

Flexible Couplings

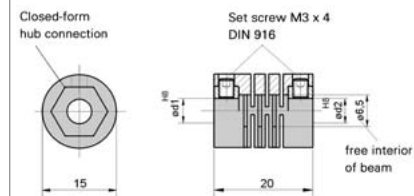
Shaft encoders must be protected against excessive mechanical stresses, which occur whenever there are angular, axial, or radial misalignments between the machine and shaft encoder shafts.

Our flexible couplings can compensate for this within limits.

PLASTIC COUPLING

Max. speed	10000 min ⁻¹
Torque max.	20 Ncm
Moment of inertia	1.1 gcm ²
Torsional spring constant	12 Nm/rad
Max. angular misalignment	±2.5°
Max. shaft misalignment radial / axial	±0.3 mm / ±0.2 mm
Max tightening torque of set screws	70 Ncm
Material	polyamide 6.6 glass-fibre reinforced
Weight approx.	6 g

Plastic coupling



Dimensions in mm

Hub diameter

5/5 mm

Ordering code 3 520 034

5/6 mm

Ordering code 3 520 033

6/6 mm

Ordering code 1 761 026

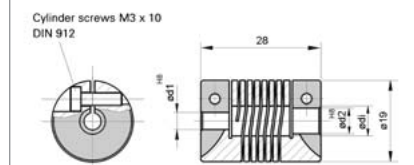
Suitable for encoder type RI39

RI32, RI41, RI42 for simple applications

HELICAL COUPLING

Max. speed	6000 min ⁻¹
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

Helical coupling 19/28



Dimensions in mm

Hub diameter

5/5 mm

Ordering code 3 520 036

5/6 mm

Ordering code 3 520 035

6/6 mm

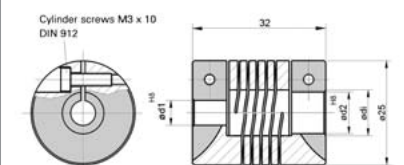
Ordering code 0 070 653

6.35/6.35 mm

Ordering code 3 520 057

Suitable for encoder type RI 30, RI 32,
RI 36, RI 41, RI 42, RI 58, AC 58

Helical coupling 25/32



Dimensions in mm

Hub diameter

6/9.53 mm

Ordering code 3 520 052

6/10 mm

Ordering code 3 520 066

6.35/9.52 mm

Ordering code 3 520 062

10/12 mm

Ordering code 3 520 065

10/10 mm

Ordering code 3 520 074

Suitable for encoder type RI 58, AC 58

Flexible Couplings

ISOLATED DISK COUPLING

Max. speed	12000 min ⁻¹
Torque max.	60 Ncm
Max. shaft misalignment radial	±0.3 mm
axial	±0.4 mm
angular	±2.5°
Torsional spring constant	30 Nm/rad
Material	Flanges aluminium, anodized
Spring disc	plastic, glass-fibre reinforced

Hub diameter

5/6 mm

Ordering code 3 520 080

Suitable for encoder type RI 30,
RI 32, RI 36, RI 41, RI 42, RI 58, AC 58

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

10/10 mm

Ordering code 3 520 088

DISK COUPLING

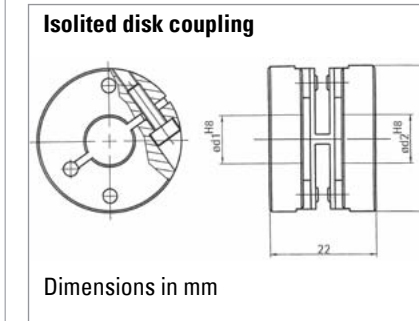
Max. speed	12000 min ⁻¹
Torque max.	80 Ncm
Moment of inertia	19 gcm ²
Torsional spring constant	150 Nm/rad
Max. angular misalignment	±3.0°
Max. shaft misalignment radial	±0.4 mm
axial	±0.4 mm
Max tightening torque of set screws	80 Ncm

Material	coupling body, flange	AlCuMgPb, anodized
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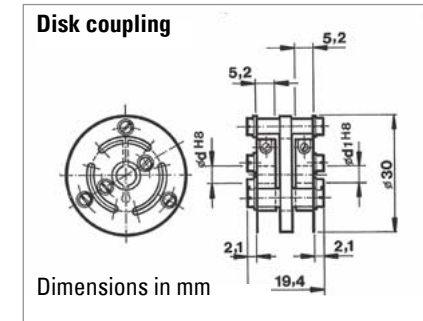
Weight approx.	14.5 g
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Ordering code 0 070 663 suitable for encoder type RI 36, RI 58, AC 58

DIMENSIONAL DRAWINGS



Dimensions in mm



Dimensions in mm

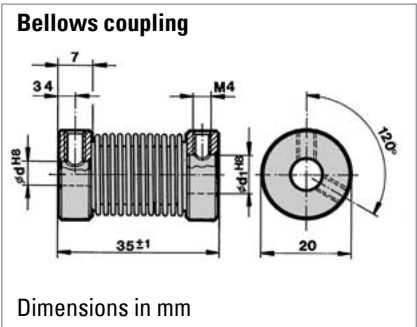
Flexible Couplings



BELLOWS COUPLING

Max. speed	8000 min ⁻¹
Torque max.	80 Ncm
Moment of inertia	9 gcm ²
Torsional spring constant	140 Nm/rad
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	aluminium
bellows	stainless steel
Weight	16 g

Hub diameter		
12/12 mm	Ordering code 0 070 666	Suitable for type RI 58, AC 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	



CLAMPING ECCENTRIC

SQUARE FLANGE ADAPTER
80 x 80 mm for clamping flange
RI 58, AC 58
(fastening material included)
Ordering code 1 522 327

SQUARE FLANGE ADAPTER
58 x 58 mm for clamping flange
RI 58, AC 58
(fastening material included)
Ordering code 1 522 326

Mounting

Material CuZn39Pb3, surface nickel-plated
Set of three
Suitable for encoders with synchro flange type RI 30, RI 36, RI 58, AC 58

	ød ₁	ød ₂	ød ₃	a	b	c
Ordering code 0 070 655 (RI 58, AC 58 Synchro flange for M3)	8.9 _{+0.1}	6.5	3.2	4.9 _{-0.1}	2.9 _{-0.1}	1.2
Ordering code 0 070 657 (RI 58, AC 58 Synchro flange for M3)	12	9	3.5	4.9 _{-0.1}	2.9 _{-0.1}	1.5
Ordering code 0 070 654 (RI 30, RI 36 Synchro flange for M2.5)	6.8 _{+0.2}	5	2.8	4.4 _{-0.1}	2.4 _{-0.1}	0.9

