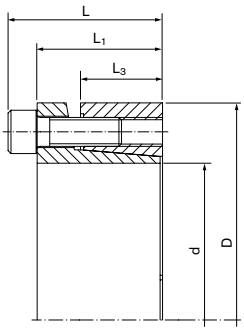
Locking Assemblies

RINGFEDER® RfN 7003

Two piece design with slit and single taper and without flange

self-centering | without axial displacement | with low surface pressure

Dimensions



Locking Assembly dimensions						Transmissible torques or axial forces		Surface pressure		Locking screws		
								Shaft	Hub			
d	x	D	L	L_1	L_3	T	F_{ax}	p_W	p_N	n_{Sc}	D_G	T_A
mm			mm			Nm	kN	N/mm²				Nm
19	x	47	34	28	17	355	31	280	120	5	M6	14
20	x	47	34	28	17	360	33	280	120	5	M6	14
22	x	47	34	28	17	400	33	260	125	5	M6	14
24	x	50	34	28	17	440	36	245	120	6	M6	14
25	x	50	34	28	17	560	36	280	140	6	M6	14
28	x	55	34	28	17	625	36	250	130	6	M6	14
30	x	55	34	28	17	650	36	235	130	6	M6	14
32	x	60	34	28	17	950	50	290	150	8	M6	14
35	x	60	34	28	17	1050	50	290	150	8	M6	14
38	x	65	34	28	17	1140	50	250	145	8	M6	14
40	x	65	34	28	17	1200	50	230	145	8	M6	14
42	x	75	41	33	20	2030	70	305	170	7	M8	35
45	x	75	41	33	20	2180	70	285	170	7	M8	35
48	x	80	41	33	20	2330	80	270	160	7	M8	35
50	x	80	41	33	20	2430	85	260	160	7	M8	35
55	x	85	41	33	20	3050	100	270	175	8	M8	35
60	x	90	41	33	20	3350	100	245	165	8	M8	35
65	x	95	41	33	20	4080	110	255	175	9	M8	35
70	x	110	50	40	24	6280	160	280	180	8	M10	70
75	x	115	50	40	24	6680	160	260	170	8	M10	70
80	x	120	50	40	24	7130	160	250	170	8	M10	70
85	x	125	50	40	24	8750	180	260	180	9	M10	70
90	x	130	50	40	24	9080	180	250	170	9	M10	70
95	x	135	50	40	24	10580	200	260	180	10	M10	70
100	x	145	56	44	26	13380	240	270	190	8	M12	125
110	x	155	56	44	26	14580	240	240	180	8	M12	125

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Locking Assembly dimensions						Transmissible torques or axial forces		Surface pressure		Locking screws		
								Shaft	Hub			
d	x	D	L	L_1	L_3	T	F_{ax}	p_W	p_N	n_{Sc}	D_G	T_A
mm			mm			Nm	kN	N/mm²				Nm
120	x	165	56	44	26	17880	250	250	180	9	M12	125
130	x	180	64	52	34	25950	350	240	170	12	M12	125
140	x	190	68	54	34	26950	350	210	150	9	M14	190
150	x	200	68	54	34	32950	400	230	170	10	M14	190
160	x	210	68	54	34	37950	450	230	170	11	M14	190
170	x	225	78	64	44	44950	500	180	130	12	M14	190
180	x	235	78	64	44	46950	500	170	130	12	M14	190
190	x	250	78	64	44	64059	607	141	146	15	M14	190
200	x	260	78	64	44	67430	607	134	141	15	M14	190
220	x	285	88	72	50	82211	710	130	132	12	M16	290
240	x	305	88	72	50	112106	848	149	154	15	M16	290
260	x	325	88	72	50	145737	1017	165	174	16	M16	290
280	x	355	102	84	60	168715	1094	139	143	16	M18	400
300	x	375	102	84	60	203362	1230	146	152	18	M18	400
320	x	405	121	101	74	287020	1627	150	151	18	M20	580
340	x	425	121	101	74	355785	1899	165	168	21	M20	580
360	x	455	137	115	86	395461	1994	142	142	18	M22	780
380	x	475	137	115	86	487003	2326	157	158	21	M22	780
400	x	495	137	115	86	512635	2326	150	152	21	M22	780

More sizes on request

Explanation

- **d** = Inner diameter
- **D** = Outer diameter
- **L** = Overall length
- **L_1** = Overall length (without screws)
- **L_3** = Width of ring
- **T** = Transmissible torque at given T_A
- **F_{ax}** = Transmissible axial force
- **p_W** = Surface pressure on shaft at given T_A
- **p_N** = Surface pressure on hub at given T_A
- **n_{Sc}** = Quantity of screws
- **D_G** = Thread
- **T_A** = Max tightened torque of the clamping screws

Ordering example

Locking assembly	d	D
RfN 7003	24	50

Technical Information

- Surface finishes: Shaft and hub bores $R_a \leq 1{,}6$ µm
- Tolerances: Shaft: h8 · Hub: H8

Further information on
RINGFEDER® RfN 7003
on **www.ringfeder.com**

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