



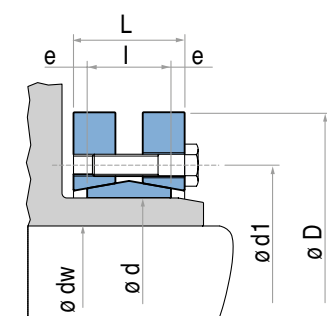
Rexnord Tollok Locking Assemblies



Shrink discs - Standard version

TLK 603

TLK 603 DIMENSIONS



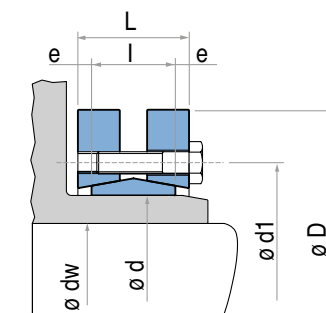
Type	Shaft diameter	Torque	Axial force	Dimensions					Tightening screws		Weight
									DIN931 10.9	Tightening torque	
d mm	dw mm	M _t Nm	F _{ax} kN	D mm	I mm	L mm	d1 mm	e mm	N° x Type	M _t Nm	Kg
14	11	30	6	38	7	11	23	2	4 x M5*	4	0,1
	12	50	9								
	13	70	10								
16	14	90	13	41	11	15	26	2	5 x M5*	4	0,1
	19	170	25								
24	20	210	27	50	14	19,5	36	2,75	6 x M5*	4	0,2
	21	250	29								
	24	300	29								
30	25	340	31	60	16	21,5	44	2,75	7 x M5*	4	0,3
	26	380	33								
	28	440	50								
36	30	570	58	72	18	23,5	52	2,75	5 x M6	12	0,4
	31	630	58								
	32	620	64								
44	35	780	74	80	20	25,5	61	2,75	7 x M6	12	0,6
	36	860	77								
	38	940	79								
50	40	1160	86	90	22	27,5	70	2,75	8 x M6	12	0,8
	42	1380	92								
	42	1160	79								
55	45	1520	88	100	23	30,5	75	3,75	8 x M6	12	1,1
	48	1880	97								
	48	1850	100								
62	50	2200	111	110	23	30,5	86	3,75	10 x M6	12	1,3
	52	2400	117								
	50	2000	97								
68	55	2500	106	115	23	30,5	86	3,75	10 x M6	12	1,4
	60	3150	120								
	55	2500	119								
75	60	3200	137	138	25	32,5	100	3,75	7 x M8	30	1,7
	65	3950	155								
	60	3200	124								
80	65	3900	140	145	25	32,5	100	3,75	7 x M8	30	1,9
	70	4600	158								
	65	4800	175								
85	70	6100	195	155	30	39	114	4,5	10 x M8	30	3,5
	75	7400	216								
	65	4750	170								
90	70	6000	190	155	30	39	114	4,5	10 x M8	30	3,3
	75	7250	210								
	70	6900	195								
100	75	7500	220	170	34	44	124	5	12 x M8	30	4,7
	80	9000	240								
	75	7200	229								
110	80	9000	252	185	39	50	136	5,5	9 x M10	59	5,9
	85	10800	262								
	80	7400	235								
115	85	9200	259	188	39	50	141	5,5	9 x M10	59	5,5
	90	11100	269								
	80	10600	285								
120	85	13300	314	215	42	54	160	6	12 x M10	59	9
	90	14500	340								
	85	11000	296								
125	90	13000	324	215	42	54	160	6	12 x M10	59	8,3
	95	15000	352								
	90	11300	304								
130	95	13300	333	215	42	54	160	6	12 x M10	59	8
	100	15400	362								
	95	15100	367								
140	100	17600	396	230	46	60,5	175	7,25	10 x M12	100	10
	105	20100	425								
	105	22000	447								
155	110	25000	478	265	50	64,5	192	7,25	12 x M12	100	15
	115	28000	509								
	110	22600	460								
160	115	25700	490	265	50	64,5	192	7,25	12 x M12	100	14,5
	120	28800	520								
	115	31000	595								
165	120	35000	630	290	56	71	210	7,5	8 x M16	250	22
	125	39000	655								

* 8.8.
Fortsetzung folgt.

TLK 603

TLK 603 DIMENSIONS

Type	Shaft diameter	Torque	Axial force	Dimensions					Tightening screws		Weight
									DIN931 10.9	Tightening torque	
d mm	dw mm	M _t Nm	F _{ax} KN	D mm	l mm	L mm	d1 mm	e mm	N° x Type	M _s Nm	Kg
170	120	31900	610								
	125	36000	640	290	56	71	210	7,5	8 x M16	250	21
	130	40100	670								
	125	36000	605								
175	130	41000	639	300	56	71	220	7,5	8 x M16	250	22
	135	45000	675								
	130	37000	800								
180	135	42200	840	300	56	71	220	7,5	8 x M16	250	21
	140	46300	885								
	135	52000	778								
185	140	57000	819	330	71	86	236	7,5	10 x M16	250	37
	145	62000	861								
	140	53500	800								
190	145	58700	840	330	71	86	236	7,5	10 x M16	250	36
	150	63800	885								
	140	65000	933								
195	150	76000	1025	350	71	86	246	7,5	12 x M16	250	41
	155	81500	1071								
	150	74000	990								
200	155	80000	1035	350	71	86	246	7,5	12 x M16	250	41
	160	86000	1080								
	160	95000	1190								
220	165	102000	1239	370	88	104	270	8	15 x M16	250	54
	170	110000	1290								
	170	120000	1464								
240	180	138000	1576	405	92	109	295	8,5	12 x M20	490	67
	190	156000	1675								
	190	164000	1760								
260	200	184000	1880	430	103	120	321	8,5	14 x M20	490	82
	210	205000	2010								
	210	217000	2090								
280	220	244000	2220	460	114	134	346	10	16 x M20	490	102
	230	270000	2350								
	230	275000	2431								
300	240	295000	2567	485	122	142	364	10	18 x M20	490	118
	245	315000	2636								
	240	312000	2647								
320	250	340000	2786	520	122	142	386	10	20 x M20	490	131
	260	374000	2900								
	250	390000	3119								
340	260	422500	3249	570	134	156	408	11	24 x M20	490	186
	270	460000	3400								
	270	442000	3276								
350	280	480000	3430	580	140	162	432	11	24 x M20	490	195
	285	500000	3500								
	280	463000	3310								
360	290	502000	3461	590	140	162	432	11	24 x M20	490	204
	295	522000	3536								
	290	567000	3910								
380	300	610000	4080	645	144	168	458	12	20 x M24	840	239
	310	658000	4248								
	300	624000	4160								
390	310	671000	4330	660	144	168	468	12	21 x M24	840	260
	320	718000	4484								
	315	670000	4260								
400	320	695000	4345	680	144	168	480	12	21 x M24	840	280
	330	744000	4500								
	330	780000	4850								
420	340	840000	5040	690	164	188	504	12	24 x M24	840	316
	350	900000	5220								
	340	806000	4740								
440	350	860000	4910	750	177	202	527	12,5	24 x M24	840	408
	360	917000	5090								
	360	1000000	5670								
460	370	1070000	5860	770	177	202	547	12,5	28 x M24	840	420
	380	1140000	6050								
	380	1170000	6150								
480	390	1240000	6350	800	188	213	570	12,5	30 x M24	840	505
	400	1310000	6550								

