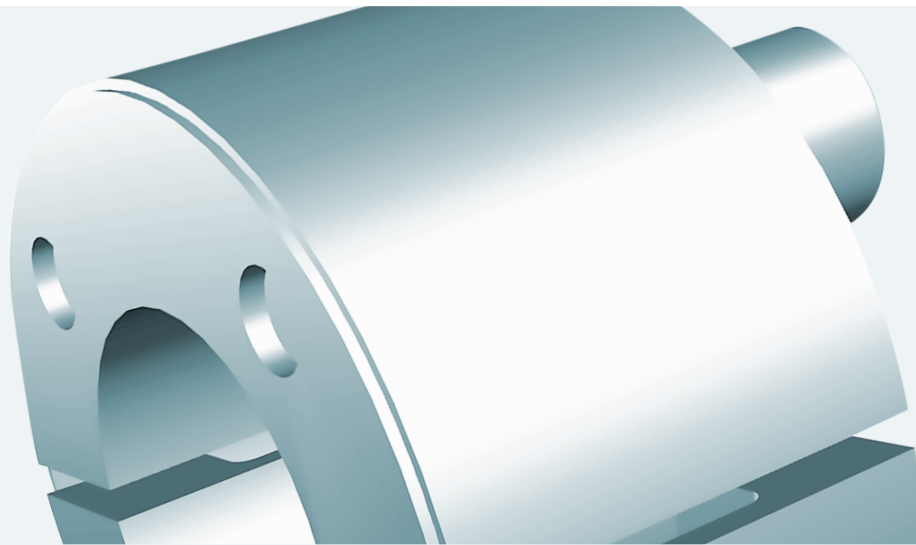


LOCKING ASSEMBLIES

DKWN



FEATURES

- › Simple design
- › Ideal stress distribution between shaft and hub
- › High transmittable torque
- › High concentricity
- › Forcing screw thread for simple release
- › No special tools required

FIT SIZES, SURFACE

- › Shaft and hub up to quality h9/H9
- › Depth of roughness shaft/hub $< 12 \mu\text{m}$
- › Rotation up to shafts- \varnothing 28 mm: 0.02 mm; from 30 mm: 0.04 mm

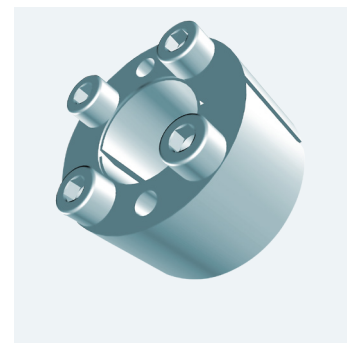
INSTALLATION

Engage the locking assembly slightly oiled, do not use MoS_2 or grease. Tighten screws, crosswise moved, to tightening torque in several steps. Important: the locking assembly must be located in the bore at least with the measure «L».

REMOVAL

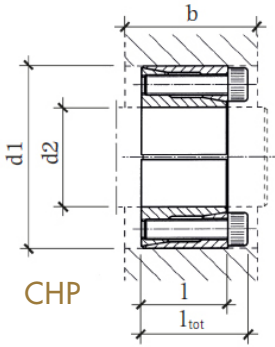
Loosen the screws crosswise, use fixed forcing threads if necessary.

TYPE



LOCKING ASSEMBLIES

DKWN



CALCULATION OF HUB OUTSIDE DIAMETER

Formula

$$D_N \geq D \cdot \sqrt{\frac{\sigma_{0.2N} + P_N \cdot C}{\sigma_{0.2N} - P_N \cdot C}}$$

C = 0.6 width of the hub design b = 2 × l

C = 1.0 width of the hub design b = l

Service factors

Type of machine	LOAD		
	permanent	pulsating	alternating
Electric motor	1	1.5	2
Piston type pumps, compressor	1.5	2.5	3

Part number	Dimensions				Transmittable		Surface pressure		Screw (DIN 912-12.9)		Tightening torque	Inertia	Weight
	d2	d1	l	l _{tot}	Drehmoment	Axialkraft	an Welle	an Nabe	Size	No.	m _e	J	m
					m _t	f _{ax}	P _w	P _N					
6109896	6	16	11	13.5	6	2	150	55	M2.5×10	3	1.2	0.005	0.012
6109895	6.35	16	11	13.5	6	2	140	55	M2.5×10	3	1.2	0.005	0.012
6109898	7	17	11	13.5	8	2	125	55	M2.5×10	3	1.2	0.006	0.013
6109899	8	18	11	13.5	10	2.5	110	50	M2.5×10	3	1.2	0.008	0.015
6109901	9	20	13	15.5	15	3	120	55	M2.5×12	4	1.2	0.013	0.020
6109900	9.53	20	13	15.5	15	3	110	55	M2.5×12	4	1.2	0.013	0.020
6109902	10	20	13	15.5	15	3	110	55	M2.5×12	4	1.2	0.013	0.019
6109903	11	22	13	15.5	18	3	100	50	M2.5×12	4	1.2	0.019	0.023
6109904	12	22	13	15.5	20	3	90	50	M2.5×12	4	1.2	0.018	0.022
6109906	14	26	17	20	35	5	105	55	M3×16	4	2.1	0.045	0.039
6109907	15	28	17	20	40	5	100	50	M3×16	4	2.1	0.059	0.044
6109908	16	32	17	21	70	8	130	65	M4×16	4	4.9	0.113	0.066
6109909	17	35	21	25	75	8	120	60	M4×20	4	4.9	0.183	0.092
6109910	18	35	21	25	80	8	115	60	M4×20	4	4.9	0.180	0.087
6109911	19	35	21	25	85	8	110	60	M4×20	4	4.9	0.176	0.084
6109912	20	38	21	26	150	15	140	75	M5×20	4	9.7	0.254	0.10
6109913	22	40	21	26	160	14	130	70	M5×20	4	9.7	0.306	0.11
6109914	24	47	26	32	250	20	140	75	M6×25	4	16.5	0.739	0.20
6109916	25	47	26	32	260	20	135	75	M6×25	4	16.5	0.727	0.19
6109915	25.4	47	26	32	265	20	130	75	M6×25	4	16.5	0.722	0.19
6109917	28	50	26	32	440	30	185	100	M6×25	6	16.5	0.910	0.22
6109919	30	55	26	32	470	30	175	95	M6×25	6	16.5	1.34	0.27
6109920	32	55	26	32	500	30	165	95	M6×25	6	16.5	1.29	0.25
6109921	35	60	31	37	730	40	165	95	M6×30	8	16.5	2.27	0.36
6109922	38	65	31	37	800	40	155	90	M6×30	8	16.5	3.15	0.43
6109923	40	65	31	37	840	40	145	90	M6×30	8	16.5	3.02	0.40
6109924	42	75	36	44	1200	55	165	90	M8×35	6	40	6.52	0.69
6109925	45	75	36	44	1300	55	155	90	M8×35	6	40	6.22	0.63
6109927	48	80	36	44	1850	75	195	115	M8×35	8	40	8.14	0.74
6109928	50	80	36	44	1900	75	185	115	M8×35	8	40	7.86	0.70

ORDERING EXAMPLE: Locking assembly DKWN 18-35, Part no. 6109910