

Jaw Couplings REK ... DQO

elastic for dynamic applications
with radially mountable elastomer cushion



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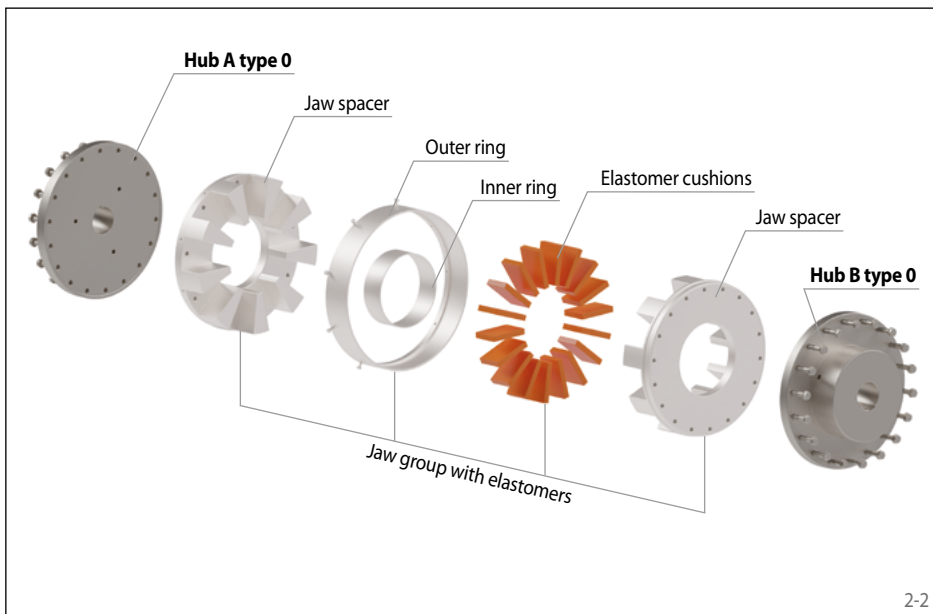
elastic for dynamic applications
with radially mountable elastomer cushions



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Features

- Nominal torques up to 169 000 Nm
- Compensation of axial, radial and angular misalignments
- Adsorbs vibrations
- Progressive torsion spring properties due to primarily pressurised elastomer cushions
- Fail-safe in the event of the failure of the elastomer cushions
- Maintenance free, no lubrication necessary
- Elastomer cushions radially replaceable without moving the drive
- Declaration of conformity in accordance with ATEX 2014/34/EU possible
- Typical application: Piston pumps and piston compressors, diesel motors, gas motors, heavy duty applications



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Order example

	Code
Coupling design	REK
Coupling size	0075
Type	DQO
Material of the hub*:	
• Cast iron	GJL
• Nodular cast iron	GJS
Hub A, type:	
• 0, standard	0
• I, extended, increased max. bore	1
Hub A, design:	
• finish bored with keyway	FB
• roughbored	VA
Bore diameter hub A	050
Hub B, type:	
• 0, standard	0
• I, extended, increased max. bore	1
Hub B, design:	
• finish bored with keyway	FB
• roughbored	VA
Bore diameter hub B	080
Elastomer cushions:	
• NBR 92 Shore-A	NB92
• PU 92 Shore-A	PU92
• HTrans	HT00



