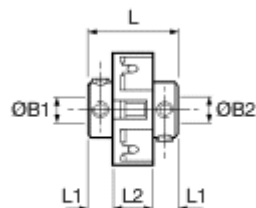
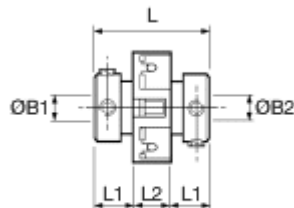
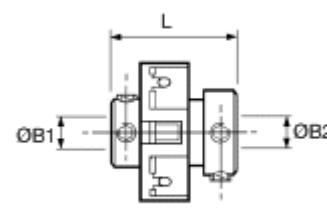
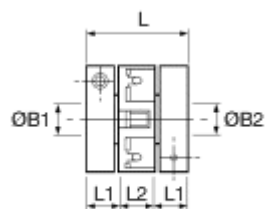
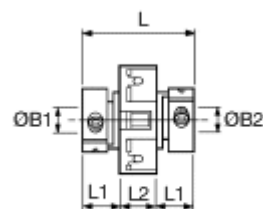
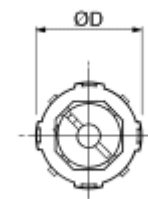


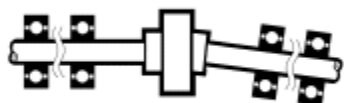
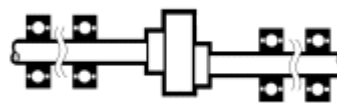
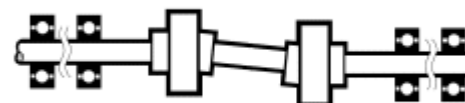
UNI-LAT UNIVERSAL/LATERAL OFFSET COUPLERS

Set screw hubs

 Ref. 201
Small bores

 Ref. 203
Large bores

 Ref. 221 (not listed in main table).
Combines large & small bores.
See explanatory note on facing page

Coupler ref. 221	
Size	L
18	16.7
27	22.3
34	28.0
41	33.3

Clamp hubs

 Ref. 207
Collet hub & ring clamp

 Ref. 205, 206
Integral leaf clamp


Typical

Installation

 right
Up to 10° angular offset,
depending on type

 right
Up to 1mm radial offset for
extreme misalignments

 wrong
Standard Uni-Lats cannot be used in
pairs. Special versions are available for
use in this mode. Please enquire.

Service factors

(Uni-Lat & Oldham couplers)

Peak torque values apply to drives where there is no misalignment, and in the case of Oldham couplers, no misalignment or axial motion. Apply the service factors to the application torque as appropriate, eg.,

Application torque = 1 Nm

Service factor = 2

\ Adjusted torque = 2 Nm

Select a coupler where Peak Torque exceeds 2 Nm.
Note that factors apply to aggregate time on-load, not necessarily the hours the machine is switched on.

HOW TO ORDER

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

201.18.1819

Coupler ref.

ØB1 ref.

ØB2 ref.

MAIN TABLE - DIMENSIONS & ORDER CODES

COUPLER SIZE	SET SCREW HUBS	CLAMP HUBS	OD	L	L1	L2	OB1, OB2 MAX	FASTENERS SCREW	TORQUE Nm	WRENCH mm	MOMENT OF INERTIA kgm ² X 10 ⁻⁸	kg x 10 ⁻³
COUPLER REF												
18.0	201.18			14.2	4.6		5.0					
	203.18		18.0					M3	0.9	1.5	20.0	7.0
		207.18 ‡ 219	19.1	19.1	7.0	5.1	6.4	4-40	2.3	2.0	55.0	11.0
27.0	201.27			19.1	6.1		8.0	M3	0.9	1.5	91.0	16.0
	203.27		28.0	25.4	9.3	6.9	10.0	M3	2.4	2.5	220.0	26.0
		207.27 ‡ 218										
34.0	201.34			25.2	8.1		10.0	M4	2.3		165.0	17.0
	203.34		33.7	30.7	10.9	8.9	12.7			2.0		
		206.34					10.0	4-40	2.3		183.0	20.0
41.0	201.41			28.4	8.6		12.7	M4	2.3	2.0	476.0	30.0
	203.41		41.4	38.1	13.5	11.2	16.0	M5	4.6	2.5		
		205.41					12.7	M4	5.7	3.0	550.0	40.0

Materials & Finishes

Hub sizes 18 & 27:

Brass BS 2874 CZ121

Chromate & passivate finish

Hub sizes 34 & 41:

Al. Alloy 2011T8

Alocrom finish

Fasteners:

Alloy steel, black oiled

Clamp rings (sizes 18 & 27):

Al. Alloy 2011T8

Alocrom finish

Torque rings, all sizes:

Acetal (black)

Temperature Range

-20°C to +60°C

PERFORMANCE

Coupler Size	Peak torque Nm	Max compensation		Torsional		Axial		Static break torque Nm
		Angular ± deg	Radial ± mm	Rate deg / Nm	Stiffness Nm / rad	Max loading ±N	Stiffness N / mm	
18	0.3	2	0.2	2.3	25	19	155	0.9
27	1.7		0.2	0.6	92	31	350	5.0
34	2.5		0.25	0.4	146	34	300	7.5
41	3.5		0.25	0.19	299	39	250	10.5

1. Length of supported thro' bore. Shafts must not penetrate beyond L1 when in operation.
 2. Nominal distance between shafts inserted to L1.
 3. Maximum recommended tightening torque.
 4. Values apply 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 1mm radial and 10° angular compensation (5° for ref. 207) when required. Observe given values for maximum backlash-free life. Electrical isolation between shafts > 3kV for all models when offset £5°.
 7. Values apply at 50% peak torque with no misalignment, measured shaft-to-shaft with largest standard bores.
 8. Momentary values.
 9. Couplers can be specified with keyways or 'D' bores. See page 4 for details.
- ‡ **Ref. 207 only.** Insert both bore codes in place of ‡.

SERVICE FACTORS

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

STANDARD BORES

Coupler		OB1, Ob2 +0.03/-0mm															
size	ref.	3	3.175	4	4.763	5	6	6.350	7.938	8	9.525	10	12	12.700	17	15.875	16
18	203.18	●	●	●	●	●											
	203.18						●	●									
	203.18	●	●	●	●	●	●	●									
	201.27	●	●	●	●	●	●	●	●								
27	201.27										●	●					
	201.27					●	●	●		●	●	●					
	201.34						●	●		●	●	●					
	201.34								●	●	●	●		●	●		
24	201.34						●	●		●	●	●					
	201.34						●	●		●	●	●					
	201.41						●	●		●	●	●	●	●			
	201.41														●	●	●
41	201.41						●	●		●	●	●	●	●			
	201.41									●	●	●	●	●			
Bore ref.		14	16	18	19	20	22	24	27	28	31	32	35	36	38	41	42
Corresponding bore adaptor						251		253		*254 255		257		259			260

Coupler ref. 221

By specifying ref. 221 (not listed in tables, see diagram facing page) you can combine the bores coded for ref. 201 with those coded for ref. 203,

eg., 221.27.2432 specifies Size 27 with Ø6.35 x 10 bores.

Diameters for which a bore adaptor is shown can be adapted to smaller shaft sizes. See page 40 for details.

*Note that adaptor 254 is dedicated to coupler ref. 201.27. Use adaptor 255 for all other 8mm diameters.



Back