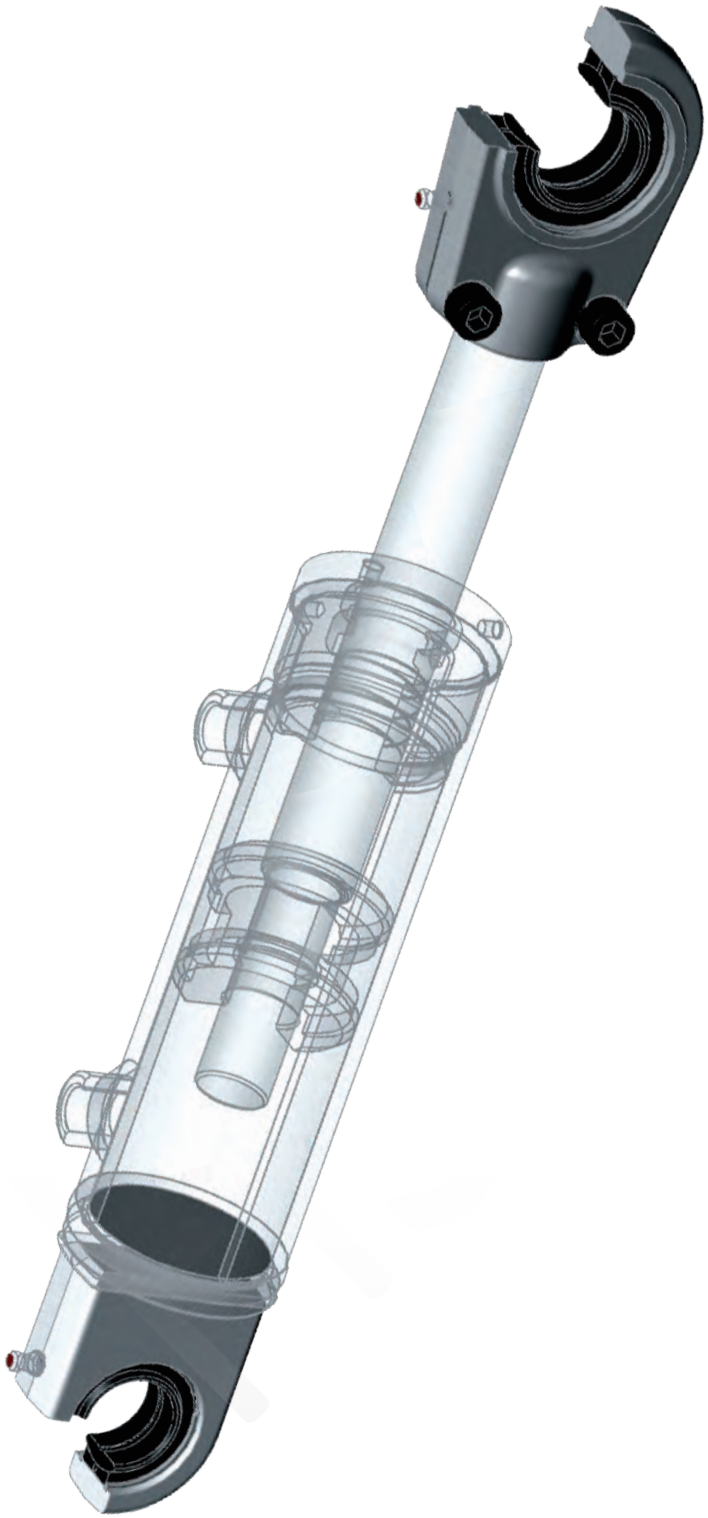




Fisatech s.r.o., Hlavná 361/53, 076 64 Z. Teplica, tel.: 0908 135 761, e-mail: info@fisatech.sk www.fisatech.sk

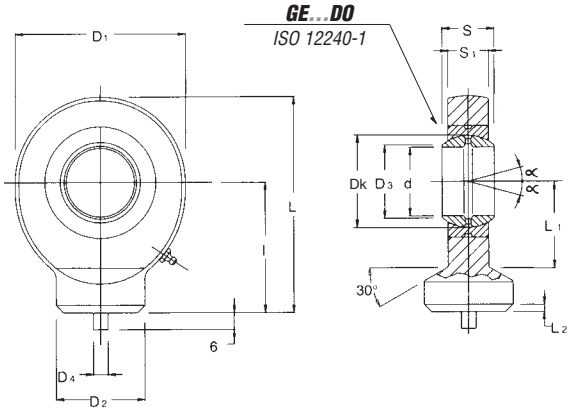
FISATECH



S...C

BALL JOINT ENDS

GE...DO
ISO 12240-1



- *SO 12240-4*
- ***WITH GREASE NIPPLE***
- *COUPLING: STEEL/STEEL*
- *BALL JOINT MADE IN FORGED STEEL ST. 52.3*



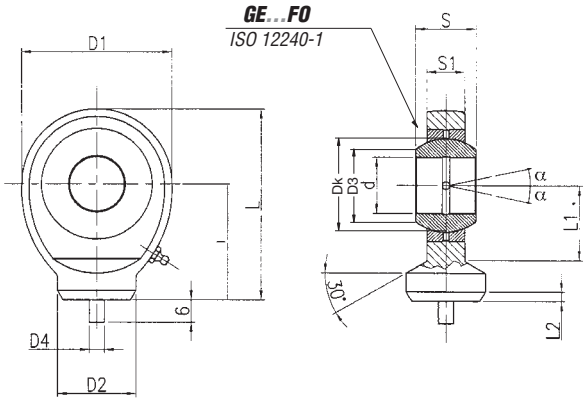
CODE *	d	S	l	D1	D2	D4	D3	Dk	S1	L	L1	L2	TOLERANCES d mm	TOLERANCES S mm	RADIAL JOINT CLEARANCE mm	LOAD FACTOR Static C0 KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	WEIGHT kg.
S 10 C (1)	10	9	24	29	15	3	13,2	15,8	6,5	38,5	14	2	0÷-0.008	0÷-0.12	0.023÷0.068	15,6	8,15	12°	0,040
S 12 C (1)	12	10	27	36	17,5	3	15	18	8	44	18	2	0÷-0.008	0÷-0.12	0.023÷0.068	21,6	10,8	11°	0,065
S 15 C (2)	15	12	31	40	21	4	18,4	22	10	51	20	2,5	0÷-0.008	0÷-0.12	0.030÷0.082	32	17	8°	0,120
S 16 C (2)	17	14	35	47	24	4	20,7	25	11	58	23	3	0÷0.008	0÷-0.12	0.030÷0.082	40	21,2	10°	0,180
S 17 C (2)	17	14	35	47	24	4	20,7	25	11	58	23	3	0÷-0.008	0÷-0.12	0.030÷0.082	40	21,2	10°	0,180
S 20 C	20	16	38	53	27,5	4	24,1	29	13	64,5	27,5	3	0÷-0.010	0÷-0.12	0.030÷0.082	54	30	9°	0,250
S 25 C	25	20	45	64	33,5	4	29,3	35	17	77	33	4	0÷-0.010	0÷-0.12	0.037÷0.100	72	48	7°	0,450
S 30 C	30	22	51	73	40	4	34,2	40	19	87,5	37,5	4	0÷-0.010	0÷-0.12	0.037÷0.100	95	62	6°	0,675
S 35 C	35	25	61	82	47	4	39,7	47	21	102	43	4	0÷-0.012	0÷-0.12	0.037÷0.100	125	80	6°	0,950
S 40 C	40	28	69	92	52	4	45	53	23	115	48	5	0÷-0.012	0÷-0.12	0.043÷0.120	156	100	7°	1,400
S 45 C	45	32	77	102	58	6	50,7	60	27	128	52	5	0÷-0.012	0÷-0.12	0.043÷0.120	208	127	7°	1,910
S 50 C	50	35	88	112	62	6	56	66	30	144	59	6	0÷-0.012	0÷-0.12	0.043÷0.120	250	156	6°	2,650
S 60 C	60	44	100	137	70	6	66,8	80	38	167,5	72,5	8	0÷-0.015	0÷-0.15	0.043÷0.120	390	245	6°	4,600
S 70 C	70	49	115	161	80	6	77,8	92	42	195	86	10	0÷-0.015	0÷-0.15	0.055÷0.142	510	315	6°	7,000
S 80 C	80	55	141	180	95	6	89,4	105	47	231	98	10	0÷-0.015	0÷-0.15	0.055÷0.142	620	400	6°	10,800

(1) *MAINTENANCE-FREE.*
(2) *LUBRICATION HOLE - NO GREASE NIPPLE*
(*) *AVAILABLE ON DEMAND WITH SPHERICAL PLAIN BEARINGS WITH* ***2RS*** *SEALS (PRICE TO BE AGREED)*

FISATECH

S...C-FO

BALL JOINT ENDS



- ***WITH GREASE NIPPLE***
- *COUPLING: STEEL/STEEL*
- *BALL JOINT MADE IN FORGED STEEL ST. 52.3*



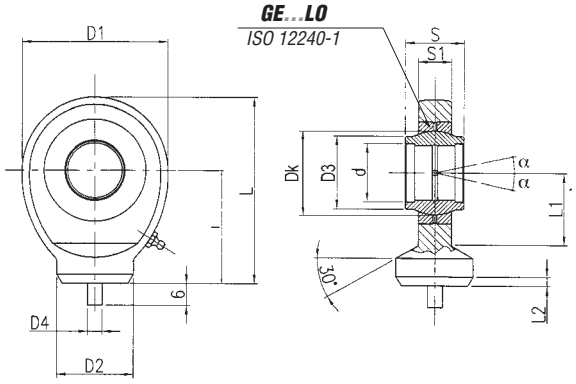
CODE *	d	S	l	D1	D2	D4	D3	Dk	S1	L	L1	L2	TOLERANCES d mm	TOLERANCES S mm	RADIAL JOINT CLEARANCE mm	LOAD FACTOR Static CO KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	WEIGHT kg.
S 20 C-FO	20	25	45	64	33,5	4	25,3	35	17	77	33	4	0÷-0.010	0÷-0.12	0.037÷0.100	72	48	7°	0,440
S 25 C-FO	25	28	51	73	40	4	29,5	40	19	87,5	37,5	4	0÷-0.010	0÷-0.12	0.037÷0.100	95	62	6°	0,700
S 30 C-FO	30	32	61	82	47	4	34,4	47	21	102	43	4	0÷-0.012	0÷-0.12	0.037÷0.100	125	80	6°	1,100
S 35 C-FO	35	35	69	92	52	4	39,7	53	23	115	48	5	0÷-0.012	0÷-0.12	0.043÷0.120	156	100	7°	1,500
S 40 C-FO	40	40	77	102	58	6	44,7	60	27	128	52	5	0÷-0.012	0÷-0.12	0.043÷0.120	208	127	7°	2,100
S 45 C-FO	45	43	88	112	62	6	50	66	30	144	59	6	0÷-0.012	0÷-0.12	0.043÷0.120	250	156	6°	2,850
S 50 C-FO	50	56	100	137	70	6	57,1	80	38	167,5	72,5	8	0÷-0.015	0÷-0.15	0.043÷0.120	390	245	6°	4,800
S 60 C-FO	60	63	115	161	80	6	67	92	42	195	86	10	0÷-0.015	0÷-0.15	0.055÷0.142	510	315	6°	7,200
S 70 C-FO	70	70	141	180	95	6	78,2	105	47	231	98	10	0÷-0.015	0÷-0.15	0.055÷0.142	620	400	6°	11,150

(*) AVAILABLE ON DEMAND WITH SPHERICAL PLAIN BEARINGS WITH 2RS SEALS (PRICE TO BE AGREED)

FISATECH

S...C-LO

BALL JOINT ENDS



- ***WITH GREASE NIPPLE***
- *COUPLING: STEEL/STEEL*
- *BALL JOINT MADE IN FORGED STEEL ST. 52.3*

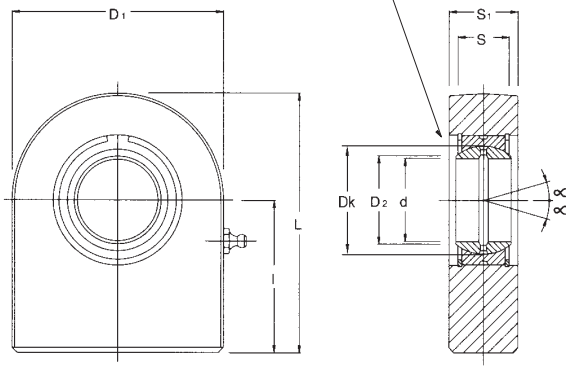


CODE *	d	S	l	D1	D2	D4	D3	Dk	S1	L	L1	L2	TOLERANCES d mm	TOLERANCES S mm	RADIAL JOINT CLEARANCE mm	LOAD FACTOR Static C0 KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	WEIGHT kg.
S 20 C-LO	20	20	38	53	27,5	4	24,1	29	13	64,5	27,5	3	0÷0.010	0÷-0.12	0.030÷0.082	54	30	9°	0,250
S 25 C-LO	25	25	45	64	33,5	4	29,3	35	17	77	33	4	0÷0.010	0÷-0.12	0.037÷0.100	72	48	7°	0,450
S 30 C-LO	30	30	51	73	40	4	34,2	40	19	87,5	37,5	4	0÷0.010	0÷-0.12	0.037÷0.100	95	62	6°	0,675
S 35 C-LO	35	35	61	82	47	4	39,7	47	21	102	43	4	0÷0.012	0÷-0.12	0.037÷0.100	125	80	6°	0,950
S 40 C-LO	40	40	69	92	52	4	45	53	23	115	48	5	0÷0.012	0÷-0.12	0.043÷0.120	156	100	7°	1,400
S 45 C-LO	45	45	77	102	58	6	50,7	60	27	128	52	5	0÷0.012	0÷-0.12	0.043÷0.120	208	127	7°	1,910
S 50 C-LO	50	50	88	112	62	6	56	66	30	144	59	6	0÷0.012	0÷-0.12	0.043÷0.120	250	156	6°	2,650
S 60 C-LO	60	60	100	137	70	6	66,8	80	38	167,5	72,5	8	0÷0.015	0÷-0.15	0.043÷0.120	390	245	6°	4,600
S 70 C-LO	70	70	115	161	80	6	77,8	92	42	195	86	10	0÷0.015	0÷-0.15	0.055÷0.142	510	315	6°	7,000
S 80 C-LO	80	80	141	180	95	6	89,4	105	47	231	98	10	0÷0.015	0÷-0.15	0.055÷0.142	620	400	6°	10,800

