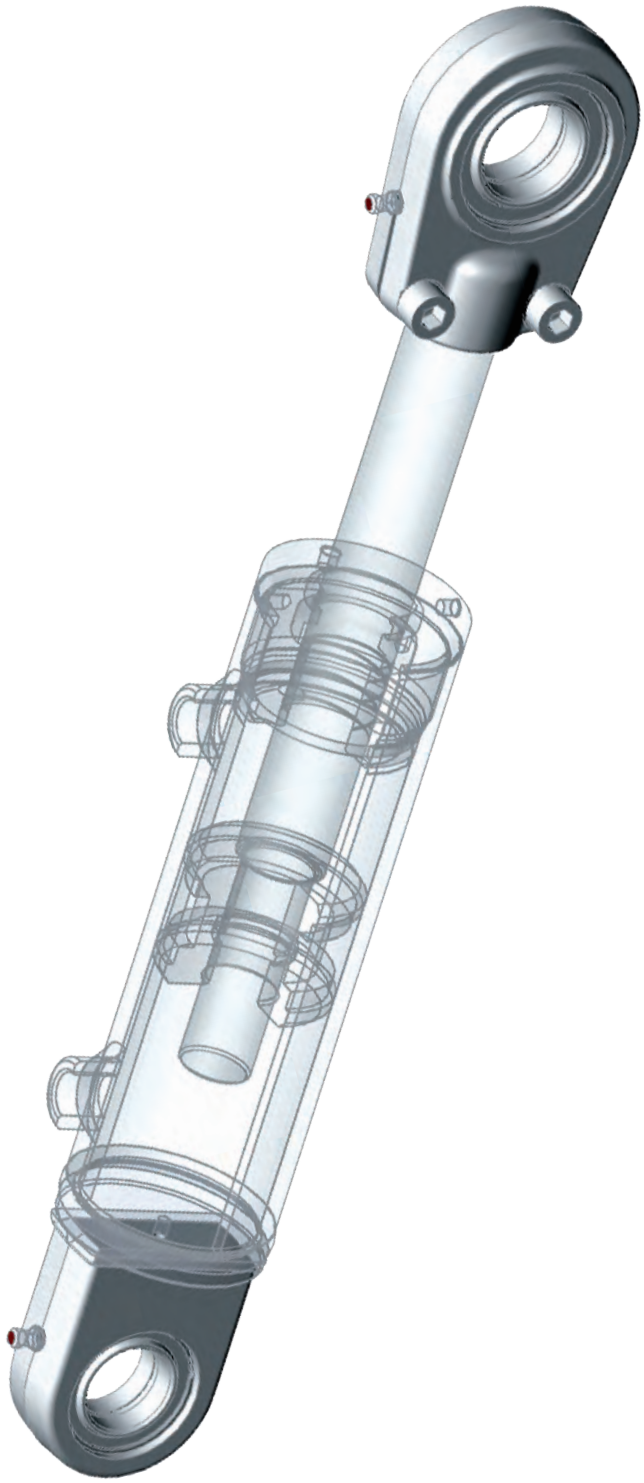
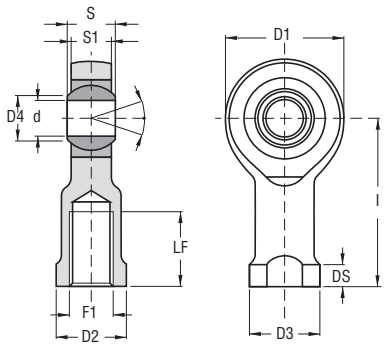
STAINLESS STEEL







PFI...U-N/I

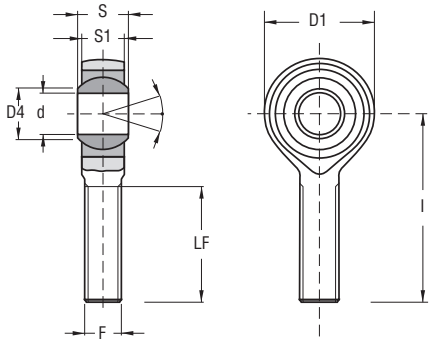
BALL JOINT ENDS



- *ISO 12240-4K*
- *HOUSING MATERIAL:* ***STAINLESS STEEL AISI 304***
- *BEARING MATERIAL:* ***STAINLESS STEEL AISI 440C***
- ***PTFE*** *FABRIC*

