

Data sheet FLENDER couplings N-ARPEX ARN-6 NEN 268.0

Version according to the catalog FLE 10.1
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MLFB-Ordering data: **2LC0371-1AA99-0AD0-Z** {M9Y:122.0000}{Y95:G=6.3|n=1500rpm}
A00+D99+L1U+M10+M41+M48+M9Y+W02+Y95

Client order no.:

Item no.:

Order no.:

Consignment no.:

Offer no.:

Project:

Remarks:

Product selection		Weight	Moment of inertia	
		m [kg]	J [kgm ²]	
Series	N-ARPEX ARN-6	N-hub	14.2	0.11372
Type	NEN	disc pack incl. boltings	4.8	0.05623
Size	268.0	E-spacer	14.8	0.15181
Scope of supply	complete coupling	disc pack incl. boltings	4.8	0.05623
Torsional stiffness	Torsionally rigid	N-hub	15.9	0.12014
Torque transmission	Overload withstand capability			
Distance S	200.0 mm			
Length LZ	156.0 mm	Sum	54.5	0.49814

Basic data ¹⁾				
Rated coupling torque	T_{KN}	13,800 Nm	Radial stiffness	C_r 820 N/mm
Maximum coupling torque	T_{Kmax}	27,600 Nm	Angular stiffness	C_w 13 kNm/rad
Coupling overload torque	T_{KOL}	34,500 Nm	Torsional stiffness, dynamic	C_{Tdyn} 2.44 MNm/rad
Alternating coupling torque	T_{KW}	6,900 Nm	Axial restoring force (pressure)	F_a 3,329 N
Maximum coupling speed	n_{Kmax}	7,500 min ⁻¹	Axial restoring force (tension)	F_a 3,329 N
Permissible ambient temperature	T_a	-50°C ...280°C	Radial restoring force	F_r 2,548 N
Axial stiffness (pressure)	C_a	792.7 N/mm	Torsion angle for TKN	φ 0.32 °
Axial stiffness (tension)	C_a	792.7 N/mm	Torsion angle for TN	φ 0.32 °
			Torsional stiffness for 1/3 shaft penetration	$C_{1/3}$ 2.09 MNm/rad

Permissible shaft offsets ^{2) 3)}													
Angular misalignment	K_w	± [°]	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
Axial misalignment (pressure)	K_a	- [mm]	4.2	3.8	3.4	2.9	2.5	2.1	1.7	1.3	0.8	0.4	0
Axial misalignment (tension)	K_a	+ [mm]	4.2	3.8	3.4	2.9	2.5	2.1	1.7	1.3	0.8	0.4	0

Radial misalignment $K_r \pm [mm] = 178 * \tan(K_w)$

Technical data for a plate pack

Torsional stiffness, dynamic	C_{Tdyn}	5.63 MNm/rad
Angular stiffness	C_w	13 kNm/rad
Axial stiffness (pressure)	C_a	1,585.4 N/mm
Axial stiffness (tension)	C_a	1,585.4 N/mm
Radial stiffness	C_r	352,473.9 N/mm

Technical data of the spacer

Torsional stiffness, spacer	C_{Tdyn}	18.36 MNm/rad
Torsional tension for TKN	τ	41.7 N/mm ²
Torsional tension for TN	τ	41.7 N/mm ²

Connection 1 N-hub ⁴⁾

Hub design	finish bored
Bore diameter	130 mm
Bore tolerance	ISO H7
Shaft-hub connection	keyway acc. to DIN 6885-1 (P9)
Number of keyways, offset	one keyway
Axial locking	with setscrew
Balancing principle	balancing acc. to half feather key agreement
centre of gravity half coupling	109.6 mm
weight half coupling	26.5 kg

Connection 2 N-hub ⁴⁾

Hub design	finish bored
Bore diameter	122 mm
Bore tolerance	ISO H7
Shaft-hub connection	keyway acc. to DIN 6885-1 (P9)
Number of keyways, offset	one keyway
Axial locking	with setscrew
Balancing principle	balancing acc. to half feather key agreement
centre of gravity half coupling	107.0 mm
weight half coupling	28.1 kg

Product-specific options

Product selection standard plate pack

Specification design according to API 610

Corrosion protection

Preservation cleaning emulsion - indoor storage up to 3 months

Paint coat without paint finish

Balance state

Balancing quality G 6,3 |_{n=1500 min⁻¹}

Method component balance (DIN ISO 21940)

Factory certificates

test report acc. to DIN EN 10204-2.1

additional data								
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Axial misalignment for a plate pack	± [mm]	2.1	1.89	1.68	1.47	1.26	1.05	0.84	0.63
Local axial stiffness for a plate pack	[N/mm]	2,318	2,111	1,926	1,763	1,621	1,501	1,401	1,323
Axial natural frequency	[Hz]	77	74	71	68	65	62	60	58

lateral natural speed	n_{krit}	754,533 min ⁻¹								
Spacer bend	f_m	0 mm	Rated coupling torque	[Nm]	4,140	8,280	13,800	30% T _{KN}	60% T _{KN}	100% T _{KN}
Angular misalignment as a result of spacer bend	α	0°	Torsional stiffness, dynamic for a plate pack	[MNm/rad]	5.6	5.6	5.635			

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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) Torsional stiffness at rated speed T_N = 13800 Nm
- 4) The orderer is responsible for verifying the design strength of the shaft-hub connection.