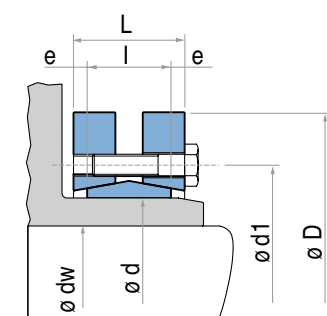


For larger diameter please contact us.

Shrink discs - Heavy version

TLK 602

TLK 602 DIMENSIONS



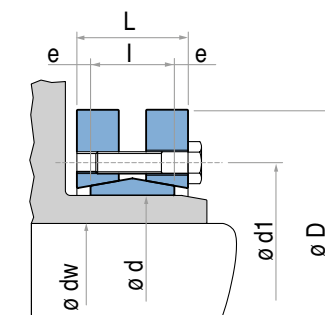
Type	Shaft diameter	Torque	Axial force	Dimensions					Tightening screws		Weight
									DIN931 10.9	Tightening torque	
d mm	dw mm	M _t Nm	F _{ax} KN	D mm	I mm	L mm	d1 mm	e mm	N° x Type	M _t Nm	Kg
125	85	15000	355	215	55	65	160	5	10 x M12	100	11
	90	17500	388								
	95	20000	422								
140	95	20600	433	230	60	74	175	7	12 x M12	100	13
	100	23500	469								
	105	26500	500								
155	105	28600	550	265	66	80	198	7	15 x M12	100	20
	110	32500	590								
	115	36400	630								
165	115	41000	740	290	72	88	210	8	10 x M16	250	26
	120	46000	785								
	125	50700	815								
175	125	47000	750	300	72	88	220	8	10 x M16	250	29
	130	52000	795								
	135	57000	840								
185	135	72000	1100	330	92	112	236	10	14 x M16	250	47
	140	78000	1150								
	145	86000	1200								
195	145	86000	1200	350	92	112	246	10	14 x M16	250	53
	140	75000	1075								
	150	88000	1180								
200	155	96000	1235	350	92	112	246	10	15 x M16	250	50
	145	85000	1170								
	150	92500	1230								
220	155	100000	1290	370	114	134	270	10	20 x M16	250	65
	160	127000	1590								
	165	136000	1650								
240	170	146500	1720	405	120	144	295	12	15 x M20	490	87
	170	155000	1820								
	180	176000	1960								
260	190	198000	2080	430	136	160	321	12	18 x M20	490	100
	190	213000	2260								
	200	240000	2420								
280	210	268000	2580	460	148	172	346	12	21 x M20	490	132
	210	285000	2740								
	220	320000	2910								
300	230	355000	3090	485	152	176	364	12	22 x M20	490	140
	230	341000	2960								
	240	376000	3130								
320	245	394000	3215	520	160	184	386	12	24 x M20	490	165
	240	378000	3150								
	250	415000	3325								
340	260	451000	3470	570	176	200	420	12	21 x M24	840	240
	250	489500	3910								
	270	530000	4075								
350	270	578000	4275	580	176	200	425	12	21 x M24	840	247
	270	556000	4122								
	280	604000	4320								
360	285	629000	4415	590	180	204	432	12	22 x M24	840	250
	280	612000	4370								
	290	663000	4570								
380	295	689000	4670	645	180	204	458	12	22 x M24	840	320
	290	618000	4270								
	300	668000	4455								
390	310	719000	4645	660	188	212	468	12	24 x M24	840	350
	300	708000	4715								
	310	762000	4910								
400	320	814500	5090	680	188	212	480	12	24 x M24	840	370
	315	765000	4855								
	320	788000	4927								
420	330	845000	5125	690	214	238	504	12	30 x M24	840	410
	330	999000	6055								
	340	1068000	6285								
440	350	1140000	6515	750	224	252	527	14	24 x M27	1250	525
	340	1058000	6230								
	350	1130000	6460								
460	360	1204000	6690	770	224	252	547	14	28 x M27	1250	540
	360	1320000	7440								
	370	1420000	7700								
	380	1500000	7950								

For larger diameter please contact us.

