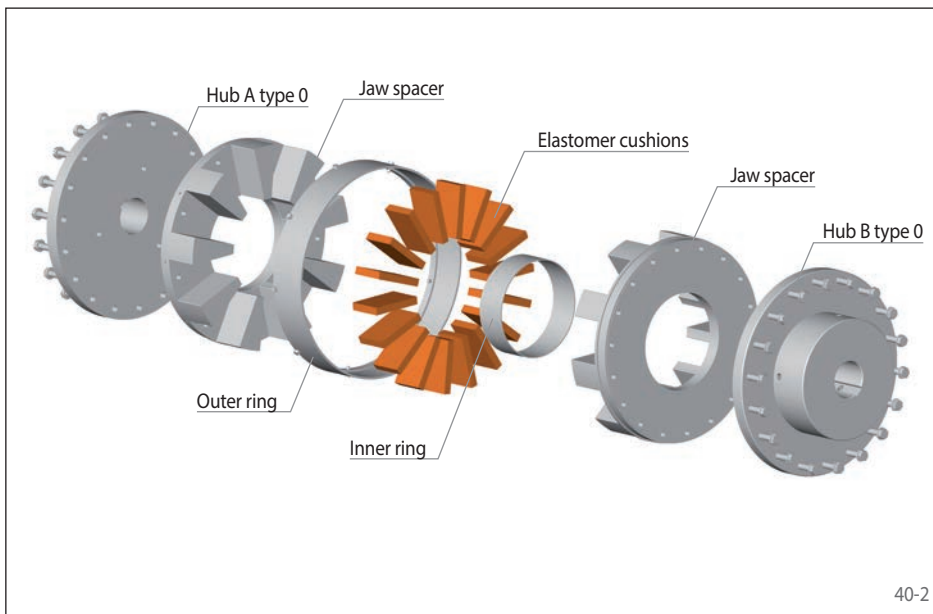


# Jaw Couplings REK ... DQO

elastic for dynamic applications  
with radially mountable elastomer cushions



40-1



40-2



40-3

## 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

## Order example

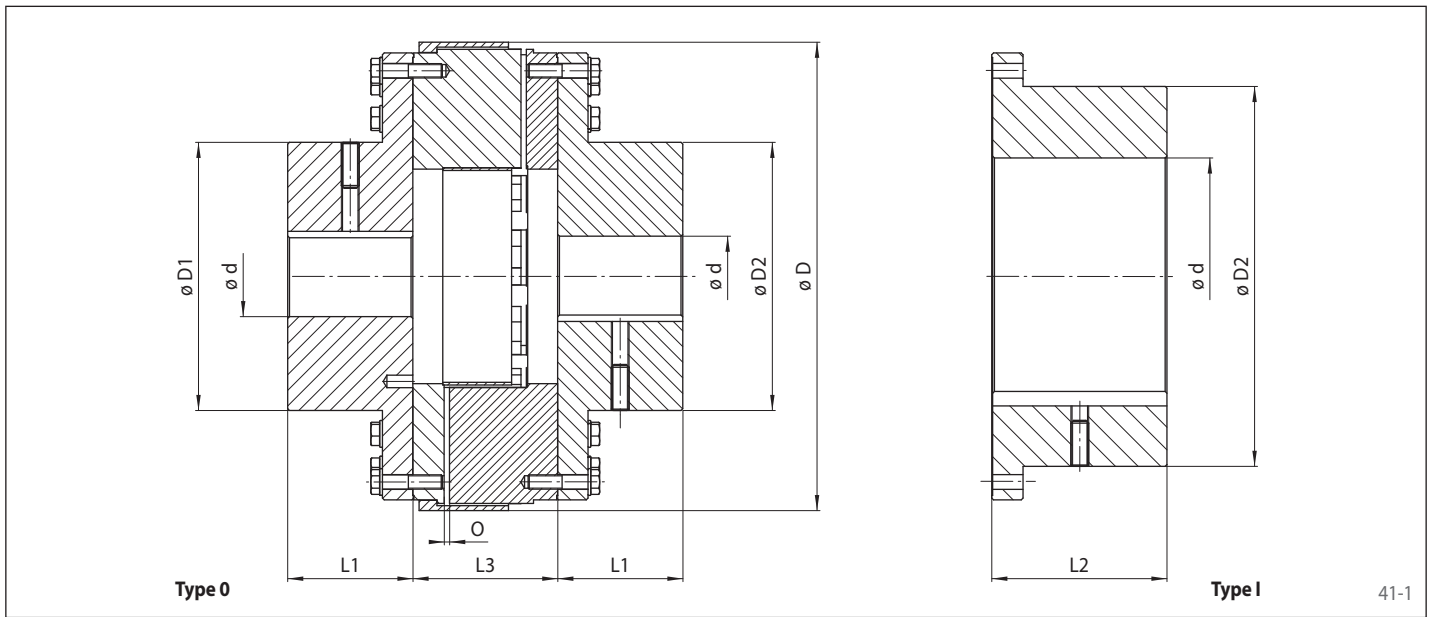
	Code
Coupling design	REK
Coupling size	0075
Type	DQO
Material of the hub*:	
• Cast iron	GJL
• Nodular cast iron	GJS
Hub A, type:	
• 0, standard	0
• I, extended, increased max. bore	1
Hub A, design:	
• finish bored with keyway	FB
• roughbored	VA
Bore diameter hub A	050
Hub B, type:	
• 0, standard	0
• 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

