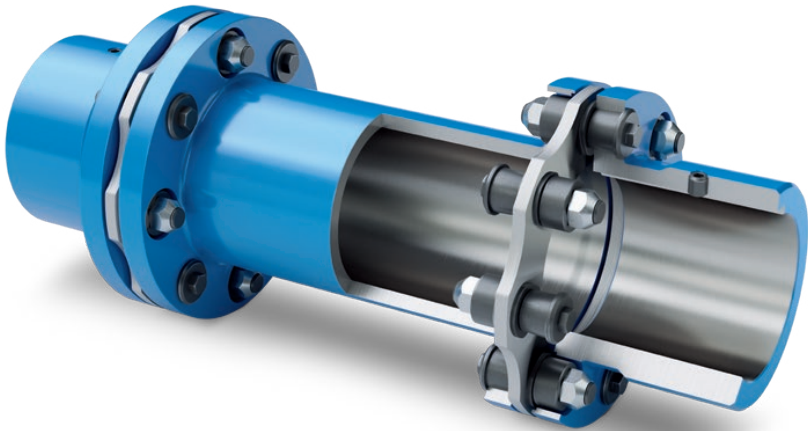


# FLENDER COUPLINGS



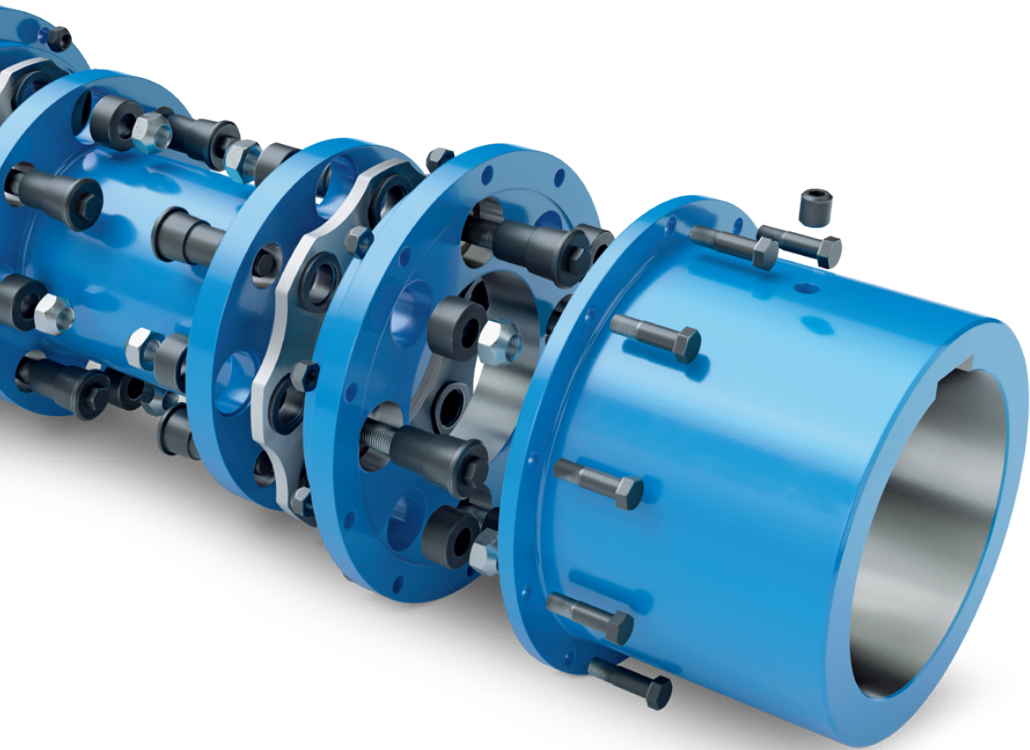
# SURPRICE.

N-ARPEX is setting benchmarks in technology and price and covers a torque range up to 2,000,000 Nm.



# A NEW MARKET STANDARD IN TECHNOLOGY AND PRICE.

N-ARPEX all-steel multi-disk couplings are destined for use primarily in applications with the greatest capacity requirements for couplings as well as high cost pressure. Particularly pump, fan and compressor applications, which are frequently found in the petrochemical industry, require precisely manufactured, light and versatile coupling solutions that enable high rotational speeds and great shaft misalignment capacity. N-ARPEX meets these requirements perfectly. Moreover, due to its design characteristics and optimization in the production process, this coupling has made the leap into a new cost spectrum. With the N-ARPEX, Flender provides the best possible price-performance ratio.



