

Applications

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

Determining torque

$$T_{\max} = \frac{N_{kw} \times 9550}{n_{\text{min}}} = (\text{Nm})$$

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

$$T_{\max} \times K \times St < T_{\text{cn coupling}}$$

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

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

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	Axial (Nm)	Misalignment	
	TCN (Nm)	TCmaxi. (Nm)	(rpm)	(kgm ²)		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

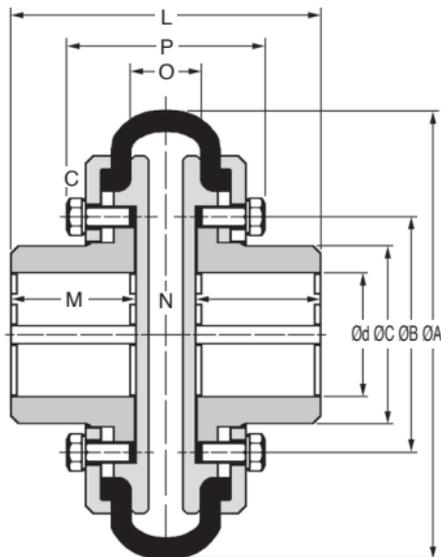
- Easy installation, machines to be coupled will not require to be moved
- Backlash free
- Can transmit shocks up to 3 times the value of nominal torque
- Quickly damps vibrations
- Maintenance free

Characteristics

- Large axial misalignment up to 6mm radial up to 5mm angular up to 2°
- Keyway in accordance with NF E22-175/P9 (J59)
- 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	plain	10, 15, 19, 20, 25, 28
PNA6-206R	136	68	55	110	45	38	plain	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 plain or pilot bore	Price each bored keyway
PNA2-203R	8	16	66	12	M6	4 ⁽²⁾	1,15	✓	635,21 €	1 355,59 €
PNA6-206R	8	18	74	16	M6	6 ⁽²⁾	2,50	✓	667,81 €	1 460,48 €
PNA16-210R	19	35	100	16	M8	15 ⁽²⁾	5,40	✓	964,50 €	1 653,80 €
PNA40-214R ⁽¹⁾	20	38	99	24	M8	20	9,50	-	1 313,96 €	1 944,69 €
PNA63-218R ⁽¹⁾	24	44	121	16	M12	25	17,50	-	1 549,95 €	2 215,73 €

*Depending on availability - Dimensions in mm

- Tyre for PERIFLEX® coupling

- Replace the tyre without moving the machine
- Natural rubber tyre R (NR) reinforced with fabric aligned radially (R)
- Tyre quality X (1) reinforced with fabric arranged transversally (X)



Assembly

- The elastic coupling is delivered pre-assembled. To mount the coupling, remove the tyre and place the hubs and locking assemblies on their respective shafts. Bring the two assemblies together respecting the distance "O" and aligning the two hubs with a straight edge or template.
- Place the tyre between the two hubs ensuring there is minimum radial backlash (2-15mm depending on the size of the coupling). Then bring the two locking assemblies together, tightening pairs of diametrically opposite screws to the prescribed torque. As the rubber may decompress with time, tighten the screws after a few hours of use.

SAVE MONEY !
Only change the tyre

DISCOUNTS

Qty	1+	2+
Disc.	List	On request

Part number spare tyre	for PERIFLEX® coupling part number	Type of tyre	Stock*	Price each
203R	PNA2-203	R	-	279,65 €
206R	PNA6-206	R	✓	300,83 €
210R	PNA16-210	R	✓	388,95 €
214R	PNA40-214	R	✓	519,82 €
218R	PNA63-218	R	✓	542,68 €
414X	PNA40-214	X	-	629,44 €
418X	PNA63-218	X	-	734,21 €

*Depending on availability - Dimensions in mm