FISATECH

S...N

GE...DO
ISO 12240-1



BALL JOINT ENDS

- ***WITH GREASE NIPPLE***
- *COUPLING: STEEL/STEEL*
- *BALL JOINT MADE IN FORGED STEEL ST. 52.3*

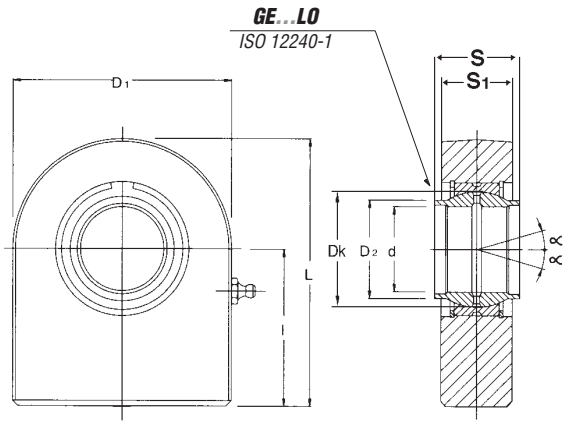


CODE *	d	S	l	D1	D2	Dk	S1	L	TOLERANCES d mm	TOLERANCES S mm	RADIAL JOINT CLEARANCE mm	LOAD FACTOR Static C0 KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	WEIGHT kg.
S 15 N (1)	15	12	31	45	18,4	22	15	53,5	0÷-0.008	0÷-0.12	0.022÷0.082	53	17	8°	0,220
S 16 N (1)	16	14	35	48	20,7	25	17	59	0÷-0.008	0÷-0.12	0.025÷0.082	59	21,2	10°	0,290
S 17 N (1)	17	14	35	48	20,7	25	17,5	59	0÷0.008	0÷-0.12	0.025÷0.082	65	17	10°	0,290
S 20 N	20	16	38	50	24,1	29	19	63	0÷-0.010	0÷-0.12	0.030÷0.082	67	30	9°	0,325
S 25 N	25	20	45	55	29,3	35	23	72,5	0÷-0.010	0÷-0.12	0.037÷0.100	69,5	48	7°	0,500
S 30 N	30	22	51	65	34,2	40	28	83,5	0÷-0.010	0÷-0.12	0.037÷0.100	118	62	6°	0,825
S 35 N	35	25	61	83	39,7	47	30	102,5	0÷-0.012	0÷-0.12	0.037÷0.100	196	80	6°	1,475
S 40 N	40	28	69	101	45	53	35	119	0÷-0.012	0÷-0.12	0.043÷0.120	300	100	7°	2,480
S 45 N	45	32	77	111	50,7	60	40	132	0÷-0.012	0÷-0.12	0.043÷0.120	380	127	7°	3,450
S 50 N	50	35	88	123	56	66	40	149,5	0÷-0.012	0÷-0.12	0.043÷0.120	440	156	6°	4,450
S 60 N	60	44	100	140	66,8	80	50	170	0÷-0.015	0÷-0.15	0.043÷0.120	570	245	6°	7,130
S 70 N	70	49	115	164	77,8	92	55	197	0÷-0.015	0÷-0.15	0.055÷0.142	695	315	6°	10,700
S 80 N	80	55	141	180	89,4	105	60	231	0÷-0.015	0÷-0.15	0.055÷0.142	780	400	6°	15,100
S 90 N (2)	90	60	150	226	98,1	115	65	263	0÷-0.020	0÷-0.20	0.055÷0.142	1340	490	5°	23,400
S 100 N (2)	100	70	170	250	109,5	130	70	295	0÷-0.020	0÷-0.20	0.065÷0.165	1500	610	7°	33,100
S 110 N (2)	110	70	185	295	121,2	140	80	332,5	0÷-0.020	0÷-0.20	0.065÷0.165	2160	655	6°	48,500
S 120 N (2)	120	85	210	360	135,5	160	90	390	0÷-0.020	0÷-0.20	0.065÷0.165	3250	950	6°	79,500

(1) *LUBRICATION HOLE - NO GREASE NIPPLE*
(2) *BUILT WITH A PANTOGRAPH, THEY CAN BE BUILT WITH A PANTOGRAPH BASED ON CUSTOMER'S DRAWING*
(*) *AVAILABLE ON DEMAND WITH SPHERICAL PLAIN BEARINGS WITH **2RS** SEALS (PRICE TO BE AGREED)*

FISATECH

PN...CE



BALL JOINT ENDS

- **WITH GREASE NIPPLE**
- COUPLING: STEEL/STEEL
- BALL JOINT MADE IN FORGED STEEL ST. 52.3



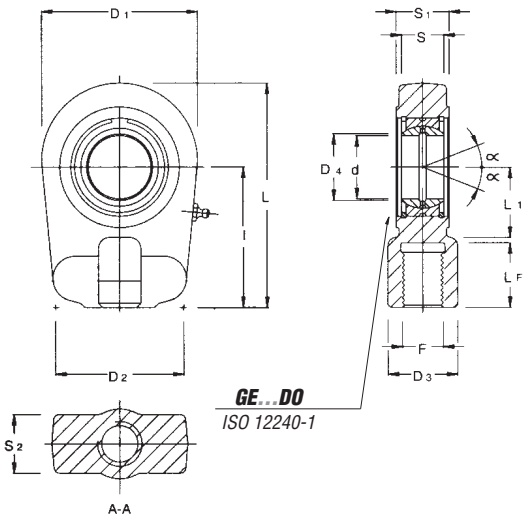
CODE *	d	S	l	D1	D2	Dk	S1	L	TOLERANCES d mm	TOLERANCES S mm	RADIAL JOINT CLEARANCE mm	LOAD FACTOR Static CO KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	WEIGHT kg.
PN 16 CE (1)	16	14	35	48	20,7	23	17,5	59	0 ÷ 0.008	0 ÷ 0.21	0.025 ÷ 0.082	59	21,2	10°	0,290
PN 20 CE	20	20	38	50	25	29	19	63	0 ÷ 0.021	0 ÷ 0.21	0.030 ÷ 0.082	74	30	4°	0,350
PN 25 CE	25	25	45	55	30,5	35,5	23	72,5	0 ÷ 0.021	0 ÷ 0.21	0.037 ÷ 0.100	95	48	4°	0,525
PN 32 CE	32	32	65	70	38	44	27	103	0 ÷ 0.025	0 ÷ 0.25	0.037 ÷ 0.100	168	62,5	4°	1,100
PN 40 CE	40	40	69	101	46	53	35	119	0 ÷ 0.025	0 ÷ 0.25	0.043 ÷ 0.120	268	100	4°	2,475
PN 50 CE	50	50	88	123	57	66	40	149,5	0 ÷ 0.025	0 ÷ 0.25	0.043 ÷ 0.120	362	156	4°	4,550
PN 63 CE	63	63	107	132	71,5	83	50	178	0 ÷ 0.030	0 ÷ 0.30	0.055 ÷ 0.142	570	248	4°	9,240
PN 70 CE	70	70	115	164	79	92	55	197	0 ÷ 0.030	0 ÷ 0.30	0.055 ÷ 0.142	800	315	4°	11,230
PN 80 CE	80	80	141	180	91	105	60	231	0 ÷ 0.030	0 ÷ 0.30	0.055 ÷ 0.142	874	400	4°	15,750
PN 90 CE (2)	90	90	150	226	99	115	65	263	0 ÷ 0.035	0 ÷ 0.35	0.055 ÷ 0.142	1045	490	4°	24,000
PN 100 CE (2)	100	100	170	250	113	130	70	295	0 ÷ 0.035	0 ÷ 0.35	0.065 ÷ 0.165	1330	610	4°	33,920
PN 110 CE (2)	110	110	185	295	124	140	80	332,5	0 ÷ 0.035	0 ÷ 0.35	0.065 ÷ 0.165	1490	655	4°	49,000
PN 125 CE (2)	125	125	210	360	135,5	160	90	390	0 ÷ 0.040	0 ÷ 0.40	0.065 ÷ 0.165	3250	950	4°	80,000

(1) LUBRICATION HOLE - NO GREASE NIPPLE
(2) BUILT WITH A PANTOGRAPH, THEY CAN BE BUILT WITH A PANTOGRAPH BASED ON CUSTOMER'S DRAWING
(*) AVAILABLE ON DEMAND WITH SPHERICAL PLAIN BEARINGS WITH **2RS** SEALS (PRICE TO BE AGREED)

FISATECH

PR...N

BALL JOINT ENDS



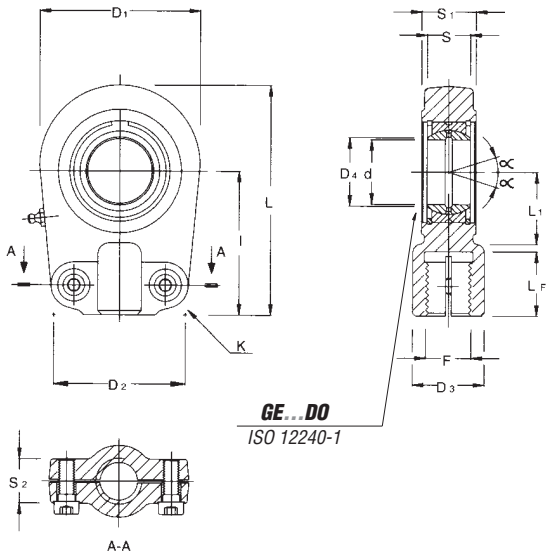
- ***WITH GREASE NIPPLE***
- *COUPLING: STEEL/STEEL*
- ***BALL JOINT MADE IN FORGED STEEL C 45***



CODE *	d	l	S	LF	D1	D2	D3	D4	S1	S2	L	L1	F	TOLERANCES d mm	TOLERANCES S mm	RADIAL JOINT CLEARANCE mm	LOAD FACTOR Static CO KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	WEIGHT kg.
PR 20 N	20	50	16	17	56	46	25	24,1	19	21	80	25	M 16x1.5	0÷-0.010	0÷-0.12	0.030÷0.082	72	30	9°	0,400
PR 25 N	25	50	20	17	56	46	25	29,3	23	21	80	28	M 16x1.5	0÷-0.010	0÷-0.12	0.037÷0.100	72	48	7°	0,475
PR 30 N	30	60	22	23	64	50	32	34,2	28	26	94	30	M 22x1.5	0÷-0.010	0÷-0.12	0.037÷0.100	106	62	6°	0,700
PR 35 N	35	70	25	29	78	66	40	39,7	30	28	112	38	M 28x1.5	0÷-0.012	0÷-0.12	0.037÷0.100	153	80	6°	1,150
PR 40 N	40	85	28	36	94	76	49	45	35	33	135	45	M 35x1.5	0÷-0.012	0÷-0.12	0.043÷0.120	250	100	7°	2,075
PR 50 N	50	105	35	46	116	90	61	56	40	37	168	55	M 45x1.5	0÷-0.012	0÷-0.12	0.043÷0.120	365	156	6°	3,575
PR 60N	60	130	44	59	130	120	75	66,8	50	46	200	65	M 58x1.5	0÷-0.015	0÷-0.15	0.043÷0.120	400	245	6°	6,200
PR 70 N	70	150	49	66	157	130	86	77,8	55	51	232	75	M 65x1.5	0÷-0.015	0÷-0.15	0.055÷0.142	540	315	6°	9,200
PR 80 N	80	170	55	81	178	160	105	89,4	60	55	265	80	M 80x2	0÷-0.015	0÷-0.15	0.055÷0.142	670	400	6°	13,200
PR 90 N	90	210	60	101	210	180	124	98,1	65	63	323	90	M 100x2	0÷-0.020	0÷-0.20	0.055÷0.142	980	490	5°	19,600
PR 100 N	100	235	70	111	234	200	138	109,5	70	65	360,7	105	M 110x2	0÷-0.020	0÷-0.20	0.065÷0.165	1120	610	7°	26,310
PR 110 N	110	265	70	125	270	220	152	121,2	80	76	408,2	115	M 120x3	0÷-0.020	0÷-0.20	0.065÷0.165	1700	655	6°	39,200
PR 120 N (1)	120	310	85	135	342	300	172	135,5	90	87	490	140	M 130x3	0÷-0.020	0÷-0.20	0.065÷0.165	2900	950	6°	78,000
PR 120 NL (1)	120	310	80	135	300	230	165	135	90	80	460	140	M 130x3	0÷-0.020	0÷-0.20	0.065÷0.165	2150	765	6°	56,000