TLK 601

TLK 601 DIMENSIONS

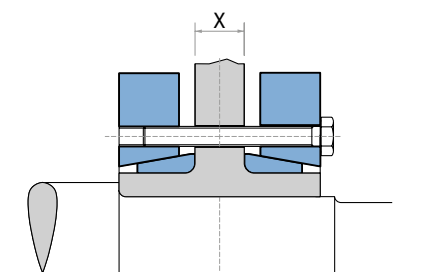
Type	Shaft diameter	Torque	Axial force	Dimensions					Tightening screws		Weight
									DIN931 10.9	Tightening torque	
d mm	dw mm	M _t Nm	F _{ax} KN	D mm	l mm	L mm	d1 mm	e mm	N° x Type	M _s Nm	Kg
125	95	10550	220								
	100	12100	240	185	39	51	158	6	8 x M10	59	6
	105	13800	260								
	110	14800	265								
140	120	18640	310	220	39	51	175	6	9 x M10	59	8
	125	20500	325								
	130	24000	365								
155	135	26400	390	245	39	51	192	6	11 x M10	59	10
	140	29000	410								
	135	32000	475								
165	140	35200	500	260	46	62	210	8	10 x M12	100	14
	145	38500	530								
	145	39000	535								
175	150	42400	560	275	46	62	220	8	11 x M12	100	16
	155	46000	590								
	155	46600	600								
185	160	50300	625	295	46	62	225	8	12 x M12	100	20
	165	54000	650								
	165	63000	760								
195	170	67700	795	315	56	72	237	8	15 x M12	100	27
	175	72500	825								
	175	74000	850								
200	180	79500	890	330	56	72	242	8	16 x M12	100	30
	185	84500	915								
	180	82800	920								
220	190	93500	980	345	66	84	265	9	10 x M16	250	35
	200	105000	1055								
	200	113000	1135								
240	210	127500	1210	370	66	84	290	9	12 x M16	250	44
	215	134500	1250								
	220	149000	1350								
260	230	165000	1435	395	72	92	310	10	14 x M16	250	48
	235	173000	1475								
	230	171000	1485								
280	240	189000	1570	425	84	104	333	10	16 x M16	250	60
	250	208000	1660								
	250	215000	1720								
300	260	234000	1800	460	84	104	358	10	18 x M16	250	75
	270	255000	1890								
	270	260000	1940								
320	280	284000	2030	495	84	106	378	11	20 x M16	250	84
	290	306000	2125								
	290	300000	2070								
340	300	324400	2160	535	84	106	402	11	21 x M16	250	100
	305	337000	2210								
	300	372000	2485								
350	305	385000	2540	545	100	122	413	11	16 x M20	490	120
	310	400000	2590								
	300	360000	2400								
360	310	388000	2500	555	100	122	423	11	16 x M20	490	125
	320	415000	2590								
	320	435000	2720								
380	325	451000	2780	585	112	136	442	12	18 x M20	490	150
	330	467000	2835								
	330	505000	3060								
390	340	540000	3175	595	112	136	452	12	20 x M20	490	156
	350	577000	3295								
	340	550000	3235								
400	350	587000	3360	615	112	136	462	12	21 x M20	490	170
	360	626000	3480								
	350	578000	3300								
420	360	617000	3425	630	120	144	485	12	22 x M20	490	185
	370	655000	3545								
	370	677000	3660								
440	380	719000	3785	660	120	144	505	12	24 x M20	490	205
	390	762000	3910								
	390	840000	4320								
460	400	890000	4460	685	132	158	527	13	28 x M20	490	235
	410	935000	4580								



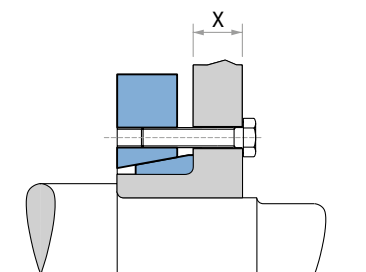
For larger diameter please contact us.

Shrink discs

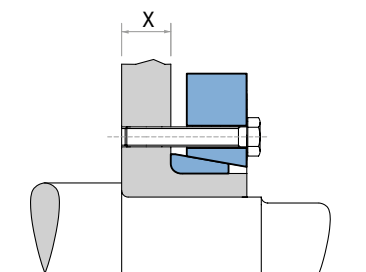
Special applications



Split version

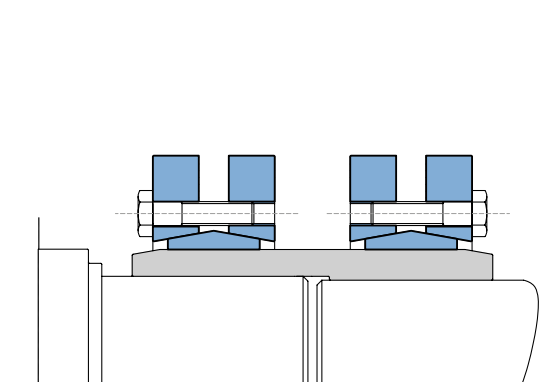


Half I version

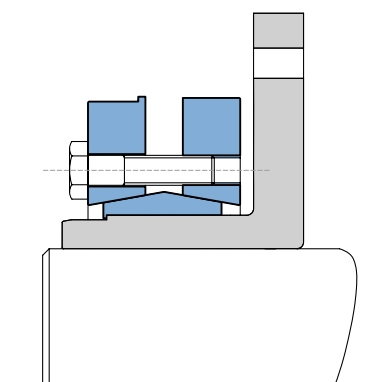


Half S version

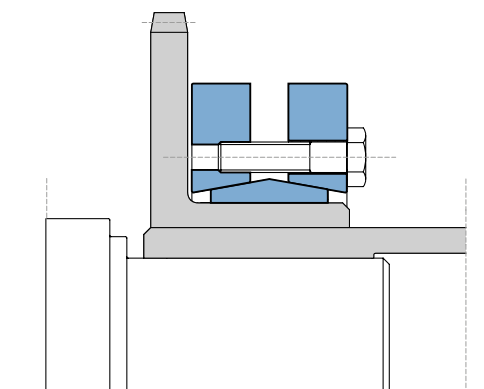
When ordering please specify X dimension