# POWERFUL, FAST, VERSATILE

With the introduction of the N-ARPEX all-steel multi-disk coupling, Flender is not just continuing the success story of the proven ARPEX coupling series.

An optimized disk pack and revised component design now allow the transmission of even greater torques and speeds.

The new design of the disk packs, the enclosed flange geometry, the standard catcher device for the intermediate spacer and the FEM-optimized force distribution inside the coupling are crucial leaps in technology toward greater performance. In addition, the coupling is extremely easy to assemble.

## MAIN APPLICATION AREAS FOR THE ARN-6/-8/-10 SERIES:

- Pumps
- Fans
- Compressors
- Generators and turbine drives
- Axial and radial blowers
- Paper and printing machines
- Mixers, agitators
- Extruders
- Hoisting gear and travel gear
- Marine drives
- Drive units for water screws

## GREATER CAPACITY

1

Optimized disk pack correction, greater torque and speed, greater component size and lower weight

2

Optimized bending length, greater displacement capacity

3

Larger bore, lower weight, lower bearing load

4

Optimized bending edge, special load distribution, greater torque

## MAXIMIZED OPERATIONAL CAPABILITY

5

Maximized application range, optimized weight

6

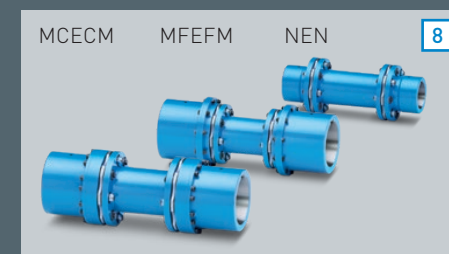
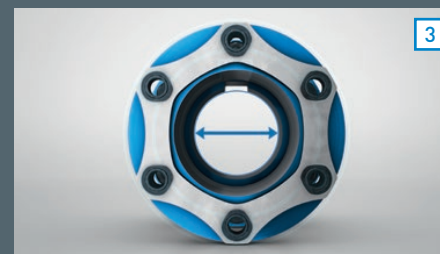
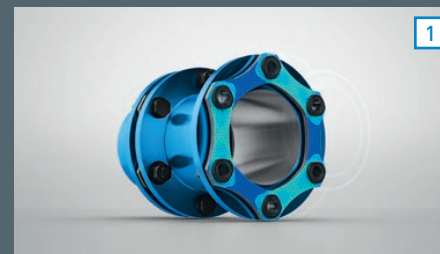
In the standard version: intermediate spacer secured from flying off; conforms with API 610 / 671 and ATEX 2014/34/EU

7

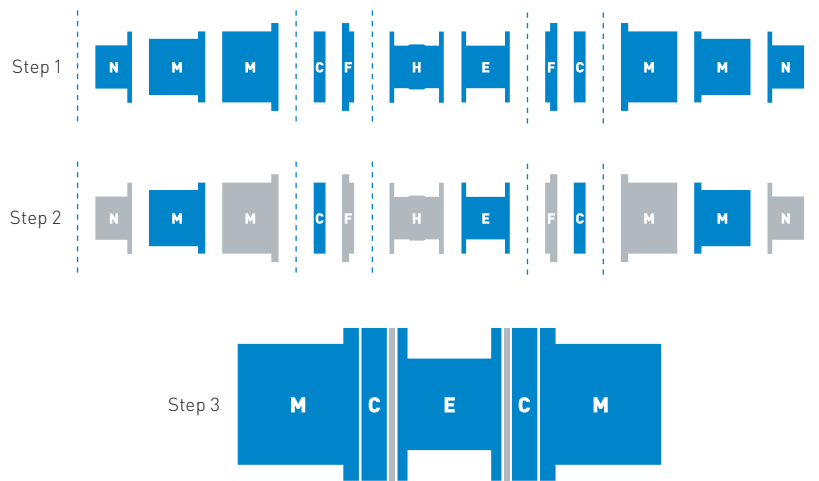
High temperature range from -50 °C to +280 °C

