



### Applications

- Motor driven pumps or compressors
- Electrical generators, textile machines
- Iron and steel plants, cement factories.

### Determining torque

$$T_{MN} = \frac{N_{kW} \times 9550}{n_{rpm}} = (\text{Nm})$$

Service factor K :

| Service       | Electric motor | Combustion engine |
|---------------|----------------|-------------------|
|               | steam turbine  | hydraulic turbine |
| Uniform S1    | 1,0            | 1,5               |
| Light S2      | 1,5            | 2,0               |
| medium S3     | 2,0            | 2,5               |
| Heavy S4      | 2,5            | 3,0               |
| Very heavy S5 | 3,0            | 3,2               |



Temperature factor St:

| St | -20°C | 0°C | +20°C | +40°C | +60°C | +70°C | +80°C |
|----|-------|-----|-------|-------|-------|-------|-------|
|    | 1,0   | 1,0 | 1,0   | 1,0   | 1,2   | 1,4   | 1,6   |

$$T_{MN} \times K \times St \leq T_{CN} \text{ coupling}$$

$$n \text{ inst.} \leq n_{MAX} \text{ coupling}$$

$$\text{shaft diameter} \leq d_{MAX} \text{ coupling}$$

### Safety precautions

The tyre is cut radially to allow mounting/dismounting. Depending on the speed and torque transmitted, an axial force will be generated which must be absorbed by the bearings in the coupled machines. The tyre may expand by up to 5% during use which must be taken into account when choosing a protective housing.

| Part number | Nominal torque | Max. torque  | Max. speed | Moment of inertia   | Misalignment |             |         |
|-------------|----------------|--------------|------------|---------------------|--------------|-------------|---------|
|             | TCN (Nm)       | TCmaxi. (Nm) | (rpm)      | (kgm <sup>2</sup> ) | Axial (Nm)   | Radial (Nm) | Angular |
| PNA2-203R   | 50             | 150          | 5 000      | 0,001               | 1,0          | 0,75        | 2°      |
| PNA6-206R   | 100            | 300          | 5 000      | 0,003               | 1,5          | 1,00        | 2°      |
| PNA16-210R  | 200            | 600          | 4 000      | 0,013               | 2,0          | 1,30        | 2°      |
| PNA40-214R  | 400            | 1 200        | 4 000      | 0,035               | 2,5          | 1,60        | 2°      |
| PNA63-218R  | 800            | 2 400        | 3 000      | 0,105               | 3,0          | 2,10        | 2°      |

Dimensions in mm

# PERIFLEX® elastic coupling

Torque: 50 to 2400Nm

PNA

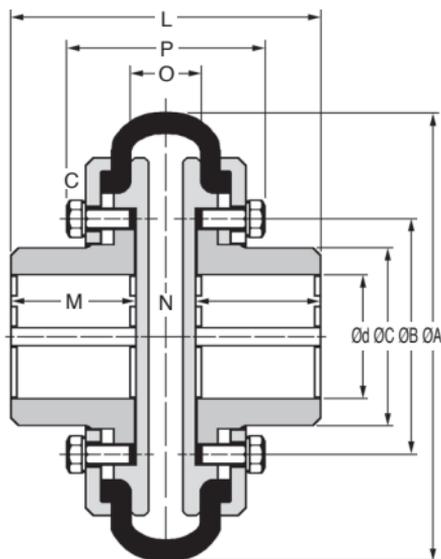
- Easy installation, machines to be coupled will not require to be moved
- Backlash free
- Can transmit shocks up to 3 times the value of nominal torque
- Quickly damps vibrations
- Maintenance free

## Characteristics

- Large axial misalignment up to 6mm radial up to 5mm angular up to 2°
- Keyway in accordance with NF E22-175/P9 (JS9)
- Working temp.: -20°C to +80°C
- Materials:
  - Hub: Steel
  - Locking assembly: Steel
  - Tyre R: Natural rubber (NR) with fabric reinforcements

## Options

- Alternative tyre materials (inserts mounted in X pattern)



