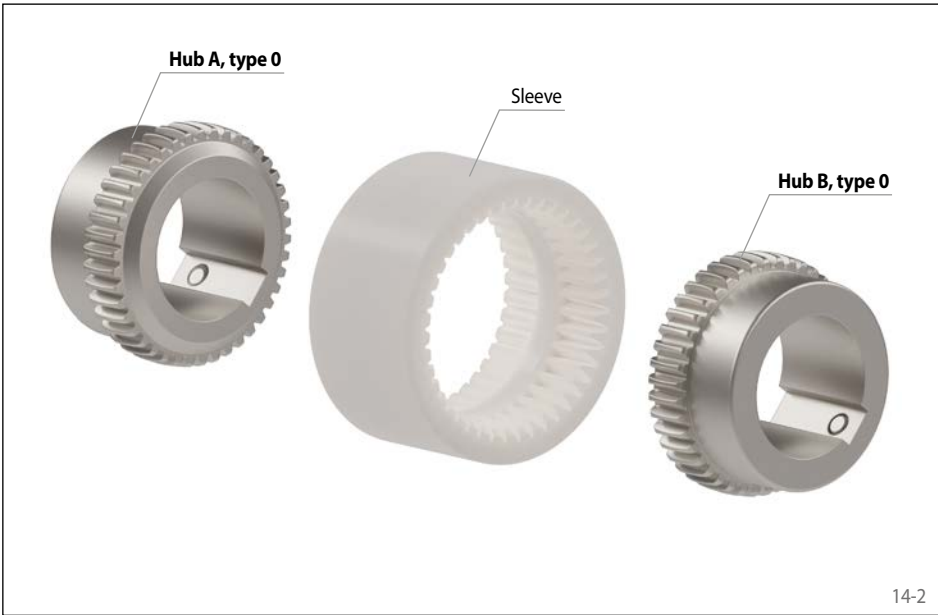


Gear Couplings RDZ ... EEO

torsionally rigid
continuous sleeve and double engagement gearing



14-1



14-2



Sleeve

14-3

Features

- Compensation of axial, radial and angular misalignments
- Double engagement allows smooth torque transmission
- Deployable in horizontal and vertical applications
- Temperature range from -25 °C to +100 °C
- Low weight and low moments of inertia
- Maintenance free thanks to a combination of steel and polyamide 6.6
- Typical applications: Hydraulics, pump drives

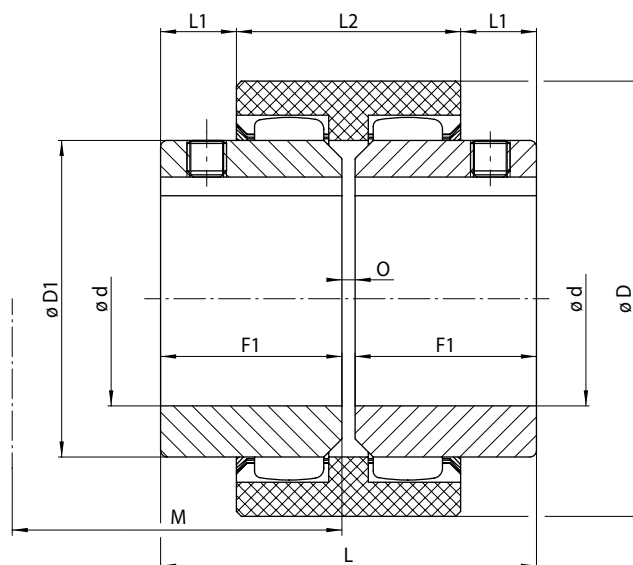
Order example

	Code
Coupling design	RDZ
Coupling size	0014
Type	EEO
Material of the hub: • Steel	STA
Hub A, type: • 0, standard	0
Hub A, design: • finish bored with keyway • roughbored	FB VA
Bore diameter hub A	015
Hub B, type: • 0, standard	0
Hub B, design: • finish bored with keyway • roughbored	FB VA
Bore diameter hub B	015
Material of the sleeve: • Polyamide 6.6	PA66

RDZ 0014 EEO-STA-0FB015-0FB015-PA66

torsionally rigid

continuous sleeve and double engagement gearing



15-1

Coupling size	Nominal torque T_{KN}	Nominal power at 100 min^{-1} P_{K100}	Max. speed n_{max}	Moment of inertia with max. bore J_k	Permissible misalignments		
	Nm	kW	min^{-1}	kgcm^2	Axial mm	Radial mm	Angular °
0014	10	0,10	14 000	0,26	± 1	0,3	1
0019	16	0,17	11 800	0,47		0,3	
0024	20	0,21	10 600	0,93		0,4	
0028	45	0,47	8 500	3,09		0,4	
0032	60	0,63	7 500	5,48		0,4	
0038	80	0,84	6 700	8,68		0,4	
0042	100	1,00	6 000	14,28		0,4	
0048	140	1,50	5 600	18,34		0,4	
0065	380	4,00	4 000	84,80		0,4	

