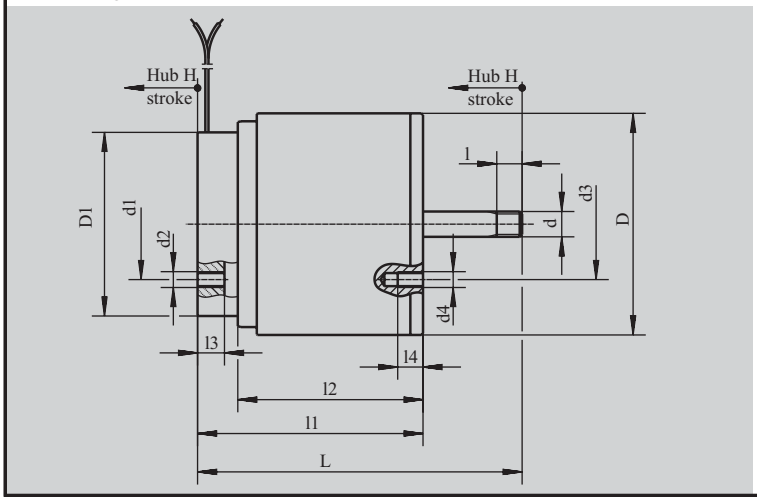
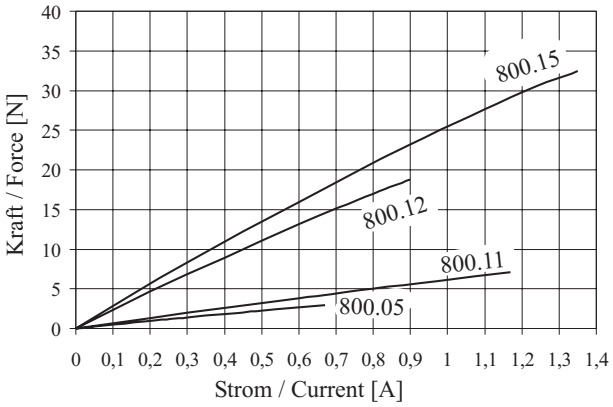
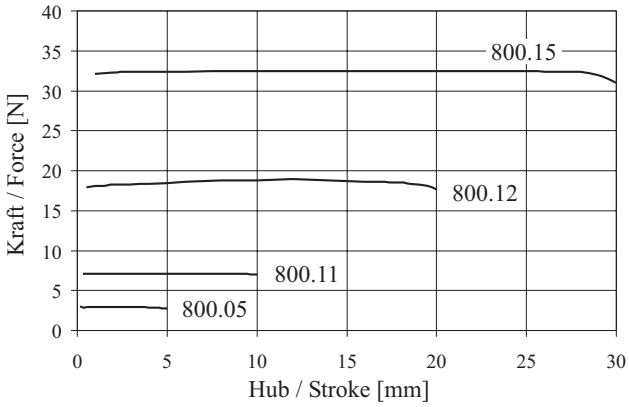
Typenschlüssel / Type code

Mönninghoff Tauchspulenaktor
Mönninghoff Voicecoil Actuator

800.□□
- Baugröße / Size
- Aktortyp / Actuator type

Baugröße / Size			**05**	**11**	**12**	**15**
Hub / Stroke	H	[mm]	5	10	20	30
Nennkraft / Nominal force	F_N	[N]	2,9	7,1	18,8	32,5
Strom bei Nennkraft / Current at nominal force	I_N	[A]	0,67	1,17	0,90	1,35
Max. Leistung bei Nennkraft / Max. input power at nominal force	P_{Nmax}	[W]	10,3	17,9	26,6	40,6
Spitzenkraft (10 s) / Peak force (10 s)	F_S	[N]	6,1	17,5	43,8	51,2 *
Strom bei Spitzenkraft / Current at peak force	I_S	[A]	2,01	4,68	4,0	3,8
Max. Leistung bei Spitzenkraft / Max. input power at peak force	P_{Smax}	[W]	92,5	287	525	323
Elektr. Widerstand / DC resistance	R	[Ω]	15,6	8,9	22,3	15,2
Thermischer Widerstand / Thermal resistance	R_{th}	[°C/W]	11,7	6,7	4,5	3,0
Induktivität / Inductance	L	[mH]	4,2	2,5	11,5	10,9
Kraftkonstante / Force constant	K_{FI}	[N/A]	4,33	6,07	20,89	24,07
Induktionskonstante / Back EMF constant	K_{ind}	[V/(m/s)]	6,88	7,45	24,84	32,61
Elektr. Zeitkonstante / Electrical time constant	τ_{el}	[µs]	269	280	516	717
Mech. Zeitkonstante / Mechanical time constant	τ_{me}	[ms]	12,6	16,7	8,3	10,4
Masse Spulenteil / Coil mass	m_{sp}	[g]	24	85	193	539
Gesamtmasse / Total mass	m_{ges}	[g]	120	450	1470	3460
Abmessungen / Dimensions		[mm]				
	D		30	50	70	90
	D_1		24,8	43,4	58	74
	d		M4	M5	M8	M10
	d_1		14 2x180°	22 3x120°	35 3x120°	40 3x120°
	d_2		M3	M4	M5	M6
	d_3		14 2x180°	22 3x120°	35 3x120°	40 3x120°
	d_4		M3	M4	M5	M6
	L		46	64,5	102,5	144
	l		4	5	8	10
	l_1		35	47,2	71	100
	l_2		27	36,5	58,5	84,5
	l_3		6	7,5	8,5	11
	l_4		4	6	8	10



Anmerkungen / Notes: 20°C Umgebungstemperatur / environmental temperature
140°C Spulentemperatur / coil temperature
Kräfte in Mittelstellung des Spulenteils (Position H/2) / forces in mid stroke position
* 60s Spitzenkraft / peak force

Kennlinien / Characteristics