

Locking Assemblies SIG

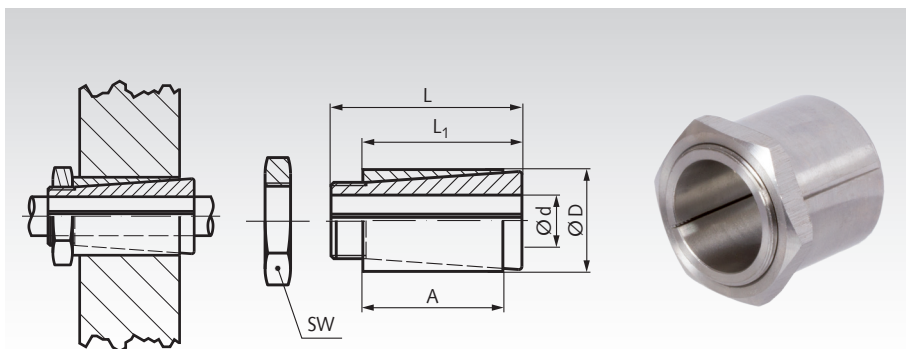
Material: Stainless steel 1.4301 (AISI 304).

- For fixing a hub (e.g. drive wheel, rotor or similar) on a shaft.
- For lower torques.
- Minimal space requirement.
- Self-centering.
- The connection can be disassembled with a puller.

Required tolerances: Shaft: h8.

Bore of the part to be clamped: H8.

Surface roughness R_z max. 12.5 μm .



Ordering Details: e.g.: Product No. 615 103 00, Locking Assembly SIG, 3 mm

Product No.	d mm	D mm	L mm	L ₁ mm	A mm	Torque T Nm	Thread	SW mm	Fastening Torque T _A Nm	Weight g
615 103 00	3	8	15	12,5	11	2,5	M6x0,5	8	4	4,0
615 104 00	4	8	15	12,5	11	3	M6x0,5	8	5	3,8
615 105 00	5	10	15	12,5	11	4	M8x0,5	10	5	6,5
615 106 00	6	10	15	12,5	11	7	M8x0,5	10	8	5,3
615 106 35	6,35	10	15	12,5	11	7	M8x0,5	10	8	5,0
615 107 00	7	12	15	12	11	8	M10x0,75	12	9	6,3
615 108 00	8	14	22	19	16,5	14	M12x1	16	15	17,5
615 109 00	9	14	22	19	16,5	14	M12x1	16	15	15,0
615 109 52	9,52	14	22	19	16,5	14	M12x1	16	15	12,8
615 110 00	10	17	22	18,5	16,5	18	M15x1	18	19	29,0
615 111 00	11	17	22	18,5	16,5	18	M15x1	18	19	28,0
615 112 00	12	17	22	18,5	16,5	18	M15x1	18	19	26,2
615 114 00	14	20	28	23	21	24	M17x1	20	25	35,3
615 115 00	15	20	28	23	21	24	M17x1	20	25	36,4
615 115 88	15,88	23	28	23	21	26	M20x1	26	27	48,4
615 116 00	16	23	28	23	21	26	M20x1	26	27	50,7
615 117 00	17	23	28	23	21	26	M20x1	26	27	45
615 118 00	18	25	28	23	21	29	M22x1	27	30	55
615 119 00	19	25	28	23	21	29	M22x1	27	30	50
615 120 00	20	28	28	23	21	31	M25x1	30	32	70
615 122 00	22	30	35	29	27	34	M26x1	32	36	75
615 124 00	24	32	35	29	27	45	M28x1	34	41	95
615 125 00	25	32	35	29	27	45	M28x1	34	42	90
615 128 00	28	36	35	29	27	48	M32x1	38	45	95
615 130 00	30	37	35	29	27	52	M33x1	38	47	105
615 132 00	32	41	40	32	29	57	M37x1,5	45	53	165
615 135 00	35	43	40	32	29	63	M39x1,5	48	57	179
615 138 00	38	48	40	32	29	84	M43x1,5	52	61	220
615 140 00	40	50	40	32	29	105	M45x1,5	55	64	249

Dimensioning

For the maximum torque, the shaft must be strong enough (min. strength 350 N/mm², for example C45).

The hub diameter must be big enough.

Recommend minimum hub diameter:

Hub from Steel: $ND = 1,4 \times D$.

Hub from grey cast iron: $ND = 2,0 \times D$.

Hub from Aluminium: $ND = 2,5 \times D$.

Mounting

- The locking assembly has to be mounted without lubrication to achieve the torques stated above.
- The locking assembly has to be fully in contact with the shaft.
- The locking assembly must not get in contact with any fixed components (e.g. bearing housing or crankcase).
- Tighten the nut with a torque wrench with hexagon socket to the torque T_A.

Hub Calculation and Selection Tool

on the Internet at www.maedler.de

in the section **MÄDLER®-Tools**