

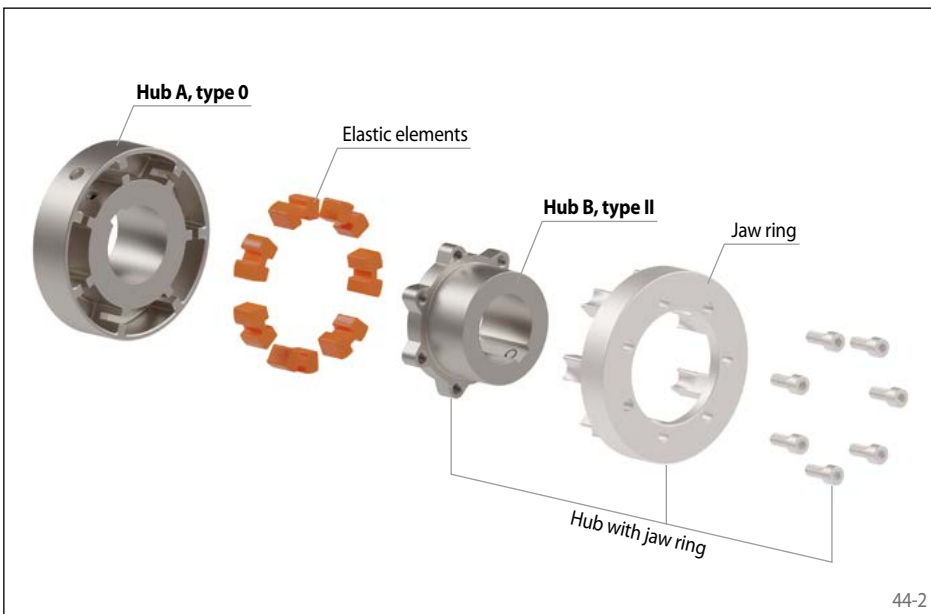
Jaw Couplings REK ... DHO

elastic for dynamic applications
with enclosed elastic elements and two piece hub



Features

- Compensation of axial, radial and angular misalignments
- Adsorbs vibrations
- Progressive torsion spring properties due to primarily pressurised elastic elements
- Fail-safe in the event of the failure of the elastic elements
- Easy replacement of elastic elements without disassembly of the coupling halves
- Maintenance free, no lubrication necessary
- Elastic elements can be replaced without moving the drive
- Complies with ATEX 2014/34/EU
- Typical application: Pump drives, ventilator drives, crane trolleys



Order example

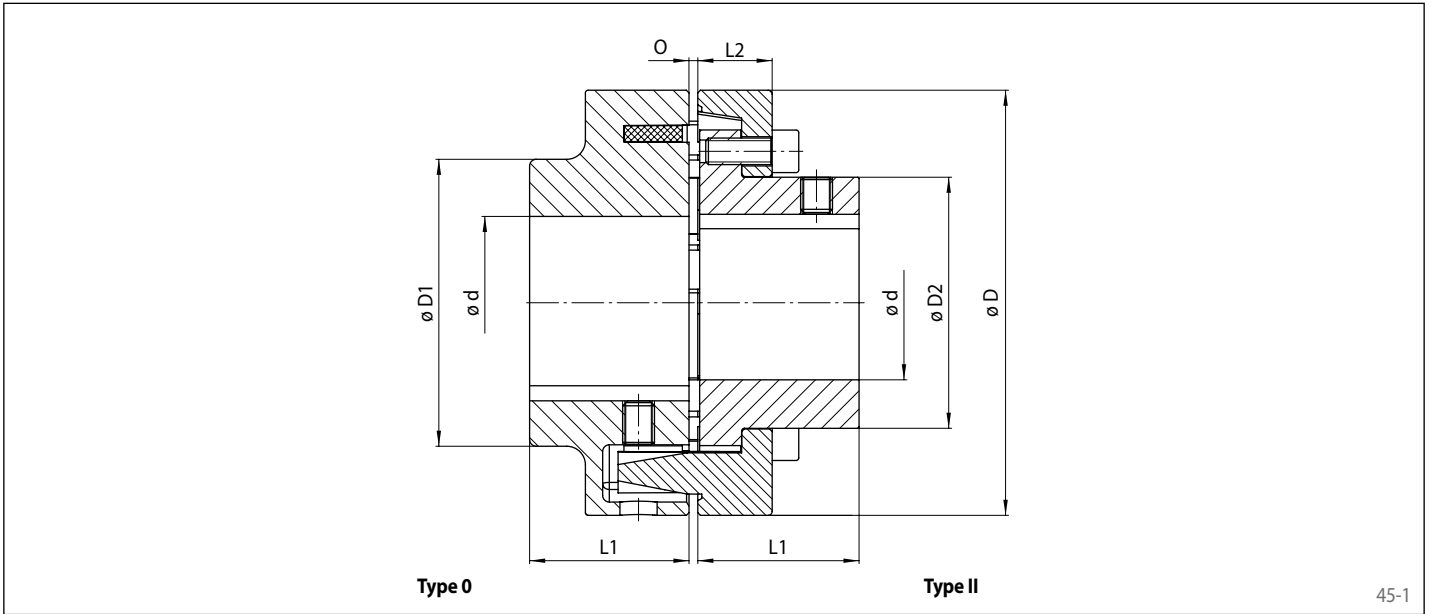
| | Code |
|--|----------------------|
| Coupling design | REK |
| Coupling size | 0048 |
| Type | DHO |
| Material of the hub: • Cast iron | GJL |
| Hub A, type: • 0, elastomer part | 0 |
| Hub A, design: • finish bored with keyway • roughbored | FB VA |
| Bore diameter hub A | 040 |
| Hub B, type: • II, two-part, hub with jaw ring | 2 |
| Hub B, design: • finish bored with keyway • roughbored | FB VA |
| Bore diameter hub B | 038 |
| Elastic elements: • NBR 75 Shore-A • PU 92 Shore-A • HTrans | NB75 PU92 HT00 |