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

\* See opposite table for availability

# Jaw Couplings REK ... DQO

elastic for dynamic applications  
with radially mountable elastomer cushions



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	2257	3385	$\pm 0,375$	0,1	0,25
0090	x	x	2047	3071	$\pm 0,375$		
0100	x	x	1880	2819	$\pm 0,375$		
0125	-	x	-	2544	$\pm 0,375$		
0140	-	x	-	2205	$\pm 0,375$		
0160	-	x	-	2150	$\pm 0,75$		
0180	-	x	-	1932	$\pm 0,75$		
0190	-	x	-	1693	$\pm 0,75$		
0215	-	x	-	1495	$\pm 0,75$		
0260	-	x	-	1354	$\pm 0,75$		

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	Hub type I	Hub type 0	Hub type I	Hub type 0	Hub type I								
	mm	mm	mm	mm	mm	mm								
0075	28	58	30	60	80	105	266	131	170	68	85	100	3	53,3
0090	33	58	35	60	85	115	292	138	180	76	95	110	3	68,3
0100	38	68	40	70	100	130	317	162	210	84	105	117	3	97,9
0125	48	83	50	85	120	155	349	195	248	95	120	126	3	102,2
0140	58	83	60	85	140	185	400	220	294	100	130	134	3	145,1
0160	68	88	70	90	145	190	412	230	305	110	140	133	6	152,8
0180	83	98	85	100	170	225	461	275	360	130	170	142	6	197,0
0190	88	98	90	100	190	265	524	300	425	140	195	162	6	287,7
0215	98	118	100	120	215	295	600	345	470	155	210	196	6	456,0
0260	108	168	110	170	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 size, see page 68.

## 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 $100 \text{ min}^{-1}$ $P_{K100}$	Max. torque $T_{Kmax}$	Alternating torque $T_{kW}$
	Nm	kW	Nm	Nm
0075	5300	56	10600	1060
0090	7100	75	14200	1420
0100	9900	104	19800	1980
0125	-	-	-	-
0140	-	-	-	-
0160	-	-	-	-
0180	-	-	-	-
0190	-	-	-	-
0215	-	-	-	-
0260	-	-	-	-

Coupling size	Nominal torque $T_{KN}$	Nominal power at $100 \text{ min}^{-1}$ $P_{K100}$	Max. torque $T_{Kmax}$	Alternating torque $T_{kW}$
	Nm	kW	Nm	Nm
0075	8000	84	16000	1600
0090	10600	112	21200	2120
0100	14800	156	29600	2960
0125	21200	223	42400	4240
0140	28800	302	57600	5760
0160	34100	358	68200	6820
0180	50000	527	100000	10000
0190	70000	738	140000	14000
0215	-	-	-	-
0260	-	-	-	-

## Elastomer cushions



### 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 $100 \text{ min}^{-1}$ $P_{K100}$	Max. torque $T_{Kmax}$	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