Coupling size	Pilot bore d^*	Bore d^*		D	D1	F1	L	L1	L2	M**	O	Weight with max. bore
	mm	min. mm	max. mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
0014	5	6	15	40	25	23	50	6,5	37	37	4	0,10
0019	10	12	20	48	32	25	54	8,5	37	37	4	0,23
0024	10	12	24	52	36	26	56	7,5	41	41	4	0,32
0028	10	12	28	66	44	40	84	19	46	46	4	0,74
0032	10	12	32	76	50	40	84	18	48	48	4	0,95
0038	10	12	38	83	58	40	84	18	48	48	4	1,23
0042	10	12	42	92	65	42	88	19	50	50	4	1,50
0048	10	12	48	95	68	50	104	27	50	50	4	1,81
0065	10	12	65	132	96	55	114	23	68	68	4	4,35

For finish bores, please specify bore diameter hub A and hub B. Tolerance of finish bores H7. Keyways in accordance with DIN 6885, sheet 1. Keyway tolerance JS9.

* Bores also available in inch size, see page 73.

** Minimum dimensions by which the units need to be pushed apart to enable a radial disassembly of the sleeve.

Selection of IEC standard motors

A.C. motor 50 Hz			Motor power n = 3 000 min ⁻¹ 2 pole		RDZ ... EEO	Motor power n = 1 500 min ⁻¹ 4 pole		RDZ ... EEO	Motor power n = 1 000 min ⁻¹ 6 pole		RDZ ... EEO	Motor power n = 750 min ⁻¹ 8 pole		RDZ ... EEO
Frame size	Shaft end d x l		Power P _{AN}	Torque T _{AN}	Coupling size	Power P _{AN}	Torque T _{AN}	Coupling size	Power P _{AN}	Torque T _{AN}	Coupling size	Power P _{AN}	Torque T _{AN}	Coupling size
	2 pole	4, 6, 8 pole												
56	9 x 20		0,09 0,12	0,32 0,41	0014	0,06 0,09	0,43 0,64	0014	0,037 0,045	0,43 0,52	0014	-	-	-
63	11 x 23		0,18 0,25	0,62 0,86		0,12 0,18	0,88 1,3		0,06 0,09	0,7 1,1		-	-	-
71	14 x 30		0,37 0,55	1,3 1,9		0,25 0,37	1,8 2,5		0,18 0,25	2 2,8		0,09 0,12	1,4 1,8	0014
80	19 x 40		0,75 1,1	2,5 3,7	0019	0,55 0,75	3,7 5,1	0019	0,37 0,55	3,9 5,8	0019	0,18 0,25	2,5 3,5	0019
90S	24 x 50		1,5	5	0024	1,1	7,5	0024	0,75	8	0024	0,37	5,3	0024
90L			2,2	7,4		1,5	10		1,1	12		0,55	7,9	
100L	28 x 60		3	9,8	0028	2,2 3	15 20	0028	1,5	15	0028	0,75 1,1	11 16	0028
112M			4	13		4	27		2,2	22		1,5	21	
132S	38 x 80		5,5 7,5	18 25	0038	5,5	36	0038	3	30	0038	2,2	30	0038
132M			-	-		7,5	49		4 5,5	40 55		3	40	
160M	42 x 110		11 15	36 49	0042	11	72	0042	7,5	75	0042	4 5,5	54 74	0042
160L			18,5	60		15	98		11	109		7,5	100	
180M	48 x 110		22	71	0048	18,5	121	0048	-	-	0048	-	-	0048
180L			-	-		22	144		15	148		11	145	
200L	55 x 110		30 37	97 120	0065	30	196	0065	18,5 22	181 215	0065	15	198	0065
225S	55 x 110	60 x 140	-	-		37	240		-	-		18,5	244	
225M			45	140		45	292		30	293		22	290	
250M	60 x 140	65 x 140	55	177		55	356		37	361		30	392	
280S	65 x 140	75 x 140	75	241		75	484	-	45	438	-	37	483	-
280M			90	289		90	581		55	535		45	587	
315S	65 x 140	80 x 170	110	353		110	707		75	727		55	712	
315M			132	423		132	849		90	873		75	971	
315L			160 200	513 641		160 200	1030 1290		110 132	1070 1280		90 110	90 110	

During selection, the nominal torque of the coupling at +30 °C was factored in with a start-up factor SZ of 1 and a co-efficient of impact SA/SL of 1.
Detailed selection in accordance with the technical information on page 70 et seq.

Standard bores

Coupling size	Bore d								
	mm	mm	mm	mm	mm	mm	mm	mm	mm
0014	9	11	14	15	-	-	-	-	-
0019	14	15	18	19	20	-	-	-	-
0024	14	15	18	19	20	22	24	-	-
0028	14	15	18	19	20	22	24	28	-
0032	18	19	20	22	24	28	32	-	-
0038	18	19	20	22	24	28	32	38	-
0042	18	19	20	22	24	28	32	38	42
0048	28	32	38	42	48	-	-	-	-
0065	32	38	42	48	55	60	65	-	-