CODE *	d (H7)	D4	S	S1	D1	F	I	LF	D3	DS	D2	LOAD FACTOR Static CO KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	WEIGHT kg.
PFI 5U - N/I	5	7,7	8	7	16	M5x0,8	27	8	12	4	9	3,2	7	12°	0,018
PFI 6U - N/I	6	9,0	9	7	18	M6x1	30	9	13	5	11	3,5	8	12°	0,026
PFI 8U - N/I	8	10,4	12	9	22	M8x1,25	36	12	16	5	14	5,8	13	12°	0,045
PFI 10U - N/I	10	12,9	14	11	26	M10x1,5	43	15	19	6,5	17	8,6	18	12°	0,076
PFI 10.1U - N/I	10	12,9	14	11	26	M10x1,25	43	15	19	6,5	17	8,6	18	12°	0,076
PFI 12U - N/I	12	15,4	16	12	30	M12x1,75	50	18	22	6,5	19	11,5	24	12°	0,114
PFI 12.1U - N/I	12	15,4	16	12	30	M12x1,25	50	18	22	6,5	19	11,5	24	12°	0,144
PFI 14U - N/I	14	16,9	19	14	34	M14x2	57	21	25	8	22	17,5	36	15°	0,158
PFI 16U - N/I	16	19,4	21	15	38	M16x2	64	24	27	8	22	20	40	15°	0,200
PFI 16.1U - N/I	16	19,4	21	15	38	M16x1,5	64	24	27	8	22	20	40	15°	0,200
PFI 20U - N/I	20	24,4	25	18	46	M20x1,5	77	30	37	10	30	31	60	15°	0,372

(*) *AVAILABLE ON DEMAND WITH A LEFT-HAND THREAD (ITEM CODE* ***PFIL...U-N/I****)(PRICES TO BE AGREED)*



PFE...U-N/I

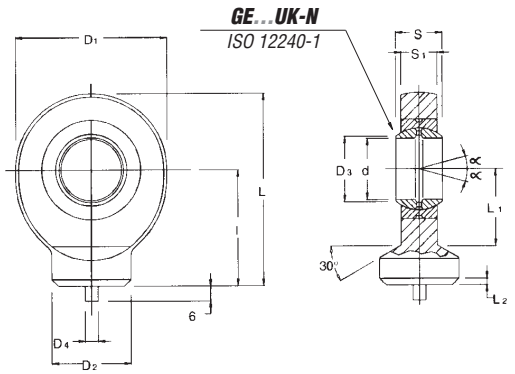
BALL JOINT ENDS



- *ISO 12240-4K*
- *HOUSING MATERIAL:* ***STAINLESS STEEL AISI 304***
- *MATERIALE SFERA:* ***STAINLESS STEEL AISI 440C***
- ***PTFE*** *FABRIC*

CODE *	d (H7)	D4	S	S1	D1	F	I	LF	LOAD FACTOR Static CO KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	WEIGHT kg.
PFE 5U - N/I	5	7,7	8	7	16	M5x0,8	33	20	3,2	7	12°	0,014
PFE 6U - N/I	6	9	9	7	18	M6x1	36	22	3,5	8	12°	0,019
PFE 8U - N/I	8	10,4	12	9	22	M8x1,25	42	25	5,8	13	12°	0,036
PFE 10U - N/I	10	12,9	14	11	26	M10x1,5	48	29	8,6	18	12°	0,060
PFE 12U - N/I	12	15,4	16	12	30	M12x1,75	54	33	11,5	24	12°	0,089
PFE 14U - N/I	14	16,9	19	14	34	M14x2	60	36	17,2	36	15°	0,129
PFE 16U - N/I	16	19,4	21	15	38	M16x2	66	40	20	40	15°	0,181
PFE 20U - N/I	20	24,4	25	18	46	M20x1,5	78	47	31	60	15°	0,333