(1) *SPHEROID CAST IRON*
(*) *AVAILABLE ON DEMAND WITH: **GE...UK**, **GE...LO**, **GE...HO**, **GE...FO**, **GE...FW***
(*) *AVAILABLE ON DEMAND WITH LEFT- THREAD (ITEM CODE **PL...N**) AND WITH SPHERICAL PLAIN BEARINGS WITH **2RS** SEALS (PRICE TO BE AGREED)*

FISATECH



PR...U

BALL JOINT ENDS

- ***WITH GREASE NIPPLE***
- *COUPLING: STEEL/STEEL*
- ***BALL JOINT MADE IN FORGED STEEL C 45***



CODE *	d	l	S	LF	D1	D2	D3	D4	S1	S2	L	L1	F	TOLERANCES d mm	TOLERANCES S mm	RADIAL JOINT CLEARANCE mm	LOAD FACTOR Static C0 KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	SCREWS DIN 912 12.9	COUPLE DE SERRAGE VIS Nm	WEIGHT kg.
PR 20 U	20	50	16	17	56	46	25	24,1	19	21	80	25	M 16x1.5	0÷-0.010	0÷-0.12	0.030÷0.082	72	30	9°	M8x20	25	0,400
PR 25 U	25	50	20	17	56	46	25	29,3	23	21	80	28	M 16x1.5	0÷-0.010	0÷-0.12	0.037÷0.100	72	48	7°	M8x20	25	0,475
PR 30 U	30	60	22	23	64	50	32	34,2	28	26	94	30	M 22x1.5	0÷-0.010	0÷-0.12	0.037÷0.100	106	62	6°	M8x25	25	0,700
PR 35 U	35	70	25	29	78	66	40	39,7	30	28	112	38	M 28x1.5	0÷-0.012	0÷-0.12	0.037÷0.100	153	80	6°	M10x30	49	1,150
PR 40 U	40	85	28	36	94	76	49	45	35	33	135	45	M 35x1.5	0÷-0.012	0÷-0.12	0.043÷0.120	250	100	7°	M10x35	49	2,075
PR 50 U	50	105	35	46	116	90	61	56	40	37	168	55	M 45x1.5	0÷-0.012	0÷-0.12	0.043÷0.120	365	156	6°	M12x40	86	3,575
PR 60 U	60	130	44	59	130	120	75	66,8	50	46	200	65	M 58x1.5	0÷-0.015	0÷-0.15	0.043÷0.120	400	245	6°	M16x45	210	6,200
PR 70 U	70	150	49	66	157	130	86	77,8	55	51	232	75	M 65x1.5	0÷-0.015	0÷-0.15	0.055÷0.142	540	315	6°	M16x50	210	9,200
PR 80 U	80	170	55	81	178	160	105	89,4	60	55	265	80	M 80x 2	0÷-0.015	0÷-0.15	0.055÷0.142	670	400	6°	M20x55	410	13,200
PR 90 U	90	210	60	101	210	180	124	98,1	65	63	323	90	M 100x 2	0÷-0.020	0÷-0.20	0.055÷0.142	980	490	5°	M20x60	410	19,600
PR 100 U	100	235	70	111	234	200	138	109,5	70	65	360,7	105	M 110x 2	0÷-0.020	0÷-0.20	0.065÷0.165	1120	610	7°	M24x65	710	26,310
PR 110 U	110	265	70	125	270	220	152	121,2	80	76	408,2	115	M 120x 3	0÷-0.020	0÷-0.20	0.065÷0.165	1700	655	6°	M24x75	710	39,200
PR 120 U (1)	120	310	85	135	342	300	172	135,5	90	87	490	140	M 130x3	0÷-0.020	0÷-0.20	0.065÷0.165	2900	950	6°	M24x85	710	78,000
PR120UL (1)	120	310	80	135	300	230	165	135,5	90	80	460	140	M 130x3	0÷-0.020	0÷-0.20	0.065÷0.165	2150	765	6°	M24x75	710	59,000

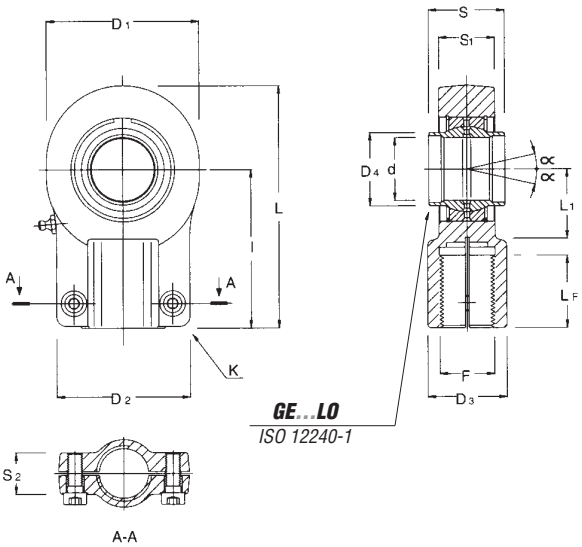
(1) *GHISA SFEROIDALE FUSA*
(*) *DISPONIBILI SU RICHIESTA CON: **GE...UK**, **GE...LO**, **GE...HO**, **GE...FO**, **GE...FW***
(*) *DISPONIBILI SU RICHIESTA CON FILETTATURA SINISTRORSA (CODICE ARTICOLO **PL...U**) E CON SNODO SFERICO CON TENUTA **2RS** (PREZZI DA CONCORDARE)*

(1) *SPHEROID CAST IRON*
(*) *AVAILABLE ON DEMAND WITH: **GE...UK**, **GE...LO**, **GE...HO**, **GE...FO**, **GE...FW***
(*) *AVAILABLE ON DEMAND WITH LEFT- THREAD (ITEM CODE **PL...U**) AND WITH SPHERICAL PLAIN BEARINGS WITH **2RS** SEALS (PRICES TO BE AGREED)*

FISATECH

PR...CE

BALL JOINT ENDS



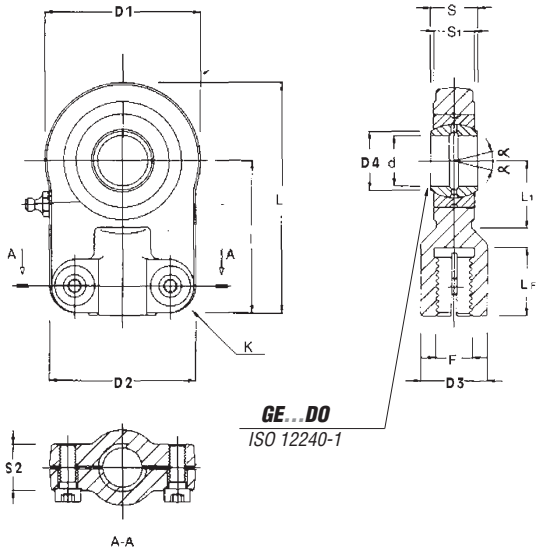
- *DIN 24338 / ISO 6982*
- *CETOP STANDARDS*
- ***WITH GREASE NIPPLE***
- *COUPLING: STEEL/STEEL*
- ***BALL JOINT MADE IN FORGED STEEL C 45***



CODE *	d	S1	l	LF	D1	D2	D3	D4	S	S2	L	L1	F	TOLERANCES d mm	TOLERANCES S mm	RADIAL JOINT CLEARANCE mm	LOAD FACTOR Static C0 KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	SCREWS DIN 912 12.9	SCREWS CLAMPING TORQUE Nm	WEIGHT kg.
PR 12 CE (1)	12	12	38	17	32	32	16	15,5	11	15	54	14	M 12x1.25	0÷ 0.018	0÷ -0.18	0.023÷0.068	24,5	10,8	4°	M5x16	6	0,10
PR 16 CE (2)	16	16	44	19	40	40	21	20	13,8	15	64	20	M 14x1.5	0÷ 0.018	0÷ -0.18	0.030÷0.082	36,5	17,6	4°	M6x14	10	0,21
PR 20 CE	20	20	52	23	47	47	25	25	17,8	18,7	75	22	M 16x1.5	0÷ 0.021	0÷ -0.21	0.030÷0.082	48	30	4°	M8x20	25	0,35
PR 25 CE	25	25	65	29	59	54	30	30,5	21,9	19	96	27	M 20x1.5	0÷ 0.021	0÷ -0.21	0.037÷0.100	78	48	4°	M8x20	25	0,62
PR 32 CE	32	32	80	37	71	66	38	38	27,5	22	118,5	32	M 27x2	0÷ 0.025	0÷ -0.25	0.037÷0.100	114	67	4°	M10x25	49	1,17
PR 40 CE	40	40	97	46	90	80	47	46	33	27	146,1	41	M 33x2	0÷ 0.025	0÷ -0.25	0.043÷0.120	204	100	4°	M10x25	49	2,15
PR 50 CE	50	50	120	57	109	96	58	57	41	32	179,6	50	M 42x2	0÷ 0.025	0÷ -0.25	0.043÷0.120	310	156	4°	M12x35	86	4,40
PR 63 CE	63	63	140	64	132	114	70	71,5	53	38	211,6	62	M 48x2	0÷ 0.030	0÷ -0.30	0.055÷0.142	430	255	4°	M16x40	210	7,60
PR 70 CE	70	70	160	81	157	135	80	79	57	42	245	70	M 56x2	0÷ 0.030	0÷ -0.30	0.055÷0.142	540	315	4°	M16x40	210	10,10
PR 80CE	80	80	180	86	169,3	148	90	91	67	48	270,6	78	M 64x3	0÷ 0.030	0÷ -0.30	0.055÷0.142	695	400	4°	M20x50	410	14,50
PR 90 CE	90	90	195	91	185	160	100	99	72	52	296	85	M 72x3	0÷ 0.035	0÷ -0.35	0.055÷0.142	750	490	4°	M20x60	410	17,50
PR 100 CE	100	100	210	96	211,4	178	110	113	86	64	322,7	98	M 80x3	0÷ 0.035	0÷ -0.35	0.065÷0.165	1060	610	4°	M24x60	710	28,00
PR 110 CE	110	110	235	106	235	190	125	124	88	62	364	105	M 90x3	0÷ 0.035	0÷ -0.35	0.065÷0.165	1200	655	4°	M24x60	710	32,00
PR 125 CE	125	125	260	113	269	200	135	138	105	74	405,7	120	M 100x3	0÷ 0.040	0÷ -0.40	0.065÷0.165	1430	950	4°	M24x70	710	46,40
PR 160 CE (3)	160	160	310	126	326	250	165	177	130	82	488	150	M 125x4	0÷ 0.040	0÷ -0.40	0.065÷0.192	2200	1370	4°	M24x80	710	81,00
PR 200 CE (3)	200	200	390	161	418	320	215	221	167	105	620	195	M 160x4	0÷ 0.046	0÷ -0.46	0.065÷0.192	3650	2120	4°	M30x100	1500	174
PR 250 CE (3)	250	250	530	205	580	420	300	315	192	142	847	265	M 200x4	0÷ 0.046	0÷ -0.40	0.065÷0.214	6400	3550	4°	M36x140	2450	425

(1) *LUBRIFICATION NOT POSSIBLE*
(2) *LUBRIFICATION HOLE - NO GREASE NIPPLE*
(3) *SPHEROID CAST IRON*
(*) *AVAILABLE ON DEMAND WITH A LEFT THREAD (ITEM CODE **PL...CE**) (PRICES TO BE AGREED)*

FISATECH



GE...DO
ISO 12240-1

PR...S

BALL JOINT ENDS



- *DIN 24555*
- *CETOP STANDARDS*
- ***WITH GREASE NIPPLE***
- *COUPLING: STEEL/STEEL*
- ***BALL JOINT END MADE IN MOULDED STEEL C45***

