



Technical Data and Main Dimensions			Size							
			16	25	40	64	100	160		
Nominal torque ¹⁾	T_{KN}	[Nm]	300	420	650	1100	1600	2600		
Peak torque ²⁾	T_{KS}	[Nm]	450	630	975	1650	2400	3900		
Outer diameter	D	[mm]	77	89	104	123	143	167		
Minimum hub bore ³⁾	$d_{p.min}$	[mm]	16	20	25	30	35	40		
Maximum hub bore ³⁾	$d_{p.max}$	[mm]	32	40	50	55	70	80		
Maximum speed ⁴⁾	n_{max}	[rpm]	13600	11800	10100	8500	7300	6200		
Permitted misalignments ⁵⁾	permitted axial displacement ^{6) 7)}	with connection plate	ΔK_a	[mm]	0,8	0,9	1,1	1,3	1,5	1,7
		with sleeve 1	$\Delta K_{r,H}$	[mm]	0,7	0,8	1	1,25	1,45	1,5
		with sleeve S	$\Delta K_{r,H}$	[mm]	$(H_s - S) \times 0,0122$					
Spring rigidity	torsion ⁸⁾	disk pack	C_{TLP}	[10 ³ Nm/rad]	180	290	320	1350	1900	2950
		tube sleeve S	C_{THrel}	[10 ⁶ Nm mm/rad]	19	34	71	108	217	415
	angular spring rigidity ⁹⁾			[Nm/rad]	285	305	875	1285	2025	3260

Dimensions [mm]

Size	16	25	40	64	100	160
d_1	50	60	70	80	100	115
d_3	33	41	46	51	66	76
H_1	65	75,6	91,4	112,8	133,2	135,2
H_s	acc. customer specifications					
h_1	50	60	70	80	100	110
L	84,6	95	116,1	138	158,6	179,2
L_2	101,2	112	136,2	164	185,2	210,4
L_4	145	165,6	201,4	242,8	283,2	305,2
L_6	dependent on H_s					
I	40	45	55	65	75	85
S	4,6	5	6,1	8	8,6	9,2
U	7	7	8	10	10	12
U_1	21,2	22	26,2	34	35,2	40,4

- Valid for changing load direction as well as for max. permitted shaft misalignment.
- Valid for unchanging load direction, max. load cycles $\leq 10^5$.
- Transmittable torques dependent on bore, see page 61.
- Not valid for coupling with sleeve S.
- The permitted misalignments may not simultaneously reach their maximum values.
- The values refer to couplings with 2 disk packs.
- Only permitted as a static or virtually static value.
- The C_r -value of a double-jointed coupling can be roughly calculated as follows:

$$C_{Trel} = \frac{1}{\frac{2}{C_{TLP}} + \frac{H_s [\text{mm}] - 2 S [\text{mm}]}{C_{THrel}}}$$

Sleeve dimensions

Size	16	25	40	64	100	160	180	300	500	850	1400	2200
d_4	43	54	62	71	92	98	79	95	111	127	137	157
d_5	45	48	58	68	88	95	75	90	110	123	144	167
h_s	50	60	70	80	100	110	92	110	130	150	165	190
h_2	x	x	x	x	x	155	130	155	170	220	250	x
h_3	73	86	96	118	138	160	138	160	192	224	266	315
l_4	15,5	15,5	20	24	24	30	32	36	40	48	54	61
U	7	7	8	10	10	12	14	16	18	20	22	25

Mass Moments of Inertia J [10⁻³ kgm²]

Size	16	25	40	64	100	160
Disk pack ¹⁰⁾	0,08	0,13	0,30	0,81	1,36	3,43
Hub ¹¹⁾	0,27	0,55	1,16	2,58	6,18	12,51
Connection plate	0,23	0,44	0,95	2,30	4,60	9,72
Sleeve 1	0,32	0,61	1,38	3,02	6,10	12,96
Sleeve S with $H_s = 1000$ mm	2,11	3,77	7,81	12,62	24,98	49,43
Sleeve S per 1000 mm tube	1,93	3,43	7,12	10,86	21,86	41,61

Weight [kg]

Size	16	25	40	64	100	160
Disk pack ¹⁰⁾	0,08	0,09	0,16	0,32	0,39	0,71
Hub ¹¹⁾	0,46	0,69	1,02	1,72	2,83	4,25
Connection plate	0,31	0,43	0,68	1,19	1,96	2,96
Sleeve 1	0,39	0,54	0,93	1,46	2,04	3,38
Sleeve S with $H_s = 1000$ mm	3,63	4,42	6,82	8,09	10,22	16,83
Sleeve S per 1000 mm tube	3,48	4,22	6,51	7,50	9,47	15,34

- The values refer to 1 disk pack.
- Mass moments of inertia and weights are valid for 1 disk pack.
- Mass moments of inertia and weights are valid for maximum bore.