

Shrink Discs RLK 606

two-part design
high transmissible torques

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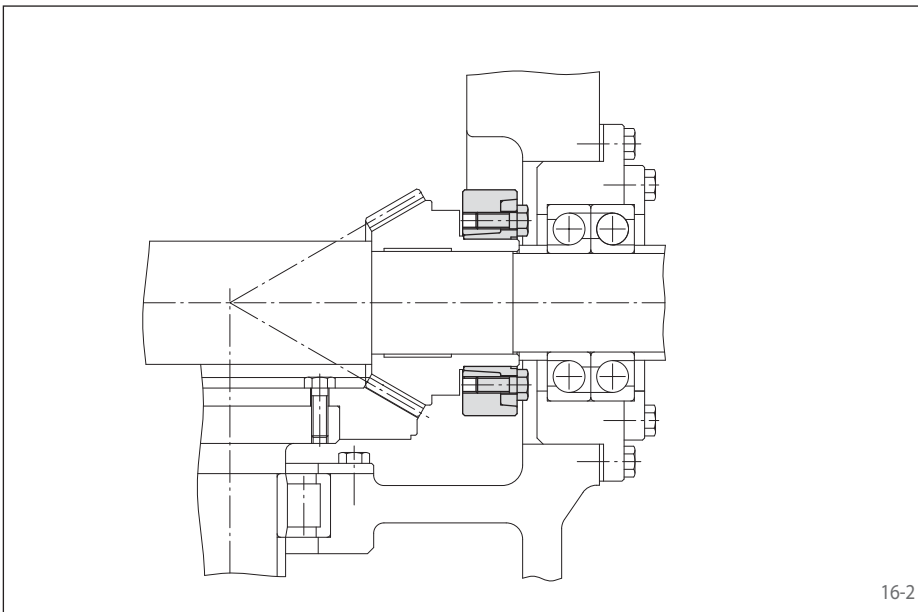
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Features

- High transmissible torques
- Easy, quick assembly by tightening clamping screws without a torque wrench
- Distance-controlled assembly ensures guaranteed transmissible torques
- Enclosed design, therefore impervious to dirt
- True running even at high speeds
- Centres the hollow shaft or hub to the shaft
- For hollow shafts or hubs with outer diameters of 24 mm up to 155 mm



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Application example

Backlash free connection of a bevel spur gear to a drive shaft of a gearbox with a Shrink Disc RLK 606. The backlash free connection permits extended reversing operations.

Transmissible torques and axial forces

The transmissible torques or axial forces listed on the following two pages are subject to the following tolerances, surface characteristics and material requirement. Please contact us in the case of deviations.

Tolerances

d_w		Hollow shaft bore ISO	Shaft ISO	Joint clearance	
> [mm]	≤ [mm]			min. [mm]	max. [mm]
24	30	H7	h6	0	0,034
30	50			0	0,041
50	80			0	0,049
80	120			0	0,057
120	155			0	0,065

Other fits may be selected, provided the joint clearance between the shaft and the hollow shaft remains within the indicated ranges.

Surfaces

Average surface roughness at the contact surfaces between the shaft and the hollow shaft $R_z = 10 \dots 25 \mu\text{m}$.

Materials

The following apply to the shaft and the hollow shaft:

- Yield strength $R_e \geq 340 \text{ N/mm}^2$
- E-module ca. 206 kN/mm^2

Installation

Please request our installation and operating instructions for Shrink Discs RLK 606.

Simultaneous transmission of torque and axial force

The transmissible torques M which are shown in the tables apply for axial forces $F = 0 \text{ kN}$ and conversely, the indicated axial forces F apply to torques $M = 0 \text{ Nm}$. If torque and axial force are to be transmitted simultaneously, the transmissible torque and the transmissible axial force are reduced. Please refer to the technical points on page 27.

Example for ordering

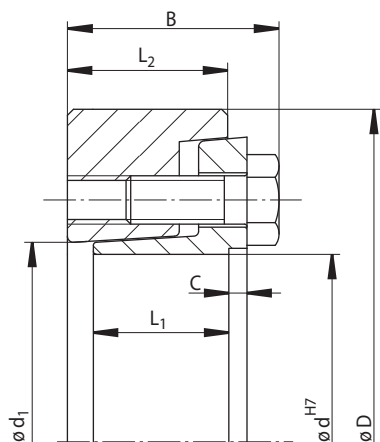
Shrink Disc RLK 606 for hollow shaft with an outer diameter $d = 100 \text{ mm}$:

- RLK 606-100
Article number 4200-100601-000000

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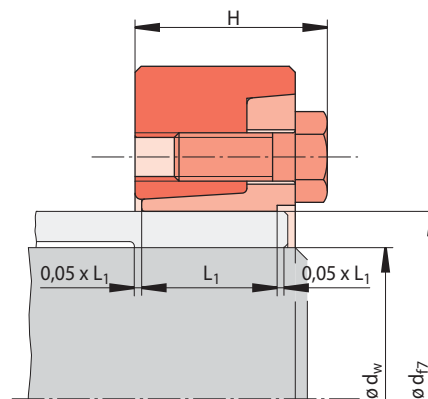
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Shrink Disc released

