



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

### Mass Moments of Inertia J [10<sup>-3</sup> kgm<sup>2</sup>]

Size	16	25	40	64	100	160
Disk pack <sup>10)</sup>	0,08	0,13	0,30	0,81	1,36	3,43
Hub <sup>11)</sup>	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 <sub>s</sub> = 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 <sup>10)</sup>	0,08	0,09	0,16	0,32	0,39	0,71
Hub <sup>11)</sup>	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 <sub>s</sub> = 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

1) Valid for changing load direction as well as for max. permitted shaft misalignment.

2) Valid for unchanging load direction, max. load cycles ≤ 10<sup>5</sup>.

3) Transmittable torques dependent on bore, see page 61.

4) Not valid for coupling with sleeve S.

5) The permitted misalignments may not simultaneously reach their maximum values.

6) The values refer to couplings with 2 disk packs.

7) Only permitted as a static or virtually static value.

8) The  $C_{T\ tot}$ -value of a double-jointed coupling can be roughly calculated as follows:

$$C_{T\ tot} = \frac{1}{\frac{2}{C_{T\ LP}} + \frac{H_s [\text{mm}] - 2 S [\text{mm}]}{C_{T\ H\ rel}}}$$

9) The values refer to 1 disk pack.

10) Mass moments of inertia and weights are valid for 1 disk pack.

11) Mass moments of inertia and weights are valid for maximum bore.