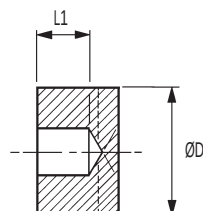
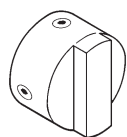




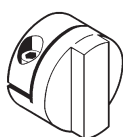
Blind hubs



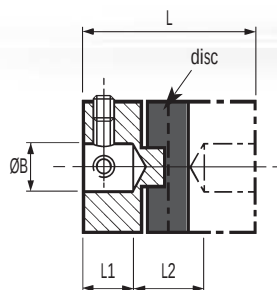
Controlled bore depth L1 provides a register when pre-assembling hubs to shafts



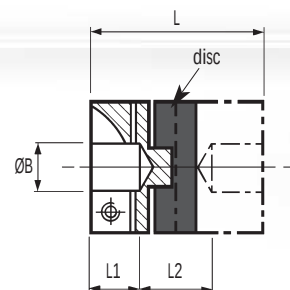
Set screw style



Clamp style

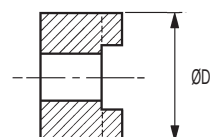


Refs. 232, 243
Set screw style

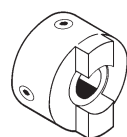


Refs. 234, 235, 245
Clamp style

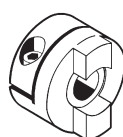
Thro' hubs



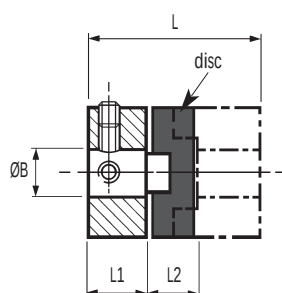
Thro' bores allow disc replacement without disturbing shaft alignment



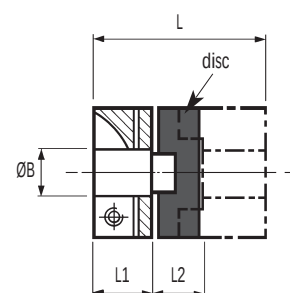
Set screw style



Clamp style



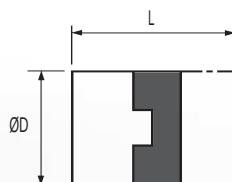
Refs. 450, 454
Set screw style



Refs. 452, 453, 456
Clamp style

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Blank hubs



User-adaptable for special needs, e.g. fitting within tubes. Blank hubs are supplied centred with no provision for fastening. External dimensions identical with blind hubs.

Coupling size	Complete hub ref.	ØD	L
06	231.06.00	6.4	12.7
09	231.09.00	9.5	12.7
13	231.13.00	12.7	15.9
19	231.19.00	19.1	22.0
25	231.25.00	25.4	28.4
33	230.33.00	33.3	48.0
33	231.33.00	33.3	42.0
41	231.41.00	41.3	50.8

Standard discs (larger sizes are webbed)



- Acetal – High torsional stiffness, good bearing properties, long backlash-free life.
- Nylon 11 – Resilient, isolates noise & vibration. Performance approximately 25% that of acetal disc.

Thro' bored discs



Thro' bored discs allow shafts to near-butt, standard thro' hole diameter = $\text{ØD} \times 0.5$. To order, add suffix 'T' to order code, eg., 236.25T. Other thro' hole diameters are manufactured to order. Specify the disc ref. and thro' hole diameter. This should equal the larger shaft diameter + 2 x max radial error.

Note that thro' bored discs reduce torsional stiffness.

Materials & Finishes

Hub sizes 06 to 13: Brass BS 2874 C2121

Hub sizes 19 to 57: Al. Alloy 2014A T6 or AIECO 62 Sn T9

Fasteners: Alloy steel, black oiled

Blind & blank hubs: Irridite NCP finish

Thro' hubs:

Torque discs:

Clear anodised finish

Types 236 - Acetal (black)

Types 238 - Nylon 11 (natural)

