

PRODUCT DESCRIPTION

The TESNO® rod ends and spherical bearings are high quality products and are made according to ISO 12240-4 K series and ISO 12240-1 K series respectively.

They are maintenance free and employ coupling of metal (inner ring) on PTFE (bonded to the inner surface of the outer ring), which guarantees the lubrication during the operation.

The bronze outer ring containing the PTFE liner is cold formed on the inner ring.

The main advantages of this product are:

- > High loads and maintenance free
- > Suitable in case of small pivoting angles, dynamic load peaks and movements with a low friction coefficient

Rod ends STANDARD version CFP - CMP series

Coupling: steel on PTFE liner, maintenance free

Support: from size 5 to size 12 are produced in automatic steel 11SMnPb30/37 (1.0718), successive sizes in forged, tempered steel C40 (1.1186). Zinc plated surface (EN ISO 4042 Fe/Zn 8c 1B)

Inner ring: tempered, ground and polished steel for bearings 100 Cr6 (1.3505)

Outer ring: brass with PTFE bonded on the inner surface.

Rod ends STAINLESS STEEL version CFPX - CMPX series

Coupling: steel on PTFE liner, maintenance free

Support: stainless steel X 5CrNi1810 (1.4301 – AISI 304)

Inner ring: tempered, ground and polished stainless steel X46Cr13 (1.4034 – AISI 420),

Outer ring: stainless steel X 5CrNi1810 (1.4301 – AISI 304) with PTFE bonded on the inner surface.

Rod ends ERGAL version CFE - CME series

Coupling: steel on PTFE liner, maintenance free

Support: ERGAL (7075 alloy state T6) with anodized surface

Inner ring: tempered, ground and polished steel for bearings 100 Cr6 (1.3505)

Outer ring: carbon steel C45 (1.1191) with PTFE bonded on the inner surface.

Rod ends ERGAL and STAINLESS STEEL version CFE - CMEX series

Coupling: stainless steel on PTFE liner, maintenance free

Support: ERGAL (7075 alloy state T6) with anodized surface

Inner ring: tempered, ground and polished stainless steel X46Cr13 (1.4034 – AISI 420),

Outer ring: stainless steel X 5CrNi1810 (1.4301 – AISI 304) with PTFE bonded on the inner surface.

Spherical bearings STANDARD version SPK series

Coupling: steel on PTFE liner maintenance free

Inner ring: tempered, ground and polished steel for bearings 100 Cr6 (1.3505)

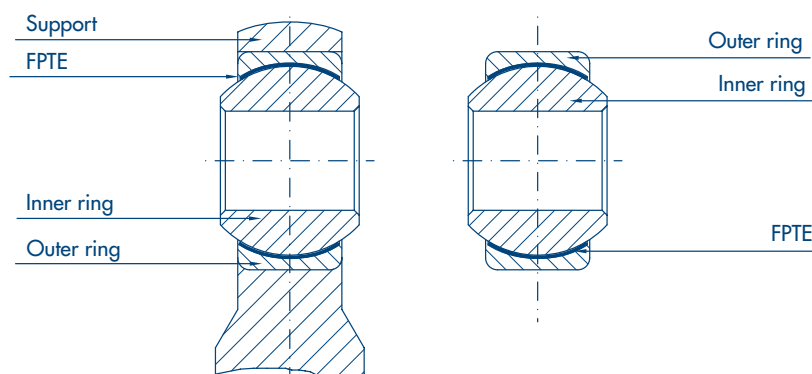
Outer ring: carbon steel C45 (1.1191) with PTFE bonded on the inner surface.

Spherical bearings STAINLESS STEEL version SPKX series

Coupling: stainless steel on PTFE liner maintenance free

Inner ring: tempered, ground and polished stainless steel X46Cr13 (1.4034 – AISI 420),

