SIEMENS



Gear couplings with more torque

The economic answer to very rough conditions

FLENDER ZAPEX ZN

Torsionally rigid coupling with maximum flexibility

Even in severe conditions our gear couplings perform. They satisfy even highest expectations in terms of performance, reliability and flexibility. FLENDER ZAPEX ZN® – the coupling solution designed to meet all requirements and show highest performance. It combines maximum torque and largest bores and it was especially designed for severe operating conditions

With the development of the FLENDER ZAPEX ZN highest application competency were realized. The coupling designed according to demand and performance is the most economical solution for all industry sectors subject to severst operating conditions. It meets all requirements regarding the flexiblity of a coupling.

For years the Flender ZAPEX ZW and ZAPEX ZI gear couplings perform useful services in the steel industry and metallurgy, pumps, crushers, presses and mixers. They are very robust and transmit maximum forces despite its small size. The update of the ZI coupling provides even more customer benefits.

ZAPEX ZN replaces ZAPEX ZI

The new FLENDER ZAPEX ZN will be introduced at the Hannover fair 2011. It entirely replaces our very reliable ZAPEX ZI. The new coupling was developed for all applications of the ZAPEX ZI. It was conceived bringing various additional benefits to the customer.

More power and flexibility

The ZAPEX ZN concept not only includes higher torque. Individuel hub cuts insure considerably higher more flexible customer orientation. This way the coupling is sooner available than the ZI having multi purpose hubs to be shortened.

Moreover the ZAPEX ZN has the additional advantage of larger bores having the highest operating ratio as well as an excellent cost/performance ratio. Further possible savings can be realized by choosing a smaller size.

Fast availability of ZAPEX ZN

The concept of the coupling satisfying the requirements along with structural improvements helps to streamline the value added chain of the production and to optimize supply processes.

Along with readily available hub variants very fast response and delivery times are possible.



The ZAPEX ZN is ideal for severest operating conditions such as in the materials handling technology

The Siemens benefit

Customers can be sure that all couplings are manufactured by Siemens in Germany. WE stand for highest quality and delivery reliybility but also for first class consulting and exceptional application know-how. Being the specialists in drive technology we have the product expertise that goes far beyond couplings. The asignment and its solution have a holistic effect, which lead to partnership and trust in Siemens.



Coupling is subject to excessive stress: steel and metallurgy

The ZAPEX ZN is available in 12 sizes up to a torque of 162.500 Nm and a maximum bore of 288 mm ex stock.

Features:

- Double-jointed gear coupling compensates angular, radial and axial shaft misalignments
- Low restoring forces in case of shaft misalignments
- Small dimensions, can be used at high shock loads, with large safety reserves
- Suitable for both directions of rotation (reverse mode)

Your advantages:

- Considerably higher torque
- Larges bores are possible
- Solutions tailored to requirements
- Excellent price/performance ratio
- Very short delivery times
- Individual hubs
- Extremly robust designed
- Wide range of types
- Low restoring forces in case of high permissible shaft misalignment

Fields of application:

- Heavy machinery construction
- Metallurgical engineering
- Material handling technology
- Pumps
- Compressors





Coupling suitable for potentially explosive environments

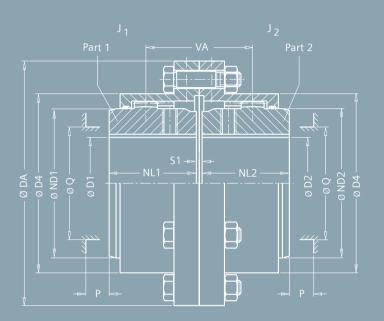
Complies with Directive 94/9/EC for:

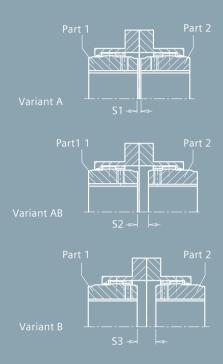
(€ (Ex) I 2 GD c 120 °C (T4)

(€ (€x) II M2



Technical Data





															Mass moment of inertia					
	Rated Torque	Maximum speed		2 key- IN 6885	DA	ND1/ ND2	NL1/ NL2	D4		S2	S3		Q		J ₁ /J ₂					
83	1.020	8.500	0	50	117	67	43	83	3	12	21	55	52	31	0,003	2LC0330-0A	-		-0AA0	3,2
107	2.210	7.700	0	65	152	87	50	107	3	9	15	59	68	34	0,009	2LC0330-1A	-		-0AA0	6,5
130	4.020	6.900	0	82	178	108	62	129,5	3	17	31	79	85	42	0,02	2LC0330-2A	-		-0AA0	9,8
156	6.600	6.200	0	100	213	130	76	156	5	17	29	93	110	47	0,05	2LC0330-3A	•		-0AA0	17,5
181	11.000	5.800	0	116	240	153	90	181	5	19	33	109	130	58	0,09	2LC0330-4A	•		-0AA0	25,5
211	19.200	5.100	0	137	280	180	105	211	6	23	40	128	150	67	0,21	2LC0330-5A	•		-0AA0	43
250	30.680	4.500	0	164	318	214	120	249,5	6	24	42	144	175	72	0,39	2LC0330-6A	-		-0AA0	60
274	43.550	4.000	80	178	347	233	135	274	8	29	50	164	190	81	0,59	2LC0330-7A	•		-0AA0	82
307	61.750	3.750	90	198	390	260	150	307	8	32	56	182	220	91	1,1	2LC0330-8A	•		-0AA0	115
333	87.100	3.550	100	216	425,5	283	175	332,5	8	39	70	214	250	104	1.8	2LC0331-0A	•		-0AA0	155
364	117.000	3.400	120	242	457	312	190	364	8	46	84	236	265	126	2,3	2LC0331-1A	•		-0AA0	180
424	162.500	3.200	150	288	527	371	220	423,5	10	43	76	263	300	140	4,9	2LC0331-2A	•		-0AA0	275
Variant		• A	• A																	
		• B															В			
		• AB															С			
Ø D1:		• Without f	Without finished bore - Without order codes															1		
<i>в в</i> г.		• With finis	hed bor	e - With	order c	odes fo	r diam	eter and	tolera	nce								9		
Ø D2:		Without finished bore - Without order codes																1		
W DZ:		• With finis	hed bor	e - With	order c	odes fo	r diam	eter and	tolera	nce								9		

Q Diameter required for renewing the sealing rings

Mass moments of inertia apply to a coupling half with maximum bore diamete Weights apply to the entire coupling with maximum bores.

P Length required for renewing the sealing rings, aligning the coupling parts and tightening the set screw

Further information on couplings www.siemens.com/couplings

www.siemens.com/automation/partner

You will find further information brochures and technical descriptions on our websites under the navigation point "support"

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