
Coupling Size	ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm)																											
	(2)	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)	(12)	1/2"	(14)	5/8"	(16)	(18)	(19)	3/4"	(20)	(24)	(25)	1"	(28)	(30)	1 1/4"	(32)	
9	○	●	●	●																								
13		○	○	●	●	●	●	●																				
16			○	○	●	●	●	●	●																			
19					○	●	●	●	●	●																		
25						○	●	●	●	●	●	●	●															
32									○	●	●	●	●	●	●	●	●											
38									○	●	●	●	●	●	●	●	●	●	●	●								
44										○	○	○	○	○	●	●	●	●	●	●	●	S	S					
51											○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
57												○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
64													○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Bore ref.	11	14	16	18	19	20	22	24	28	31	32	35	36	38	41	42	45	46	47	48	51	52	53	54	56	57	58	

S = Setscrew only

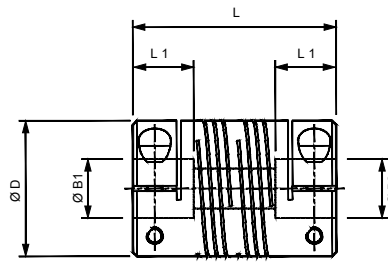
Multi-Beam

Short Aluminium Multi-Helix Flexible 6 Beam Couplings Non-Relieved

Set Screw Hubs



Clamp Hubs



Materials & Finishes

Couplings: Aluminium L168 or better

Fasteners: Alloy steel, black oiled

Temperature Range

-40°F to +248°F

(-40°C to +120°C)

6-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size	Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	① L1 in. (mm)	Bore Diameters			Mass kgx10-3	Fasteners				② Angular Offset Deg.	② Parallel Offset in. (mm)	Torsional Stiffness Nm/rad	③ Peak Torque lb.in (Nm)	
						Min B1	Min B2	Max B1 & B2		Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)					
Non-Relieved	51	-	2.0 (50.8)	3.0 (76.2)	0.71 (18.0)	10.0	16.0	28.0	331	M8	-	159.3 (18)	0.16 (4.0)	7.0	0.02 (0.60)	666	354.0 (40.0)	
								26.0	327	-	M6	168.2 (19)	0.20 (5.0)					
	57	-	2.3 (57.2)	3.5 (88.9)	0.79 (20.0)	10.0	20.0	32.0	500	M8	-	159.3 (18)	0.16 (4.0)	7.0	0.02 (0.60)	918	486.8 (55.0)	
								30.0	497	-	M6	168.2 (19)	0.20 (5.0)					
	64	-	-	2.5 (63.5)	4.0 (101.6)	0.83 (21.0)	12.0	25.0	38.0	694	M8	-	159.3 (18)	0.16 (4.0)	7.0	0.02 (0.60)	1125	663.8 (75.0)
									36.0	712	-	M8	407.1 (46)	0.24 (6.0)				

① Length of supported bore.

③ **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor. (**see page 4**)

② Max. compensation values are mutually exclusive.

BORE SIZES 6-BEAM COUPLINGS, NON-RELIEVED

○ B1 only

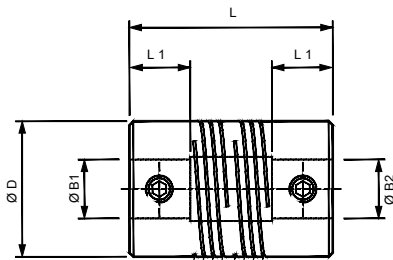
● B1 & B2

Coupling Size	10	12	(1/2")	14	(5/8")	16	18	19	(3/4")	20	24	25	(1")	28	30	(1 1/4")	32
51	○	○	○	○	○	●	●	●	●	●	●	●	●	●	●	●	●
57	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
64		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Bore ref.	32	35	36	38	41	42	45	46	47	48	51	52	53	54	56	57	58

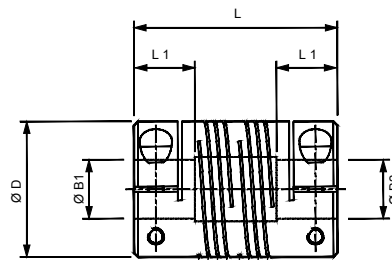
S = Setscrew only

Short Aluminium Multi-Helix Flexible 6 Beam Couplings

Set Screw Hubs



Clamp Hubs



Materials & Finishes

Couplings: Aluminium L168 or better

Fasteners: Alloy steel, black oiled

Temperature Range

-40°F to +248°F

(-40°C to +120°C)

