

Safety Coupling – Model CTS-3

with clamping ring / clamping hub and metal bellow

- with clamping ring / clamping hub and metal bellow
- 0,2 - 1.800 Nm
- low residual friction after disengagement
- exact torque limitation
- compensation of shaft misalignment
- torsionally stiff, compact & absolutely backlash-free design
- high clamping forces
- infinitely variable torque
- temperature range -30° to 100°
- special designs such as sealed versions, welded versions or stainless steel on request



properties	unit	unit symbol	2	5	10	15	30	60	150	200	300	500	800	1500
360°/60° adjustment range 1 from - to	(Nm)	T _{KN}	0,2-1,5	1-5	2-6	5-15	5-15	10-30	20-70	40-100	80-200	80-200	350-650	500-900
360°/60° adjustment range 2 from - to	(Nm)	T _{KN}	0,5-2,2	3-6	4-12	8-20	10-30	25-80	50-150	60-160	150-250	200-400	500-800	700-1200
360°/60° adjustment range 3 from - to	(Nm)	T _{KN}								120-240	200-320	250-500		1000-1800
360°/60° adjustment range 4 from - to	(Nm)	T _{KN}												
actuation distance *	(mm)		0,8	0,8	1,2	1,4	1,4	1,7	1,9	2,2	2,2	2,2	2,2	3
(F) adjustment range 1 from - to	(Nm)	T _{FKN}	--	--	2-5	7-15	8-20	15-30	40-80	50-100	60-180	80-150	200-400	700-1000
(F) adjustment range 2 from - to	(Nm)	T _{FKN}			4-10		15-30	30-60	80-150	80-140	160-300	100-250	400-650	1000-1250
(F) adjustment range 3 from - to	(Nm)	T _{FKN}			8-15					130-200		150-300	450-850	1250-1500
(F) adjustment range 4 from - to	(Nm)	T _{FKN}										250-500		
overall length	(mm)	A ⁻²	46 51	55 63	63 73	75 82	88 96	102 112	114 126	132 144	139 153	163 177	190 --	225 --
overall length (F)		AF ⁻²	-- --	-- --	63 73	75 82	88 96	102 112	116 128	135 147	142 156	168 182	201 --	237 --
actuation ring Ø	(mm)	B	30	36	46	56	66	74	93	100	121,5	136	153,5	175
actuation ring Ø	(mm)	BF	--	--	51,5	61,5	71	84	99	118	133	156	176	188
clamping fit length	(mm)	C ₁	12	14	14	22	27	29	34	42	43	50	52,5	65
clamping fit length	(mm)	C ₂	24	29,5	33	21,5	26,5	31,5	34,5	42	42	53	48	67
inner diameter from Ø-H7	(mm)	D ₁	4-12	5-14	6-20	10-26	12-30	15-32	19-38	24-42	30-56	35-60	40-75	50-80
inner diameter from Ø-H7	(mm)	D ₂	4-12	5-14	6-20	10-26	12-30	15-32	19-38	24-42	30-56	35-60	40-75	50-80
diameter	(mm)	D ₃	=D2	=D2	=D2	21,1	24,1	32,1	38	42	58	60,1	60,1	68,1
diameter	(mm)	E	25	32	40	49	56	66	81	90	110	122	132	157
approximate weight	(kg)		0,07	0,2	0,3	0,4	0,6	1	2,4	4	5,9	9,6	14	21

CT-S3-24-01

Series 0002-0060 with aluminium clamping hubs
Series 0150-1500 with steel clamping hubs

The actual weight is determined by the size of the fitting (D).

Up to series 300 the couplings are glued, from series 500 they are welded.

* = Switching distances generally apply to the middle setting range and may slightly deviate downwards or upwards.