(*) *AVAILABLE ON DEMAND WITH A LEFT-HAND THREAD (ITEM CODE* ***PFEL...U-N/I****)(PRICES TO BE AGREED)*



S...C-N

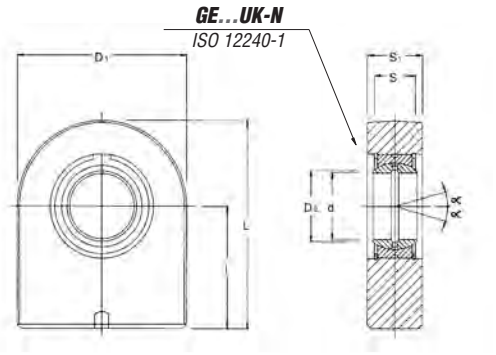
BALL JOINT ENDS



- *ISO 12240-4*

- *ISO 12240-4*
- ***MAINTENANCE FREE***
- *HOUSING MATERIAL:* ***STAINLESS STEEL AISI 316***
- *BEARING MATERIAL: COUPLING* ***STAINLESS STEEL AISI 420*** *+* ***PTFE*** *FABRIC*

CODE *	d	S	l	D1	D2	D4	D3	S1	L	L1	L2	TOLERANCES d mm	TOLERANCES S mm	BEARING RADIAL CLEARANCE mm	LOAD FACTOR Static C0 KN	LOAD FACTOR Dynamic C KN	α ANGLE OF OSCILLATION	WEIGHT kg.
S 20 C-UK-N	20	16	38	53	27,5	4	24,1	13	64,5	27,5	3	0÷0,010	0÷-0,12	0,030÷0,082	54	30	9°	0,250
S 25 C-UK-N	25	20	45	64	33,5	4	29,3	17	77	33	4	0÷0,010	0÷-0,12	0,037÷0,100	72	48	7°	0,450
S 30 C-UK-N	30	22	51	73	40	4	34,2	19	87,5	37,5	4	0÷0,010	0÷-0,12	0,037÷0,100	95	62	6°	0,675
S 35 C-UK-N	35	25	61	82	47	4	39,7	21	102	43	4	0÷0,012	0÷-0,12	0,037÷0,100	125	80	6°	0,950
S 40 C-UK-N	40	28	69	92	52	4	45	23	115	48	5	0÷0,012	0÷-0,12	0,043÷0,120	156	100	7°	1,400
S 45 C-UK-N	45	32	77	102	58	6	50,7	27	128	52	5	0÷0,012	0÷-0,12	0,043÷0,120	208	127	7°	1,910
S 50 C-UK-N	50	35	88	112	62	6	56	30	144	59	6	0÷-0.012	0÷-0.12	0.043÷0.120	250	156	6°	2,650



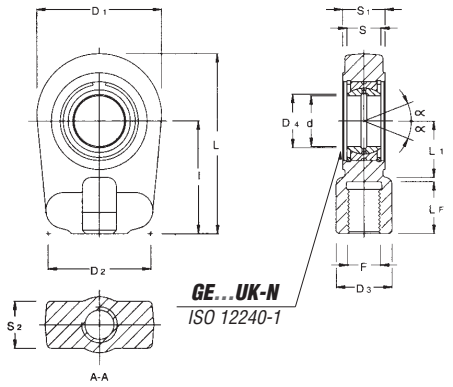
S...N-N

BALL JOINT ENDS



- ***MAINTENANCE FREE***
- *HOUSING MATERIAL:* ***STAINLESS STEEL AISI 316***
- *BEARING MATERIAL: COUPLING* ***STAINLESS STEEL AISI 420*** *+* ***PTFE*** *FABRIC*

