

Data sheet FLENDER couplings

N-EUPEX FLE10.2 B 280

Version according to the catalog FLE 10.2

2LC01713AA110AA0

Product

Series	N-EUPEX FLE10.2
Type	B
Size	280
Scope of supply	complete coupling
Torsional stiffness	Torsionally flexible Overload withstand capability
Shaft distance S	0.217 in.

Basic data¹⁾

Rated coupling torque	T_{KN}	48,679 lbf-in
Maximum coupling torque	T_{Kmax}	163,739 lbf-in
Maximum coupling speed	n_{Kmax}	3,000 rpm
Operating temperature (min.)	T_{min}	-22 °F
Operating temperature (max.)	T_{max}	176 °F
Axial misalignment (max.) ²⁾	K_a	± 0.098 in.
Radial misalignment ³⁾	K_r	0.016 in.
Angular misalignment (max.) ³⁾	K_W	0.08 °
Torsional stiffness, dynamic ⁴⁾	C_{Tdyn}	2,770,285 lbf-in/rad
Proportionate damping	Ψ	1.4
Total weight	m	110.2 lb

Connection 1 part 1⁷⁾

Hub length	4.331 in.
hub diameter	7.087 in.
Bore (max)	4.331 in.
Pilot hole	1.85 in.

Product-specific options

Elastomer	flexibles NBR 80 Shore A
Axial misalignment (max.)	2.5 in.

Balance state

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



Connection 2 part 4⁷⁾

Hub length	4.331 in.
hub diameter	7.087 in.
Bore (max)	4.331 in.
Pilot hole	2.047 in.

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 68°F.
- 7) The orderer is responsible for verifying the design strength of the shaft-hub connection.