Temperature Range

–20°C to +60°C



DIMENSIONS & ORDER CODES

Coupling Type and Size		Hub Ref		Dimensions							Fasteners			Disc Ref	
		Set Screw Style	Clamp Style	ØD	L	¹ L1	² L2	ØB1 Max	⁴ Moment of Inertia kgm ² x10-3	⁴ Mass kg x10-3	Size	³ Torque (Nm)	Wrench (mm)	Acetal (black) Std.	Nylon 11 (Natural)
Blind Hubs	06	232.06	-	6.4	12.7	3.8	5.1	3.18	6	2.5	M3	0.94	1.5	236.06	238.06
	09	232.09	-	9.5	12.7	3.8	5.1	5	18	4	M3	0.94	1.5	236.09	238.09
	13	232.13	-	12.7	15.9	4.3	7.3	6.35	26	11	M3	0.94	1.5	236.13	238.13
	19	232.19	-	19.1	22.0	6.3	9.4	8	67	12	M3	0.94	1.5	236.19	238.19
		-	235.19								4-40	2.33	2.0		
	25	232.25	-	25.4	28.4	8.6	11.2	12	252	31	M4	2.27	2.0	236.25	238.25
		-	234.25								M3	2.43	2.5		
	33	232.33	-	33.3	42.0	13.0	16.0	16	1074	72	M5	4.62	1.5	836.33	838.33
		-	235.43								M4	2.33	2.0		
		243.33	-	33.3	48.0	13.0	22.0	16	1278	86	M4	2.27	3.0	236.33	238.33
-		245.33								M4	5.66	2.5			
41	232.41	-	41.3	50.8	16.7	17.4	20	3327	148	M5	4.62	2.5	236.41	238.41	
	-	234.41								M4	5.66	3.0			
Thro' Hubs	19	450H19	-	19.1	26.0	9.4	7.2	8	59	13	M5	4.62	2.5	236.19	238.19
		-	452H33								4-40	2.33	2.0		
	25	450H25	-	25.4	32.4	11.6	9.2	12	252	31	M5	4.62	2.5	236.25	238.25
		-	452H33								M3	2.43	2.5		
	33	450H33	-	33.3	42.0	15.0	12.0	16	1080	67	M6	7.61	3.0	836.33	838.33
		-	452H33								M4	5.66	3.0		
		454H33	-	33.3	48.0	15.0	18.0	16	1133	74	M6	7.61	3.0	236.33	238.33
		-	456H33								M4	5.66	3.0		
	41	450H41	-	41.3	50.8	17.8	15.3	20	3177	142	M6	7.61	3.0	236.41	238.41
		-	452H41								M4	5.66	3.0		
	50	450H50	-	50.0	59.6	20.6	18.4	25.4	7550	208	M8	18.36	4.0	236.50	-
		-	452H50								M5	11.40	4.0		
57	450H57	-	57.1	78.0	28.4	21.2	30	12410	361	M8	18.36	4.0	236.57	-	
	-	452H57								M6	19.34	5.0			

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PERFORMANCE (AT 20°C WITH STANDARD ACETAL DISC)

Coupling Size	5 Peak torque Nm	6 Max compensation @ 3000 r.p.m.			7 Torsional		Static break torque Nm
		Angular deg	Radial mm	Axial ± mm	Rate deg / Nm	Stiffness Nm / rad	
06	0.06	0.5	0.1	0.05	5.7	10	0.7
09	0.21		0.1	0.05	1.9	30	2
13	0.5		0.1	0.05	0.88	65	4
19	1.7		0.2	0.1	0.50	115	8
25	4		0.2	0.1	0.28	205	13
33	9		0.2	0.15	0.093	615	53
41	17		0.25	0.15	0.048	1200	57
50	30		0.25	0.2	0.042	1375	95
57	44		0.25	0.2	0.022	2610	150

NB. Size 33 available in both 'standard' and 'long' versions

IMPORTANT

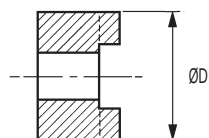
Load capacity depends on application conditions: see page 6 for details

