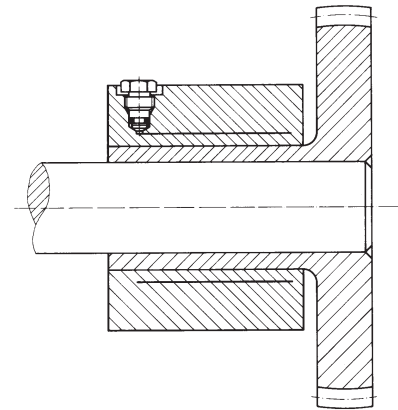
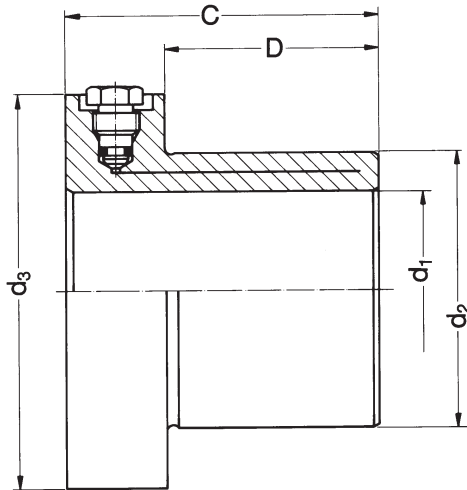


TORLOC® Clamping Elements



Table of Dimensions No. 243 199



● Note

Higher axial forces occurring with the clamping connection may affect the permissible torque. In such cases, a reduction factor has to be taken into consideration for the calculations.

Comparison values are given in the table.

Example: SP 30

F_{KA} up to 4500 N; $f = 1$
 > 4500 N < 9000 N; $f = 0,9$
 > 9000 N to 13500 N; $f = 0,8$

1) max. permissible torque. The starting and peak torques must not exceed this value.
 2) Please contact us in case of higher axial forces.

Type SP	Torque ¹⁾ T_{KS} ~ Nm	Axial Force F_{KA} N			Dimensions					Weight kg	Mass Moment of Inertia J kgm ²
		f = 1	f = 0,9	f = 0,8	d ₁ mm	d ₂ mm	d ₃ mm	C mm	D mm		
30	390	4500	9000	13500	30	40	85	66	36	1,33	0,0012
35	610	6000	12000	18000	35	45	91	71	41	1,50	0,0016
40	900	7800	15600	23400	40	52	96	77	47	1,72	0,0021
45	1370	10500	21000	31500	45	58	103	83	53	2,03	0,0028
50	1620	11200	22400	33600	50	65	109	87	57	2,35	0,0036
60	2900	16900	33800	50700	60	75	120	95	65	2,81	0,0054
70	4000	20000	40000	60000	70	90	135	104	74	3,92	0,0095
80	6700	29000	58000	87000	80	100	144	120	90	4,65	0,0131
90	9800	38000	76000	114000	90	110	155	132	102	5,47	0,0182
100	11900	41000	82000	123000	100	125	170	146	108	8,18	0,0335
110	13600	43000	86000	129000	110	140	188	144	109	10,04	0,0497
120	20500	59000	118000	177000	120	150	196	171	133	12,24	0,0678
130	26800	70000	140000	210000	130	160	205	182	144	13,62	0,0844
140	33800	83000	166000	249000	140	170	215	190	152	14,95	0,1042
150	41000	95000	190000	285000	150	180	225	200	162	16,48	0,1281
160	47500	100000	200000	300000	160	200	233	225	180	23,95	0,2105
170	53000	108000	216000	324000	170	210	243	221	176	24,85	0,2425
180	57000	111000	220000	333000	180	225	261	221	176	29,68	0,3298
190	81000	148000	296000	444000	190	240	273	270	222	39,95	0,4906
200	92000	160000	320000	480000	200	250	283	270	222	41,90	0,5598
220	113000	178000	256000	534000	220	270	301	270	222	45,09	0,7096

Size determination

$T_S \leq T_{KS} \cdot f$
 $F_a \leq F_{KA}$
 $T_S =$ existing max. peak or starting torque
 $T_{KS} =$ admissible torque acc. to table
 $f =$ factor for higher axial forces acc. to table
 $F_a =$ existing axial force
 $F_{KA} =$ admissible axial force acc. to table