CODE *	d	S	l	D1	D2	S1	L	TOLERANCES d mm	TOLERANCES S mm	BEARING RADIAL CLEARANCE mm	LOAD FACTOR Static C0 KN	LOAD FACTOR Dynamic C KN	α ANGLE OF OSCILLATION	WEIGHT kg.
S 20 N-UK-N	20	16	38	50	24,1	19	63	0÷0.010	0÷-0.12	0.030÷0.082	67	30	9°	0,325
S 25 N-UK-N	25	20	45	55	29,3	23	72,5	0÷0.010	0÷-0.12	0.037÷0.100	69,5	48	7°	0,500
S 30 N-UK-N	30	22	51	65	34,2	28	83,5	0÷0.010	0÷-0.12	0.037÷0.100	118	62	6°	0,825
S 35 N-UK-N	35	25	61	83	39,7	30	102,5	0÷0.012	0÷-0.12	0.037÷0.100	196	80	6°	1,475
S 40 N-UK-N	40	28	69	101	45	35	119	0÷0.012	0÷-0.12	0.043÷0.120	300	100	7°	2,480
S 45 N-UK-N	45	32	77	111	50,7	40	132	0÷-0.012	0÷-0.12	0.043÷0.120	380	127	7°	3,450
S 50 N-UK-N	50	35	88	123	56	40	149,5	0÷-0.012	0÷-0.12	0.043÷0.120	440	156	6°	4,450



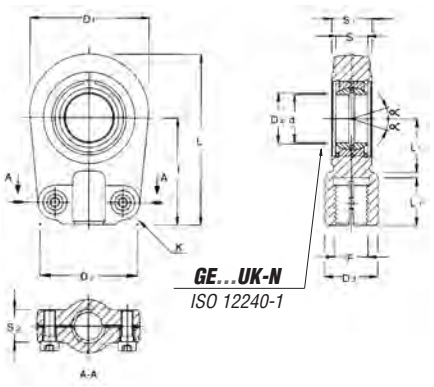
PR...N-N

BALL JOINT ENDS



- **MAINTENANCE FREE**
- BODY MATERIAL: **STAINLESS STEEL AISI 316**
- BEARING MATERIAL: COUPLING **STAINLESS STEEL AISI 420** + **PTFE** FABRIC

CODE *	d	l	S	LF	D1	D2	D3	D4	S1	S2	L	L1	F	TOLERANCES d mm	TOLERANCES S mm	BEARING RADIAL CLEARANCE mm	LOAD FACTOR Static CO KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	WEIGHT kg.
PR20N-UK-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
PR25N-UK-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
PR30N-UK-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
PR35N-UK-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
PR40N-UK-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
PR50N-UK-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



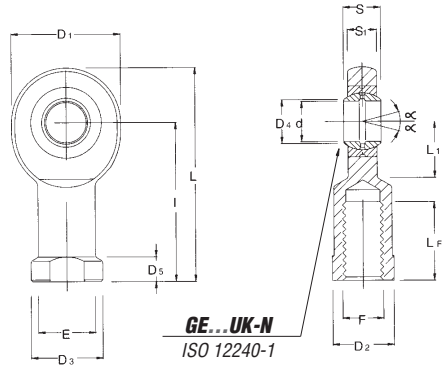
PR...U-N

BALL JOINT ENDS



- **MAINTENANCE FREE**
- BODY MATERIAL: **STAINLESS STEEL AISI 316**
- BEARING MATERIAL: COUPLING **STAINLESS STEEL AISI 420** + **PTFE** FABRIC

CODE *	d	l	S	LF	D1	D2	D3	D4	S1	S2	L	L1	F	TOLERANCES d mm	TOLERANCES S mm	BEARING RADIAL CLEARANCE mm	LOAD FACTOR Static CO KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	SCREWS DIN 912 12.9	COUPLE DE SERRAGE VIS Nm	WEIGHT kg.
PR20U-UK-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°	M8x20	25	0,4
PR25U-UK-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°	M8x20	25	0,475
PR30U-UK-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°	M8x25	25	0,7
PR35U-UK-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°	M10x30	49	1,15
PR40U-UK-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°	M10x35	49	2,075
PR50U-UK-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°	M12X40	86	3,575