Use of model TLK 603 as coupling
between different size shafts



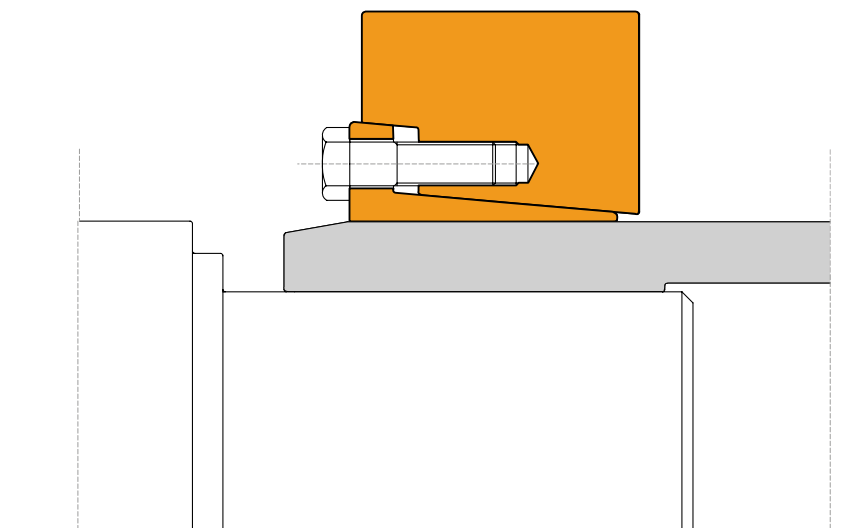
Special version equipped
with housing for brake



Contemporaneous locking of a sprocket and a hollow shaft.

Shrink discs

TLK 622
TLK 623
TLK 681
TLK 683



Characteristics

- Very high torques
- No shaft-hub axial movement
- Limited installation time
- Quick dismantling

Installation

Carefully clean the hub and shaft contact surfaces. Slide the shrink disc outside the hollow shaft. Tighten gradually and regularly in continuous sequence all screws to reach the tightening torque M_s indicated in the table.

To reach the required tightening torque M_s it is necessary to repeat the procedure more than once.

Do not use **molybdenum bisulphide** in the hub and shaft contact surfaces.

Dismantling

Loosen the clamping screws in a continuous and gradual sequence. Do not remove screws from threads. Normally with this operation the shrink disc is released.

In case of reuse, apply a solid lubricant (that can guarantee a friction coefficient equal to 0,04) in the screws and in the tapered surfaces.

Tolerances, surface finish

A good surface finish by the machine tool is sufficient.

Maximum allowable surface finish:

R_t max 16 μm (R_a 3 μm - R_z 13 μm)

Maximum permissible tolerances:

$d = f7$ for shaft

Dw diameter tolerances

dw: Up to 150 mm H7/h6

From 155 mm H7/g6

Axial movement

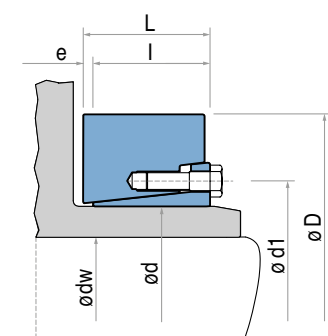
During screws tightening the hub has no axial movement with respect to the shaft.

Shrink discs

TLK 622

TLK 681

TLK 622 - TLK 681 DIMENSIONS



Type	Shaft diameter	TLK 622			TLK 681			Dimensions					Tightening screws DIN931	Weight
		Torque	Axial force	Tightening torque	Torque	Axial force	Tightening torque							
d mm	dw mm	M _t Nm	F _{ax} kN	M _s Nm	M _t Nm	F _{ax} kN	M _s Nm	D mm	I mm	L mm	d1 mm	e mm	Type	Kg
	9	20	5											
12	10	40	8	12				38	10	11	24	1	M6	0,1
	11	30	6											
14	12	50	9	12				38	10	11	26	1	M6	0,1
	13	70	10											
16	14	90	13	12				41	13,5	15	28	1,5	M6	0,1
	15	80	11											
18	16	110	14	12				44	13,5	15	30	1,5	M6	0,1
	17	150	18											
20	18	180	20	12				47	13,5	15	32	1,5	M6	0,1
	19	160	17											
24	20	210	20	12				50	16	18	36	2	M6	0,2
	22	280	25											
	24	270	23											
30	25	320	25	12				60	18	20	44	2	M6	0,3
	26	360	28											
	27	440	32											
36	30	610	41	30				72	20	22	52	2	M8	0,5
	33	820	50											
	34	690	41											
44	35	770	44	30				80	22	24	61	2	M8	0,6
	37	920	50											
	38	1110	58		1500	78								
50	40	1290	65	30	1700	85	35	90	23,5	26	68	2,5	M8	0,8
	42	1510	71		1900	93								
	42	1230	59		1600	78								
55	45	1530	68	30	2000	88	35	100	26	29	72	3	M8	1,1
	48	1860	78		2400	99								
	48	1670	70		2200	91								
62	50	1890	76	30	2400	98	35	110	26	29	80	3	M8	1,3
	52	2120	81		2700	104								
	50	1870	75		2400	94								
68	55	2450	89	30	3000	111	35	115	26	29	86	3	M8	1,3
	60	3120	104		3800	127								
	55	2330	85		3700	136								
75	60	3020	101	59	4700	157	70	138	27	31	100	4	M10	2,3
	65	3810	117		5800	178								
	60	3190	106		4200	142								
80	65	4060	123	59	5200	161	70	141	27	31	104	4	M10	2,3
	70	4910	140		6300	181								
	65	5400	166		5900	181								
90	70	6500	187	59	7100	203	70	155	34	38	114	4	M10	3,2
	75	7800	208		8500	226								
	70	6000	171		7400	213								
100	75	7200	192	59	8900	237	70	170	39	43	124	4	M10	4,3
	80	8500	213		10400	261								
	80	10000	249		12600	314								
110	85	11700	275	100	14600	344	121	185	43,5	49	138	5,5	M12	5,8
	90	13600	302		16900	375								
	85	11900	280		13600	320								
120	90	13800	307	100	15700	349	121	197	46,5	53	147	6,5	M12	6,9
	95	15900	334		18000	378								
	90	14400	319		16400	365								
125	95	16500	347	100	18800	395	121	215	46,5	53	152	6,5	M12	8,7
	100	18700	375		21300	426								
	95	18100	382		20300	427								
135	100	20600	412	160	23000	459	195	230	49,5	58	165	8,5	M14	11
	110	26000	473		28900	525								
	100	19600	392		23000	459								
140	105	22100	421	160	25800	492	195	230	49,5	58	170	8,5	M14	10
	115	27600	481		32100	558								
	110	26500	482		31100	565								
155	115	29500	514	160	34500	601	195	263	53,5	62	184	8,5	M14	15
	125	36100	578		42000	672								
	120	37300	622		44000	734								
165	125	41200	659	250	48500	776	300	290	58	68	198	10	M16	22
	135	49600	734		58100	860								
	130	45000	692		54000	834								
175	135	49000	730	250	59000	876	300	300	58	68	208	10	M16	23
	145	58000	805		70000	962								

To be continued...

