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Reliable connections at a glance

The world's largest range of couplings

FLENDER couplings

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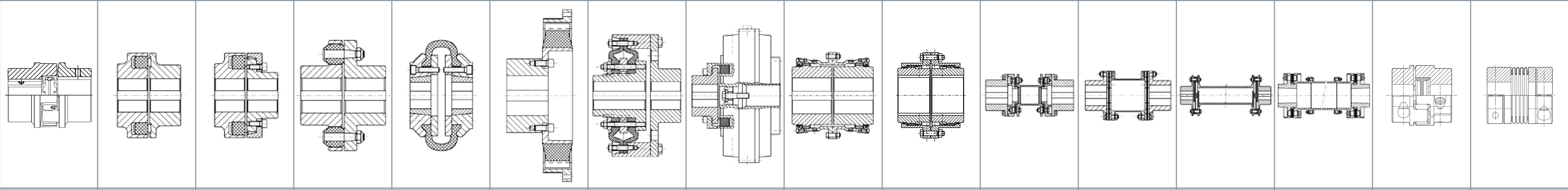
FLENDER couplings – the right coupling for every application

The coupling range

	N-BIPEX	N-EUPEX Standard	N-EUPEX DS	RUPEX RWN/RWS	ELPEX-B	ELPEX-S	ELPEX Standard	FLUDEX
Catalogue	MD 10.1 N	MD 10.1	MD 10.1	MD 10.1	MD 10.1	MD 10.1	MD 10.1	MD 10.1
Characteristic features								
	Flexible couplings				Highly flexible couplings			Hydrodynamic couplings
	Claw coupling	Pin coupling	Pin coupling	Pin and bush coupling	Rubber tire coupling	Rubber disk coupling	Ring coupling	Fluid coupling
Properties	fail-safe, torsionally flexible, damping	fail-safe, torsionally flexible, damping	w/o fail-safe device, torsionally flexible, damping	fail-safe, torsionally flexible, damping	w/o fail-safe device, highly flexible, damping	w/o fail-safe device, highly flexible, damping	w/o fail-safe device, highly flexible, damping	ability to slip, hydrodynamically, torsional vibration damping, torque limiting, resounding and load holding
Technical data*								
Nominal torque/power rating	12 Nm ... 4,650 Nm	19 Nm ... 62,000 Nm	19 Nm ... 21,100 Nm	200 Nm ... 1,300,000 Nm	24 Nm ... 14,500 Nm	330 Nm ... 63,000 Nm	1,600 Nm ... 90,000 Nm	0.5 Nm ... 2,500 Nm
Perm. peripheral speed	45 m/s	36 m/s	36 m/s	40/60 m/s	35 m/s	66 m/s	36/60 m/s	80 m/s
Temperature at place of installation	−50 °C ... +100 °C	−50 °C ... +100 °C	−30 °C ... +80 °C	−50 °C ... +100 °C	−50 °C ... +70 °C	−40 °C ... +120 °C	−40 °C ... +80 °C	−40 °C ... +50 °C
Perm. angular misalignment	0.3°... 0.5°	0.2°	0.2°	0.2°	4°	0.5°	0.5°	0.2°

	ZAPEX-ZW	ZAPEX-ZN	ARPEX ARP	ARPEX ARS and ARC	ARPEX ARW	ARPEX ART	BIPEX-S	SIPEX
Catalogue	MD 10.1	MD 10.1	MD 10.1	MD 10.1	MD 10.1	MD 10.2	MD 10.3	MD 10.3
Characteristic features								
	Torsionally rigid couplings						Backlash-free couplings	
	Gear coupling	Gear coupling	All-steel coupling	All-steel coupling	All-steel coupling	All-steel coupling	Claw coupling	Metal bellows coupling
Properties	fail-safe, torsionally rigid, double-jointed	fail-safe, torsionally rigid, double-jointed	fail-safe, torsionally rigid, double-jointed	fail-safe, torsionally rigid, double-jointed	fail-safe, torsionally rigid, double-jointed	fail-safe, torsionally rigid, double-jointed	backlash-free, suitable for plug-in assembly, vibration-damping, electrically insulating, fail-safe	torsionally rigid, backlash-free
Technical data*								
Nominal torque/power rating	1,300 Nm ... 7,200,000 Nm	1,020 Nm ... 162,500 Nm	100 Nm ... 17,000 Nm	170 Nm ... 1,450,000 Nm	92 Nm ... 80,000 Nm	1,000 Nm ... 588,500 Nm	0.5 Nm ... 655 Nm	0.1 Nm ... 5,000 Nm
Perm. peripheral speed	60 m/s	60 m/s	100 m/s	55/100 m/s	55 m/s	200 m/s	40 m/s	30 m/s
Temperature at place of installation	−20 °C ... +80 °C	−20 °C ... +80 °C	−40 °C ... +280 °C	−40 °C ... +280 °C	−40 °C ... +280 °C	−40 °C ... +280 °C	−50 °C ... +120 °C	−30 °C ... +120 °C
Perm. angular misalignment	1°	0.5°	0.7°	0.7°/0.4°/0.3°/0.2°	3°	0.35°/0.25°/0.16°	0.8° / 1.1°	1.5° / 2°



*For specific applications, detailed performance features of the listed products can be obtained from the latest edition of the respective product brochure.