REK 0048 DHO-GJL-0FB040-2FB038-NB75



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45-1

| Coupling size | Max. speed n_{max} min ⁻¹ | Moment of inertia with max. bore J_k kgm ² | Pilot bore d^* mm | Min. bore d^* mm | Max. bore d^* | | D mm | D1 mm | D2 mm | L1 mm | L2 mm | O mm | Permissible misalignments | | | Weight with max. bore kg |
|---------------|---|--|------------------------|-----------------------|------------------|-------------------|---------|----------|----------|----------|----------|---------|---------------------------|--------------|--------------|-----------------------------|
| | | | | | Hub type 0 mm | Hub type II mm | | | | | | | Axial mm | Radial mm | Angular ° | |
| 0048 | 5300 | 0,0047 | 13 | 14 | 48 | 38 | 110 | 86 | 62 | 40 | 20 | 2-4 | ± 1,5 | 0,4 | 1 | 3,5 |
| 0055 | 5100 | 0,0095 | 13 | 14 | 55 | 45 | 125 | 100 | 75 | 50 | 23 | 2-4 | | | | 5,6 |
| 0060 | 4900 | 0,0150 | 13 | 14 | 60 | 50 | 140 | 100 | 82 | 55 | 28 | 2-4 | | | | 7,0 |
| 0065 | 4250 | 0,0280 | 13 | 14 | 65 | 58 | 160 | 108 | 95 | 60 | 28 | 2-6 | | | | 9,8 |
| 0075 | 3800 | 0,0490 | 23 | 24 | 75 | 65 | 180 | 125 | 108 | 70 | 30 | 2-6 | | | | 14,2 |
| 0080 | 3400 | 0,0850 | 25 | 26 | 85 | 75 | 200 | 140 | 122 | 80 | 32 | 2-6 | | | | 19,8 |
| 0090 | 3000 | 0,1500 | 35 | 36 | 90 | 85 | 225 | 150 | 138 | 90 | 38 | 2-6 | | | | 27,0 |
| 0100 | 2750 | 0,2500 | 44 | 45 | 100 | 95 | 250 | 165 | 155 | 100 | 42 | 3-8 | | | | 37,0 |

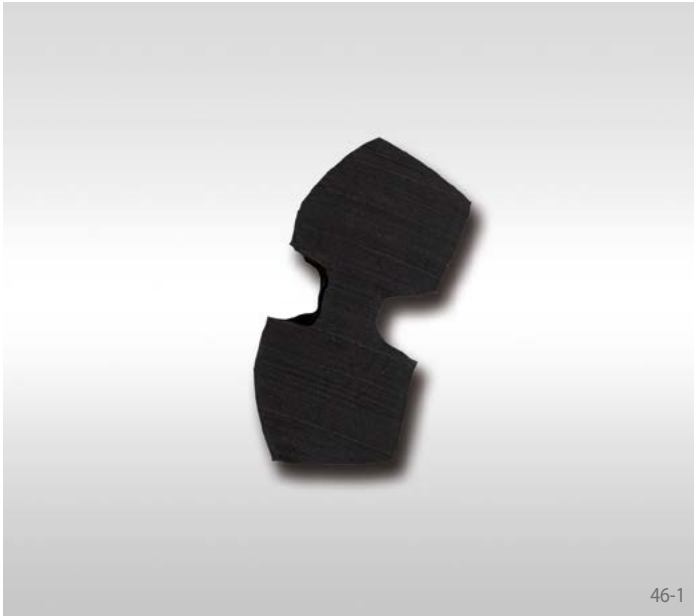
For finish bores, please specify bore diameter hub A and hub B. Tolerance of finish bores H7. Keyways in accordance with DIN 6885, sheet 1. Keyway tolerance JS9.

