

High quality based on engineering and experience.



FLENDER Couplings

Answers for industry.



FLENDER couplings – The right coupling for every application

The coupling range

Brochure (as per 11/2007)	MD 10.1	MD 10.1	MD 10.1	MD 10.1	MD 10.1	MD 10.1	MD 10.1	MD 10.1	MD 10.1	MD 10.1	MD 10.1	MD 10.1	MD 10.1	MD 10.9

Characteristic features

	Flexible couplings				Highly flexible couplings			Hydrodynamic couplings	Torsionally rigid couplings					
	Claw coupling	Pin coupling	Pin coupling	Pin and bush coupling	Rubber tyre coupling	Rubber disk coupling	Ring coupling	Fluid coupling	Gear coupling	Gear coupling	All-steel coupling	All-steel coupling	All-steel coupling	All-steel 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 hydrodynamic	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

Technical Data*

Nominal torque/power rating [Nm or kW]	13.5 Nm ... 3,700 Nm	19 Nm ... 62,000 Nm	19 Nm ... 21,200 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 kW ... 2,500 kW	1,300 Nm ... 7,200,000 Nm	850 Nm ... 125,000 Nm	100 Nm ... 17,000 Nm	170 Nm ... 1,450,000 Nm	92 Nm ... 80,000 Nm	1,000 Nm ... 535,000 Nm
Perm. peripheral speed [m/s]	36	36	36	40 / 60	35	66	36 / 60	80	60	60	100	55 / 100	55	200
Temperature at place of installation [°C]	-30 °C ... +80 °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	-20 °C ... +80 °C	-20 °C ... +80 °C	-40 °C ... +280 °C	-40 °C ... +280 °C	-40 °C ... +280 °C	-40 °C ... +280 °C
Perm. angular misalignment [°]	0.1°	0.2°	0.2°	0.2°	4°	0.5°	0.5°	0.2°	1°	0.5°	0.7°	0.7° / 0.4° / 0.3° / 0.2°	3°	0.35° / 0.25° / 0.18°

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

Designs

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 94/9/EC		●	●	●		●		●	●	●	●	●	●	●

● = available as standard ○ = Optionally available

Service

Maintenance intervals		Annual visual inspection				Annual visual inspection			Annual / 10,000 operating hours	Annual		Maintenance-free – annual visual inspection recommended			
Radially removable wearing parts		▲/△	▲/△	▲	▲	▲/△	▲	▲	▲/△			▲	▲	▲	▲
Expenditure on installation	□	□	□	□	□	□	□□	□□□	□□□	□□□	□□□	□□□	□□□	□□□	□□□

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

Examples of Application

Pumps, Compressors, Bell housing installation	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	Presses, Crushers, Pumps, Mixers	Presses, Crushers, Pumps, Mixers	Pumps, Compressors, Fans/Blowers	Gen. machine building, paper machines, printing machinery	Paper machines, Wind turbines	High-speed generators, Pumps, Compressors, Turbines
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