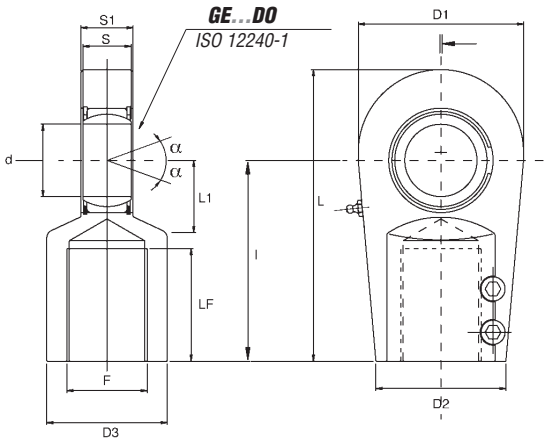
CODE *	d	S1	l	LF	D1	D2	D3	D4	S	S2	L	L1	F	TOLERANCES d mm	TOLERANCES S mm	RADIAL JOINT CLEARANCE mm	LOAD FACTOR Static C0 KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	SCREWS DIN 912 12.9	SCREWS CLAMPING TORQUE Nm	WEIGHT kg.
PR 12 S[(1)]	12	10	42	15	40	35	17	15	8	13	59.5	16	M 10x1.25	0÷-0.008	0÷-0.12	0.032÷0.068	17	10,8	11°	M6x12	10	0,15
PR 16 S[(2)]	16	14	48	17	45	45	21	20,5	11	13	70.5	20	M 12x1.25	0÷-0.008	0÷-0.12	0.040÷0.068	28,5	21,1	10°	M6x12	10	0,25
PR 20 S	20	16	58	19	55	55	25	24	13	17	85.5	25	M 14x1.5	0÷-0.010	0÷-0.12	0.040÷0.082	42,5	30	9°	M8x20	25	0,43
PR 25 S	25	20	68	23	65	62	30	29	17	18	100.5	31	M 16x1.5	0÷-0.010	0÷-0.12	0.050÷0.100	67	48	7°	M8x20	25	0,73
PR 30 S	30	22	85	29	80	77	36	34	19	19	125	35	M 20x1.5	0÷-0.010	0÷-0.12	0.050÷0.100	108	62	6°	M10x20	49	1,3
PR 40 S	40	28	105	37	100	90	45	45	23	23	155	45	M 27x2	0÷-0.012	0÷-0.12	0.060÷0.120	156	100	7°	M10x25	49	2,3
PR 50 S	50	35	130	46	122	105	55	56	30	30	190	58	M 33x2	0÷-0.012	0÷-0.12	0.060÷0.120	245	156	6°	M12x30	86	4,4
PR 60 S	60	44	150	57	160	134	68	66,5	38	38	230	68	M 42x2	0÷-0.015	0÷-0.15	0.060÷0.142	380	245	6°	M16x40	210	8,4
PR 80 S	80	55	185	64	195	156	90	89	47	47	287.5	82	M 48x2	0÷-0.015	0÷-0.15	0.072÷0.142	585	400	6°	M20x50	410	15,6
PR 100 S	100	70	240	86	235	190	110	109,5	57	57	360	116	M 64x3	0÷-0.020	0÷-0.20	0.085÷0.165	865	610	6°	M24x60	710	28

(1) *LUBRIFICATION NOT POSSIBLE*
(2) *LUBRIFICATION HOLE - NO GREASE NIPPLE*
(*) *AVAILABLE ON DEMAND WITH A LEFT THREAD (ITEM CODE **PL...S**) (PRICES TO BE AGREED)*

FISATECH

MA...D

BALL JOINT ENDS



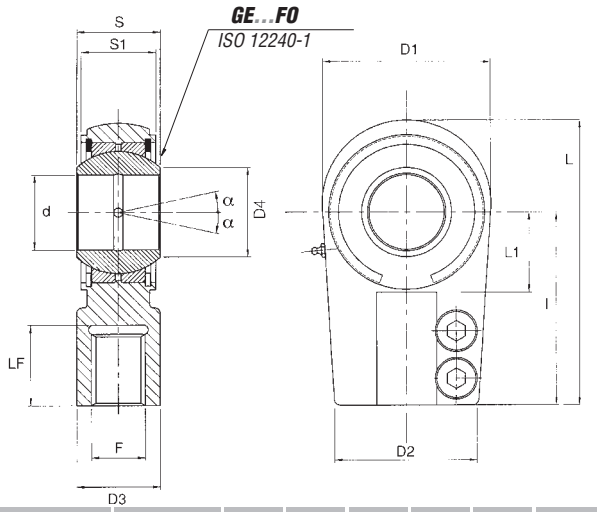
- **WITH GREASE NIPPLE**
- COUPLING: STEEL/STEEL
- **BALL JOINT MADE IN FORGED STEEL C 45**



CODE *	d	l	LF	D1	D2	D3	S	S1 -0,4	L	L1	F	ANGLE OF OSCILLATION α	LOAD FACTOR Static C0 KN	LOAD FACTOR Dynamic C KN	SCREWS DIN 912 12.9	SCREWS CLAMPING TORQUE Nm	WEIGHT kg.
MA 25 D	25 - 0.010	65	30	56	48	28	20 - 0.12	23	95	25	M 18x2	8°	66	51	8x20	20	0,65
MA 30 D	30 - 0.010	75	35	64	54	34	22 - 0.12	28	109	30	M 24x2	7°	96	65,5	8x22	20	1,0
MA 35 D	35 - 0.012	90	45	78	66	44	25 - 0.12	30	132	40	M 30x2	7°	185	112	10x25	40	1,3
MA 40 D	40 - 0.012	105	55	94	78	55	28 - 0.12	35	155	45	M 39x3	7°	297	140	12x30	80	2,4
MA 50 D	50 - 0.012	135	75	116	90	70	35 - 0.12	40	198	55	M 50x3	7°	442	220	12x35	80	4,1
MA 60 D	60 - 0.015	170	95	130	118	87	44 - 0.15	50	240	65	M 64x3	7°	539	345	16x45	160	6,5
MA 70 D	70 - 0.015	195	110	154	130	105	49 - 0.15	55	278	75	M 80x3	6°	721	440	16x50	160	9,5
MA 80 D	80 - 0.015	210	120	176	158	125	55 - 0.15	60	305	80	M 90x3	6°	895	570	20x55	300	16
MA 90 D	90 - 0.020	250	140	206	162	150	60 - 0.20	65	363	90	M 100x3	5°	1330	695	20x60	300	28
MA110 D	110 - 0,020	300	145	264	189	180	70 - 0.20	80	442	115	M 120x4	6°	2024	655	24x75	840	47
MA120 D	120 - 0,020	360	177	340	243	210	85 - 0.20	90	540	140	M 150x4	6°	2970	950	24x85	840	85
MA160 D	160 - 0,025	460	200	480	273	260	105 - 0.25	110	710	200	M 180x4	8°	4302	1370	30x100	1700	186

(*) *AVAILABLE ON DEMAND WITH A LEFT THREAD (ITEM CODE **MAL...D**) (PRICES TO BE AGREED)*

FISATECH



MA...-FO

BALL JOINT ENDS

- **WITH GREASE NIPPLE**
- COUPLING: STEEL/STEEL
- **BALL JOINT MADE IN FORGED STEEL C 45**



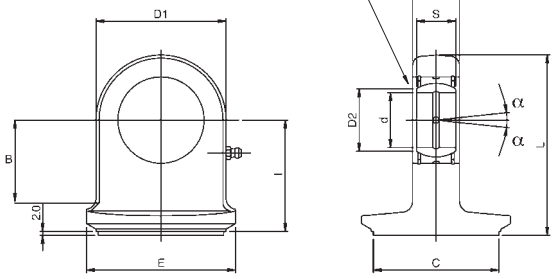
CODE *	d	l	LF	D1	D2	D3	D4	S	S1 -0,4	L	L1	F	ANGLE OF OSCILLATION α	LOAD FACTOR Static C0 KN	LOAD FACTOR Dynamic C KN	SCREWS DIN 912 12.9	SCREWS CLAMPING TORQUE Nm	WEIGHT kg.
MA 20D-FO	20- 0.010	65	30	56	48	28	25,2	25 - 0,12	23	95	25	M 18x2	8°	66	51	8x20	20	0,65
MA 25D-FO	25- 0.010	75	35	64	54	34	29,2	28 - 0,12	28	109	30	M 24x2	7°	96	65,5	8x22	20	1,0
MA 30D-FO	30- 0.012	90	45	78	66	44	34,4	32 - 0,12	30	132	40	M 30x2	7°	185	112	10x25	40	1,3
MA 35D-FO	35- 0.012	105	55	94	78	55	39,7	35 - 0,12	35	155	45	M 39x3	7°	297	140	12x30	80	2,4
MA 45D-FO	45- 0.012	135	75	116	90	70	44,7	40 - 0,15	40	198	55	M 50x3	7°	442	220	12x35	80	4,1
MA 50D-FO (2)	50- 0.015	170	95	130	118	87	50	56 - 0,15	50	240	65	M 64x3	7°	539	345	16x45	160	6,5
MA 60D-FO (2)	60- 0.015	195	110	154	130	105	67	63 - 0,20	55	278	75	M 80x3	6°	721	440	16x50	160	9,5
MA 70D-FO (2)	70- 0.015	210	120	176	158	125	78,2	70 - 0,20	60	305	80	M 90x3	6°	895	570	20x55	300	16
MA 80D-FO (2)	80- 0.020	250	140	206	162	150	87,1	75 - 0,20	65	363	90	M 100x3	5°	1330	695	20x60	300	28

(*) *AVAILABLE ON DEMAND WITH A LEFT THREAD (ITEM CODE **MAL...D-FO**) (PRICES TO BE AGREED)*

FISATECH

FT...

GE...DO
ISO 12240-1



BALL JOINT ENDS with END PLUG

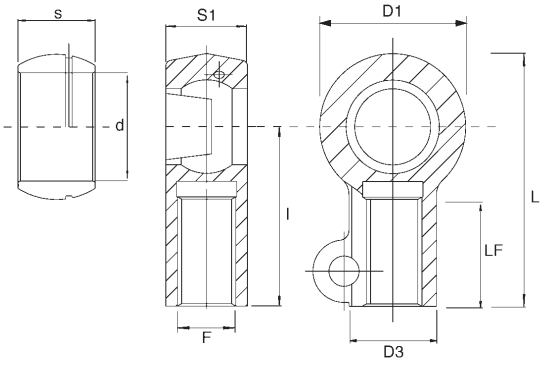
• MATERIAL **ST. 52.3**



CODE	d	S	l	D_1	S_1	L	C	E	LOAD FACTOR Dynamic C KN	LOAD FACTOR Static C0 KN	ANGLE OF OSCILLATION α	B	WEIGHT kg.
FT20/35	20 - 0,010	16 - 0,012	46	50	19	73	35	45	30	67	9	33	0,48
FT20/40	20 - 0,010	16 - 0,012	46	50	19	73	40	50	30	67	9	33	0,49
FT20/45	20 - 0,010	16 - 0,012	46	50	19	73	45	55	30	67	9	33	0,54
FT20/50	20 - 0,010	16 - 0,012	46	50	19	73	50	60	30	67	9	33	0,56
FT25/40	25 - 0,010	20 - 0,012	53	55	23	82,5	40	50	48	69,5	7	37	0,70
FT25/50	25 - 0,010	20 - 0,012	53	55	23	82,5	50	60	48	69,5	7	37	0,73
FT25/55	25 - 0,010	20 - 0,012	55	55	23	82,5	55	65	48	69,5	7	37	0,80
FT30/50	30 - 0,010	22 - 0,012	59	65	28	93,5	50	60	62	118	6	43	1,12
FT30/60	30 - 0,010	22 - 0,012	61	65	28	95,5	60	70	62	118	6	43	1,16
FT30/63	30 - 0,010	22 - 0,012	61	65	28	95,5	63	73	62	118	6	43	1,23
FT30/65	30 - 0,010	22 - 0,012	61	65	28	95,5	65	75	62	118	6	43	1,31
FT35/63	35 - 0,012	25 - 0,012	71	83	30	114,5	63	73	80	196	6	50	2,05
FT35/70	35 - 0,012	25 - 0,012	71	83	30	114,5	70	80	80	196	6	50	2,08
FT35/75	35 - 0,012	25 - 0,012	71	83	30	114,5	75	90	80	196	6	50	2,09
FT35/80	35 - 0,012	25 - 0,012	71	83	30	114,5	80	95	80	196	6	50	2,14
FT35/80/1	35 - 0,012	25 - 0,012	71	83	30	114,5	80	90	80	196	6	50	2,20
FT40/80	40 - 0,012	28 - 0,012	79	100	35	131	80	90	100	300	7	60	3,35
FT40/85	40 - 0,012	28 - 0,012	82	100	35	134	85	100	100	300	7	60	3,40
FT40/90	40 - 0,012	28 - 0,012	82	100	35	134	90	105	100	300	7	60	3,50
FT40/100	40 - 0,012	28 - 0,012	82	100	35	134	100	115	100	300	7	60	3,73
FT50/110	50 - 0,012	35 - 0,012	101	123	40	164,5	110	130	156	440	6	74	6,55
FT50/120	50 - 0,012	35 - 0,012	104	123	40	167,5	120	140	156	440	6	74	6,85
FT50/125	50 - 0,012	35 - 0,012	104	123	40	167,5	125	145	156	440	6	74	7,06
FT60/130	60 - 0,015	44 - 0,012	116	140	50	188	130	150	245	570	6	85	9,84
FT60/140	60 - 0,015	44 - 0,012	116	140	50	188	140	160	245	570	6	85	10,27
FT60/150	60 - 0,015	44 - 0,012	118	140	50	190	150	170	245	570	6	85	10,67
FT110	110 - 0,020	70 - 0,015	220	290	80	365	-	330	655	2160	6	160	75