For vertical installation, please contact RINGSPANN.

See following pages for performance data.

* Bores also available in inch size, see page 65.

Elastic elements



Elastic element NBR 75 Shore-A

Material: Nitrile rubber
 Hardness: 75 ±5 Shore-A
 Temperature range: -40 °C to +100 °C
 Colour: black

Elastic element 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} Nm | Nominal power at 100 min^{-1} P_{K100} kW | Max. torque T_{Kmax} Nm | Alternating torque T_{KW} Nm | Torsional stiffness $C_{T \text{ dyn}}$ Nm/rad x 10^3 | | | Relative damping ψ at 0,5 T_{KN} |
|---------------|----------------------------------|--|---------------------------------|--------------------------------------|---|-----------------|------------------|---|
| | | | | | 1,0 T_{KN} | 0,5 T_{KN} | 0,25 T_{KN} | |
| 0048 | 160 | 1,7 | 480 | 24 | 19,0 | 6,8 | 2,7 | 2,2 |
| 0055 | 240 | 2,5 | 720 | 36 | 28,8 | 10,4 | 4,2 | |
| 0060 | 360 | 3,8 | 1080 | 54 | 42,0 | 15,0 | 6,0 | |
| 0065 | 560 | 5,9 | 1680 | 84 | 77,0 | 28,0 | 11,0 | |
| 0075 | 880 | 9,2 | 2640 | 132 | 145,5 | 58,1 | 26,9 | |
| 0080 | 1340 | 14 | 4020 | 201 | 228,0 | 91,0 | 42,0 | |
| 0090 | 2000 | 21 | 6000 | 300 | 341,8 | 122,0 | 63,0 | |
| 0100 | 2800 | 29 | 8400 | 420 | 472,0 | 169,0 | 87,0 | |

| Coupling size | Nominal torque T_{KN} Nm | Nominal power at 100 min^{-1} P_{K100} kW | Max. torque T_{Kmax} Nm | Alternating torque T_{KW} Nm | Torsional stiffness $C_{T \text{ dyn}}$ Nm/rad x 10^3 | | | Relative damping ψ at 0,5 T_{KN} |
|---------------|----------------------------------|--|---------------------------------|--------------------------------------|---|-----------------|------------------|---|
| | | | | | 1,0 T_{KN} | 0,5 T_{KN} | 0,25 T_{KN} | |
| 0048 | 240 | 2,55 | 720 | 36 | 12,0 | 10,0 | 8,6 | 1,7 |
| 0055 | 360 | 3,75 | 1080 | 54 | 18,3 | 15,3 | 13,2 | |
| 0060 | 540 | 5,70 | 1620 | 81 | 27,0 | 22,0 | 19,0 | |
| 0065 | 840 | 8,85 | 2520 | 126 | 50,0 | 41,0 | 35,0 | |
| 0075 | 1320 | 13,80 | 3960 | 198 | 99,2 | 71,5 | 54,0 | |
| 0080 | 2010 | 21,00 | 6030 | 302 | 155,0 | 112,0 | 84,0 | |
| 0090 | 3000 | 31,50 | 9000 | 450 | 230,4 | 182,1 | 134,4 | |
| 0100 | 4200 | 43,50 | 12600 | 630 | 318,0 | 252,0 | 186,0 | |

Elastic elements



Elastic element HTrans

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

| Coupling size | Nominal torque T_{KN} Nm | Nominal power at 100 min^{-1} P_{K100} kW | Max. torque T_{Kmax} Nm | Alternating torque T_{KW} Nm | Torsional stiffness $C_{T \text{ dyn}}$ Nm/rad x 10^3 | | | Relative damping ψ at 0,5 T_{KN} |
|---------------|----------------------------------|--|---------------------------------|--------------------------------------|---|-----------------|------------------|---|
| | | | | | 1,0 T_{KN} | 0,5 T_{KN} | 0,25 T_{KN} | |
| 0048 | 400 | 4,25 | 1200 | 60 | 31 | 47,4 | 16,244 | 0,8 |
| 0055 | 600 | 6,25 | 1800 | 90 | 47 | 49,7 | 45,314 | |
| 0060 | 900 | 9,50 | 2700 | 135 | 69 | 73,0 | 25,000 | |
| 0065 | 1400 | 14,75 | 4200 | 210 | 127 | 133,6 | 66,560 | |
| 0075 | 2200 | 23,00 | 6600 | 330 | 248 | 167,0 | 130,000 | |
| 0080 | 3350 | 35,00 | 10050 | 503 | 388 | 261,0 | 203,000 | |
| 0090 | 5000 | 52,50 | 15000 | 750 | 591 | 472,0 | 355,000 | |
| 0100 | 7000 | 72,50 | 21000 | 1050 | 817 | 652,0 | 491,000 | |