- 1 Blind hubs: Length of parallel bore ± 0.2 . Bores may terminate in 118° incl. angle.
Thro' hubs: Max permissible hub penetration.
- 2 Blind hubs: Nominal distance between unchamfered shafts bottomed out to L1.
Thro' hubs: Nominal distance between shafts with standard (unbored) disc.
- 3 Maximum recommended tightening torque (see also next page under 'Clamp hubs')
- 4 Values apply to complete couplings with max bores.
- 5 Peak torque. Select a size where Peak Torque exceeds the application torque x service factor.
- 6 Couplings can provide up to (ØD x 0.1) radial compensation in extreme cases. Observe given values for maximum backlash-free life.
Axial compensation is set on installation. See next page for details.
Electrical isolation between shafts > 3kV.
- 7 Values apply at 50% peak torque with no misalignment, measured shaft-to-shaft with largest standard bores.
- 8 Thro' hubs can be provided with keyways or 'D' bores. See page 56 for details.

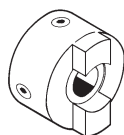
For Standard Bores see page 26



Thro' hubs



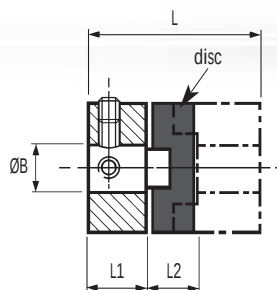
Thro' bores allow disc replacement without disturbing shaft alignment



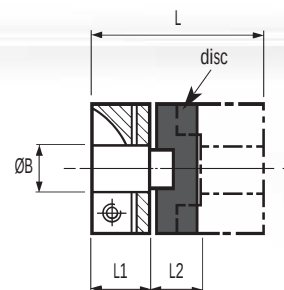
Set screw style



Clamp style



Ref. 850
Set screw style



Ref. 852
Clamp style

DIMENSIONS & ORDER CODES

Size	Hub Ref		Dimensions							Fasteners			Disc Ref	
	Set Screw Style	Clamp Style	OD	L	L1	L2	OB1 Max	Moment of Inertia kgm ² x10 ⁻³	Mass kg x10 ⁻³	Size	Torque (Nm)	A/F (mm)	Acetal (black) Std.	Nylon 11 (Nat)
25	850.25	-	25.4	32.4	11.6	9.2	12.0	587	76	M5	2.1	2.5	236.25	238.25
	-	852.25								M3	1.2	2.5		
33	850.33	-	33.3	42.0	15.0	12.0	16.0	2091	165	M6	3.8	3.0	836.33	838.33
	-	852.33								M4	2.9	3.0		
41	850.41	-	41.3	50.8	17.8	15.3	20.0	6822	305	M6	3.8	3.0	236.41	238.41
	-	852.41								M5	5.9	4.0		
50	850.50	-	50.0	59.6	20.6	20.6	25.4	17368	510	M8	9.0	4.0	236.50	N/A
	-	852.50								M6	9.8	5.0		

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PERFORMANCE

Size	Peak Torque (Nm)	Max compensation @ 3000 rev/min			Torsional		Static break torque (Nm)
		Angular deg	Radial mm	Axial +/- mm	Rate deg/Nm	Stiff Nm/Rad	
25	4	0.5	0.2	0.1	0.28	205	13
33	9		0.2	0.15	0.093	615	53
41	17		0.25	0.15	0.048	1200	57
50	30		0.25	0.12	0.042	1375	95

STANDARD BORES⁸

Coupling	ØB +0.03/-0mm																							
Size	2	3	3.175	4	4.763	5	6	6.350	8	9.525	10	12	12.700	14	15	15.875	16	18	19	19.050	20	24	25	30
06	●	●	●																					
09		●	●	●	●	●																		
13		●	●	●	●	●	●	●																
19				●	●	●	●	●	●															
25							●	●	●	●	●	●												
33									●	●	●	●	●	●	●	●	●							
41										●	●	●	●	●	●	●	●	●	●	●	●			
50										●	●	●	●	●	●	●	●	●	●	●	●	●	●	
57												●	●	●	●	●	●	●	●	●	●	●	●	●
Bore ref.	11	14	16	18	19	20	22	24	28	31	32	35	36	38	40	41	42	45	46	47	48	51	52	56

Materials & Finishes

Hubs : Stainless Steel 303 S31 - Natural Finish
Fasteners: Stainless Steel
Discs: Torque disc details on page 24

Temperature Range

-20°C to +60°C

Maximum Rotational Speed

3000 rev/min