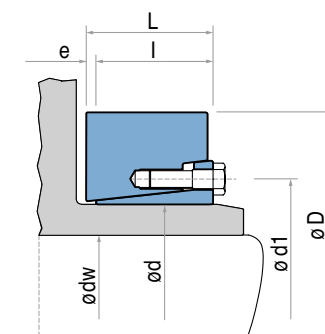
Shrink discs

TLK 622

TLK 681

TLK 622 - TLK 681 DIMENSIONS

Type	Shaft diameter	TLK 622			TLK 681			Dimensions					Tightening screws DIN931	Weight
		Torque	Axial force	Tightening torque	Torque	Axial force	Tightening torque							
d mm	dw mm	M _t Nm	F _{ax} KN	M _s Nm	M _t Nm	F _{ax} KN	M _s Nm	D mm	I mm	L mm	d1 mm	e mm	Type	Kg
185	140	64000	916		81000	1157								
	145	70000	961	250	88000	1210	300	320	75	85	222	10	M16	33
	155	82000	1053		102000	1319								
	150	81000	1073		96000	1279								
200	155	87000	1120	250	103000	1333	300	340	75	85	238	10	M16	36
	165	100000	1216		119000	1442								
	160	103000	1283		129000	1615								
220	170	119000	1395	490	149000	1749	570	370	91	103	268	12	M20	53
	180	136000	1509		169000	1883								
	170	122000	1439		151000	1773								
240	180	140000	1555	490	172000	1909	570	405	94	107	288	13	M20	66
	200	179000	1790		218000	2183								
	190	163000	1715		212000	2231								
260	200	184000	1842	490	238000	2385	570	430	105	119	312	14	M20	82
	220	231000	2099		297000	2696								
	210	215000	2051		279000	2661								
280	220	240000	2186	490	311000	2825	570	460	116	132	334	16	M20	103
	240	295000	2458		379000	3156								
	220	270000	2456		332000	3018								
300	230	300000	2605	840	367000	3193	980	485	124	140	360	16	M24	120
	250	363000	2906		443000	3545								
	240	301000	2511		404000	3370								
320	250	332000	2655	840	444000	3549	980	520	124	140	380	16	M24	138
	270	398000	2945		528000	3911								
	250	390000	3118		488000	3905								
340	260	427000	3283	840	533000	4101	980	570	137	155	402	18	M24	189
	280	506000	3617		630000	4498								
	270	493000	3649		616000	4563								
350	280	535000	3825	840	669000	4778	980	580	142	162	414	20	M24	202
	290	580000	4001		725000	5000								
	270	496000	3676		625000	4628								
360	280	539000	3852	840	677000	4839	980	590	142	162	424	20	M24	207
	300	631000	4206		790000	5264								
	290	585000	4034		725000	5000								
380	300	632000	4215	1250	783000	5220	1450	640	146	166	454	20	M27	244
	310	681000	4397		844000	5445								
	290	640000	4411		781000	5384								
390	300	691000	4605	1250	842000	5611	1450	650	146	166	454	20	M27	249
	320	799000	4996		971000	6069								
	320	742000	4640		969000	6057								
420	330	797000	4829	1250	1038000	6290	1450	670	166	186	486	20	M27	285
	350	912000	5209		1183000	6758								
	340	945000	5557		1212000	7128								
440	350	1009000	5764	1250	1292000	7382	1450	720	174	194	506	20	M27	357
	370	1143000	6181		1460000	7891								
	360	1104000	6133		1393000	7739								
460	370	1174000	6345	1250	1479000	7995	1450	770	174	194	534	20	M27	419
	390	1320000	6771		1660000	8511								
	380	1300000	6843		1657000	8721								
480	390	1378000	7066	1640	1754000	8993	1970	800	191	213	552	22	M30	492
	410	1541000	7516		1956000	9542								
	400	1496000	7478		1887000	9435								
500	410	1581000	7711	1640	1992000	9717	1970	850	191	213	572	22	M30	567
	430	1759000	8180		2211000	10283								
	430	1930000	8976		2397000	11150								
530	440	2031000	9234	1640	2521000	11459	1970	910	216	238	606	22	M30	744
	460	2243000	9752		2778000	12078								
	450	2097000	9318		2545000	11313								
560	460	2201000	9572	1640	2671000	11611	1970	940	216	238	632	22	M30	776
	480	2420000	10081		2930000	12210								
	470	2593000	11032		2969000	12636								
590	480	2715000	11314	1640	3108000	12952	1970	960	235	260	664	25	M30	835
	500	2970000	11881		3397000	13587								
	500	2904000	11616		3402000	13608								
620	520	3169000	12190	1640	3708000	14261	1970	1020	261	286	706	25	M30	1064
	540	3447000	12767		4028000	14918								



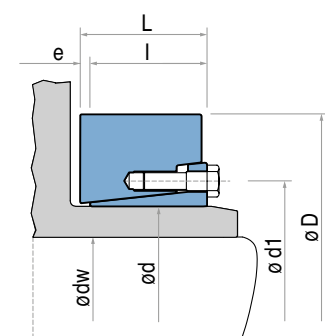
For larger diameter please contact us.