GE...UK-N
ISO 12240-1

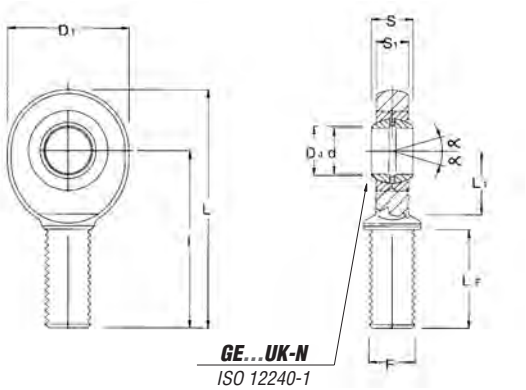
FI...U-N

BALL JOINT ENDS



- ***MAINTENANCE FREE***
- *BODY MATERIAL:* ***STAINLESS STEEL AISI 316***
- *BEARING MATERIAL: COUPLING* ***STAINLESS STEEL AISI 420*** *+* ***PTFE*** *FABRIC*

CODE *	d	I	S	LF	D1	E	D2	D3	D4	D5	S1	L	L1	F	TOLERANCES d mm	TOLERANCES S mm	BEARING RADIAL CLEARANCE mm	LOAD FACTOR Static CO KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	WEIGHT kg.
FI 20U-N	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°	0,39
FI 25U-N	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°	0,58
FI 30U-N	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°	1,02
FI 35U-N	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°	1,46
FI 40U-N	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-N	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-N	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



GE...UK-N
ISO 12240-1

FE...U-N

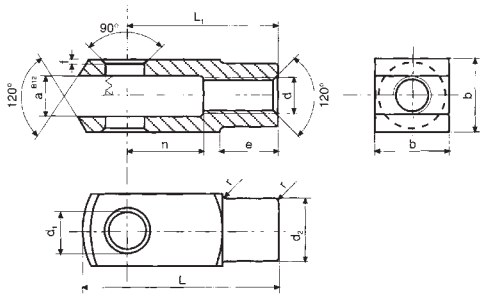
BALL JOINT ENDS



- ***MAINTENANCE FREE***
- *BODY MATERIAL:* ***STAINLESS STEEL AISI 316***
- *BEARING MATERIAL: COUPLING* ***STAINLESS STEEL AISI 420*** *+* ***PTFE*** *FABRIC*

CODE *	d	I	S	LF	D1	D4	S1	L	L1	F	TOLERANCES d mm	TOLERANCES S mm	BEARING RADIAL CLEARANCE mm	LOAD FACTOR Static CO KN	LOAD FACTOR Dynamic C KN	ANGLE OF OSCILLATION α	WEIGHT kg.
FE 20U-N	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°	0,31
FE 25U-N	25	94	20	53	64	29,3	17	126	33	M24x2	0÷0,010	0÷-0,12	0 ÷ 0,050	83	51	7°	0,56
FE 30U-N	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°	0,89
FE 35U-N	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-N	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-N	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-N	50	185	35	106	112	56	30	241	60	M45x3	0/-0.012	0/-0.12	0 ÷ 0.060	290	220	6°	3,4