Designs

	N-BIPEX	N-EUPEX Standard	N-EUPEX DS	RUPEX RWN/RWS	ELPEX-B	ELPEX-S	ELPEX Standard	FLUDEX
With taper bush	●	○	○	○	●	●		○
With clamping hub				○				
With spacer		●	●	○	●	○	○	●
With brake disk/drum		●		●	○	○	○	●
With SAE flange		○		○	○	●	○	○
With sliding hub				○				
Vertical mounting position	●	●	●	●	●	●	●	●
With axial play limiting device				○		○	○	
As clutch/coupling combination				○	○	○	○	
As shear pin coupling				○				
Creeping-current insulation			○	○		○		
Acc. to API 610/API 671				○		○	○	
Acc. to Directive 2014/34/EU		●	●	●		●		●

	ZAPEX-ZW	ZAPEX-ZN	ARPEX ARP	ARPEX ARS and ARC	ARPEX ARW	ARPEX ART	BIPEX-S	SIPEX
With taper bush			○	○	○		●	
With clamping hub			○	●	○	○	●	●
With spacer	●	●	●	●	●	●		●
With brake disk/drum	●	●	○	○	○	○		
With SAE flange			○	○	○	○		
With sliding hub	○	○	○	○	○	○	●	
Vertical mounting position	●	●	●/○	●/○	●/○	●/○		●
With axial play limiting device	●	●	○	○	○	○		
As clutch/coupling combination	●			○				
As shear pin coupling	●	○		○			●	
Creeping-current insulation	●	○	○	○	○	○		
Acc. to API 610/API 671			API 610 (671)			API 671		
Acc. to Directive 2014/34/EU	●	●	●	●	●	●		

● = Available as standard ○ = Optionally available

Service

	N-BIPEX	N-EUPEX Standard	N-EUPEX DS	RUPEX RWN/RWS	ELPEX-B	ELPEX-S	ELPEX Standard	FLUDEX
Maintenance intervals	Annual visual inspection				Annual visual inspection			Annual / 10,000 operating hours
Radially removable wearing parts		▲/△	▲/△	▲	▲	▲/△	▲	▲/△
Installation costs	□	□	□	□	□	□	□□	□□

	ZAPEX-ZW	ZAPEX-ZN	ARPEX ARP	ARPEX ARS and ARC	ARPEX ARW	ARPEX ART	BIPEX-S	SIPEX
Maintenance intervals	Annual		Maintenance free – Annual visual inspection recommended				Annual	Maintenance free – Annual visual inspection recommended
Radially removable wearing parts			▲	▲	▲	▲		
Installation costs	□□□	□□□	□□□	□□□	□□□	□□□	□	□

▲ = Standard △ = optionally available □ = low □□ = average □□□ = high

Examples of application

	N-BIPEX	N-EUPEX Standard	N-EUPEX DS	RUPEX RWN/RWS	ELPEX-B	ELPEX-S	ELPEX Standard	FLUDEX
	Pumps, compressors, hydraulic drives, motor lantern (e.g. geared motors)	Pumps, compressors, fans/blowers	Pumps, compressors, fans/blowers	Pumps, compressors, rotary kilns, cement mills	Pumps, compressors, fans/blowers, roller table drives	Compressors, excavators, diesel engines	Compressors, excavators, shredders	Conveyor belts, mixers, crushers, fans/blowers

	ZAPEX-ZW	ZAPEX-ZN	ARPEX ARP	ARPEX ARS and ARC	ARPEX ARW	ARPEX ART	BIPEX-S	SIPEX
	Systems in the steel industry (rolling mills, rolling tables, shears, punches, presses, etc.), bucket elevators, mixers, presses, crushers, kneaders, mills, conveyor technology, pumps	Systems in the steel industry (rolling mills, rolling tables, shears, punches, presses, etc.), mixers, presses, crushers, kneaders, mills, conveyor technology, pumps	Pumps, compressors, fans/blowers	Gen. machine building, paper machines, printing machinery	High-speed generators, pumps, compressors, wind turbines	Gas and steam turbines, generator sets, turbo-compressors, boiler feed pumps, marine propulsion and dynamometers	Spindle- and positioning in machine tools, automation drives in printing and packaging machines, in medical technology or also in the field of renewable energy	Encoders, servodrives and stepper motors, spindle and positioning in machine tools, automation, drives in printing and packaging machines, in medical technology or in the field of renewable energy

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