Shrink discs

TLK 623

TLK 683

TLK 623 - TLK 683 DIMENSIONS



Type	Shaft diameter	TLK 623			TLK 683			Dimensions					Tightening screws DIN931	Weight
		Torque	Axial force	Tightening torque	Torque	Axial force	Tightening torque							
d mm	dw mm	M _t Nm	F _{ax} KN	M _s Nm	M _t Nm	F _{ax} KN	M _s Nm	D mm	I mm	L mm	d1 mm	e mm	Type	Kg
140	100	26000	523		30000	607								
	105	30000	562	250	34000	650	300	230	64	74	174	10	M16	13
	115	37000	641		42000	737								
	110	36000	646		45000	810								
155	115	40000	687	250	49000	860	300	263	70	80	194	10	M16	19
	125	48000	772		60000	959								
	120	50000	828		63000	1047								
165	125	55000	877	250	69000	1105	300	290	77	88	204	11	M16	26
	135	66000	977		83000	1223								
	130	61000	943		73000	1121								
175	135	67000	993	250	80000	1178	300	300	77	88	214	11	M16	27
	145	79000	1094		94000	1292								
	140	89000	1269		106000	1512								
185	145	96000	1330	490	115000	1582	570	320	100	112	232	12	M20	40
	155	113000	1455		134000	1723								
	150	104000	1391		126000	1685								
200	155	113000	1453	490	136000	1757	570	340	100	112	246	12	M20	44
	165	130000	1577		157000	1900								
	160	127000	1591		162000	2027								
220	165	137000	1661	490	174000	2112	570	370	121	134	266	13	M20	64
	180	169000	1876		213000	2366								
	170	157000	1847		206000	2424								
240	180	180000	1996	490	235000	2607	570	405	130	144	286	14	M20	81
	200	230000	2300		298000	2978								
	190	230000	2424		285000	3000								
260	200	260000	2600	490	321000	3207	570	430	144	160	306	16	M20	102
	220	325000	2957		399000	3623								
	210	306000	2918		361000	3435								
280	220	342000	3105	840	401000	3646	980	460	156	172	334	16	M24	126
	240	418000	3485		489000	4074								
	230	360000	3132		461000	4010								
300	240	398000	3314	840	508000	4230	980	485	158	176	354	18	M24	141
	250	437000	3498		556000	4452								
	240	430000	3580		512000	4269								
320	250	473000	3781	840	562000	4498	980	520	166	184	374	18	M24	171
	270	565000	4186		670000	4960								
	250	551000	4407		661000	5288								
340	260	603000	4637	1250	722000	5552	1450	570	186	206	404	20	M27	235
	280	714000	5100		852000	6086								
	270	671000	4969		763000	5654								
360	280	729000	5204	1250	828000	5914	1450	590	188	210	424	22	M27	251
	300	852000	5679		966000	6438								
	290	850000	5860		978000	6743								
390	300	917000	6116	1250	1054000	7029	1450	650	196	220	456	24	M27	324
	320	1061000	6633		1217000	7606								
	320	1007000	6294		1297000	8106								
420	330	1080000	6547	1250	1389000	8416	1450	690	221	246	486	25	M27	409
	350	1235000	7058		1582000	9040								
	340	1218000	7166		1583000	9312								
440	350	1301000	7433	1640	1687000	9642	1970	750	233	258	514	25	M30	526
	370	1475000	7972		1907000	10306								
	360	1402000	7791		1734000	9632								
460	370	1491000	8062	1640	1841000	9953	1970	770	233	258	534	25	M30	544
	390	1678000	8606		2067000	10599								
	380	1707000	8984		2076000	10926								
480	390	1809000	9277	1640	2198000	11270	1970	800	270	298	552	28	M30	642
	410	2023000	9867		2452000	11961								
	400	1993000	9963		2529000	12645								
500	410	2106000	10273	1640	2669000	13021	1970	850	270	300	572	30	M30	741
	430	2342000	10895		2962000	13777								
	430	2549000	11857		3093000	14385								
530	440	2683000	12196	2210	3252000	14782	2650	890	306	338	616	32	M33	899
	460	2962000	12878		3584000	15581								
	450	2837000	12609		3439000	15284								
560	460	2978000	12950	2210	3607000	15683	2650	940	306	338	646	32	M33	1000
	480	3272000	13634		3956000	16485								

For larger diameter please contact us.

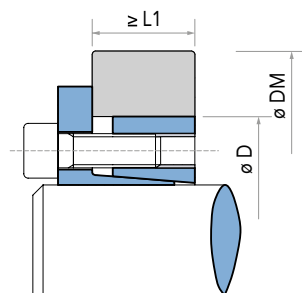
This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Locking Assemblies

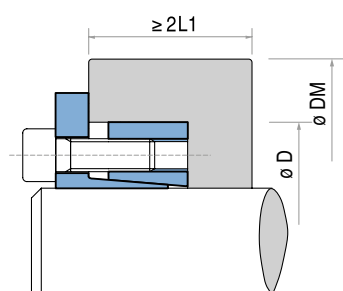
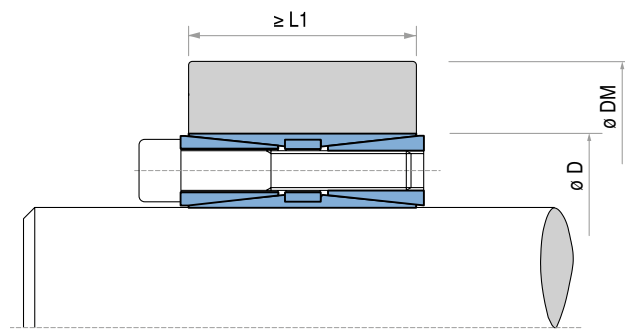
Calculation of minimum hub diameter DM

By installing TOLLOK locking assemblies the surface pressure P_n , existing between the clamping outer ring and related hub bore, generate a stress. To calculate the minimum hub diameter **DM** the formula normally

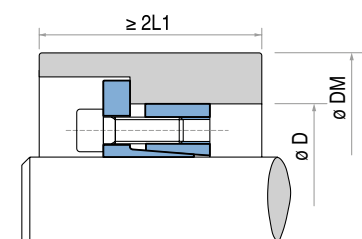
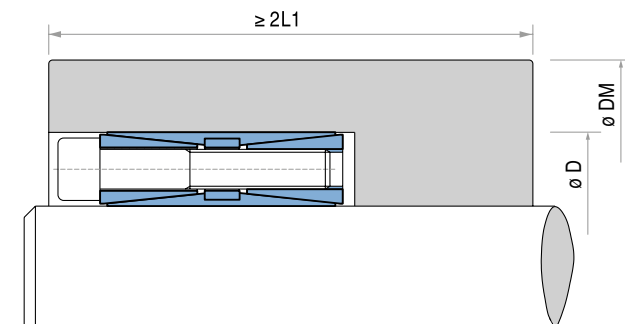
used for thick hollow cylinder is valid. Depending from hub shape and length with respect to the dimension **L1** of locking assemblies, the real stresses change. Factor **C** must be considered in function of application type.