6-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size	Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	① L1 in. (mm)	Bore Diameters			Mass kgx10-3	Fasteners				② Angular Offset Deg.	② Parallel Offset in. (mm)	④ Torsional Stiffness Nm/rad	③ Peak Torque lb.in (Nm)
						Min B1	Min B2	Max B1 & B2		Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)				
Relieved	51	736.51	2.0 (50.8)	3.0 (76.2)	0.71 (18.0)	10.0	16.0	28.0	296	M8	-	159.3 (18)	0.16 (4.0)	7.0	0.02 (0.60)	333	177.0 (20.0)
		-						737.51	26.0	292	-	M6	168.2 (19)				
	57	736.57	2.3 (57.2)	3.5 (88.9)	0.79 (20.0)	10.0	20.0	32.0	468	M8	-	159.3 (18)	0.16 (4.0)	7.0	0.02 (0.60)	459	247.8 (28.0)
		-						737.57	30.0	495	-	M6	168.2 (19)				
	64	736.64	2.5 (63.5)	4.0 (101.6)	0.83 (21.0)	12.0	25.0	38.0	645	M8	-	159.3 (18)	0.16 (4.0)	7.0	0.02 (0.60)	560	336.3 (38.0)
		-						737.64	36.0	663	-	M8	407.1 (46)				

① Length of supported bore.

③ **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor. (see page 4)

② Max. compensation values are mutually exclusive. ④ Torsional Stiffness values based on maximum bores, for smaller bore combinations the values are nearer the non-relieved type.

BORE SIZES 6-BEAM COUPLINGS, RELIEVED

B1 only B1 & B2

Coupling Size	10	12	(1/2")	14	(5/8")	16	18	19	(3/4")	20	24	25	(1")	28	30	(1 1/4")	32
51	○	○	○	○	○	●	●	●	●	●	●	●	●	S			
57	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	S	S
64	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●
Bore ref.	32	35	36	38	41	42	45	46	47	48	51	52	53	54	56	57	58

S = Setscrew only

Multi-Beam

Acetal Multi-Helix Flexible 3 Beam Couplings

Set Screw Hubs

Clamp Hubs

Materials & Finishes

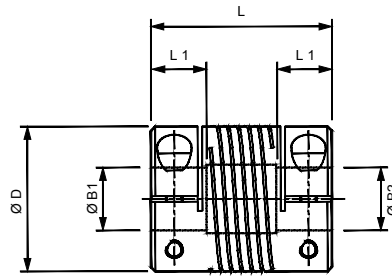
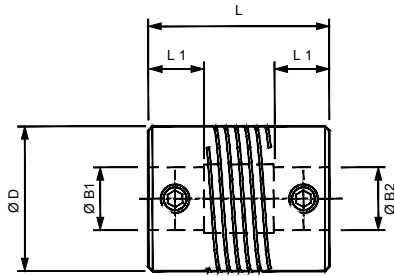
Couplings: Acetal (natural)

Fasteners: Stainless Steel

Temperature Range

-4°F to +140°F

(-20°C to +60°C)



