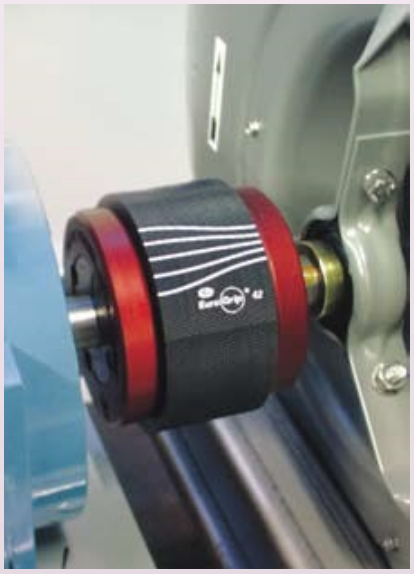
EUROGRIP®

Flexible couplings

EuroGrip® flexible couplings are designed to connect two shafts subject to misalignement and axial movement and relieve the stress that would result from a rigid coupling. They consist of a rubber sleeve and two metal end pieces. Their design is unique, with their OGEE lines allowing the coupling to act as a torque/life indicator for the drive. Gates EuroGrip® flexible couplings are available in sizes 19, 28, 42, 48 and 60 and are bored to suit a taper bush or a plain bore and keyway. They have high vibration damping capacity, which makes them especially suitable for direct drive applications in e.g. pumps and compressors. Their high compliance is especially appreciated by designers of speed control systems, where resonance can be a problem. The zero backlash characteristics result in high positioning accuracy and repeatability, allowing a wide range of applications in the linear actuator market.



Construction

- Unique OGEE lines on the sleeve are an indicator of torque and product life.
- Sleeves are made of a high-performance elastomeric compound. The sleeve design allows the coupling to act as a predictable fuse in the system.
- End pieces are made of a high-grade aluminium to reduce weight and inertia. The aluminium end pieces are anodised to increase wear resistance and strength. Available either with finished bore and keyway or to suit a taper bush.
- Temperature ranges from -25°C to +100°C.

Advantages

- High vibration damping. Damping increases with load, which will prevent resonance.
- Quiet in operation.
- Zero backlash and, consequently, high positioning accuracy.
- Easy to install and to replace. Can be inspected without stopping the drive.
- Built-in safety measure: the driven machine will stop when the coupling fails.
- High tolerance of combinations of radial and angular misalignment.
- Durable.
- Low inertia.
- Compact design.
- Light weight.

NOTE
For correct usage of the EuroGrip® flexible couplings, please request Gates' EuroGrip® manual (E2/20103).