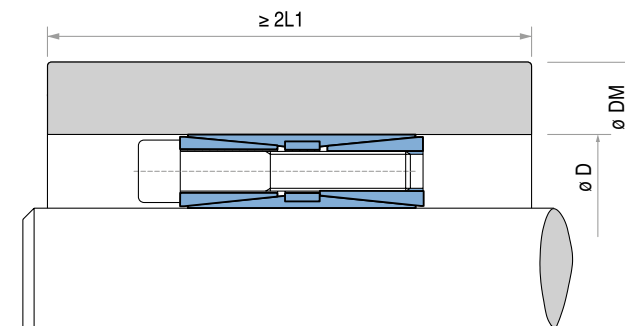
C=1



C=0,8



C=0,6



For minimum hub diameter **DM** calculation following formula must be applied:

$$DM \geq D \cdot K$$

where **K** is equal to: $K = \sqrt{\frac{\sigma_{02} + (C \cdot P_n)}{\sigma_{02} - (C \cdot P_n)}}$

To simplify the calculation our technical department has prepared the table on page 47.

Example:

Locking Assembly type TOLLOK TLK 131 ø 60x90.

Hub pressure $P_n = 83 \text{ N/mm}^2$ (see table page 11).

Hub material GGG40 (yielding limit $\sigma_{02} = 250 \text{ N/mm}^2$).

Hub length and shape equivalent $C = 1$.