3-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size	Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	① L1 in. (mm)	Bore Diameters			Mass kgx10 ⁻³	Fasteners				② Angular Offset Deg.	② Parallel Offset in. (mm)	Torsional Stiffness Nm/rad	③ Peak Torque lb.in (Nm)	
						Min B1	Min B2	Max B1 & B2		Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)					
Relieved	13	728.13	-	0.50 (12.7)	.750 (19.1)	0.24 (6.0)	3.0	4.0	5.0	2.9	M3	-	2.8 (0.3)	.059 (1.5)	5.0	.005 (.127)	1.9	2.12 (0.24)
		-	729.13									-	M2	2.0 (0.2)				
	16	728.16	-	0.63 (15.9)	0.80 (20.3)	0.26 (6.5)	3.0	4.0	6.0	4.9	M4	-	9.2 (1.0)	.079 (2.0)	5.0	.005 (.127)	2.7	3.10 (0.35)
		-	729.16									-	M2.5	4.5 (0.5)				
	19	728.19	-	0.75 (19.1)	0.90 (22.9)	0.26 (6.5)	4.0	4.76	8.0	7.5	M4	-	9.2 (1.0)	.079 (2.0)	5.0	.005 (.127)	4.0	5.66 (0.64)
		-	729.19									-	M2.5	4.5 (0.5)				
	25	728.25	-	1.0 (25.4)	1.25 (31.8)	0.35 (9.0)	5.0	6.0	10.0	19.0	M5	-	18.6 (2.1)	.098 (2.5)	5.0	.005 (.127)	11	12.39 (1.40)
		-	729.25									-	M3	8.0 (0.9)				
	32	728.32	-	1.25 (31.8)	1.75 (44.5)	0.47 (12.0)	6.0	8.0	14.0	44.0	M6	-	33 (3.7)	0.12 (3.0)	5.0	.005 (.127)	21	22.13 (2.50)
		-	729.32									-	M4	18.9 (2.1)				

① Length of supported bore.

③ **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor. (see page 4)

② Max. compensation values are mutually exclusive.

BORE SIZES 3-BEAM COUPLINGS

Sizes indicated in parenthesis are metric (mm).

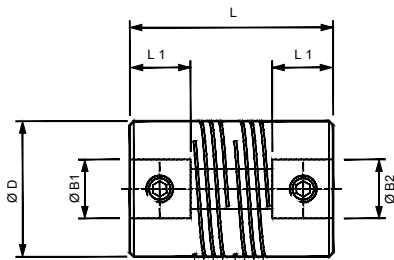
Coupling Size	ØB1, ØB2 +0.0012/-0 (+0.03mm/-0mm)												
	(1)	(2)	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)	(12)
13			○	○	●	●	●						
16			○	○	●	●	●						
19					○	●	●	●	●	●			
25							○	●	●	●	●	●	
32								○	○	●	●	●	●
Bore ref.	8	11	14	16	18	19	20	22	24	28	31	32	35

○ B1 only

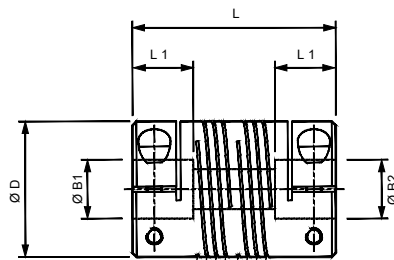
● B1 & B2

Acetal Multi-Helix Flexible 6 Beam Couplings Non-Relieved

Set Screw Hubs



Clamp Hubs



Materials & Finishes

Couplings: Acetal (natural)

Fasteners: Stainless Steel

Temperature Range

-4°F to +140°F

(-20°C to +60°C)

6-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size	Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	① L1 in. (mm)	Bore Diameters			Mass kgx10-3	Fasteners				② Angular Offset Deg.	② Parallel Offset in. (mm)	④ Torsional Stiffness Nm/rad	③ Peak Torque lb.in (Nm)	
	COUPLING REF					Min B1	Min B2	Max B1 & B2		Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)					
Non-Relieved	13	710.13	-	0.50 (12.7)	0.9 (22.9)	0.26 (6.5)	3.0	5.0	6.0	3.2	M3	-	2.8 (0.3)	.059 (1.5)	5.0	.007 (0.17)	1.3	4.51 (0.51)
		-	711.13								-	M2	2.0 (0.2)	.059 (1.5)				
	16	710.16	-	0.63 (15.9)	1.00 (25.4)	0.26 (6.5)	3.0	6.0	8.0	5.4	M4	-	9.2 (1.0)	.079 (2.0)	5.0	.008 (0.2)	1.8	8.05 (0.91)
		-	711.16								-	M2.5	4.5 (0.5)	.079 (2.0)				
	19	710.19	-	0.75 (19.1)	1.04 (26.5)	0.26 (6.5)	4.0	6.35	9.53	8.0	M4	-	9.2 (1.0)	.079 (2.0)	7.0	0.01 (0.25)	2.7	11.5 (1.3)
		-	711.19								-	M2.5	4.5 (0.5)	.079 (2.0)				
	25	710.25	-	1.0 (25.4)	1.5 (38.1)	0.43 (11.0)	5.0	8.0	12.0	21.0	M5	-	18.6 (2.1)	.098 (2.5)	7.0	0.15 (0.38)	8.0	22.13 (2.5)
		-	711.25								-	M3	8.0 (0.9)	.098 (2.5)				
	32	710.32	-	1.25 (31.8)	2.25 (57.2)	0.63 (16.0)	6.0	10.0	16.0	51.0	M6	-	33 (3.7)	0.12 (3.0)	7.0	0.02 (0.5)	14.0	35.4 (4.0)
		-	711.32								-	M4	18.9 (2.1)	0.12 (3.0)				

