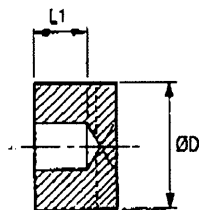


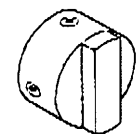
7075558
7075923

OLDHAM LATERAL OFFSET COUPLERS

Blind hubs



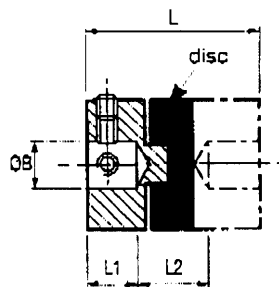
Controlled bore depth
L1 provides a register
when pre-assembling
hubs to shafts



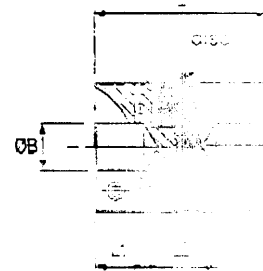
Set screw style



Clamp style

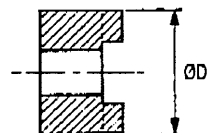


Refs. 232, 243
Set screw style



Refs. 234, 235, 245
Clamp style

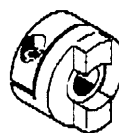
Thro' hubs



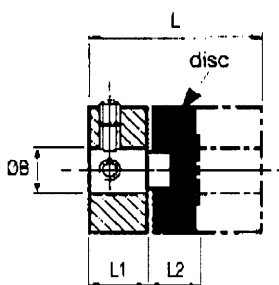
Thro' bores allow disc
replacement without
disturbing shaft alignment



Set screw style



Clamp style

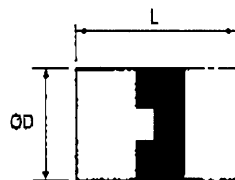


Refs. 450, 454
Set screw style



Refs. 452, 453, 456
Clamp style

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.

Coupler size	Complete hub ref.	OD	Length
06	231.06.00	10.0	10.0
09	231.09.00	12.0	12.0
13	231.13.00	16.0	16.0
19	231.19.00	20.0	20.0
25	231.25.00	25.0	25.0
33	230.33.00	33.0	33.0
41	231.41.00	41.0	41.0

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.

HOW TO ORDER

Combine the HUB REF. from
Main Table with the BORE REF. from
Bores Table, e.g.
452H25.26

Hub ref. _____

Bore ref. _____

Order discs separately from the Main Table, e.g.

236.25

Disc ref. _____

ORDER 2 HUBS + 1 DISC PER COUPLER

Thro' bored discs



Thro' bored discs allow shafts to near-butt, standard thro'
hole diameter = $OD \times 0.5$. 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 + $2 \times$ max radial error.

Note that thro' bored discs reduce torsional stiffness.

HOW TO INSTALL

Correct installation is important for
operation. See page 17.