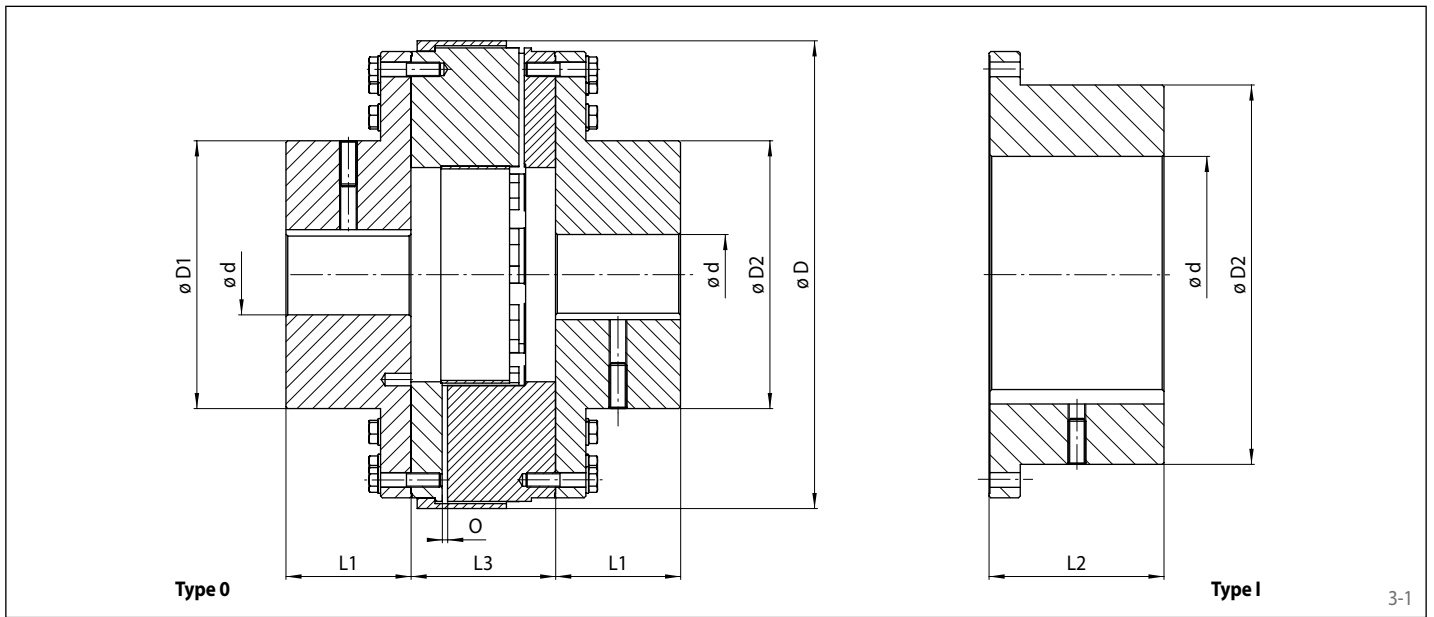
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REK 0075 DQO-GJL-0FB050-0FB080-NB92

* See opposite table for availability

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Coupling size	Material of hub		Max. speed n_{max}		Permissible misalignments		
	Cast iron	Nodular cast iron	Cast iron min^{-1}	Nodular cast iron min^{-1}	Axial mm	Radial mm	Angular °
0075	x	x	2 257	3 385	± 1,5	0,4	1
0090	x	x	2 047	3 071			
0100	x	x	1 880	2 819			
0125	-	x	-	2 544			
0140	-	x	-	2 205			
0160	-	x	-	2 150			
0180	-	x	-	1 932	± 3		
0190	-	x	-	1 693			
0215	-	x	-	1 495			
0260	-	x	-	1 354			

Coupling size	Pilot bore d^*		Min. bore d^*		Max. bore d^*		D	D1	D2	L1	L2	L3	O	Weight with max. bore kg
	Hub type 0 mm	Hub type I mm	Hub type 0 mm	Hub type I mm	Hub type 0 mm	Hub type I mm								
0075	48	68	50	70	80	105	266	131	170	68	85	100	3	53,3
0090	48	83	50	85	85	115	292	138	180	76	95	110	3	68,3
0100	58	83	60	85	100	130	317	162	210	84	105	117	3	97,9
0125	68	108	70	110	120	155	349	195	248	95	120	126	3	102,2
0140	88	113	90	115	140	185	400	220	294	100	130	134	3	145,1
0160	88	128	90	130	145	190	412	230	305	110	140	133	6	152,8
0180	108	148	110	150	170	225	461	275	360	130	170	142	6	197,0
0190	128	168	130	170	190	265	524	300	425	140	195	162	6	287,7
0215	138	208	140	210	215	295	600	345	470	155	210	196	6	456,0
0260	168	238	170	240	265	340	667	420	545	190	240	216	6	667,6

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, different bore and keyway tolerances on request.