① Length of supported bore.

③ **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor. (see page 4)

② Max. compensation values are mutually exclusive. ④ Torsional Stiffness values based on maximum bores, for smaller bore combinations the values are nearer the non-relieved type.

BORE SIZES 6-BEAM COUPLINGS, NON-RELIEVED

Sizes indicated in parenthesis are metric (mm).

Coupling Size	ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm)															
	(2)	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)	(12)	1/2"	(14)	5/8"	(16)
13		○	○	○	○	●	●									
16		○	○	○	○	○	●	●								
19					○	○	○	●	●	●						
25						○	○	○	●	●	●	●				
32									○	○	●	●	●	●	●	●
Bore ref.	11	14	16	18	19	20	22	24	28	31	32	35	36	38	41	42

○ B1 only

● B1 & B2

Multi-Beam

Acetal Multi-Helix Flexible 6 Beam Couplings

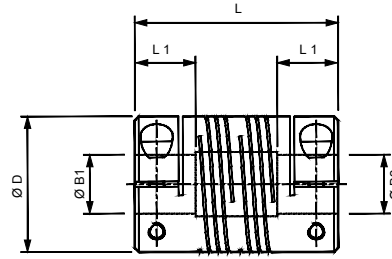
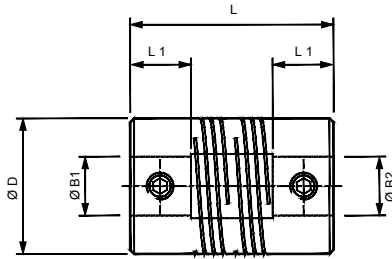
Set Screw Hubs

Clamp Hubs

Materials & Finishes

Couplings: Acetal (natural)

Fasteners: Stainless Steel



Temperature Range

-4°F to +140°F

(-20°C to +60°C)

6-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size	Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	L1 in. (mm)	Bore Diameters			Mass kgx10-3	Fasteners				Angular Offset Deg.	Parallel Offset in. (mm)	Torsional Stiffness Nm/rad	Peak Torque lb.in (Nm)	
						Min B1	Min B2	Max B1 & B2		Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)					
Relieved	13	730.13	-	0.50 (12.7)	0.9 (22.9)	0.26 (6.5)	3.0	4.0	5.0	3.2	M3	-	2.8 (0.3)	.059 (1.5)	5.0	.007 (0.17)	0.5	2.83 (.32)
		-	731.13								-	M2	2.0 (0.2)	.059 (1.5)				
	16	730.16	-	0.63 (15.9)	1.00 (25.4)	0.26 (6.5)	3.0	4.0	6.35	5.4	M4	-	9.2 (1.0)	.079 (2.0)	5.0	.008 (0.2)	0.7	5.40 (.61)
		-	731.16								-	M2.5	4.5 (0.5)	.079 (2.0)				
	19	730.19	-	0.75 (19.1)	1.04 (26.5)	0.26 (6.5)	4.0	5.0	8.0	7.8	M4	-	9.2 (1.0)	.079 (2.0)	7.0	0.01 (0.25)	1.0	7.70 (.87)
		-	731.19								-	M2.5	4.5 (0.5)	.079 (2.0)				
	25	730.25	-	1.0 (25.4)	1.5 (38.1)	0.43 (11.0)	5.0	6.0	10.0	21.0	M5	-	18.6 (2.1)	.098 (2.5)	7.0	.015 (0.38)	3.2	14.80 (1.67)
		-	731.25								-	M3	8.0 (0.9)	.098 (2.5)				
	32	730.32	-	1.25 (31.8)	1.25 (31.8)	2.25 (57.2)	8.0	9.53	12.7	52.0	M6	-	33 (3.7)	0.12 (3.0)	7.0	0.02 (0.5)	5.6	21.1 (2.4)
		-	731.32								-	M4	18.9 (2.1)	0.12 (3.0)				

① Length of supported bore.

