

Data sheet FLENDER couplings

N-EUPEX FLE10.2 B 80

Version according to the catalog FLE10.2

2LC01702AA990AA0 L0Q+M0U

Product

Series	N-EUPEX FLE10.2
Type	B
Size	80
Scope of supply	complete coupling
Torsional stiffness	Torsionally flexible
Shaft distance S	3 mm

Basic data¹⁾

Rated coupling torque	T_{KN}	85 Nm
Maximum coupling torque	T_{Kmax}	300 Nm
Maximum coupling speed	n_{Kmax}	7,200 rpm
Operating temperature (min.)	T_{min}	-30 °C
Operating temperature (max.)	T_{max}	80 °C
Axial misalignment (max.) ²⁾	K_a	± 1 mm
Radial misalignment ³⁾	K_r	0.2 mm
Angular misalignment (max.) ³⁾	K_w	0.12 °
Torsional stiffness, dynamic ⁴⁾	C_{Tdyn}	3.21 kNm/rad
Proportionate damping	Ψ	1.4
Total weight	m	1.44 kg

Connection 1 part 1⁷⁾

Hub length	30 mm
hub diameter	80 mm
Bore diameter	25 mm
Bore tolerance	ISO H7
Shaft-hub connection	keyway acc. to DIN 6885-1 (JS9)
Number of keyways, offset	one keyway
Axial locking	with setscrew
Balancing principle	balancing acc. to half feather key agreement

Product-specific options

Elastomer	packs NBR 80 Shore A
Axial misalignment (max.)	1 mm

Balance state

Method	DIN ISO 21940-11 component balance
Speed	1,500 rpm
Balancing quality	G 16



Connection 2 part 4⁷⁾

Hub length	30 mm
hub diameter	68 mm
Bore diameter	35 mm
Bore tolerance	ISO H7
Shaft-hub connection	keyway acc. to DIN 6885-1 (JS9)
Number of keyways, offset	one keyway
Axial locking	with setscrew
Balancing principle	balancing acc. to half feather key agreement

Corrosion protection

Preservation	CUSTOS 70-51-3 - indoor storage up to 3 months
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Note

- 1) The formula symbols are defined in Catalog.
- 2) The permissible axial offset is applicable for offsets that slowly occur, e.g. as a result of thermal expansion of the coupled shaft.
- 3) Permissible shaft offset at rated speed 1500 rpm.
- 4) Torsional stiffness at $0.5 \cdot T_{KN}$, excitation amplitude of $0.1 \cdot T_{KN}$ with 10 Hz, ambient temperature 20°C .
- 7) The orderer is responsible for verifying the design strength of the shaft-hub connection.