8

Component designs: NEN (3-part) and MCECM/MFEFM (5-part)



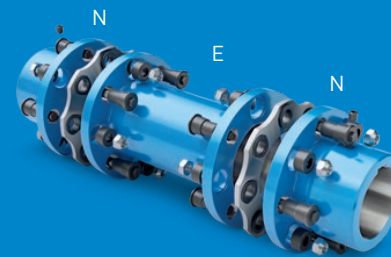
# REDUCE COMPLEXITY



A significant step for cost-effectiveness is reducing complexity. The modularity of the new design system decreases the total of 67 previous couplings in the ARPEX ARP, ARS and ARC series to 37 couplings in the N-ARPEX ARN series.

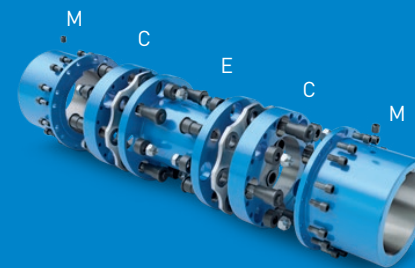
SERIES	SIZES Ø	NOMINAL TORQUE	DESIGNS
ARN-6	86 ... 343	350 Nm ... 28,000 Nm	NEN / NHN MFEFM / MFHFM MCECM / MCHCM KEK / KHK BEB
ARN-8	219 ... 631	10,000 Nm ... 350,000 Nm	NEN / NHN MFEFM / MFHFM MCECM / MCHCM
ARN-10	495 ... 988	200,000 Nm ... 2,000,000 Nm	NEN / NHN MFEFM / MFHFM

## N-ARPEX NEN



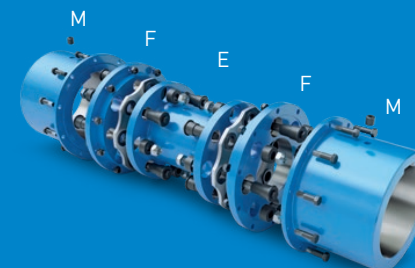
The structure of an N-ARPEX type NEN consists of two hubs, an intermediate spacer and two disk packs, where close-fitting bolts are used for the two-way connection for the ARN-6 series and conical bolts are used for the connection for the ARN-8/-10 series. The hubs have threaded pull-off holes.