The weight refers to a combination of hub type 0 and hub type I with max. possible bore diameter respectively.

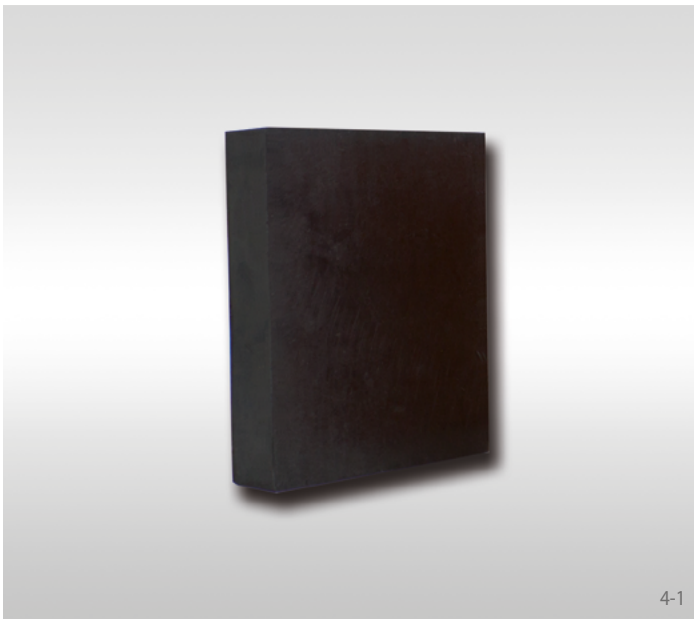
Upon request: Varying DBSEs L3

For vertical installation, please contact RINGSPANN.

See following pages for performance data.

* Bores also available in inch dimensions on request.

Elastomer cushions



Elastomer cushion NBR 92 Shore-A

Material: Nitrile rubber
 Hardness: 92 ±5 Shore-A
 Temperature range: -40 °C to +100 °C
 Colour: black

Elastomer cushion PU 92 Shore-A

Material: Polyurethane
 Hardness: 92 ±5 Shore-A
 Temperature range: -30 °C to +80 °C
 Colour: orange

Coupling size	Nominal torque T_{KN}	Nominal power at 100 min^{-1} P_{K100}	Max. torque $T_{K \text{ max}}$	Alternating torque T_{kW}
	Nm			
0075	5 300	56	10 600	1 060
0090	7 100	75	14 200	1 420
0100	9 900	104	19 800	1 980
0125	-	-	-	-
0140	-	-	-	-
0160	-	-	-	-
0180	-	-	-	-
0190	-	-	-	-
0215	-	-	-	-
0260	-	-	-	-

Coupling size	Nominal torque T_{KN}	Nominal power at 100 min^{-1} P_{K100}	Max. torque $T_{K \text{ max}}$	Alternating torque T_{kW}
	Nm			
0075	8 000	84	16 000	1 600
0090	10 600	112	21 200	2 120
0100	14 800	156	29 600	2 960
0125	21 200	223	42 400	4 240
0140	28 800	302	57 600	5 760
0160	34 100	358	68 200	6 820
0180	50 000	527	100 000	10 000
0190	70 000	738	140 000	14 000
0215	-	-	-	-
0260	-	-	-	-

Elastomer cushions



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Elastomer cushion HTrans

Material: Polyurethane
 Hardness: 55 ±2 Shore-D
 Temperature range: -30 °C to +120 °C
 Colour: white

Coupling size	Nominal torque T_{KN}	Nominal power at 100 min^{-1} P_{K100}	Max. torque $T_{K \text{ max}}$	Alternating torque T_{kW}
	Nm	kW	Nm	Nm
0075	13 300	140	26 600	2 660
0090	17 800	187	35 600	3 560
0100	24 800	260	49 600	4 960
0125	35 500	372	71 000	7 100
0140	47 900	502	95 800	9 580
0160	57 000	597	114 000	11 400
0180	83 500	877	167 000	16 700
0190	117 000	1 230	234 000	23 400
0215	146 000	1 530	292 000	29 200
0260	169 000	1 770	338 000	33 800

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