



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 ²) | 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

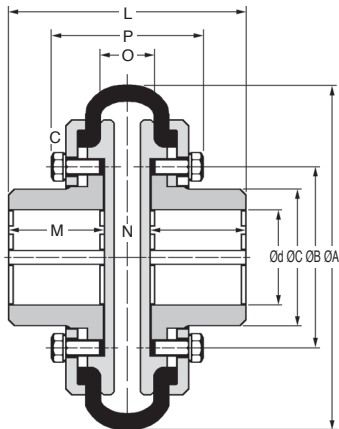
- Easy installation, machines to be coupled will not require to be moved
- Backlash free
- Can transmit shocks up to 3 times the value of nominal torque
- Quickly damps vibrations
- Maintenance free

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 ⁽¹⁾ | 210 | 116 | 92 | 160 | 65 | 65 | 15 | 20, 25, 30, 35, 40, 45, 50, 55, 60, 65 |
| PNA63-218R ⁽¹⁾ | 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 ⁽²⁾ | 1,15 | ✓ | 335,76 € | 568,57 € |
| PNA6-206R | 8 | 18 | 74 | 16 | M6 | 6 ⁽²⁾ | 2,50 | ✓ | 445,46 € | 702,92 € |
| PNA16-210R | 19 | 35 | 100 | 16 | M8 | 15 ⁽²⁾ | 5,40 | ✓ | 564,12 € | 823,79 € |
| PNA40-214R ⁽¹⁾ | 20 | 38 | 99 | 24 | M8 | 20 | 9,50 | - | 821,56 € | 1 096,93 € |
| PNA63-218R ⁽¹⁾ | 24 | 44 | 121 | 16 | M12 | 25 | 17,50 | - | 1 121,57 € | 1 464,09 € |

*Depending on availability - Dimensions in mm

Our other products



PTRSS
Idler chain sprocket,
For hostile
environments



BMF
Knurled knob -
female, Knurled -
blind



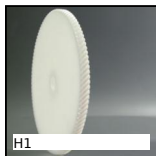
AT5M AT10M
AT type timing belt
per metre, AT10 Steel
cored polyurethane



G4
Steel spur gear, Steel
20NCD2



KITbuh
24V DC motorisation
kit, Planetary gears



H1
Crossed helical gear
crossed axis at 90°,
Machined plastic
(delrin)



DOMI50
Domino 50 adjustable
slide, Slide DOMILINE
50 with counter and
handw...



HLA28
Right angle spiro
bevel gearbox, Up to
182Nm



ACLRP
Wheel for aluminium
profile, Integrated



RFK48C
Hypoid gearbox -
Stainless steel, up to
182Nm



MFBC
Flexible Bellows
coupling, Aluminium



CHA_GC_9SS
Stainless steel garnet
hinge, To be welded

Complementary products



PNA_R
PERIFLEX elastic
coupling,
Replacement tyre