



### Nabenberechnung / Calculation of hub outside diameter

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

C = 0.6 bei Nabenbreite / Width of the hub design  $b = 2 \cdot l$

C = 1.0 bei Nabenbreite / Width of the hub design  $b = l$

### Betriebsfaktoren / Service factors:

Antrieb / Type of machine	Last Load	konstant permanent	schwellend pulsating	wechselnd alternating
Elektromotor / Electric motor		1	1.5	2
Kolbenmaschine / Piston type pumps, compressor		1.5	2.5	3

Art.-Nr. Part no	Abmessungen Dimensions				übertragbar transmittable		Flächenpressung Surface pressure		Spannschraube Screw (DIN 912–12.9)		Anziehmoment Tightening torque	Massenträgheitsmoment Inertia	Masse Weight
	d2	d1	l	l <sub>tot</sub>	Drehmoment Torque	Axialkraft Axial force	an Welle Shaft	an Nabe Hub	Grösse Size	Anzahl No			
	mm	mm	mm	mm	m <sub>t</sub> Nm	f <sub>ax</sub> kN	P <sub>w</sub> N/mm <sup>2</sup>	P <sub>N</sub> N/mm <sup>2</sup>			m <sub>a</sub> Nm	J kgcm <sup>2</sup>	m kg
096106	6	16	11	13.5	6	2	150	55	M2.5 x 10	3	1.2	0.005	0.012
096102	6.35	16	11	13.5	6	2	140	55	M2.5 x 10	3	1.2	0.005	0.012
096107	7	17	11	13.5	8	2	125	55	M2.5 x 10	3	1.2	0.006	0.013
096108	8	18	11	13.5	10	2.5	110	50	M2.5 x 10	3	1.2	0.008	0.015
096109	9	20	13	15.5	15	3	120	55	M2.5 x 12	4	1.2	0.013	0.020
096101	9.53	20	13	15.5	15	3	110	55	M2.5 x 12	4	1.2	0.013	0.020
096110	10	20	13	15.5	15	3	110	55	M2.5 x 12	4	1.2	0.013	0.019
096111	11	22	13	15.5	18	3	100	50	M2.5 x 12	4	1.2	0.019	0.023
096112	12	22	13	15.5	20	3	90	50	M2.5 x 12	4	1.2	0.018	0.022
096114	14	26	17	20	35	5	105	55	M3 x 16	4	2.1	0.045	0.039
096115	15	28	17	20	40	5	100	50	M3 x 16	4	2.1	0.059	0.044
096116	16	32	17	21	70	8	130	65	M4 x 16	4	4.9	0.113	0.066
096117	17	35	21	25	75	8	120	60	M4 x 20	4	4.9	0.183	0.092
096118	18	35	21	25	80	8	115	60	M4 x 20	4	4.9	0.180	0.087
096119	19	35	21	25	85	8	110	60	M4 x 20	4	4.9	0.176	0.084
096120	20	38	21	26	150	15	140	75	M5 x 20	4	9.7	0.254	0.10
096122	22	40	21	26	160	14	130	70	M5 x 20	4	9.7	0.306	0.11
096124	24	47	26	32	250	20	140	75	M6 x 25	4	16.5	0.739	0.20
096125	25	47	26	32	260	20	135	75	M6 x 25	4	16.5	0.727	0.19
096103	25.4	47	26	32	265	20	130	75	M6 x 25	4	16.5	0.722	0.19
096128	28	50	26	32	440	30	185	100	M6 x 25	6	16.5	0.910	0.22
096130	30	55	26	32	470	30	175	95	M6 x 25	6	16.5	1.34	0.27
096132	32	55	26	32	500	30	165	95	M6 x 25	6	16.5	1.29	0.25
096135	35	60	31	37	730	40	165	95	M6 x 30	8	16.5	2.27	0.36
096138	38	65	31	37	800	40	155	90	M6 x 30	8	16.5	3.15	0.43
096140	40	65	31	37	840	40	145	90	M6 x 30	8	16.5	3.02	0.40
096142	42	75	36	44	1200	55	165	90	M8 x 35	6	40	6.52	0.69
096145	45	75	36	44	1300	55	155	90	M8 x 35	6	40	6.22	0.63
096148	48	80	36	44	1850	75	195	115	M8 x 35	8	40	8.14	0.74
096150	50	80	36	44	1900	75	185	115	M8 x 35	8	40	7.86	0.70

**Bestellbeispiel:** Spannsatz DKWN 18–35, Art.-Nr. 096118

**Ordering example:** Locking assembly DKWN 18–35, part no 096118