Lateral Offset Couplings

What's New?

Based on requests we have extended our ranges of Thro' hubs.

Aluminium range now includes a size 13 Set Screw version.

Stainless Steel range has also been extended to include a size 13 and 19 hub

What's Changed?

Size 19 Aluminium Clamp Hubs we have indroduced a metric version replacing the especial 4-40 UNC screw. [Old product reference 235.19]

Size 33, we have dropped the old long tenon version from the catalog, this will still be available to special order.

[Old product references 230.33.00/243.33/245.33/236.33/454H33 & 456H33]

General Performance Criteria

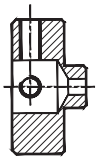
Temperature Range

-20ºF to +140ºF (–20°C to +60°C)

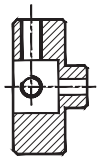
Maximum Rotational Speed

3000 rev/min

① **Blind hubs:** Length of parallel bore ±0.2. Bores may terminate in 118° incl. angle or flat bottomed.
Thro' hubs: Max permissible hub penetration.



118º Included Angle



Flat Bottomed

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.

④ Values apply to complete couplings with max bores.

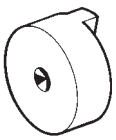
⑤ **Peak torque**. Select a size where Peak Torque exceeds the application torque x service factor.

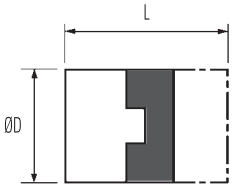
⑥ Couplings can provide up to (ØD x 0.1) radial compensation in extreme cases.
Observe given values for maximum backlash-free life.
Axial compensation is set on installation.
Electrical isolation between shafts > 3kV.

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.

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	0.25 (6.4)	0.50 (12.7)
09	231.09.00	0.37 (9.5)	0.50 (12.7)
13	231.13.00	0.50 (12.7)	0.63 (15.9)
19	231.19.00	0.75 (19.1)	0.87 (22.0)
25	231.25.00	1.00 (25.4)	1.12 (28.4)
33	231.33.00	1.31 (33.3)	1.65 (42.0)
41	231.41.00	1.63 (41.3)	2.00 (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 = ØD x 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.