## N-ARPEX MCECM



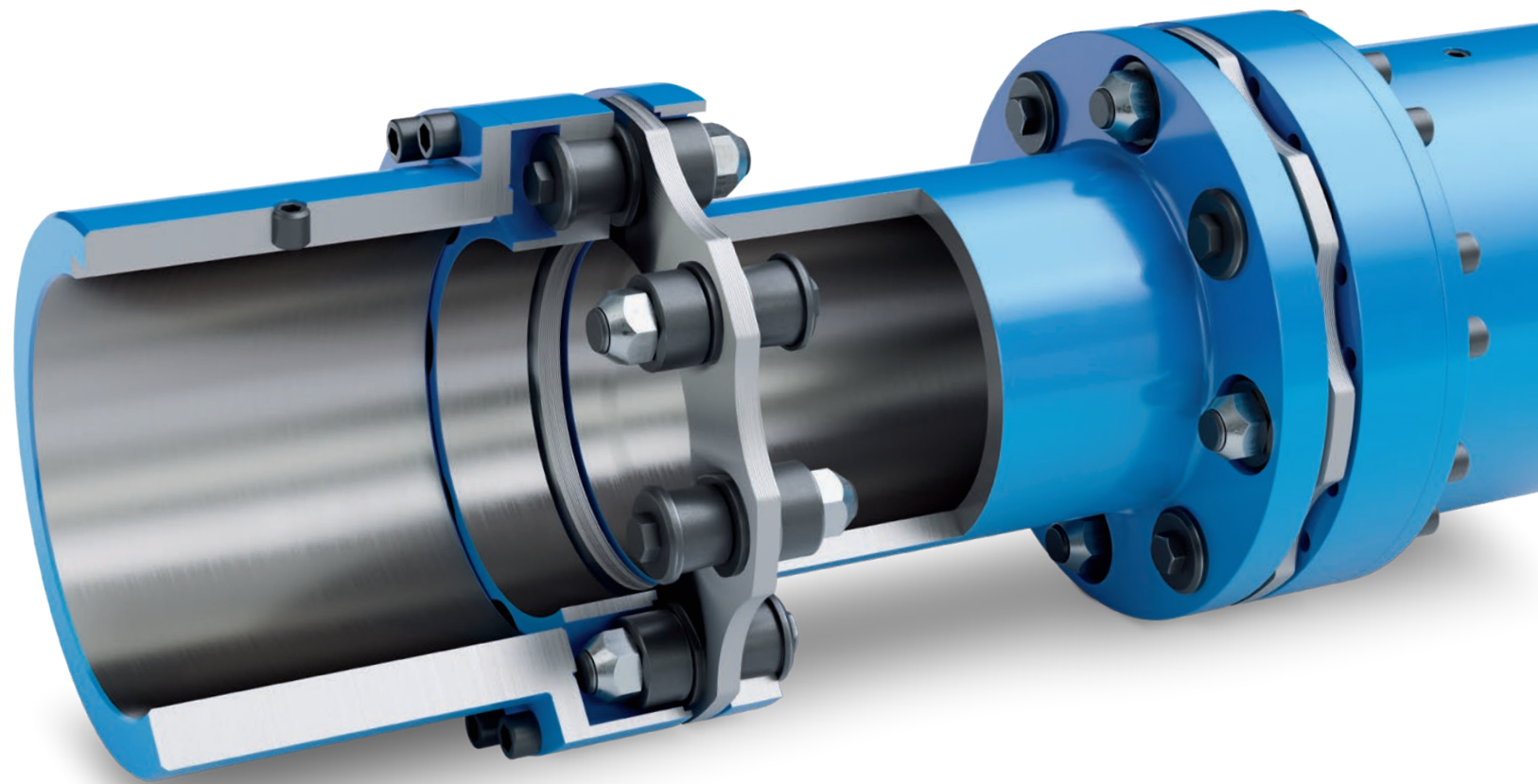
The structure of an N-ARPEX type MCECM consists of two hubs and a preassembled intermediate unit (CEC), in which the disk packs are bolted to the intermediate spacer and the centering flanges at the factory. On-site, just the hubs have to be bolted to the centering flanges. The hubs have threaded pull-off holes.

## N-ARPEX MFEFM



The significant difference between an N-ARPEX type MFEFM and type MCECM is that the capacity of the bore is much greater, so this type is destined particularly for use with comparatively large shaft diameters. The hubs have threaded pull-off holes.

*Large bore, great versatility, much easier to use – the design advantages of N-ARPEX are clear.*



## HEXAGON, OCTAGON AND DECAGON

The optimized disk packs allow the transmission of even greater torques and speeds. N-ARPEX has disk packs with 6, 8, or 10 bolted connection points.



Hexagon disk  
Size 86-6 ... 343-6



Octagon disk  
Size 219-8 ... 631-8



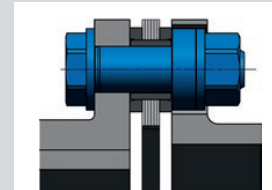
Decagon disk  
Size 495-10 ... 631-10



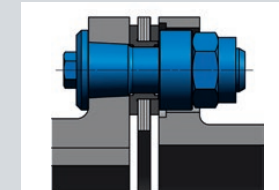
Decagon disk/segment  
Size 694-10 ... 988-10

## EASY ASSEMBLY

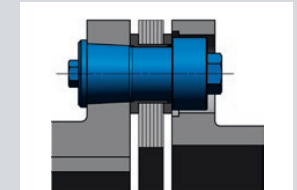
The disk pack bolted connection of the N-ARPEX couplings in the ARN-6 series is a close-fitting bolt connection. A Flender conical bolt connection is used for the ARN-8 and ARN-10 series. The advantage of this connection is that it is considerably easier to assemble for large bolt connections.



Series ARN-6  
Size 86-6 ... 343-6



Series ARN-8  
Size 219-8 ... 354-8



Series ARN-8/-10  
Size 387-8 ... 631-8  
Size 495-10 ... 988-10



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WORLD

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