

Installation of Reli-a-Flex™ Couplings

Floating Shafts

We do not recommend the use of Reli-a-Flex™ for floating shafts (fig. 1) where one or both ends of a shaft are supported by a coupling.

Checking for Excessive Misalignment Pre-assembly

1. Place a steel rule on one of the shafts. Use feeler gauges to determine the misalignment between the rule and the second shaft. See table overleaf for maximum figures.
2. Rotate position of first check by 90° and repeat to determine misalignment.

Reli-a-Flex™ couplings are available with either set screw or clamp fastening.

Clamp fastening, both Reli-a-Grip™ and traditional, allows repeated repositioning of the coupling on the shaft leaving the shaft unmarked. The effectiveness of the clamp is dependent on the diameter being a close fit in the coupling bore.

Set screws provide an effective but non-adjustable means of connecting couplings and shafts. Ideally the shaft should have a small flat in the area of the screw, which allows the set screw to seat below the surface of the shaft.

1. Shafts and coupling bores should be clean and free of all foreign bodies. Fasten coupling to one of the shafts (fig. 2 & 3) ensuring that set screw locates on the flat.
2. Place the second shaft into the bore of the coupling, rotate coupling in relation to the unclamped shaft to allow the coupling to locate a normal position. **DO NOT** press or bend the coupling prior to assembly.
3. Fasten coupling onto second shaft (fig. 4) again ensure set screw locates on flat.
4. Check that coupling misalignment is not excessive, (fig.5 overleaf).

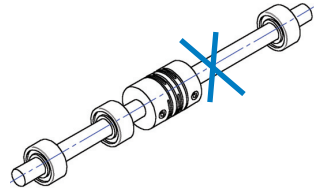


Fig. 1

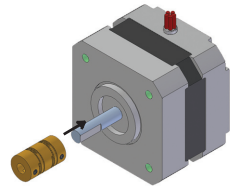


Fig. 2

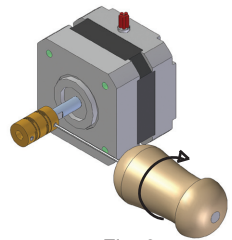


Fig. 3

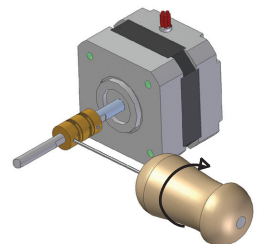


Fig. 4

Checking for Excessive Misalignment After Assembly

1. Place a steel rule on one of the hubs of the Reli-a-Flex™ coupling. Use feeler gauges to determine the misalignment between the rule and the other hub. Fig. 5 shows a visual check on how the coupling should look after assembly.
2. Rotate position of first check by 90° and repeat to determine misalignment.

Lubrication

Lubrication is not required on any of the Reli-a-Flex™ range of couplings.

The set screw tightening torque values below are to be used as a guide only.

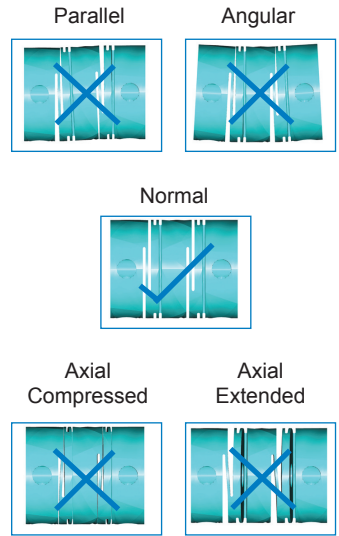


Fig. 5

Coupling Size	Fitted Screw Supplied	Tightening Torque (Nm)	Allen Key Size	Maximum Misalignments		
				Parallel mm	Angular Deg	Axial mm
6	M1.2*	0.04	----	0.020	1.7	±0.06
8	M1.6	0.07	0.7	0.100	2.0	±0.10
10	M2	0.14	0.9	0.120	2.0	±0.17
13	M2.5	0.30	1.27	0.150	2.5	±0.30
16	M3	0.60	1.5	0.200	2.5	±0.40
20	M4	1.35	2	0.250	3.0	±0.50
25	M5	3.38	2.5	0.400	3.0	±0.70
30	M6	4.40	3	0.600	3.5	±0.85
40	M8	8.00	4	0.950	3.5	±1.25

* Coupling fitted with slotted head set screws

Maximum shaft intrusion when fitted = hub length+2mm



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Reli-a-Flex™ is a trade mark of Reliance Gear Company Limited.

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