③ **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor. (see page 4)

② Max. compensation values are mutually exclusive.

BORE SIZES 6-BEAM COUPLINGS, RELIEVED

Sizes indicated in parenthesis are metric (mm).

Coupling Size	ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm)												
	(2)	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)	(12)	1/2"
13		○	○	●	●	●							
16		○	○	●	●	●	●	●					
19					○	●	●	●	●				
25						○	●	●	●	●	●		
32									○	●	●	●	●
Bore ref.	11	14	16	18	19	20	22	24	28	31	32	35	36

○ B1 only ● B1 & B2

Step Beam Couplings - Nylon



Materials & Finishes

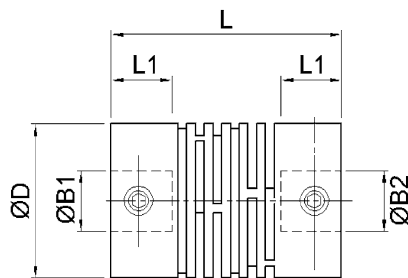
Couplings: Nylon type engineering polymer

Fasteners: Stainless Steel

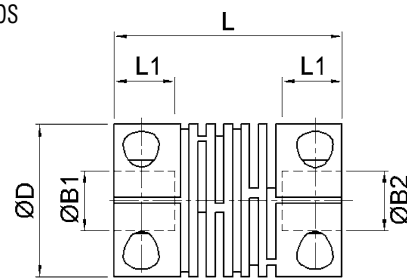
Temperature Range

-4°F to +302°F
(-20°C to +150°C)

Set Screw Hubs



Clamp Hubs



DIMENSIONS & ORDER CODES

Size	Set Screw Style	Clamp Style	Dimensions						Fasteners			
	Order Code		O.D. in. (mm)	O/A Length L in. (mm)	Max Shaft Depth L1 in. (mm)	Min Bore	Max Bore	Mass kg x 10-3	Set Screw	Cap Screw	Torque lb.-in. (Ncm)	A/F in. (mm)
25	636.25	-	0.98 (25)	1.42 (36)	0.39 (10.0)	6	12.7	17.4	M4	-	0.09 (1.0)	.079 (2.0)
	-	637.25							-	M3	0.08 (0.9)	.098 (2.5)

PERFORMANCE

Size	Peak Torque in. (Nm)	Torsional Stiffness (Nm/rad)	Max misalignment / displacement		
			Angular deg	Radial in. (mm)	Axial in. (mm)
25	0.98 (2.5)	18.0	5	.012 (0.3)	.012 (0.3)

AVAILABLE BORES

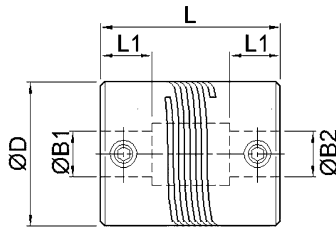
Sizes indicated in parenthesis are metric (mm).

Size	ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm)							
	(6)	1/4"	5/16"	(8)	3/8"	(10)	(12)	1/2"
25	●	●	●	●	●	●	●	●
Bore Ref	22	24	27	28	31	32	35	36