$$DM \geq 90 \cdot 1,42 \geq 127,8 \text{ mm}$$

Calculation of minimum hub diameter DM

TABLE OF COEFFICIENT K

Pressure generated on the hub		σ_{02} Yield point N/mm ²										
		150	180	200	220	250	270	300	350	400	450	600
p N/mm ²	Application Type C	GG20	GG25 GS38	GG30 GTS35	GS45 ST37-2	GGG40 GS52	ST50-2 C35	GGG50 GS60 ST60-2	GGG60 GS62 ST70-2	GGG70 GS70 C60		
60	C = 0,6	1,28	1,25	1,20	1,18	1,15	1,14	1,12	1,10	1,09	1,08	1,06
	C = 0,8	1,39	1,30	1,24	1,23	1,22	1,20	1,18	1,15	1,12	1,11	1,08
	C = 1	1,52	1,42	1,36	1,32	1,28	1,25	1,22	1,18	1,16	1,14	1,10
65	C = 0,6	1,30	1,25	1,22	1,20	1,18	1,15	1,13	1,11	1,10	1,09	1,07
	C = 0,8	1,44	1,35	1,30	1,28	1,24	1,22	1,20	1,16	1,14	1,12	1,09
	C = 1	1,60	1,45	1,40	1,35	1,30	1,28	1,24	1,20	1,18	1,16	1,12
70	C = 0,6	1,34	1,26	1,24	1,22	1,18	1,16	1,15	1,12	1,11	1,10	1,07
	C = 0,8	1,48	1,38	1,34	1,30	1,25	1,23	1,20	1,18	1,15	1,13	1,10
	C = 1	1,65	1,50	1,45	1,40	1,34	1,30	1,26	1,22	1,20	1,17	1,13
75	C = 0,6	1,30	1,28	1,25	1,23	1,20	1,18	1,16	1,14	1,12	1,11	1,08
	C = 0,8	1,52	1,42	1,36	1,32	1,28	1,25	1,22	1,18	1,16	1,14	1,11
	C = 1	1,74	1,55	1,48	1,42	1,36	1,33	1,30	1,25	1,20	1,18	1,13
80	C = 0,6	1,39	1,31	1,28	1,25	1,21	1,20	1,18	1,15	1,13	1,11	1,08
	C = 0,8	1,58	1,45	1,39	1,35	1,30	1,27	1,24	1,20	1,18	1,15	1,11
	C = 1	1,81	1,61	1,53	1,46	1,39	1,36	1,31	1,26	1,22	1,20	1,14
85	C = 0,6	1,42	1,34	1,30	1,27	1,23	1,21	1,19	1,16	1,14	1,12	1,09
	C = 0,8	1,63	1,49	1,42	1,38	1,32	1,29	1,26	1,22	1,19	1,16	1,12
	C = 1	1,90	1,67	1,57	1,50	1,42	1,39	1,34	1,28	1,24	1,21	1,15
90	C = 0,6	1,46	1,36	1,32	1,28	1,25	1,22	1,20	1,17	1,15	1,13	1,09
	C = 0,8	1,69	1,53	1,46	1,40	1,34	1,31	1,28	1,23	1,20	1,18	1,13
	C = 1	2,00	1,73	1,62	1,54	1,46	1,41	1,36	1,30	1,26	1,22	1,16
95	C = 0,6	1,49	1,39	1,34	1,30	1,26	1,24	1,21	1,18	1,15	1,14	1,10
	C = 0,8	1,75	1,57	1,49	1,43	1,37	1,34	1,30	1,25	1,21	1,19	1,14
	C = 1	2,11	1,80	1,68	1,59	1,49	1,44	1,39	1,32	1,27	1,24	1,17
100	C = 0,6	1,53	1,41	1,36	1,32	1,28	1,25	1,22	1,19	1,16	1,14	1,11
	C = 0,8	1,81	1,61	1,53	1,46	1,39	1,36	1,31	1,26	1,22	1,20	1,14
	C = 1	2,24	1,87	1,73	1,63	1,53	1,48	1,41	1,34	1,29	1,25	1,18
105	C = 0,6	1,56	1,44	1,39	1,34	1,29	1,27	1,24	1,20	1,17	1,15	1,11
	C = 0,8	1,88	1,66	1,56	1,50	1,42	1,38	1,33	1,28	1,24	1,21	1,15
	C = 1	2,38	1,95	1,79	1,68	1,56	1,51	1,44	1,36	1,31	1,27	1,19
110	C = 0,6	1,60	1,47	1,41	1,36	1,31	1,28	1,25	1,21	1,18	1,16	1,12
	C = 0,8	1,96	1,71	1,60	1,53	1,44	1,41	1,35	1,29	1,25	1,22	1,16
	C = 1	2,55	2,04	1,86	1,73	1,60	1,54	1,47	1,38	1,33	1,28	1,20
115	C = 0,6	1,64	1,50	1,43	1,36	1,33	1,30	1,26	1,22	1,19	1,17	1,12
	C = 0,8	2,04	1,76	1,64	1,56	1,47	1,43	1,37	1,31	1,26	1,23	1,17
	C = 1	2,75	2,13	1,93	1,79	1,64	1,58	1,50	1,41	1,34	1,30	1,21
120	C = 0,6	1,69	1,53	1,46	1,40	1,34	1,31	1,28	1,23	1,20	1,18	1,13
	C = 0,8	2,13	1,81	1,69	1,60	1,50	1,45	1,39	1,33	1,28	1,24	1,18
	C = 1	3,00	2,24	2,00	1,84	1,69	1,61	1,53	1,43	1,36	1,31	1,22
125	C = 0,6	1,73	1,56	1,48	1,43	1,36	1,33	1,29	1,24	1,21	1,18	1,13
	C = 0,8	2,24	1,87	1,73	1,63	1,53	1,48	1,41	1,34	1,29	1,25	1,18
	C = 1	3,32	2,35	2,08	1,91	1,73	1,65	1,56	1,45	1,38	1,33	1,24
130	C = 0,6	1,78	1,59	1,51	1,45	1,38	1,35	1,30	1,25	1,22	1,19	1,14
	C = 0,8	2,35	1,93	1,78	1,67	1,56	1,50	1,44	1,36	1,30	1,27	1,19
	C = 1	3,74	2,49	2,17	1,97	1,78	1,69	1,59	1,48	1,40	1,35	1,25
135	C = 0,6	1,83	1,62	1,54	1,47	1,40	1,36	1,32	1,27	1,23	1,20	1,15
	C = 0,8	2,48	2,00	1,83	1,71	1,59	1,53	1,46	1,38	1,32	1,28	1,20
	C = 1	4,36	2,65	2,27	2,04	1,83	1,73	1,62	1,50	1,42	1,36	1,26
140	C = 0,6	1,88	1,66	1,56	1,50	1,42	1,38	1,33	1,28	1,24	1,21	1,15
	C = 0,8	2,63	2,07	1,88	1,75	1,62	1,55	1,48	1,39	1,33	1,29	1,21
	C = 1	5,39	2,83	2,38	2,12	1,88	1,78	1,66	1,53	1,44	1,38	1,27
145	C = 0,6	1,94	1,69	1,59	1,52	1,44	1,40	1,35	1,29	1,25	1,22	1,16
	C = 0,8	2,80	2,15	1,94	1,80	1,65	1,58	1,50	1,41	1,35	1,30	1,22
	C = 1	7,68	3,05	2,50	2,21	1,94	1,82	1,69	1,55	1,46	1,40	1,28
150	C = 0,6	2,00	1,73	1,62	1,54	1,46	1,41	1,36	1,30	1,26	1,23	1,16
	C = 0,8	3,00	2,24	2,00	1,84	1,69	1,61	1,53	1,43	1,36	1,31	1,23
	C = 1	-	3,32	2,65	2,30	2,00	1,87	1,73	1,58	1,48	1,41	1,29
155	C = 0,6	2,06	1,77	1,65	1,57	1,48	1,43	1,38	1,31	1,27	1,24	1,17
	C = 0,8	3,25	2,33	2,06	1,89	1,72	1,65	1,55	1,45	1,38	1,33	1,23
	C = 1	-	3,66	2,80	2,40	2,06	1,92	1,77	1,61	1,51	1,43	1,30
160	C = 0,6	2,13	1,81	1,69	1,60	1,50	1,45	1,39	1,33	1,28	1,24	1,18
	C = 0,8	3,55	2,43	2,13	1,94	1,76	1,67	1,58	1,47	1,39	1,34	1,24
	C = 1	-	4,12	3,00	2,52	2,13	1,98	1,81	1,64	1,53	1,45	1,31
165	C = 0,6	2,21	1,86	1,72	1,62	1,52	1,47	1,41	1,34	1,29	1,25	1,18
	C = 0,8	3,96	2,55	2,21	2,00	1,80	1,71	1,60	1,49	1,41	1,35	1,25
	C = 1	-	4,80	3,23	2,65	2,21	2,04	1,86	1,67	1,55	1,47	1,33

Why Choose Rexnord?

When it comes to providing highly engineered products that improve productivity and efficiency for industrial applications worldwide, Rexnord is the most reliable in the industry. Commitment to customer satisfaction and superior value extend across every business function.

Delivering Lowest Total Cost of Ownership

The highest quality products are designed to help prevent equipment downtime and increase productivity and dependable operation.

Valuable Expertise

An extensive product offering is accompanied by global sales specialists, customer service and maintenance support teams, available anytime.

Solutions to Enhance Ease of Doing Business

Commitment to operational excellence ensures the right products at the right place at the right time.

REXNORD

Rexnord Company Overview

Rexnord is a growth-oriented, multi-platform industrial company with leading market shares and highly trusted brands that serve a diverse array of global end markets.

Process & Motion Control

The Rexnord Process & Motion Control platform designs, manufactures, markets and services specified, highly engineered mechanical components used within complex systems where our customers' reliability requirements and the cost of failure or downtime are extremely high.

Water Management

The Rexnord Water Management platform designs, procures, manufactures and markets products that provide and enhance water quality, safety, flow control and conservation.