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Shrink Disc clamped

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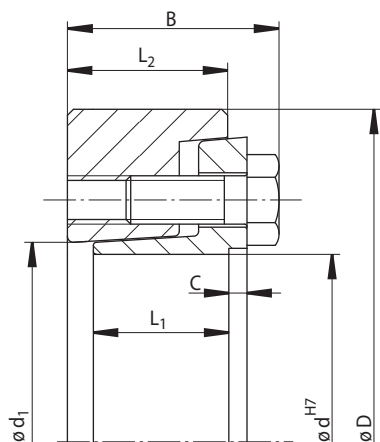
Dimensions									Technical Data				Weight		Article number
Size d mm	D mm	d ₁ mm	B mm	L ₁ mm	L ₂ mm	C mm	H mm	d _w * mm	Transmissible torque or axial force		Clamping screws			kg	
									M Nm	F kN	Number	Size	Length mm		
24	50	26	22	15	17	1	21,0	19 20 21	165 210 240	17 21 22	5	M 6	16	0,3	4200-024601-000000
30	60	32	24	17	19	1	23,0	24 25 26	280 330 370	23 26 28	6	M 6	16	0,3	4200-030601-000000
36	72	39	27,5	19	20,5	1	25,8	27 30 33	480 630 820	35 42 49	5	M 8	20	0,5	4200-036601-000000
40	80	47	29,5	20,5	22,5	1,5	27,8	30 32 34	480 580 700	32 36 41	6	M 8	20	0,6	4200-040601-000000
44	80	47	29,5	20,5	22,5	1,5	27,8	34 35 37	720 780 920	42 44 49	6	M 8	20	0,6	4200-044601-000000
50	90	53	31	22	24	1,5	29,3	38 40 42	1150 1300 1520	60 65 72	8	M 8	20	0,8	4200-050601-000000
55	100	58	34,5	24,5	27	1,5	32,3	42 45 48	1300 1600 1900	61 71 79	8	M 8	20	1,2	4200-055601-000000
62	110	66	34,5	24,5	27	1,5	32,3	48 50 52	1700 1950 2160	70 78 83	9	M 8	20	1,5	4200-062601-000000
68	115	72	35	24,5	27	1,5	32,3	50 55 60	1900 2500 3150	76 90 105	9	M 8	20	1,6	4200-068601-000000
75	138	79	38	25	28	2	34,4	55 60 65	2700 3400 4100	98 113 126	10	M 10	25	2,6	4200-075601-000000
80	141	84	38	25	28	2	34,4	60 65 70	3300 4100 4950	110 126 141	10	M 10	25	2,8	4200-080601-000000
90	155	94	45	31,5	35	2,5	41,4	65 70 75	5500 6600 7900	169 188 210	11	M 10	25	3,4	4200-090601-000000
100	170	104	50,5	36,5	40	2,5	46,4	70 75 80	6200 7400 8600	177 197 215	14	M 10	30	4,6	4200-100601-000000
110	185	114	57	40,5	45,5	3	53,0	80 85 90	10500 11800 13700	262 277 304	12	M 12	35	6,2	4200-110601-000000
120	197	124	61	45	49	3	56,5	85 90 95	12500 14100 16000	294 313 336	14	M 12	35	7,4	4200-120601-000000
125	215	134	61,5	45	49	3	56,5	90 95 100	14500 16600 18800	322 349 376	14	M 12	35	9,3	4200-125601-000000

* The shaft diameters d_w listed in the table are selected examples. For other shaft diameters d_w see the technical specifications on page 27.

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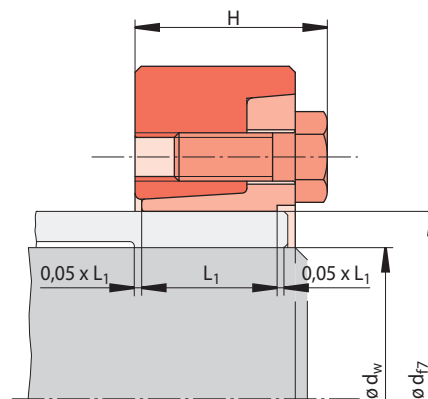
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Shrink Disc clamped

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Size d mm	D mm	d ₁ mm	B mm	L ₁ mm	L ₂ mm	C mm	H mm	d _w * mm	Transmissible torque or axial force		Clamping screws			Weight	
									M Nm	F kN	Number	Size	Length mm	kg	
130	215	134	61,5	45	49	3	56,5	95 100 110	17 000 18 400 22 000	357 368 400	14	M 12	35	8,7	4200-130601-000000
130	230	139	66,5	47	53	4	61,8	95 100 110	18 400 20 800 26 200	387 416 476	12	M 14	40	11,9	4200-130601-000001
140	230	144	67	47	53	4	61,8	100 105 115	19 900 22 200 27 800	398 422 483	12	M 14	40	11,0	4200-140601-000000
150	263	159	72	51	57	4	65,8	110 120 125	27 000 32 000 36 200	490 533 579	14	M 14	40	16,0	4200-150601-000000
155	263	159	72	51	57	4	65,8	110 120 125	27 000 32 000 36 200	490 533 579	14	M 14	40	16,0	4200-155601-000000

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