OLDHAM LATERAL OFFSET COUPLERS

MAIN TABLE - DIMENSIONS & ORDER CODES

MAIN TABLE DIMENSIONS & ORDER CODES															
Coupler Type & Size	Set Screw Style	Clamp Style	ØD	L	L1	L2	ØB1 max	Fasteners			Moment of inertia kgm ² x 10 ⁻⁸	Mass kg x 10 ⁻³	Acetal (black) standard	Nylon 11 (natural)	
								Screw	Torque Nm	Wrench mm					
	HUB REF			DISC REF											
Blind Hubs	06	232.06	-	6.4	12.7	3.8	5.1	3.18	M3	0.94	1.5	6	2.5	238.06	238.06
	09	232.09	-	9.5	12.7	3.8	5.1	5	M3	0.94	1.5	18	4	236.09	238.09
	13	232.13	-	12.7	15.9	4.3	7.3	6.35	M3	0.94	1.5	26	11	236.13	238.13
	19	232.19	-	19.1	22.0	6.3	9.4	8	M3	0.94	1.5	67	12	236.19	238.19
	-	235.19	-	-	-	-	-	4-40	2.33	2.0	-	-	-	-	-
	25	232.25	-	25.4	28.4	8.6	11.2	12	M4	2.27	2.0	252	31	236.25	238.25
	-	234.25	-	-	-	-	-	M3	2.43	2.5	-	-	-	-	-
	33	243.33	-	33.3	48.0	13.0	22.0	16	M4	2.27	2.0	1278	86	238.33	238.33
	-	245.33	-	-	-	-	-	M3	2.43	2.5	-	-	-	-	-
	41	232.41	-	41.3	50.8	16.7	17.4	20	M5	4.62	2.5	3327	148	236.41	238.41
-	234.41	-	-	-	-	-	M4	5.66	3.0	-	-	-	-	-	
Thro' Hubs	19	450H19	-	19.1	26.0	9.4	7.2	8	M4	2.27	2.0	59	13	236.19	238.19
	-	453H19	-	-	-	-	-	4-40	2.33	2.0	-	-	-	-	-
	25	450H25	-	25.4	32.4	11.8	9.2	12	M5	4.62	2.5	252	31	236.25	238.25
	-	452H25	-	-	-	-	-	M3	2.43	2.5	-	-	-	-	-
	33	454H33	-	33.3	48.0	15.0	18.0	16	M6	7.61	3.0	1133	74	236.33	238.33
	-	456H33	-	-	-	-	-	M3	2.43	2.5	-	-	-	-	-
	41	450H41	-	41.3	50.8	17.8	15.3	20	M6	7.61	3.0	3177	142	236.41	238.41
	-	452H41	-	-	-	-	-	M4	5.66	3.0	-	-	-	-	-
	50	450H50	-	50.0	59.6	20.6	18.4	25.4	M8	18.36	4.0	7550	208	236.50	-
	-	452H50	-	-	-	-	-	M5	11.40	4.0	-	-	-	-	-
57	450H57	-	57.1	78.0	28.4	21.2	30	M8	18.36	4.0	12410	361	236.57	-	
-	452H57	-	-	-	-	-	M6	19.34	5.0	-	-	-	-	-	

Materials & Finishes

Hub sizes 06 to 19:

Brass BS 2874 C2101

Chromate & passivate finish

Hub sizes 19 to 57:

Al. Alloy 2011T3 and 2011T4

BS 4303/5 F01

Fasteners:

Alloy steel, black oiled

Blind & blank hubs:

Alcrom finish

Thro' hubs:

Clear anodised finish

Torque discs:

Types 236 - Acetal (black)

Types 238 - Nylon 11 (natural)

Temperature Range

-20°C to +50°C

SERVICE FACTORS

Duty	Factor
Momentary	1
1 hr per day	2
3 hrs per day	3
6 hrs per day	4
12 hrs per day	5

(see note page 14)

PERFORMANCE (AT 20°C WITH STANDARD ACETAL DISC)

Coupler Size	Peak torque Nm	Max compensation @ 3000 r.p.m.			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	10
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

1. **Blind hubs:** Length of parallel bore ± 0.2 . Bores may terminate in 11.8° conical 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. Recommended tightening torque (see also next page under 'Clamp hubs')

4. Values apply to complete couplers with max bores.

5. **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor.

6. Couplers can provide up to $\pm (\text{ØD} \times 0.1)$ 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 standard bores.

8. Thro' hubs can be provided with keyways or 'D' bores. See page 4 for details.

STANDARD BORES¹

Coupler Size	ØB $\pm 0.03/-0$ mm																			
	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
06	●	●	●																	
09		●	●	●	●	●														
13		●	●	●	●	●														
19				●	●	●														
25						●	●	●												
33							●	●	●	●	●									
41									●	●	●	●	●	●	●	●	●	●	●	●
50										●	●	●	●	●	●	●	●	●	●	●
57											●	●	●	●	●	●	●	●	●	●
Bores ref.	11	14	16	18	19	20	22	24	28	31	32	35	36	38	40	41	42	45	46	47