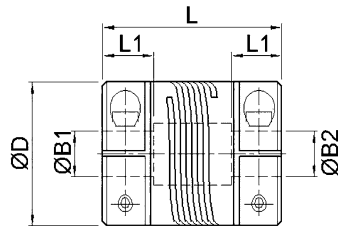
S-Beam

Single Helix Beam Couplings - Stainless Steel

Set Screw Hubs



Clamp Hubs



DIMENSIONS & ORDER CODES

Size	Set Screw Style	Clamp Style	Dimensions							Fasteners			
			Order Code	O.D. in. (mm)	O/A Length L in. (mm)	Bore Depth L1 in. (mm)	Min B1	Min B2	Max B1 & B2	Mass kg x 10-3	Set Screw	Cap Screw	Torque lb.-in. (Nm)
16	820.16	-	0.63 (15.9)	0.79 (20)	0.25 (6.0)	3	4	6.35	25.6	M4	-	9.2 (1.0)	0.08 (2.0)
	-	821.16	0.87 (22)	0.26 (6.5)					26.0	-	M2.5	6.0 (0.68)	0.08 (2.0)
19	820.19	-	0.75 (19.1)	0.79 (20)	0.25 (6.0)	4	4.76	8	35.8	M4	-	9.2 (1.0)	0.08 (2.0)
	-	821.19	1.1 (28)	0.31 (8.0)					47.7	-	M2.5	6.0 (0.68)	0.08 (2.0)
25	820.25	-	1.0 (25.4)	0.94 (24)	0.3 (7.5)	5	6	10	78	M5	-	18.5 (2.1)	0.1 (2.5)
	-	821.25	1.18 (30)	0.39 (10.0)					91	-	M3	10.6 (1.2)	0.1 (2.5)
32	820.32	-	1.25 (31.8)	1.18 (30)	0.39 (10.0)	6	8	16	152	M6	-	33 (3.7)	0.12 (3.0)
	-	821.32	1.5 (38)	0.47 (12.0)					186	-	M4	25 (2.8)	0.12 (3.0)
38	820.38	-	1.5 (38.1)	1.97 (50)	0.63 (16.0)	8	12	19	365	M6	-	33 (3.7)	0.12 (3.0)
	-	821.38	1.97 (50)	0.63 (16.0)					350	-	M5	51 (5.8)	0.16 (4.0)
50	820.50	-	2.0 (50.8)	2.13 (54)	0.71 (18.0)	10	16	26	680	M8	-	79 (9.0)	0.16 (4.0)
	-	821.50	2.13 (54)	0.71 (18.0)					660	-	M6	86 (9.7)	0.2 (5.0)

PERFORMANCE

Size	Peak Torque lb.-in. (Nm)	Max misalignment compensation			Nominal stiffness at std. bore size	
		Angular deg	Radial in. (mm)	Axial in. (mm)	Bore	Torsional Nm/rad
16	10.62 (1.2)	5	0.01 (0.25)	0.01 (0.25)	5	16
19	20.36 (2.3)	5	0.01 (0.25)	0.01 (0.25)	6	33
25	38.06 (4.3)	5	0.01 (0.25)	0.01 (0.25)	10	45
32	69.04 (7.8)	5	0.01 (0.25)	0.01 (0.25)	12	84
38	177 (20)	5	0.01 (0.25)	0.01 (0.25)	16	195
50	265 (30)	5	0.01 (0.25)	0.01 (0.25)	20	320

Materials & Finishes

Couplings: Stainless Steel 303 S31

Fasteners: Stainless Steel

Temperature Range

-40°F to +284°F
(-40°C to +140°C)

AVAILABLE BORES

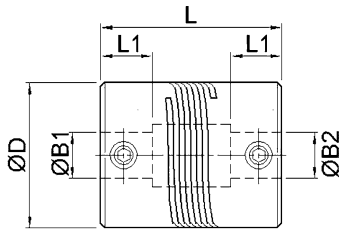
Sizes indicated in parenthesis are metric (mm).

Size	ØB1, ØB2 +0.0012/-0 (+0.03mm/-0mm)																						
	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	5/16"	(8)	(9)	3/8"	(10)	(12)	1/2"	(14)	(15)	5/8"	(16)	3/4"	(20)	(25)	1"	
16	○	○	●	●	●	●	●																
19			○	●	●	●	●		●														
25					○	●	●	●	●	●	●	●											
32						○	○	●	●	●	●	●	●	●	●	●	●	●					
38											○	○	●	●	●	●	●	●					
50														○	○	○	○	●	●	●	●	●	●
Bore Ref	14	16	18	19	20	22	24	27	28	30	31	32	35	36	38	40	41	42	47	48	52	53	

