

# Data sheet FLENDER couplings

## N-EUPEX FLE10.2 A 110

Version according to the catalog FLE 10.2

2LC01704AB110AA0

### Product

|                     |   |
|---------------------|---|
| Series              | N-EUPEX FLE10.2                                       |
| Type                | A   |
| Size                | 110   |
| Scope of supply     | complete coupling                                     |
| Torsional stiffness | Torsionally flexible<br>Overload withstand capability |
| Shaft distance S    | 0.118 in.   |

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

|  |            |                   |
|--|------------|-------------------|
| Rated coupling torque                      | $T_{KN}$   | 1,991 lbf-in      |
| Maximum coupling torque                    | $T_{Kmax}$ | 7,187 lbf-in      |
| Maximum coupling speed                     | $n_{Kmax}$ | 6,300 rpm         |
| Operating temperature (min.)               | $T_{min}$  | -22 °F            |
| Operating temperature (max.)               | $T_{max}$  | 176 °F            |
| Axial misalignment (max.) <sup>2)</sup>    | $K_a$      | ± 0.039 in.       |
| Radial misalignment <sup>3)</sup>          | $K_r$      | 0.008 in.         |
| Angular misalignment (max.) <sup>3)</sup>  | $K_W$      | 0.1 °             |
| Torsional stiffness, dynamic <sup>4)</sup> | $C_{Tdyn}$ | 72,134 lbf-in/rad |
| Proportionate damping                      | $\Psi$     | 1.4               |
| Total weight                               | m          | 8.4 lb            |

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

|              |           |
|--------------|-----------|
| Hub length   | 1.575 in. |
| hub diameter | 3.386 in. |
| Bore (max)   | 2.165 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 2<sup>7)</sup>

|              |           |
|--------------|-----------|
| Hub length   | 1.575 in. |
| hub diameter | 2.382 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.