4FP...-N



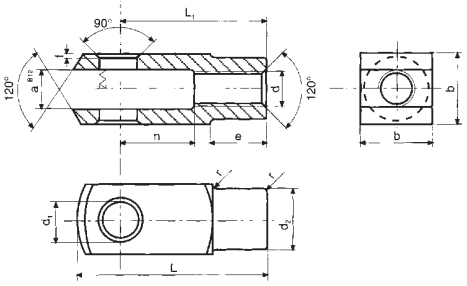
YOKES WITH THREADED HOLE



- ***UNI 1676 - DIN 71752***
- *MATERIAL* ***STAINLESS STEEL AISI 303***

CODE *	THREAD LEAD	a	TOLERANCE VALUES a (B12)		b	d_1	TOLERANCE VALUES d_1(H8)		d_2	e	f	L	L_1	n	WEIGHT kg.
4FP 4x8-N	4x0,7	4	+0,14	+0,26	8	4	0	+0,018	8	6	0,5	21	16	8	0,005
4FP 5x10-N	5x0,8	5	+0,14	+0,26	10	5	0	+0,018	9	7,5	0,5	26	20	10	0,009
4FP 6x12-N	6x1	6	+0,14	+0,26	12	6	0	+0,018	10	9	0,5	31	24	12	0,015
4FP 8x16-N	8x1,25	8	+0,15	+0,3	16	8	0	+0,022	14	12	0,5	42	32	16	0,036
4FP 10x20-N	10x1,5	10	+0,15	+0,3	20	10	0	+0,022	18	15	0,5	52	40	20	0,07
4FP 12x24-N	12x1,75	12	+0,15	+0,33	24	12	0	+0,027	20	18	0,5	62	48	24	0,121
4FP 14x28-N	14x2	14	+0,15	+0,33	27	14	0	+0,027	24	22,5	1	72	56	28	0,176
4FP 16x32-N	16x2	16	+0,15	+0,33	32	16	0	+0,027	26	24	1	83	64	32	0,25
4FP 20x40-N	20x2,5	20	+0,16	+0,37	40	20	0	+0,033	34	30	1	105	80	40	0,55

4FP...C-N



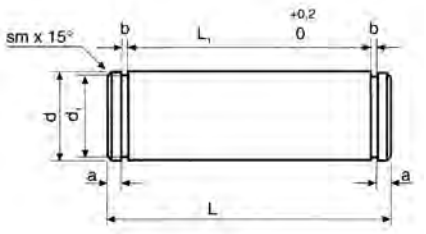
YOKES



- ***DIN 71752 - ISO 8140 (CETOP)***
- *MATERIAL* ***STAINLESS STEEL AISI 303***

CODE *	THREAD LEAD	a	TOLERANCE VALUES a (B12)		b	d_1	TOLERANCE VALUES d_1(H8)		d_2	e	f	L	L_1	n	r	LOAD FACTOR KN	WEIGHT kg.
4FP 10x20C-N	10x1,25	10	+0,15	+0,3	20	10	+0,022	0	18	15	0,5	52	40	20	0,5	2	0,07
4FP 12x24C-N	12x1,25	12	+0,15	+0,33	24	12	+0,027	0	20	18	0,5	62	48	24	0,5	2,88	0,12
4FP 16x32C-N	16x1,5	16	+0,15	+0,33	32	16	+0,027	0	26	24	1	83	64	32	1	5,12	0,25
4FP 20x40C-N	20x1,5	20	+0,16	+0,37	40	20	+0,033	0	34	30	1	105	80	40	1	8	0,55

PF...C-N



CLEVIS PINS



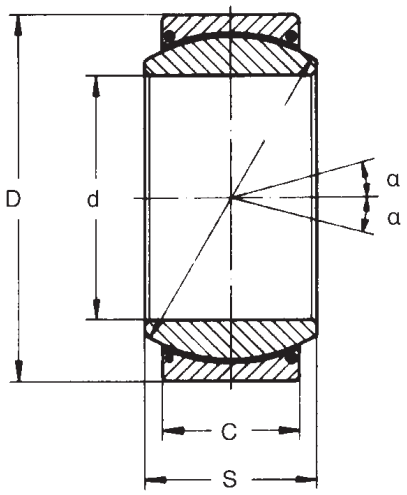
- ***NORMA ISO (CETOP)***
- *MATERIAL* ***STAINLESS STEEL AISI 303***

CODE *	d - h 11	L	d_1	L_1	a	b	WEIGHT kg.
PF10C-N	10	25	9,6	20	1,5	1,1	0,015
PF12C-N	12	30	11,5	24	2	1,1	0,026
PF16C-N	16	39	15,2	32	2,4	1,1	0,061
PF20C-N	20	48	19	40	2,9	1,3	0,118