FISATECH

TXM



BALL JOINT END FOR FORK LIFT with DISMANTLED BEARING

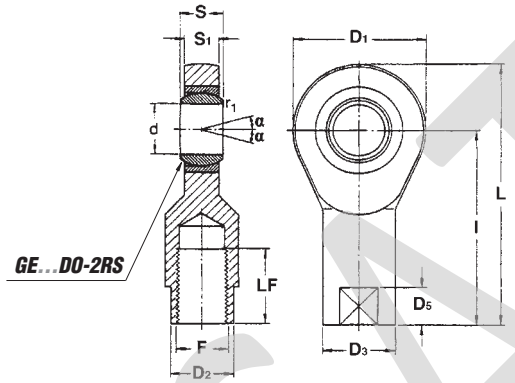


- *WITH GREASE NIPPLE*
- *COUPLING: STEEL/STEEL*
- ***BALL JOINT MADE IN FORGED STEEL C 45***

CODE *	d	l	LF	D1	S	D3	S1	L	F	LOAD FACTOR Static C0 KN	LOAD FACTOR Dynamic C KN	SCREWS DIN 931	WEIGHT kg.
TXM 25	25	92	64	75	25	45	42	129	M27x2	290	120	M14x50	1,590
TXM 30	30	92	64	75	25	45	42	129	M30x2	290	120	M14x50	1,510
TXM 35	35	92	64	75	25	45	42	129	M30x2	290	120	M14x50	1,440
JOINT SURFACE COUPLING: *STEEL / STEEL*													

(*) *NON-STANDARD THREADS AVAILABLE UP ON REQUEST*

SKF ***SI…ES-2RS***



ESI…D 2RS

BALL JOINT ENDS

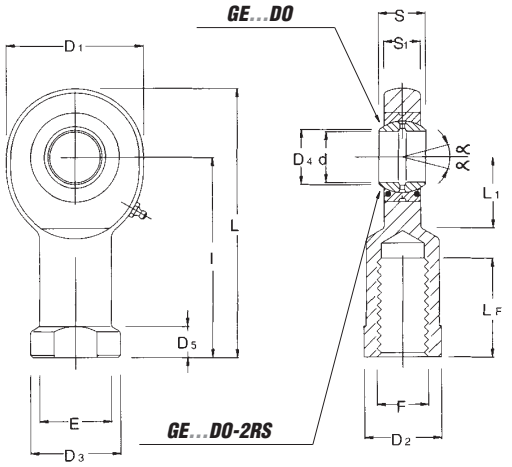


- *WITH GREASE NIPPLE*
- *COUPLING: STEEL/STEEL*
- ***BALL JOINT MADE IN GALVANIZED FORGED STEEL C 45***

CODE *	d	L	D1	D2	S	S1	F	LF	l	D3	LOAD FACTOR Static C0 KN	LOAD FACTOR Dynamic C KN	WEIGHT kg.
ESI 50 D 2RS(1)	50	252	112	60	35	30	M52x3	68	195	70	240 000	156 000	4,100
ESI 60 D 2RS(1)	60	293	135	70	44	38	M60x4	70	225	82	405 000	245 000	7,100

(1) *AVAILABLE ON REQUEST WITH MAINTENANCE FREE* ***GE*** *(****ESI…U-2RS****) (PRICES TO BE AGREED)*
(*) *AVAILABLE ON DEMAND WITH A LEFT THREAD (ITEM CODE* ***ESIL…2RS****)*
(PRICES TO BE AGREED UPON REQUEST)

FISATECH



FI...D
FI...D-2RS

BALL JOINT ENDS



- *ISO 12240-4*
- ***WITH GREASE NIPPLE***
- *COUPLING: STEEL/STEEL*
- ***BALL JOINT MADE IN GALVANIZED FORGED STEEL C 45***

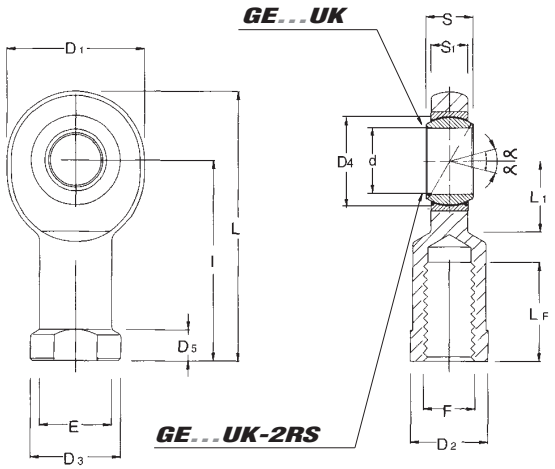
CODE *	d	l	S	LF	D1	E	D2	D3	D4	D5	S1	L	L1	F	TOLERANCES d mm	TOLERANCES S mm	RADIAL JOINT CLEARANCE mm	LOAD FACTOR Static C0 KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	WEIGHT kg.
FI 6D (1)	6	30	6	11	21	10	11	13	8	5	4,3	40,5	10,5	M6x1	0/-0.008	0/-0.12	0.023÷0.068	8,15	3,4	13°	0,021
FI 8D (1)	8	36	8	15	24	12,5	14	16	10,2	5	6	48	12	M8x1,25	0/-0.008	0/-0.12	0.023÷0.068	12,9	5,5	15°	0,039
FI 10D (1)	10	43	9	20	29	15	17	19	13,2	6,5	7	57,5	14	M10x1,5	0/-0.008	0/-0.12	0.023÷0.068	17,6	8,15	12°	0,061
FI 12D (1)	12	50	10	23	34	17,5	19	22	15	7	8	67	17,5	M12x1,75	0/-0.008	0/-0.12	0.023÷0.068	24,5	10,8	11°	0,096
FI 15D (2)	15	61	12	30	40	21	22	26	18,4	8	10	81	20	M14x2	0/-0.008	0/-0.12	0.030÷0.082	36	17	8°	0,180
FI 17D (2)	17	67	14	34	46	24	27	30	20,7	10	11	90	23	M16x2	0/-0.008	0/-0.12	0.030÷0.082	45	21,2	10°	0,220
FI 20D	20	77	16	40	53	27,5	32	35	24,1	10	13	103,5	27,5	M20x1,5	0/-0.010	0/-0.12	0.030÷0.082	60	30	9°	0,390
FI 25D	25	94	20	48	64	33,5	36	42	29,3	12	17	126	32	M24x2	0/-0.010	0/-0.12	0.037÷0.100	83	48	7°	0,580
FI 30D	30	110	22	56	73	40	41	50	34,2	15	19	146,5	37	M30x2	0/-0.010	0/-0.12	0.037÷0.100	110	62	6°	1,020
FI 35D-2RS	35	125	25	60	82	47	50	58	39,7	15	21	166	42	M36x3	0/-0.012	0/-0.12	0.037÷0.100	146	80	6°	1,460
FI 40D-2RS	40	142	28	65	94	56	56	65	45	18	23	188	48	M39x3	0/-0.012	0/-0.12	0.043÷0.120	180	100	7°	1,930
FI 45D-2RS	45	145	32	65	102	62	62	70	50,7	20	27	196	52	M42x3	0/-0.012	0/-0.12	0.043÷0.120	240	127	7°	2,650
FI 50D-2RS	50	160	35	68	112	68	68	75	56	20	30	216	59	M45x3	0/-0.012	0/-0.12	0.043÷0.120	290	156	6°	3,530
FI 60D-2RS	60	175	44	70	135	78	78	88	66,8	20	37	242,5	75	M52x3	0/-0.015	0/-0.15	0.043÷0.120	450	245	6°	5,550
FI 70D-2RS	70	200	49	80	162	85	85	98	77,8	20	42	280	87	M56x4	0/-0.015	0/-0.15	0.055÷0.142	610	315	6°	8,400
FI 80D-2RS	80	230	55	85	180	102	102	110	89,4	25	48	320	100	M64x4	0/-0.015	0/-0.15	0.055÷0.142	750	400	6°	12,700
OVERSIZE VERSION																					
FIM 40D-2RS	40	142	28	65	92	56	56	65	45	18	23	188	48	M42x3	0/-0.012	0/-0.12	0.043÷0.120	180	100	7°	1,900
FIM 45D-2RS	45	145	32	65	102	62	62	70	50,7	20	27	196	52	M45x3	0/-0.012	0/-0.12	0.043÷0.120	240	127	7°	2,590
FIM 50D-2RS	50	160	35	68	112	68	68	75	56	20	30	216	59	M52x3	0/-0.012	0/-0.12	0.043÷0.120	290	156	6°	3,400
FIM 60D-2RS	60	175	44	70	135	78	78	88	66,8	20	38	242,5	75	M60x4	0/-0.015	0/-0.15	0.043÷0.120	450	245	6°	5,380
FIM 70D-2RS	70	200	49	80	160	85	85	98	77,8	20	42	280	87	M72x4	0/-0.015	0/-0.15	0.055÷0.142	610	315	6°	8,200
FIM 80D-2RS	80	230	55	85	180	102	102	110	89,4	25	47	320	100	M80x4	0/-0.015	0/-0.15	0.055÷0.142	750	400	6°	12,400

(1) *LUBRIFICATION NOT POSSIBLE*
(2) *RE-LUBRICATION HOLE ON THE HEAD - NOT GREASE NIPPLE*
(*) *AVAILABLE ON DEMAND WITH A LEFT THREAD (ITEM CODE **FIL... /FIML...**) (PRICES TO BE AGREED)*

FISATECH

FI...U
FI...U-2RS

BALL JOINT ENDS





- *ISO 12240-4*
- ***MAINTENANCE FREE***
- *COUPLING: CHROMED STEEL / PTFE FABRIC*
- ***BALL JOINT MADE IN GALVANIZED FORGED STEEL C 45***

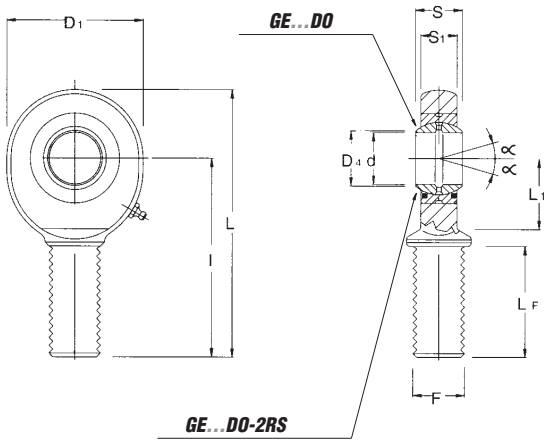
CODE *	d	l	S	LF	D1	E	D2	D3	D4	D5	S1	L	L1	F	TOLERANCES d mm	TOLERANCES S mm	RADIAL JOINT CLEARANCE mm	LOAD FACTOR Static C0 KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	WEIGHT kg.
FI 6U	6	30	6	11	21	10	11	13	8	5	4,3	40,5	10,5	M6x1	0/-0.008	0÷-0.12	0÷0.032	8,1	3,6	13°	0,021
FI 8U	8	36	8	15	24	12,5	14	16	10,2	5	6	48	12	M8x1,25	0/-0.008	0/--0.12	0÷0.032	12,9	5,8	15°	0,039
FI 10U	10	43	9	20	29	15	17	19	13,2	6,5	7	57,5	14	M10x1,5	0/-0.008	0÷-0.12	0÷0.032	17,6	8,6	12°	0,061
FI 12U	12	50	10	23	34	17,5	19	22	15	7	8	67	17,5	M12x1,75	0/-0.008	0÷-0.12	0÷0.032	24,5	11,4	11°	0,096
FI 15U	15	61	12	30	40	21	22	26	18,4	8	10	81	20	M14x2	0/-0.008	0÷-0.12	0÷0.040	36	17,6	8°	0,180
FI 17U	17	67	14	34	46	24	27	30	20,7	10	11	90	23	M16x2	0/-0.008	0÷-0.12	0÷0.040	45	22,4	10°	0,220
FI 20U	20	77	16	40	53	27,5	32	35	24,1	10	13	103,5	27,5	M20x1,5	0/-0.010	0÷-0.12	0÷0.040	60	31,5	9°	0,390
FI 25U	25	94	20	48	64	33,5	36	42	29,3	12	17	126	32	M24x2	0/-0.010	0÷-0.12	0÷0.050	83	51	7°	0,580
FI 30U	30	110	22	56	73	40	41	50	34,2	15	19	146,5	37	M30x2	0/-0.010	0÷-0.12	0÷0.050	110	66,5	6°	1,020
FI 35U-2RS	35	125	25	60	82	47	50	58	39,7	15	21	166	42	M36x3	0/-0.012	0÷-0.12	0÷0.050	146	112	6°	1,460
FI 40U-2RS	40	142	28	65	94	56	56	65	45	18	23	188	48	M39x3	0/-0.012	0÷-0.12	0÷0.060	180	140	7°	1,930
FI 45U-2RS	45	145	32	65	102	62	62	70	50,7	20	27	196	52	M42x3	0/-0.012	0÷-0.12	0÷0.060	240	180	7°	2,650
FI 50U-2RS	50	160	35	68	112	68	68	75	56	20	30	216	59	M45x3	0/-0.012	0÷-0.12	0÷0.060	290	220	6°	3,530
FI 60U-2RS	60	175	44	70	135	78	78	88	66,8	20	37	242,5	75	M52x3	0/-0.015	0÷-0.15	0÷0.060	450	345	6°	5,550
FI 70U-2RS	70	200	49	80	162	85	85	98	77,8	20	42	280	87	M56x4	0/-0.015	0÷-0.15	0÷0.072	610	440	6°	8,400
FI 80U-2RS	80	230	55	85	180	102	102	110	89,4	25	48	320	100	M64x4	0/-0.015	0÷-0.15	0÷0.072	750	570	6°	12,700
OVERSIZE VERSION																					
FIM 40U-2RS	40	142	28	65	92	56	56	65	45	18	23	188	48	M42x3	0/-0.012	0÷-0.12	0÷0.060	180	140	7°	1,900
FIM 45U-2RS	45	150	32	65	102	62	62	70	50,7	20	27	196	52	M45x3	0/-0.012	0÷-0.12	0÷0.060	240	180	7°	2,590
FIM 50U-2RS	50	160	35	68	112	68	68	75	56	20	30	216	59	M52x3	0/-0.012	0÷-0.12	0÷0.060	290	220	6°	3,400
FIM 60U-2RS	60	175	44	70	135	78	78	88	66,8	20	38	242,5	75	M60x4	0/-0.015	0÷-0.15	0÷0.060	450	345	6°	5,380
FIM 70U-2RS	70	200	49	80	160	85	85	98	77,8	20	42	280	87	M72x4	0/-0.015	0÷-0.15	0÷0.072	610	440	6°	8,200
FIM 80U-2RS	80	230	55	85	180	102	102	110	89,4	25	47	320	100	M80x4	0/-0.015	0÷-0.15	0÷0.072	750	570	6°	12,400

