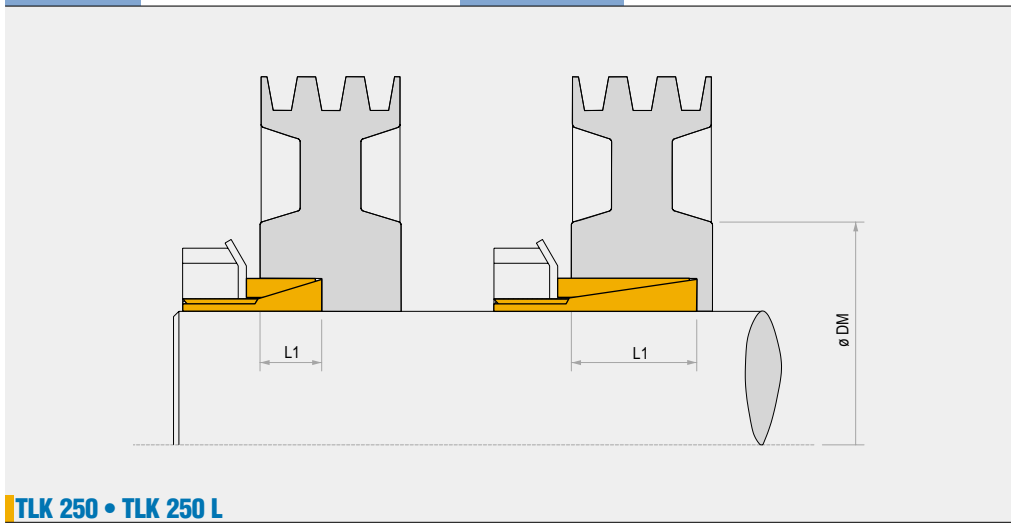


Locking assemblies

TLK 250 not self-centering

TLK 250 L self-centering



Characteristics

- Medium-low torque
- Restricted hub diameter
- Limited installation time
- Application economically advantageous

Installation

Carefully clean the hub and shaft contact surfaces and apply a light oil film. Slide the locking assembly into the hub bore, insert the shaft and tighten the nut at tightening torque **Ms** as indicated in the table and fold down the security washer tooth if fitted. The values **Mt** and **F ass** indicated in the table are valid only in case of oil installation. Do not use any oil with **molybdenum bisulphide** or high pressure additives and not grease. Above substances notably reduce the friction coefficient.

Dismantling

Loosen the tightening collar. As the cone angle of TLK 250 is about 17°, the unit is self releasing. To avoid dismantling difficulties for model TLK 250 L, because of restricted angle, we recommend the use of mod. TLK 250.

Tolerances, surface finish

A good surface finish by machine tool is sufficient. Maximum allowable surface finish:
Rt max 16 µm (Ra 3 µm - Rz 13 µm)

Maximum permissible tolerances:
h8 for shaft
H8 for hub

Axial movement

TLK 250 + TLK 250L: during screws tightening the hub has a slight axial movement with respect to the shaft.

DM hub calculation

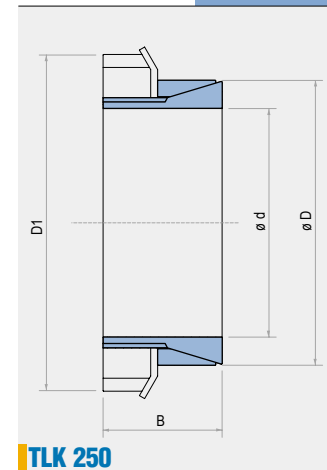
The pressure **Pn** in the hub can be compared to the inside pressure on a thick hollow cylinder.

For DM calculation see page 38.