(*) *INCLUDING STAINLESS STEEL RINGS (SEEGERS)*

GE...UK-N

RADIAL BALL JOINTS



- ***ISO 12240-1***
- ***MAINTENANCE FREE***
- *INNER RING IN* ***STAINLESS STEEL AISI 420***
- *OUTER RING IN* ***STAINLESS STEEL AISI 420***
- ***PTFE*** *FABRIC*



ART.	CODE BEARING WITHOUT SEALS	d	D	S	C	TOLERANCES d mm	TOLERANCES D mm	LOAD FACTOR Static C0 KN	LOAD FACTOR Dynamic C KN	DEGREES α	WEIGHT kg.
515GE-N	***GE6 UK-N***	*6*	*14*	*6*	*4*	*-0,008*	*-0,008*	*10,08*	*4,86*	*13*	*0,004*
516GE-N	***GE8 UK-N***	*8*	*16*	*8*	*5*	*-0,008*	*-0,008*	*16,35*	*7,90*	*15*	*0,007*
517GE-N	***GE10 UK-N***	*10*	*19*	*9*	*6*	*-0,008*	*-0,009*	*24,19*	*11,68*	*12*	*0,011*
579GE-N	***GE12 UK-N***	*12*	*22*	*10*	*7*	*-0,008*	*-0,009*	*31,92*	*15,39*	*11*	*0,016*
519GE-N	***GE15 UK-N***	*15*	*26*	*12*	*9*	*-0,008*	*-0,009*	*50*	*25*	*8*	*0,025*
520GE-N	***GE17 UK-N***	*17*	*30*	*14*	*10*	*-0,008*	*-0,009*	*64*	*32*	*10*	*0,038*
583GE-N	***GE20 UK-N***	*20*	*35*	*16*	*12*	*-0,008*	*-0,009*	*90*	*45*	*9*	*0,061*
584GE-N	***GE25 UK-N***	*25*	*42*	*20*	*16*	*-0,010*	*-0,011*	*170*	*85*	*7*	*0,11*
585GE-N	***GE30 UK-N***	*30*	*47*	*22*	*18*	*-0,010*	*-0,011*	*220*	*110*	*6*	*0,14*
586GE-N	***GE35 UK-N***	*35*	*55*	*25*	*20*	*-0,010*	*-0,011*	*280*	*140*	*6*	*0,22*
587GE-N	***GE40 UK-N***	*40*	*62*	*28*	*22*	*-0,012*	*-0,013*	*350*	*175*	*7*	*0,3*
588GE-N	***GE45 UK-N***	*45*	*68*	*32*	*25*	*-0,012*	*-0,013*	*450*	*225*	*7*	*0,4*
589GE-N	***GE50 UK-N***	*50*	*75*	*35*	*28*	*-0,012*	*-0,013*	*550*	*275*	*6*	*0,54*
590GE-N	***GE60 UK-N***	*60*	*90*	*44*	*36*	*-0,012*	*-0,013*	*860*	*430*	*6*	*1*
591GE-N	***GE70 UK-N***	*70*	*105*	*49*	*40*	*-0,015*	*-0,015*	*1100*	*550*	*6*	*1,5*
535GE-N	***GE80 UK-N***	*80*	*120*	*55*	*45*	*-0,015*	*-0,015*	*1410*	*705*	*6*	*2,2*
536GE-N	***GE90 UK-N***	*90*	*130*	*60*	*50*	*-0,015*	*-0,015*	*1720*	*860*	*5*	*2,7*
537GE-N	***GE100 UK-N***	*100*	*150*	*70*	*55*	*-0,020*	*-0,018*	*2140*	*1070*	*7*	*4,3*
538GE-N	***GE 110 UK-N***	*110*	*160*	*70*	*55*	*-0,020*	*-0,018*	*2300*	*1150*	*6*	*4,7*

AVAILABLE ON DEMAND, WITH 2RS SEALS