(*) *AVAILABLE ON DEMAND WITH A LEFT THREAD (ITEM CODE **FIL... /FIML...**) (PRICES TO BE AGREED)*

FISATECH

FE...D
FE...D-2RS

BALL JOINT ENDS





- *ISO 12240-4*
- ***WITH GREASE NIPPLE***
- *COUPLING: STEEL/STEEL*
- ***BALL JOINT MADE IN GALVANIZED FORGED STEEL C 45***

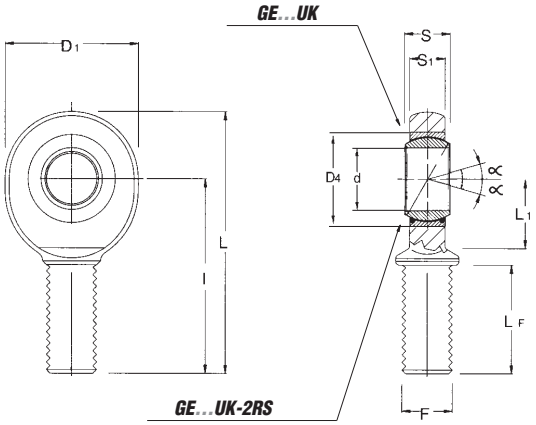
CODE *	d	l	S	LF	D1	D4	S1	L	L1	F	TOLERANCES d mm	TOLERANCES S mm	RADIAL JOINT CLEARANCE mm	LOAD FACTOR Static C0 KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	WEIGHT kg.
FE 6D (1)	6	36	6	18	21	8	4,4	46,5	12	M6x1	0/-0.008	0/-0.12	0,023÷0.068	8,1	3,4	13°	0,017
FE 8D (1)	8	42	8	22	24	10,2	6	54	14	M8x1,25	0/-0.008	0/-0.12	0,023÷0.068	12,9	5,5	15°	0,030
FE 10D (1)	10	48	9	27	29	13,2	7	62,5	15	M10x1,5	0/-0.008	0/-0.12	0,023÷0.068	17,6	8,1	12°	0,050
FE 12D (1)	12	54	10	30	34	15	8	71	18	M12x1,75	0/-0.008	0/-0.12	0,023÷0.068	24,5	10,8	11°	0,086
FE 15D (2)	15	63	12	34	40	18,4	10	83	20	M14x2	0/-0.008	0/-0.12	0,030÷0.082	36	17	8°	0,140
FE 17D (2)	17	69	14	36	46	20,7	11	92	23	M16x2	0/-0.008	0/-0.12	0,030÷0.082	45	21,2	10°	0,190
FE 20D (2)	20	78	16	43	53	24,1	13	106,5	27	M20x1,5	0/-0.010	0/-0.12	0,030÷0.082	60	30	9°	0,310
FE 25D	25	94	20	53	64	29,3	17	126	33	M24x2	0/-0.010	0/-0.12	0,037÷0.100	83	48	7°	0,560
FE 30D	30	110	22	65	73	34,2	19	146,5	37	M30x2	0/-0.010	0/-0.12	0,037÷0.100	110	62	6°	0,890
FE 35D-2RS	35	140	25	82	82	39,7	21	181	42	M36x3	0/-0.012	0/-0.12	0,037÷0.100	146	80	6°	1,4
FE 40D-2RS	40	150	28	86	93	45	23	196	48	M39x3	0/-0.012	0/-0.12	0,043÷0.120	180	100	7°	1,8
FE 45D-2RS	45	163	32	94	102	50,7	27	214	52	M42x3	0/-0.012	0/-0.12	0,043÷0.120	240	127	7°	2,6
FE 50D-2RS	50	185	35	106	112	56	30	241	60	M45x3	0/-0.012	0/-0.12	0,043÷0.120	290	156	6°	3,4
FE 60D-2RS	60	210	44	115	135	66,8	38	277,5	75	M52x3	0/-0.015	0/-0.15	0,043÷0.120	450	245	6°	5,9
FE 70D-2RS	70	235	49	125	160	77,8	42	315	87	M56x4	0/-0.015	0/-0.15	0,055÷0.142	610	315	6°	8,2
FE 80D-2RS	80	270	55	140	180	89,4	48	360	100	M64x4	0/-0.015	0/-0.15	0,055÷0.142	750	400	6°	12,0
OVERSIZE VERSION																	
FEM 40D-2RS	40	150	28	86	92	45	23	196	48	M42x3	0/-0.012	0/-0.12	0,043÷0.120	180	100	7°	1,85
FEM 45D-2RS	45	163	32	94	102	50,7	27	214	52	M45x3	0/-0.012	0/-0.12	0,043÷0.120	240	127	7°	2,66
FEM 50D-2RS	50	185	35	106	112	56	30	241	60	M52x3	0/-0.012	0/-0.12	0,043÷0.120	290	156	6°	3,5
FEM 60D-2RS	60	210	44	115	135	66,8	38	277	75	M60x4	0/-0.015	0/-0.15	0,043÷0.120	450	245	6°	6,02
FEM 70D-2RS	70	235	49	125	160	77,8	42	315	87	M72x4	0/-0.015	0/-0.15	0,055÷0.142	610	315	6°	8,38
FEM 80D-2RS	80	270	55	140	180	89,4	47	360	100	M80x4	0/-0.015	0/-0.15	0,055÷0.142	750	400	6°	12

(1) *MAINTENANCE-FREE -* ***(2)*** *RE-LUBRICATION HOLE ON THE HEAD - NO GREASE NIPPLE*
(*) *AVAILABLE ON DEMAND WITH LEFT THREAD (ITEM CODE* ***FEL... /FEML...****)(PRICES TO BE AGREED)*

FISATECH

FE...U
FE...U-2RS

BALL JOINT ENDS



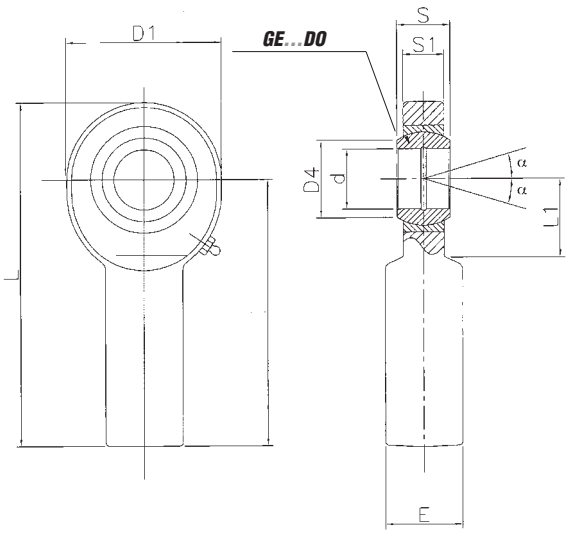


- *ISO 12240-4*
- ***SERVICE FREE***
- *COUPLING: CHROMED STEEL/ PTFE FABRIC*
- ***BALL JOINT MADE IN GALVANIZED FORGED STEEL C 45***

CODE *	d	l	S	LF	D1	D4	S1	L	L1	F	TOLERANCES d mm	TOLERANCES S mm	RADIAL JOINT CLEARANCE mm	LOAD FACTOR Static C0 KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	WEIGHT kg.
FE 6U	6	36	6	18	21	8	4,4	46,5	12	M6x1	0/-0.008	0/-0.12	0÷0.032	8,1	3,5	13°	0,017
FE 8U	8	42	8	22	24	10,2	6	54	14	M8x1,25	0/-0.008	0/-0.12	0÷0.032	12,9	5,8	15°	0,030
FE 10U	10	48	9	27	29	13,2	7	62,5	15	M10x1,5	0/-0.008	0/-0.12	0÷0.032	17,6	8,6	12°	0,050
FE 12U	12	54	10	30	34	15	8	71	18	M12x1,75	0/-0.008	0/-0.12	0÷0.032	24,5	11,4	11°	0,086
FE 15U	15	63	12	34	40	18,4	10	83	20	M14x2	0/-0.008	0/-0.12	0÷0.040	36	17,6	8°	0,140
FE 17U	17	69	14	36	46	20,7	11	92	23	M16x2	0/-0.008	0/-0.12	0÷0.040	45	22,4	10°	0,190
FE 20U	20	78	16	43	53	24,1	13	104,5	27	M20x1,5	0/-0.010	0/-0.12	0÷0.040	60	31,5	9°	0,310
FE 25U	25	94	20	53	64	29,3	17	126	33	M24x2	0/-0.010	0/-0.12	0÷0.050	83	51	7°	0,560
FE 30U	30	110	22	65	73	34,2	19	146,5	37	M30x2	0/-0.010	0/-0.12	0÷0.050	110	65,5	6°	0,890
FE 35U-2RS	35	140	25	82	82	39,7	21	181	42	M36x3	0/-0.012	0/-0.12	0÷0.050	146	112	6°	1,4
FE 40U-2RS	40	150	28	86	93	45	23	196	48	M39x3	0/-0.012	0/-0.12	0÷0.060	180	140	7°	1,8
FE 45U-2RS	45	163	32	94	102	50,7	27	214	52	M42x3	0/-0.012	0/-0.12	0÷0.060	240	180	7°	2,6
FE 50U-2RS	50	185	35	106	112	56	30	241	60	M45x3	0/-0.012	0/-0.12	0÷0.060	290	220	6°	3,4
FE 60U-2RS	60	210	44	115	135	66,8	38	277,5	75	M52x3	0/-0.015	0/-0.15	0÷0.060	450	345	6°	5,9
FE 70U-2RS	70	235	49	125	160	77,8	42	315	87	M56x4	0/-0.015	0/-0.15	0÷0.072	610	440	6°	8,2
FE 80U-2RS	80	270	55	140	180	89,4	48	360	100	M64x4	0/-0.015	0/-0.15	0÷0.072	750	570	6°	12,0
OVERSIZE VERSION																	
FEM 40U-2RS	40	150	28	86	92	45	23	196	48	M42x3	0/-0.012	0/-0.12	0÷0.060	180	140	7°	1,85
FEM 45U-2RS	45	163	32	94	102	50,7	27	214	52	M45x3	0/-0.012	0/-0.12	0÷0.060	240	180	7°	2,66
FEM 50U-2RS	50	185	35	106	112	56	30	241	60	M52x3	0/-0.012	0/-0.12	0÷0.060	290	220	6°	3,50
FEM 60U-2RS	60	210	44	115	135	66,8	38	277,5	75	M60x4	0/-0.015	0/-0.15	0÷0.060	450	345	6°	6,02
FEM 70U-2RS	70	235	49	125	160	77,8	42	315	87	M72x4	0/-0.015	0/-0.15	0÷0.072	610	440	6°	8,38
FEM 80U-2RS	80	270	55	140	180	89,4	47	360	100	M80x4	0/-0.015	0/-0.15	0÷0.072	750	570	6°	12,2

(*) *AVAILABLE ON DEMAND WITH LEFT THREAD (ITEM CODE* ***FIL... /FEML...****)(PRICES TO BE AGREED)*

FISATECH



SFE...D

BALL JOINT ENDS



- *ISO 12240-4*
- ***WITH GREASE NIPPLE***
- *COUPLING: STEEL/STEEL*
- ***BALL JOINT MADE IN GALVANIZED FORGED STEEL C 45***

