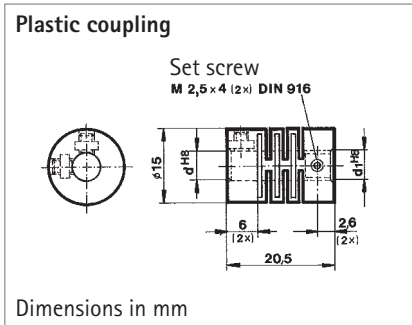


Accessories, Flexible Couplings

Shaft encoders must be protected against excessive mechanical stresses, which occur whenever there are angular, axial, or radial misalignments between the machine and shaft encoder shafts.

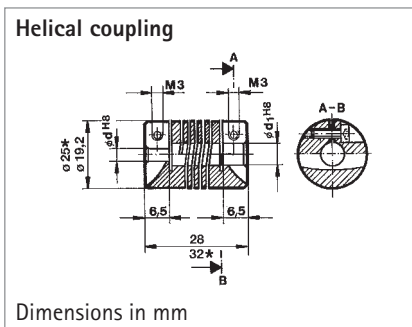
Our flexible couplings can compensate for this within limits.



| | |
|--|--------------------------------------|
| Absolute max. speed | 10,000 RPM |
| Torque max. | 20 Ncm |
| Moment of inertia | 1.1 gcm ² |
| Torsional spring constant | 25 Ncm/degree |
| Max. angular misalignment | ± 2.5° |
| Max. shaft misalignment radial / axial | ± 0.3 mm / ± 0.2 mm |
| Max. tightening torque of set screws | 30 Ncm |
| Material | polyamide 6.6 glass-fibre reinforced |
| Weight | 3.5 g approx. |

Hub diameter

| | | |
|--------|--------------------------------|---------------------------------|
| 5/5 mm | Ordering code 3 520 034 | Suitable for encoder type RI 39 |
| 5/6 mm | Ordering code 3 520 033 | RI 32, RI 41, RI 42 |
| 6/6 mm | Ordering code 1 761 026 | |



| | |
|--------------------------------------|----------------------|
| Absolute max. speed | 6,000 RPM |
| Torque max. | 80 Ncm |
| Moment of inertia | 8.7 gcm ² |
| Torsional spring constant | 14 Ncm/degree |
| Max. angular misalignment | ± 4° |
| Max. shaft misalignment radial/axial | ± 0.25 mm / ± 0.4 mm |
| Max. tightening torque of set screws | 80 Ncm |
| Material | AlCuMgPb, chromed |
| Weight | 16 g |

* applies for with * marked hub diameters

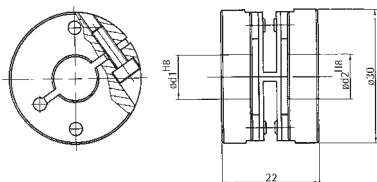
Hub diameter

| | | |
|----------------------------|--------------------------------|---|
| 5/5 mm | Ordering code 3 520 036 | Suitable for encoder type RI 30, RI 32, |
| 5/6 mm | Ordering code 3 520 035 | RI 36, RI 41, RI 42, RI 58, RA 58 |
| 6/6 mm | Ordering code 0 070 653 | |
| 6/6.35 mm | Ordering code 3 520 051 | |
| ¹⁾ 6/9.53 mm | Ordering code 3 520 052 | |
| ¹⁾ 6/10 mm | Ordering code 3 520 066 | |
| 6.35/6.35 mm | Ordering code 3 520 057 | |
| ¹⁾ 6.35/9.52 mm | Ordering code 3 520 062 | |
| ¹⁾ 10/12 mm | Ordering code 3 520 065 | |
| ¹⁾ 10/10 mm | Ordering code 3 520 074 | |

¹⁾ The dimensions marked with ¹⁾ apply for the dimensional drawings

Flexible Couplings

Spring washer coupling



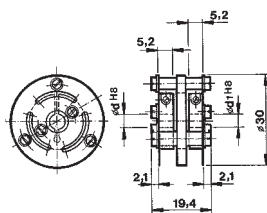
Dimensions in mm

| | |
|---------------------------|--------------------------------|
| Absolute max. speed | 12,000 RPM |
| Torque max. | 60 Ncm |
| Max. shaft misalignment | |
| Radial | ± 0.3 mm |
| Axial | ± 0.4 mm |
| Angular | ± 2.5° |
| Torsional spring constant | 50 Nm/rad |
| Material | |
| Flanges | aluminium, surface-protected |
| Spring disc | plastic, glassfibre-reinforced |

Hub diameter

| | |
|--------------|--------------------------------|
| 5/6 mm | Ordering code 3 520 080 |
| 6/6 mm | Ordering code 3 520 081 |
| 6/10 mm | Ordering code 3 520 082 |
| 6/6.35 mm | Ordering code 3 520 083 |
| 6/9.53 mm | Ordering code 3 520 084 |
| 6.35/6.35 mm | Ordering code 3 520 085 |
| 7/7 mm | Ordering code 3 520 086 |
| 10/6.35 mm | Ordering code 3 520 087 |
| 10/10 mm | Ordering code 3 520 088 |

Flange-face coupling

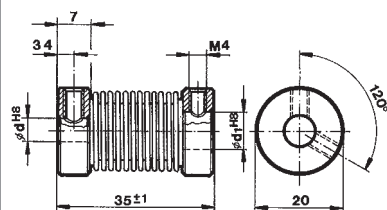


Dimensions in mm

| | |
|--------------------------------------|------------------------------|
| Absolute max. speed | 12,000 RPM |
| Torque max. | 80 Ncm |
| Moment of inertia | 19 gcm ² |
| Torsional spring constant | 130 Ncm/degree |
| Max. angular misalignment | ± 3.0° |
| Max. shaft misalignment | |
| radial | ± 0.3 mm |
| axial | ± 0.4 mm |
| Max. tightening torque of set screws | 80 Ncm |
| Hub diameter d and d1 | 6 mm H 8 |
| Material | |
| coupling body, flange | AlCuMgPb, anodized aluminium |
| preloaded disc | CuSn6, stainless steel |
| Weight | 14.5 g approx. |

Ordering code 0 070 663 Suitable for encoder type RI 36, RI 58, RA 58

Bellows coupling



Dimensions in mm

| | |
|--------------------------------------|--------------------------|
| Absolute max. speed | 8,000 RPM |
| Torque max. | 80 Ncm |
| Moment of inertia | 22 gcm ² |
| Torsional spring constant | 230 Ncm/degree |
| Max. angular misalignment | ± 4.0° |
| Max. shaft misalignment | |
| radial | ± 0.3 mm |
| axial | ± 0.5 mm |
| Max. tightening torque of set screws | 150 Ncm |
| Material | |
| flange | CuZn39Pb3, nickel-plated |
| bellows | CuZn20, nickel-plated |
| Weight | 34 g |

Hub diameter

| | | |
|--------------|--------------------------------|--|
| 12/12 mm | Ordering code 0 070 666 | Suitable for encoder type RI 58, RA 58 |
| 10/10 mm | Ordering code 3 520 037 | |
| 9.53/9.53 mm | Ordering code 3 520 038 | |
| 6/6 mm | Ordering code 3 520 068 | |