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

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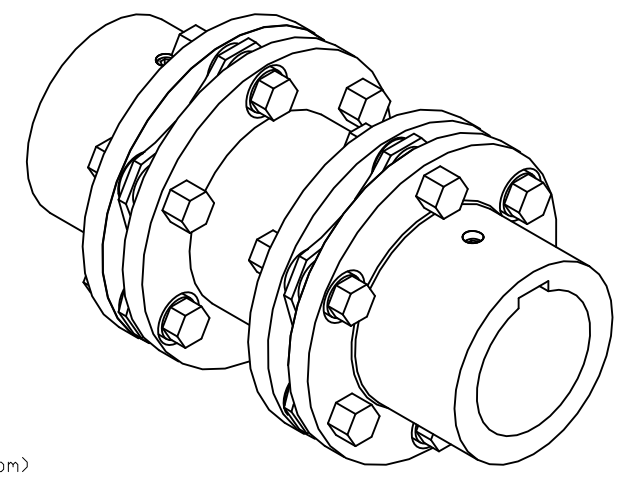
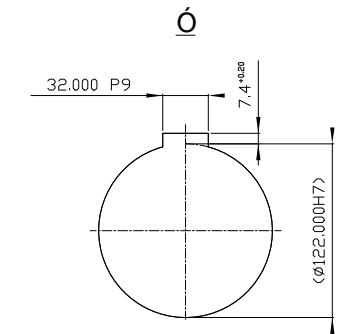
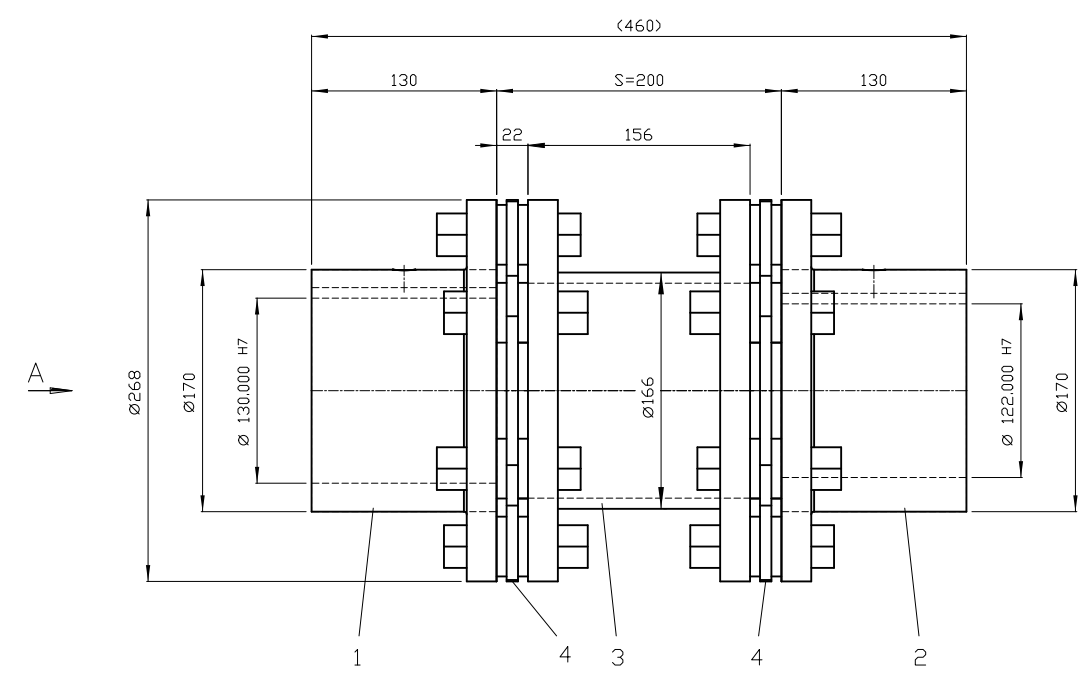
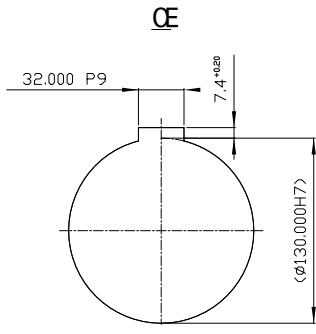
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<Y95:G=6.3In=1500rpm>

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