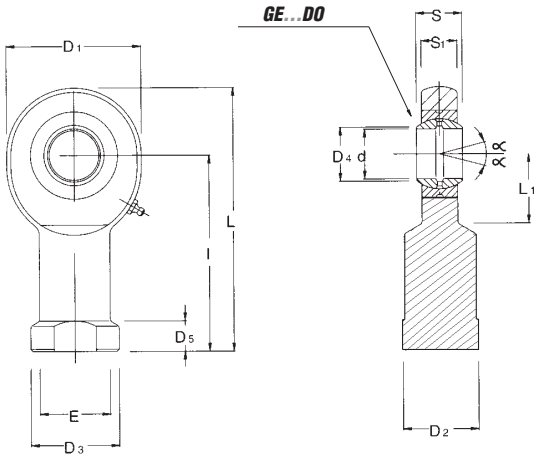
CODE *	d	l	S	D1	D4	S1	L	L1	E	TOLERANCES d mm	TOLERANCES S mm	RADIAL JOINT CLEARANCE mm	LOAD FACTOR Static C0 KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	WEIGHT kg.
SFE 15D (1)	15	63	12	40	18,4	10	83	20	16	0/-0.008	0/-0.12	0,030÷0.082	36	17	8°	0,140
SFE 17D (1)	17	69	14	46	20,7	11	92	23	18	0/-0.008	0/-0.12	0,030÷0.082	45	21,2	10°	0,190
SFE 20D (1)	20	78	16	53	24,1	13	106,5	27	22	0/-0.010	0/-0.12	0,030÷0.082	60	30	9°	0,310
SFE 25D	25	94	20	64	29,3	17	126	33	27	0/-0.010	0/-0.12	0,037÷0.100	83	48	7°	0,560
SFE 30D	30	110	22	73	34,2	19	146,5	37	33	0/-0.010	0/-0.12	0,037÷0.100	110	62	6°	0,890
SFE 35D	35	140	25	82	39,7	21	181	42	39	0/-0.012	0/-0.12	0,037÷0.100	146	80	6°	1,4
SFE 40D	40	150	28	93	45	23	196	48	45	0/-0.012	0/-0.12	0,043÷0.120	180	100	7°	1,8
SFE 45D	45	163	32	102	50,7	27	214	52	48	0/-0.012	0/-0.12	0,043÷0.120	240	127	7°	2,6
SFE 50D	50	185	35	112	56	30	241	60	55	0/-0.012	0/-0.12	0,043÷0.120	290	156	6°	3,4
SFE 60D	60	210	44	135	66,8	38	277,5	75	63	0/-0.015	0/-0.15	0,043÷0.120	450	245	6°	5,9
SFE 70D	70	235	49	160	77,8	42	315	87	75	0/-0.015	0/-0.15	0,055÷0.142	610	315	6°	8,2
SFE 80D	80	270	55	180	89,4	48	360	100	83	0/-0.015	0/-0.15	0,055÷0.142	750	400	6°	12,0

(1) *RE-LUBRICATION HOLE ON THE HEAD - NOT GREASE NIPPLE*
(*) *AVAILABLE ON DEMAND WITH 2 RS SEALS (PRICES TO BE AGREED)*

FISATECH

SFI...D

BALL JOINT ENDS





- *ISO 12240*
- ***WITH GREASE NIPPLE***
- *COUPLING: STEEL/STEEL*
- ***BALL JOINT END MADE IN GALVANISED FORGED STEEL C45***

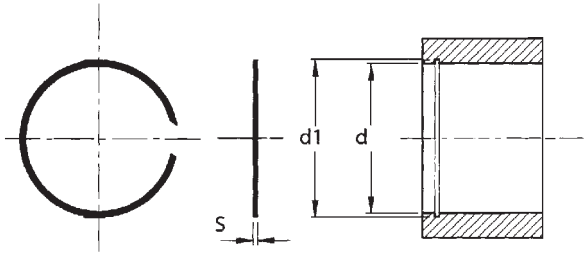
CODE *	d	l	S	D1	E	D2	D3	D4	D5	S1	L	L1	TOLERANCES d mm	TOLERANCES S mm	RADIAL JOINT CLEARANCE mm	LOAD FACTOR Static CO KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	WEIGHT kg.
SFI 15D(2)	15	61	12	40	21	22	26	18,4	8	10	81	20	0/-0.008	0/-0.12	0.030 / 0.082	36	17	8°	0,220
SFI 17D(2)	17	67	14	46	24	27	30	20,7	10	11	90	23	0/-0.008	0/-0.12	0.030 / 0.082	45	21,2	10°	0,300
SFI 20D	20	77	16	53	27,5	32	35	24,1	10	13	103,5	27,5	0/-0.010	0/-0.12	0.030 / 0.082	60	30	9°	0,410
SFI 25D	25	94	20	64	33,5	36	42	29,3	12	17	126	32	0/-0.010	0/-0.12	0.037 / 0.100	83	48	7°	0,810
SFI 30D	30	110	22	73	40	41	50	34,2	15	19	146,5	37	0/-0.010	0/-0.12	0.037 / 0.100	110	62	6°	1,200
SFI 35D	35	125	25	82	47	50	58	39,7	15	21	166	42	0/-0.012	0/-0.12	0.037 / 0.100	146	80	6°	1,900
SFI 40D	40	142	28	94	56	56	65	45	18	23	188	48	0/-0.012	0/-0.12	0.043 / 0.120	180	100	7°	2,700
SFI 45D	45	145	32	102	62	62	70	50,7	20	27	196	52	0/-0.012	0/-0.12	0.043 / 0.120	240	127	7°	3,400
SFI 50D	50	160	35	112	68	68	75	56	20	30	216	59	0/-0.012	0/-0.12	0.043 / 0.120	290	156	6°	4,500
SFI 60D	60	175	44	135	78	78	88	66,8	20	37	242,5	75	0/-0.015	0/-0.15	0.043 / 0.120	450	245	6°	6,900
SFI 70D	70	200	49	162	85	85	98	77,8	20	42	280	87	0/-0.015	0/-0.15	0.055 / 0.142	610	315	6°	10,500
SFI 80D	80	230	55	180	102	102	110	89,4	25	48	320	100	0/-0.015	0/-0.15	0.055 / 0.142	750	400	6°	15,000

(2) *RE-LUBRICATION HOLE ON THE HEAD - NOT GREASE NIPPLE*
(*) *AVAILABLE ON DEMAND WITH SPHERICAL PLAIN BEARINGS WITH 2RS SEALS (PRICES TO BE AGREED)*

FISATECH

SB...

SEEGER - INTERNAL ELASTIC RINGS FOR HOLES

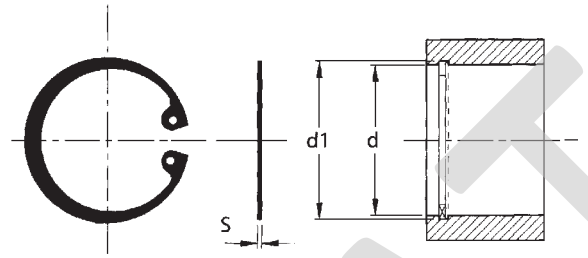


CODE	Ø (nominal) d	GE Ø	Ø d1	S
SB 022	22	12	22.6	1.2
SB 026	26	15	26.8	1.2
SB 028	28	16	28.8	1.2
SB 030	30	17	31.0	1.5
SB 035	35	20	36.0	1.5
SB 042	42	25	43.2	1.5
SB 047	47	30	48.2	1.5
SB 052	52	32	53.5	1.5
SB 055	55	35	56.5	1.5
SB 062	62	40	64.3	1.5
SB 068	68	45	70.3	1.5

SI...

DIN 472 - UNI 7437

SEEGER - INTERNAL ELASTIC RINGS FOR HOLES

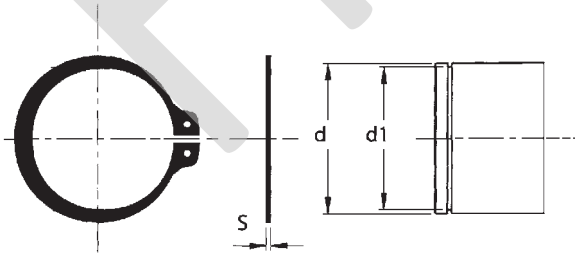


CODE	Ø (nominal) d	GE Ø	Ø d1	S
SI 075	75	50	78	2.5
SI 090	90	60	93.5	3.0
SI 095	95	63	98.5	3.0
SI 105	105	70	109	4.0
SI 120	120	80	124	4.0
SI 130	130	90	134	4.0
SI 150	150	100	155	4.0
SI 160	160	110	165	4.0
SI 180	180	120	185	4.0
SI 180	180	125	185	4.0
SI 230	230	160	236	5.0
SI 290	290	200	298	5.0

SE...

DIN 471 - UNI 7435

SEEGER - INTERNAL ELASTIC RINGS FOR ROD



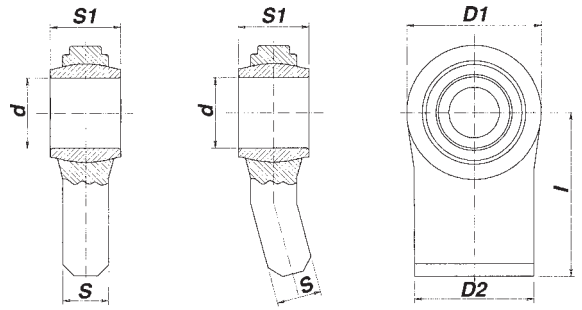
CODE	Ø (nominal) d	Ø d1	S
SE 010	10	9.6	1.0
SE 012	12	11.5	1.0
SE 014	14	13.4	1.0
SE 016	16	15.2	1.0
SE 020	20	19.0	1.2
SE 025	25	23.9	1.2
SE 027	27	25.6	1.2
SE 028	28	26.6	1.5
SE 034	34	32.3	1.5
SE 035	35	33.0	1.5
SE 036	36	34.0	1.75
SE 045	45	42.5	1.75
SE 056	56	53.0	2.0
SE 070	70	67.0	2.5

FISATECH

R

S
BALL JOINT END

- MATERIAL ST. 52.3



TYPE A TYPE B

	CODE	CAT.	D3	d (TOLLERANZ)	S1	D2	S	D1	l	T	WEIGHT Kg.
	* R 1490	-	28	14 (A12)	32	30	11	46	60	A	0,30
	R 1495	-	28	16 (A12)	20	30	11	46	60	A	0,27
	* R 1496	-	38	19 (A12)	44	50	17	50	50	A	0,46
	R 1497	-	44	19 (A12)	35	50	15	65	45	A	0,56
	* R 1498	1	44	22 (A12)	35	50	15	65	45	A	0,54
	* R 1501	1	44	22 (A12)	35	50	15	68	90	A	0,92
	* R 1503	1	44	22 (A12)	35	55	15	66	70	A	0,70
	* R 1508	1	44	22 (A12)	35	60	15	65	90	B	0,98
	* R 1510	1	48	22 (A12)	35	70	18	76	50	A	0,82
	R 1515	-	48	25,4 (A12)	35	70	18	76	50	A	0,78
	R 1520	-	48	26 (A12)	35	70	18	76	50	A	0,78
	R 1530	2	48	28,4 (A12)	35	70	18	76	50	A	0,76

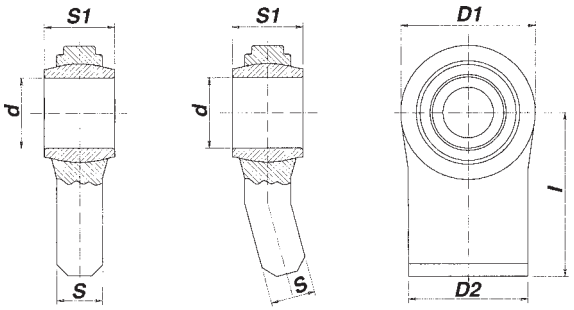
(*) CODE OF THE MAIN HOUSING

FISATECH

R

BALL JOINT END

- MATERIAL ST. 52.3

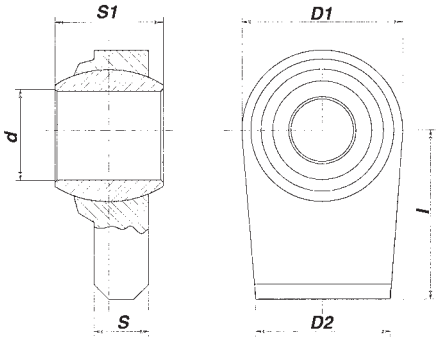


TYPE A TYPE B

	CODE	CAT.	D3	d (TOLLERANZ)	S1	D2	S	D1	l	T	WEIGHT Kg.
	* R 1540	1	56	22 (A12)	35	70	18	83	55	A	1,18
	R 1550	-	56	25,4 (A12)	35	70	18	83	55	A	1,16
	R 1560	2	56	28,4 (A12)	35	70	18	83	55	A	1,12
	R 1562	2	56	28,4 (A12)	45	70	18	83	55	A	1,16
	R 1566	-	50	25,4 (A12)	38	70	22	80	80	A	1,56
	R 1568	2	50	28,4 (A12)	38	70	22	80	80	A	1,52
	* R 1575	2	50	28,4 (A12)	45	70	22	80	80	A	1,54
	* R 1570	2	58	28,4 (A12)	45	70	22	80	65	A	1,32
	R 1590	1/2	58	22/28,4 (A12)	45	70	22	80	65	A	1,22
	* R 1579	2	56	28,4 (A12)	45	76	17	90	82	A	1,48
	* R 1585	2	58	28,4 (A12)	45	70	20	83	110	B	1,84
	* R 1580	2	62	28,4 (A12)	45	70	22	96	65	A	1,70
	R 1597	-	62	32 (A12)	45	70	22	96	65	A	1,66
	R 1600	-	62	34 (A12)	45	70	22	96	65	A	1,62
	R 1602	-	62	35 (A12)	45	70	22	96	65	A	1,60
	R 1604	3	62	37 (A12)	45	70	22	96	65	A	1,56
	* R 1610	-	64	38 (A12)	45	80	24	108	65	A	1,96
	R 1612	-	64	34 (A12)	45	80	24	108	65	A	2,04
	R 1614	3	64	37 (A12)	45	80	24	108	65	A	1,98
	R 1615	2	64	28,4 (A12)	45	80	24	108	65	A	2,16
	R 1616	-	64	35 (A12)	45	80	24	108	65	A	2,00
	R 1617	1/2	64	42 (A12)	45	80	24	108	65	A	1,88