## DISCOUNTS

| Qty   | 1+   | 2+         |
|-------|------|------------|
| Disc. | List | On request |

| Part number solid coupling | ØA  | ØB  | ØC  | L   | M  | Ød max. | Ød pre-bore | Ød Standard bores (H7)                 |
|----------------------------|-----|-----|-----|-----|----|---------|-------------|--|
| PNA2-203R                  | 104 | 54  | 40  | 70  | 30 | 28      | plein       | 10, 15, 19, 20, 25, 28                 |
| PNA6-206R                  | 136 | 68  | 55  | 110 | 45 | 38      | plein       | 10, 15, 20, 25, 30, 35, 38             |
| PNA16-210R                 | 178 | 88  | 70  | 130 | 50 | 48      | 15          | 20, 25, 30, 35, 38, 48                 |
| PNA40-214R <sup>(1)</sup>  | 210 | 116 | 92  | 160 | 65 | 65      | 15          | 20, 25, 30, 35, 40, 45, 50, 55, 60, 65 |
| PNA63-218R <sup>(1)</sup>  | 263 | 140 | 107 | 190 | 75 | 75      | 25          | 30, 35, 40, 45, 50, 55, 60, 65, 70, 75 |

| Part number solid coupling | N  | O  | P   | Number of screws | Screw | Locking torque (Nm) | Weight (kg) | Stock* prebored | Price each full or prebored | Price each bored keyway |
|----------------------------|----|----|-----|------------------|-------|---------------------|-------------|-----------------|-----------------------------|-------------------------|
| PNA2-203R                  | 8  | 16 | 66  | 12               | M6    | 4 <sup>(2)</sup>    | 1,15        | ✓               | 335,76 €                    | 568,57 €                |
| PNA6-206R                  | 8  | 18 | 74  | 16               | M6    | 6 <sup>(2)</sup>    | 2,50        | ✓               | 445,46 €                    | 702,92 €                |
| PNA16-210R                 | 19 | 35 | 100 | 16               | M8    | 15 <sup>(2)</sup>   | 5,40        | ✓               | 564,12 €                    | 823,79 €                |
| PNA40-214R <sup>(1)</sup>  | 20 | 38 | 99  | 24               | M8    | 20                  | 9,50        | -               | 821,56 €                    | 1 096,93 €              |
| PNA63-218R <sup>(1)</sup>  | 24 | 44 | 121 | 16               | M12   | 25                  | 17,50       | -               | 1 121,57 €                  | 1 464,09 €              |

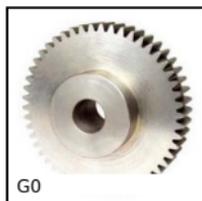
\*Depending on availability - Dimensions in mm

## Our other products



HS

Hexagonal spacer,  
Stainless steel 303



G0

Steel spur gear, Steel  
20NCD2



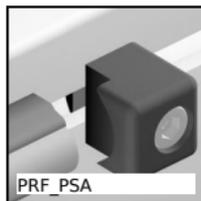
F7-SF-SM

Multifunction display,  
Mounting bracket for  
front mounting



HBM

Adjustment bushing  
for half-rail guide,  
Adjustment bushing



PRF\_PSA

Shaft support for  
aluminium profile,  
Shaft stop



PITA

Locking bolt, with T  
handle



CLAT

Clamping lever  
Hygienic Usit® -  
male, Stainless steel



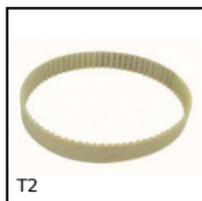
BH02

Single housed bearing  
assembly, Bearing  
secured with circlips



GCL

Linear ball slide Eco  
Range, economy



T2

T type timing belt,  
T2.5 Steel cored



MSP23

Masterplate®  
glueable insert Ø23,



MDB\_MTB

Moulded plastic bevel  
gear (nylon), 2:1

## Complementary products



PNA\_R

PERIFLEX elastic  
coupling,  
Replacement tyre