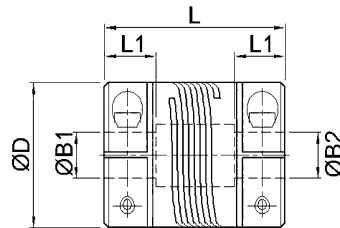
○ B1 only ● B1 & B2

Single Helix Beam Couplings - Aluminium

Set Screw Hubs



Clamp Hubs



DIMENSIONS & ORDER CODES

Size	Set Screw Style	Clamp Style	Dimensions							Fasteners			
	Order Code		O.D. in. (mm)	O/A Length L in. (mm)	Bore Depth L1 in. (mm)	Min B1	Min B2	Max B1 & B2	Mass kg x 10-3	Set Screw	Cap Screw	Torque lb.-in. (Nm)	A/F in. (mm)
16	826.16	-	0.63 (15.9)	0.79 (20)	0.25 (6.0)	3	4	6.35	8.8	M4	-	20.0 (2.2)	0.08 (2.0)
	-	827.16		0.87 (22)	0.26 (6.5)				9.8	-	M2.5	11.6 (1.3)	0.08 (2.0)
19	826.19	-	0.75 (19.1)	0.79 (20)	0.25 (6.0)	4	4.76	8	13.1	M4	-	20.0 (2.2)	0.08 (2.0)
	-	827.19		1.1 (28)	0.31 (8.0)				17.3	-	M2.5	11.6 (1.3)	0.08 (2.0)
25	826.25	-	1.0 (25.4)	0.94 (24)	0.3 (7.5)	5	6	10	28	M5	-	40 (4.6)	0.1 (2.5)
	-	827.25		1.18 (30)	0.39 (10.0)				33	-	M3	21.5 (2.4)	0.1 (2.5)
32	826.32	-	1.25 (31.8)	1.18 (30)	0.39 (10.0)	6	8	16	55	M6	-	67 (7.6)	0.12 (3.0)
	-	827.32		1.5 (38)	0.47 (12.0)				67	-	M4	50 (5.6)	0.12 (3.0)
38	826.38	-	1.25 (38.1)	1.97 (50)	0.63 (16.0)	8	12	19	127	M6	-	67 (7.6)	0.12 (3.0)
	-	827.38		1.97 (50)	0.63 (16.0)				130	-	M5	100 (11.4)	0.16 (4.0)
50	826.50	-	2.0 (50.8)	2.13 (54)	0.71 (18.0)	10	16	26	241	M8	-	164 (18.3)	0.16 (4.0)
	-	827.50		2.13 (54)	0.71 (18.0)				237	-	M6	171 (19.3)	0.2 (5.0)

PERFORMANCE

Size	Peak Torque lb-in. (Nm)	Max misalignment compensation			Nominal stiffness at std. bore size	
		Angular deg	Radial in. (mm)	Axial in. (mm)	Bore	Torsional Nm/rad
16	5.31 (0.6)	5	0.01 (0.25)	0.01 (0.25)	5	6
19	9.74 (1.1)	5	0.01 (0.25)	0.01 (0.25)	6	12
25	19.47 (2.2)	5	0.01 (0.25)	0.001 (0.25)	10	17
32	36.29 (4.1)	5	0.01 (0.25)	0.01 (0.25)	12	32
38	88.51 (10)	5	0.01 (0.25)	0.01 (0.25)	16	70
50	132.76 (15)	5	0.01 (0.25)	0.01 (0.25)	20	119

Materials & Finishes

Couplings: Aluminium L 168 or better

Fasteners: Alloy steel, black oiled

Temperature Range

-40°F to +248°F
(-40°C to +120°C)

AVAILABLE BORES

Sizes indicated in parenthesis are metric (mm).

Size	ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm)																						
	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	5/16"	(8)	(9)	3/8"	(10)	(12)	1/2"	(14)	(15)	5/8"	(16)	3/4"	(20)	(25)	1"	
16	○	○	●	●	●	●	●																
19			○	●	●	●	●		●														
25					○	●	●	●	●	●	●	●											
32						○	○	●	●	●	●	●	●	●	●	●	●	●					
38											○	○	●	●	●	●	●	●	●				
50														○	○	○	○	●	●	●	●	●	●
Bore Ref	14	16	18	19	20	22	24	27	28	30	31	32	35	36	38	40	41	42	47	48	52	53	

○ B1 only ● B1 & B2