(*) CODE OF THE MAIN HOUSING

FISATECH



R

BALL JOINT END

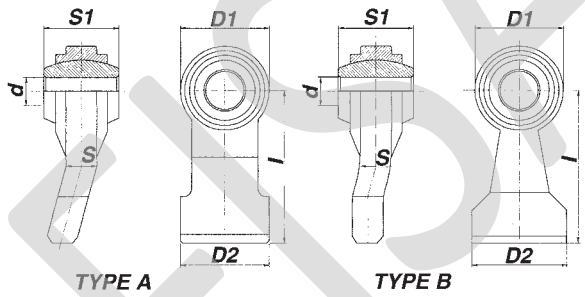
- MATERIAL ST. 52.3







CODE	CAT.	D3	d (TOLLERANZ)	S1	D2	S	D1	l	WEIGHT Kg.
R 1499	-	44	19 (A12)	35	56	18	67	50	0,74
* **R 1500**	1	44	22 (A12)	35	56	18	67	50	0,72
* **R 1505**	1	44	22 (A12)	35	56	18	67	75	0,94
* **R 1576**	2	56	28,4 (A12)	45	70	18	85	80	1,44
R 1578	2	56	28,4 (A12)	35	70	18	85	80	1,40



R

BALL JOINT ENDs

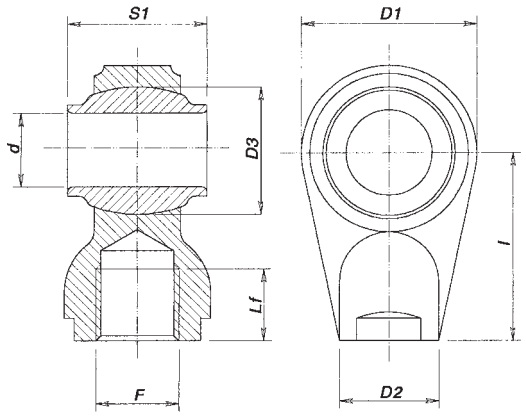
- MATERIAL ST. 52.3

Cod.	Cat.	d (tolleranze)	S1	D2	S	D1	l	Type	Rif. orig. FIAT	WEIGHT Kg.
* **R 1620**	2	28,4 (A12)	45	83	20	70	110	A	01930293	2,24
R 1621	2	28,4 (A12)	45	100	34	100	125	B	-	3,52
R 1622	-	35 (A12)	45	100	34	100	125	B	4997106	3,38
R 1624	3	37 (A12)	45	100	34	100	125	B	-	3,34

(*) CODE OF THE MAIN HOUSING

FISATECH

R



BALL JOINT END

WITH HOLE FOR CENTERING PIN

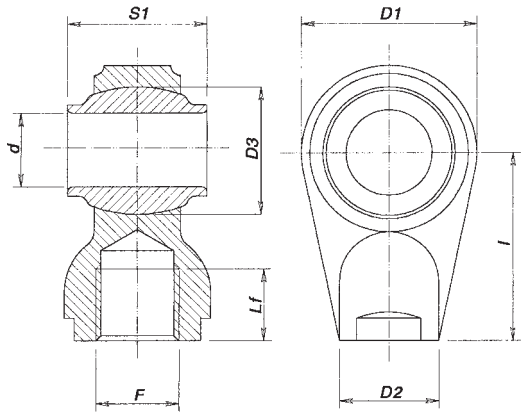
- *MATERIAL ST. 52.3*

	CODE	CAT.	D3	D(TOLLERANZ)	S1	D2	D1	I	F	LF	WEIGHT Kg.
	**R 1693**	-	38	14 (A12)	44	25	53	50	-	-	0,46
	* **R 1694**	1	38	19 (A12)	30	25	53	50	-	-	0,40
	R 1695	1	38	19 (A12)	44	25	53	50	-	-	0,42
	R 1696	-	38	20 (A12)	44	25	53	50	-	-	0,41
	* **R 1700**	1	38	19 (A12)	44	30x14	58	34	-	-	0,44
	R 1702	-	38	20 (A12)	44	30x14	58	34	-	-	0,42
	R 1704	-	38	22 (A12)	44	30x14	58	34	-	-	0,41
	**R 1707**	-	38	22 (A12)	44	34	62	58	-	-	0,58
	* **R 1708**	1	38	19 (A12)	44	34	62	58	-	-	0,60
	R 1709	1	38	20 (A12)	44	34	62	58	-	-	0,59
	* **R 1710**	1	38	19 (A12)	44	34	62	60	-	-	0,62
	R 1712	1	38	22 (A12)	44	34	62	60	-	-	0,60
	R 1720	1	38	20 (A12)	44	34	62	60	-	-	0,61
	**R 1724**	1	44	19 (A12)	35	26	62	50	-	-	0,54
	* **R 1725**	-	44	22 (A12)	35	26	62	50	-	-	0,52
	**R 1730**	-	50	22 (A12)	51	38	75	65	-	-	0,98
	R 1735	2	50	25,4 (A12)	40	38	75	65	-	-	0,90
	R 1737	1	50	19 (A12)	51	38	75	65	-	-	1,02
	R 1739	-	50	30 (A12)	51	38	75	65	-	-	0,88
	* **R 1740**	2	50	25,4 (A12)	51	38	75	65	-	-	0,94

(*) *CODE OF THE MAIN HOUSING*

FISATECH

R



BALL JOINT END

WITH HOLE FOR CENTERING PIN

- *MATERIAL ST. 52.3*











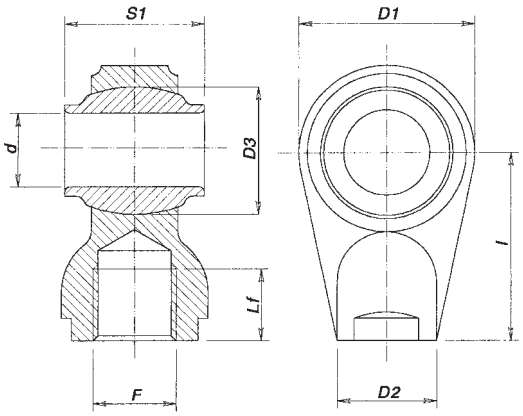


CODE	CAT.	D3	D(TOLLERANZ)	S1	D2	D1	l	F	LF	WEIGHT Kg.
* R 1731	1	50	19 (A12)	51	35	75	55	-	-	0,88
R 1732	-	50	22 (A12)	51	35	75	55	-	-	0,87
R 1736	2	50	25,4 (A12)	51	35	75	55	-	-	0,84
R 1738	-	50	30 (A12)	51	35	75	55	-	-	0,78
* R 1741	2	50	25,4 (A12)	51	30	75	70	-	-	0,90
* R 1742	2	50	25,4 (A12)	51	45	70	70	-	-	1,14
R 1744	1	50	19 (A12)	51	45	70	70	-	-	1,22
R 1746	-	50	22 (A12)	51	45	70	70	-	-	1,18
R 1748	-	50	30 (A12)	51	45	70	70	-	-	1,08
R 1756	-	50	22 (A12)	51	50	85	70	-	-	1,64
R 1759	1	50	19 (A12)	51	50	85	70	-	-	1,68
* R 1760	2	50	25,4 (A12)	51	50	85	70	-	-	1,62
R 1768	-	50	22 (A12)	51	50	85	70	M27x2	27	1,50
R 1769	1	50	19 (A12)	51	50	85	70	M27x2	2	1,54
R 1770	2	50	25,4 (A12)	51	50	85	70	M27x2	27	1,46
R 1780	-	50	30 (A12)	51	50	85	70	-	-	1,65
R 1790	-	50	30 (A12)	51	50	85	70	M27x2	27	1,40
* R 1791	2	54	25,4 (A12)	51	38	90	85	-	-	1,68
R 1792	-	54	30 (A12)	51	38	90	85	-	-	1,64
R 1793	3	54	32 (A12)	51	38	90	85	-	-	1,58
R 1794	3	54	32 (A12)	51	38	90	85	M27x2	25	1,44
R 1795	-	54	35 (A12)	55	38	90	85	-	-	1,52
R 1796	1/2	54	19/25,4 (A12)	51	38	90	85	M27x2	25	1,56
R 1750	2	54	25,4 (A12)	51	50	83	65	-	-	1,38
R 1800	-	54	29 (A12)	55	50	83	65	-	-	1,38
R 1805	-	54	30 (A12)	42	50	83	65	-	-	1,30
R 1807	3	54	32 (A12)	51	50	83	65	-	-	1,30
* R 1810	-	54	30 (A12)	55	50	83	65	-	-	1,36
R 1812	-	54	35 (A12)	35	50	83	65	-	-	1,20
R 1815	-	54	35 (A12)	55	50	83	65	-	-	1,24

(*) *CODE OF THE MAIN HOUSING*

FISATECH

R



BALL JOINT END

WITH HOLE FOR CENTERING PIN

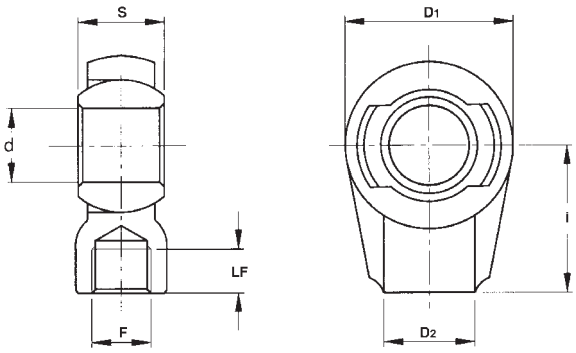
- *MATERIAL ST. 52.3*

	CODE	CAT.	D3	D(TOLLERANZ)	S1	D2	D1	l	F	LF	WEIGHT Kg.
	* R 1808	-	54	30 (A12)	55	45	83	65	-	-	1,50
	R 1811	3	54	32 (A12)	51	45	83	65	-	-	1,40
	R 1814	-	54	35 (A12)	55	45	83	65	-	-	1,42
	R 1816	-	54	29 (A12)	55	50	92	65	-	-	1,60
	* R 1817	-	54	30 (A12)	55	50	92	65	-	-	1,58
	R 1818	-	54	30 (A12)	42	50	92	65	-	-	1,52
	R 1825	3	54	32 (A12)	51	50	92	65	-	-	1,54
	R 1819	-	54	35 (A12)	35	50	92	65	-	-	1,42
	* R 1820	-	78	40 (A12)	75	60	108	85	-	-	3,42
	R 1830	-	78	40 (A12)	75	60	108	85	M38x2	28	3,10
	R 1840	-	78	45 (A12)	75	60	108	85	-	-	3,22
	R 1850	-	78	45 (A12)	75	60	108	85	M38x2	28	2,90
	R 1860	-	78	50 (A12)	75	60	108	85	-	-	3,02
	R 1870	-	78	50 (A12)	75	60	108	85	M38x2	28	2,70
	* R 1871 (R)	-	78	40 (A12)	75	65	128	85	-	-	6,38
	R 1872 (R)	-	78	45 (A12)	75	65	128	85	-	-	6,18
	R 1873 (R)	-	78	50 (A12)	75	65	128	85	-	-	5,98
	R 1874 (R)	-	78	40 (A12)	75	65	128	85	M38x2	28	6,16
	R 1875 (R)	-	78	45 (A12)	75	65	128	85	M38x2	28	5,96
	R 1876 (R)	-	78	50 (A12)	75	65	128	85	M38x2	28	5,76
	* R 1880 (R)	-	98	60 (H7)	100	75	140	87	-	-	5,66

(R) *OVERHAULED DISK*
(*) *CODE OF THE MAIN HOUSING*

FISATECH

R...



HOUSING WITH DISMATLED BALL JOINT



- *COUPLING: STEEL/STEEL*
- *HOUSING STEEL C. 45*

CODE	d (H 10)	S	D_2	D_1	l	F	LF	WEIGHT Kg.
R 1900	*16*	*20*	*27*	*44*	*45*	*M 16x1.5*	*20*	*0.28*
R 1910	*20*	*20*	*27*	*44*	*45*	*M 18x1.5*	*20*	*0.25*
R 1920	*25*	*30*	*35*	*61*	*60*	*M 20x1.5*	*25*	*0.80*
R 1930	*30*	*30*	*35*	*61*	*60*	*M 22x1.5*	*25*	*0.72*
R 1940	*35*	*40*	*45*	*80*	*80*	*M 27x2*	*35*	*1.70*
R 1950	*40*	*40*	*45*	*80*	*80*	*M 30x2*	*35*	*1.60*

*ON DEMAND RECTIFIED HOLE **"d"***

FISATECH