

# Data sheet FLENDER couplings

## N-EUPEX FLE10.2 A 180

Version according to the catalog FLE 10.2

2LC01708AB110AA0

### Product

Series	N-EUPEX FLE10.2
Type	A
Size	180
Scope of supply	complete coupling
Torsional stiffness	Torsionally flexible Overload withstand capability
Shaft distance S	0.157 in.

### Basic data<sup>1)</sup>

Rated coupling torque	$T_{KN}$	11,063 lbf-in
Maximum coupling torque	$T_{Kmax}$	38,722 lbf-in
Maximum coupling speed	$n_{Kmax}$	4,500 rpm
Operating temperature (min.)	$T_{min}$	-22 °F
Operating temperature (max.)	$T_{max}$	176 °F
Axial misalignment (max.) <sup>2)</sup>	$K_a$	± 0.079 in.
Radial misalignment <sup>3)</sup>	$K_r$	0.012 in.
Angular misalignment (max.) <sup>3)</sup>	$K_W$	0.1 °
Torsional stiffness, dynamic <sup>4)</sup>	$C_{Tdyn}$	562,908 lbf-in/rad
Proportionate damping	$\Psi$	1.4
Total weight	m	35.5 lb

### Connection 1 part 1<sup>7)</sup>

Hub length	2.756 in.
hub diameter	4.921 in.
Bore (max)	3.15 in.

### Product-specific options

Elastomer	flexibles NBR 80 Shore A
Axial misalignment (max.)	2 in.

### Balance state

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



### Connection 2 part 2<sup>7)</sup>

Hub length	2.756 in.
hub diameter	4.173 in.

### Corrosion protection

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

## 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.