



## TS... N

BALL JOINT ENDS

DIN 648, E- SERIES  
WITH GREASE NIPPLE

COUPLING: STEEL/STEEL



ARTICLE	d	TOLERANCES		S	D2	I	D1	S1	L	LOAD FACTORS		RADIAL CLEARANCE	SWINGING ANGLE $\alpha$	WEIGHT Kg.
		d	S							Dynamic C	Static Co			
		mm.												
TS 15 N	15	0 $\pm$ -0.008	0 $\pm$ -0.12	12	18.4	31	45	16	53.5	17	53	0.022 - 0.082	8	0.22
TS 16 N	16	0 $\pm$ -0.008	0 $\pm$ -0.12	14	20.7	35	48	17.5	59	21.2	59	0.025 - 0.082	10	0.29
TS 17 N	17	0 $\pm$ -0.008	0 $\pm$ -0.12	14	20.7	35	48	17.5	59	21.2	65	0.025 - 0.082	10	0.29
TS 20 N	20	0 $\pm$ -0.010	0 $\pm$ -0.12	16	24.1	38	50	19	63	30	67	0.030 - 0.082	9	0.36
TS 25 N	25	0 $\pm$ -0.010	0 $\pm$ -0.12	20	29.3	45	55	23	72.5	48	69.5	0.037 - 0.100	7	0.53
TS 30 N	30	0 $\pm$ -0.010	0 $\pm$ -0.12	22	34.2	51	65	28	83.5	62	118	0.037 - 0.100	6	0.85
TS 35 N	35	0 $\pm$ -0.012	0 $\pm$ -0.12	25	39.7	61	83	30	102.5	80	196	0.037 - 0.100	6	1.50
TS 40 N	40	0 $\pm$ -0.012	0 $\pm$ -0.12	28	45	69	100	35	119	100	305	0.043 - 0.120	7	2.42
TS 45 N	45	0 $\pm$ -0.012	0 $\pm$ -0.12	32	50.7	77	110	40	132	127	386	0.043 - 0.120	7	3.39
TS 50 N	50	0 $\pm$ -0.012	0 $\pm$ -0.12	35	56	88	123	40	149.5	156	441	0.043 - 0.120	6	4.24
TS 60 N	60	0 $\pm$ -0.015	0 $\pm$ -0.15	44	66.8	100	140	50	170	245	570	0.043 - 0.120	6	7.10
TS 70 N	70	0 $\pm$ -0.015	0 $\pm$ -0.15	49	77.8	115	164	55	197	315	724	0.055 - 0.142	6	10.70
TS 80 N	80	0 $\pm$ -0.015	0 $\pm$ -0.15	55	89.4	141	180	60	231	400	804	0.055 - 0.142	6	15.10
TS 90 N (1)	90	0 $\pm$ -0.020	0 $\pm$ -0.20	60	98.1	150	226	65	263	490	1340	0.055 - 0.142	5	23.40
TS 100 N (1)	100	0 $\pm$ -0.020	0 $\pm$ -0.20	70	109.5	170	250	70	295	610	1516	0.065 - 0.165	7	33.10
TS 110 N (1)	110	0 $\pm$ -0.020	0 $\pm$ -0.20	70	121.2	185	295	80	332.5	655	2340	0.065 - 0.165	6	48.50
TS 120 N (1)	120	0 $\pm$ -0.020	0 $\pm$ -0.20	85	135.5	210	360	90	390	950	3210	0.065 - 0.165	6	79.50

(\*) Also suppliable in the spherical ball joint version with 2RS. Availability and prices upon request.

(1) Pantographed.

**Possible to supply special rod ends with maintenance free spherical bearing.**

**(See the spherical bearings catalogue for series : SRB, SRT...-2RS, SRLB, SRLT...-2RS, SR...TGR, SR...TG3A...-2RS). These articles are available without grease nipples or lubrication holes.**