

Data sheet FLENDER couplings

N-EUPEX FLE10.2 H 180

Version according to the catalog FLE 10.2

2LC01708AG110AD0

Product

| | |
|---------------------|---|
| Series | N-EUPEX FLE10.2 |
| Type | H |
| Size | 180 |
| Scope of supply | complete coupling |
| Torsional stiffness | Torsionally flexible Overload withstand capability |
| Shaft distance S | 7.874 in. |

Basic data¹⁾

| | | |
|--|------------|--------------------|
| 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.) ²⁾ | K_a | ± 0.039 in. |
| Radial misalignment ³⁾ | K_r | 0.012 in. |
| Angular misalignment (max.) ³⁾ | K_W | 0.1 ° |
| Torsional stiffness, dynamic ⁴⁾ | C_{Tdyn} | 562,908 lbf-in/rad |
| Proportionate damping | Ψ | 1.4 |
| Total weight | m | 54.2 lb |

Connection 1 part 1⁷⁾

| | |
|--------------|-----------|
| 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.) | 1 in. |

Balance state

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



Connection 2 part 5⁷⁾

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

Technical data of the spacer

| | | |
|--------|----|-----------|
| Length | LZ | 7.146 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 $0.5 \cdot TKN$, excitation amplitude of $0.1 \cdot TKN$ with 10 Hz, ambient temperature 68°F.
- 7) The orderer is responsible for verifying the design strength of the shaft-hub connection.