Locking assembly not self-centering

TLK 250

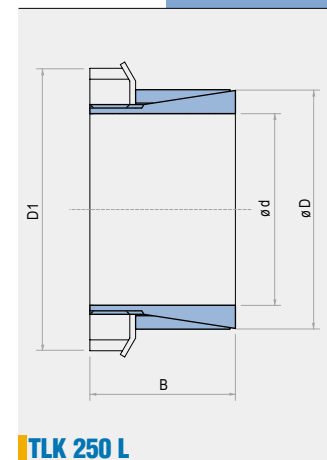
dxD mm	B mm	L1 mm	D1 mm	Mt Nm	Torque F ass. KN	Surface pressures on		Tightening nut Type	Tightening torque Ms Nm	Weight Kg
						Shaft pw N/mm ²	Hub pn N/mm ²			
14 x 25	16,5	6,5	32	38	5	200	110	KM4	95	0,05
15 x 25	16,5	6,5	32	41	5	185	110	KM4	95	0,05
16 x 25	16,5	6,5	32	43	5	174	110	KM4	95	0,04
17 x 30	18	6,5	38	55	6	197	112	KM5	160	0,08
18 x 30	18	6,5	38	58	6	186	112	KM5	160	0,08
19 x 30	18	6,5	38	62	7	176	112	KM5	160	0,08
20 x 30	18	6,5	38	66	7	167	111	KM5	160	0,07
22 x 35	18	6,5	45	96	8	202	127	KM6	220	0,1
24 x 35	18	6,5	45	105	9	185	127	KM6	220	0,09
25 x 35	18	6,5	45	110	9	178	127	KM6	220	0,09
28 x 40	19,5	7	52	150	10	176	123	KM7	340	0,07
30 x 40	19,5	7	52	160	11	164	123	KM7	340	0,07
32 x 45	21,5	8	58	210	12	167	120	KM8	480	0,18
35 x 45	21,5	8	58	230	13	153	120	KM8	480	0,17
36 x 45	21,5	8	58	240	13	149	120	KM8	480	0,15
38 x 52	24,5	10	65	290	14	126	93	KM9	680	0,25
40 x 52	24,5	10	65	310	15	120	93	KM9	680	0,24
42 x 57	25,5	10	70	370	17	131	96	KM10	870	0,3
45 x 57	25,5	10	70	400	18	122	96	KM10	870	0,28
48 x 62	25,5	10	75	500	21	135	105	KM11	970	0,32
50 x 62	25,5	10	75	520	21	130	105	KM11	970	0,3
55 x 68	27,5	12	80	610	22	103	84	KM12	1100	0,36
56 x 68	27,5	12	80	620	22	101	82	KM12	1100	0,34
60 x 73	28,5	12	85	800	27	113	93	KM13	1300	0,4
63 x 79	30,5	14	92	980	31	107	86	KM14	1600	0,56
65 x 79	30,5	14	92	1010	31	104	86	KM14	1600	0,52
70 x 84	31,5	14	98	1240	35	110	92	KM15	2000	0,6



Locking assembly self-centering

TLK 250 L

dxD mm	B mm	L1 mm	D1 mm	Mt Nm	Torque F ass. KN	Surface pressures on		Tightening nut Type	Tightening torque Ms Nm	Weight Kg
						Shaft pw N/mm ²	Hub pn N/mm ²			
14 x 25	30	20	32	64	9	85	45	KM4	95	0,08
15 x 25	30	20	32	70	9	80	45	KM4	95	0,08
16 x 25	30	20	32	73	9	75	45	KM4	95	0,07
17 x 25	32	20	32	80	9	70	45	KM4 *	95	0,07
18 x 30	32	20	38	100	10	80	45	KM5	160	0,12
19 x 30	32	20	38	105	11	75	45	KM5	160	0,12
20 x 30	32	20	38	112	11	70	45	KM5	160	0,11
22 x 35	36	25	45	163	14	70	45	KM6	220	0,18
24 x 35	36	25	45	178	14	65	45	KM6	220	0,16
25 x 35	36	25	45	185	14	60	45	KM6	220	0,15
28 x 40	42	30	52	250	17	55	40	KM7	340	0,24
30 x 40	42	30	52	270	17	50	40	KM7	340	0,21
32 x 45	44	30	58	350	21	60	45	KM8	480	0,32
35 x 45	44	30	58	390	21	55	45	KM8	480	0,26
38 x 50	45	30	65	500	26	60	45	KM9	680	0,35
40 x 50	45	30	65	520	26	55	45	KM9	680	0,33
42 x 55	46	30	70	630	30	65	50	KM10	870	0,43
45 x 55	46	30	70	680	30	60	50	KM10	870	0,39
48 x 60	46	30	75	840	35	60	50	KM11	970	0,45
50 x 60	46	30	75	880	35	60	50	KM11	970	0,4
55 x 65	46	30	80	1030	37	60	50	KM12	1100	0,44
60 x 70	52	30	85	1360	45	65	55	KM13	1300	0,55



* Without washer