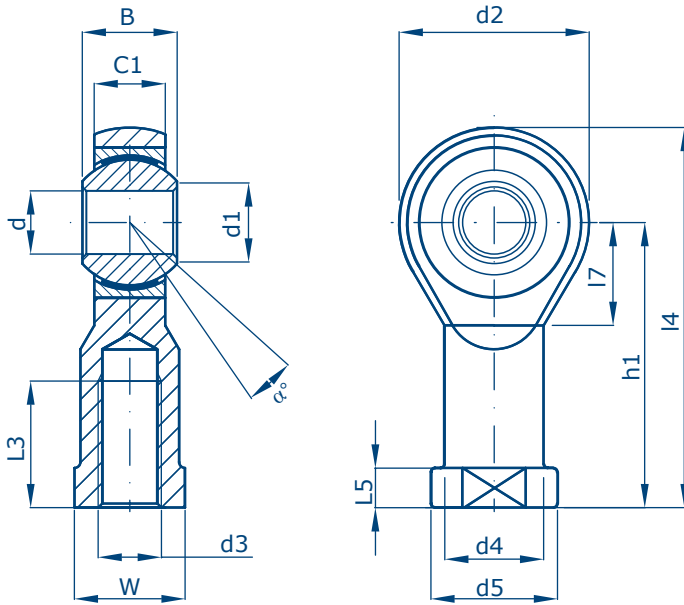
Outer ring: stainless steel X 5CrNi1810 (1.4301 – AISI 304) with PTFE bonded on the inner surface.



DIN ISO 12240-4 Series K Female thread

Coupling: steel/PTFE

Application: precision engineering



Series
CFP

**SELF-LUBRICATING ROD ENDS
STANDARD Version**

Dimensions mm

DESIGNATION	d	d3	B	C1	d1	d2	d4	d5	dk	h1	L3	L4	L5	L7	W	static radial load Co. (daN)	α° pivoting angle \approx	weight \approx (kg)
	H7	6H																
CFP5 M5	5	M5	8	6	7,7	18	9	11	11,11	27	10	36	4	10	9	600	13	0,019
CFP6 M6	6	M6	9	6,75	8,9	20	10	13	12,7	30	12	40	5	11	11	700	13	0,026
CFP8 M8	8	M8	12	9	10,4	24	12,5	16	15,87	36	16	48		13	14	1200	14	0,046
CFP10 M10	10	M10	14	10,5	12,9	28	15	19	19,05	43	20	57	6,5	15	17	1400	13	0,074
CFP12 M12	12	M12	16	12	15,4	32	17,5	22	22,22	50	22	66	6,5	17	19	1900	13	0,111
CFP14 M14	14	M14	19	13,5	16,8	36	20	25	25,4	57	25	75	8	19	22	3600	15	0,156
CFP16 M16	16	M16	21	15	19,3	42	22	27	28,57	64	28	85	8	23	22	4800	15	0,231
CFP18 M18x1,5	18	M18x1,5	23	16,5	21,8	46	25	31	31,75	71	32	94	10	25	27	5100	15	0,295
CFP20 M20	20	M20	25	18	24,3	50	27,5	34	34,92	77	33	102	10	27	30	5200	14	0,402
CFP22 M22x1,5	22	M22x1,5	28	20	25,8	54	30	37	38,1	84	37	111	12	29	32	7500	15	0,49
CFP23 M24x2	25	M24x2	31	22	29,5	60	33,5	42	42,85	94	42	124	12	32	36	8500	15	0,65
CFP30 M27x2	30	M27x2	37	25	34,8	70	40	50	50,8	110	51	145	15	36	41	10800	17	1,126
CFP30 M30x2	30	M30x2	37	25	34,8	70	40	50	50,8	110	51	145	15	36	41	10800	17	1,119
CFP35 M36x2	35	M36x2	43*	28	37,7*	80	46	58*	57,15	125	56	165	17,0*	41	50	12400	19*	1,635
CFP40 M42x2	40	M42x2	49*	33	45,1*	91	53	65*	66,6	142	60	187	19*	45	55	26000	16*	2,400
CFP50 M48x2	50	M48x2	60*	45	56,6*	117	65	75*	82,5	162	65	218	23*	58	65	30800	14*	5,000

*no standard dimension

For left-hand thread add "L" (ex. CFPL8 M8)
 Technical reading from page 9 to page 15

MATERIAL

Support:

Up to size 12 automatic steel 11SMnPb30 (1.0718)
 from size 14 hardened and tempered steel C40 (1.1186),
 galvanized surface by passivation free from hexavalent
 chromium (EN ISO 4042, Fe/Zn 8c 1B)

Inner ring:

tempered, ground and
 polished steel for bearings
 100 Cr6 (1.3505)

Outer ring:

brass and PTFE
 bonded on the inner
 surface

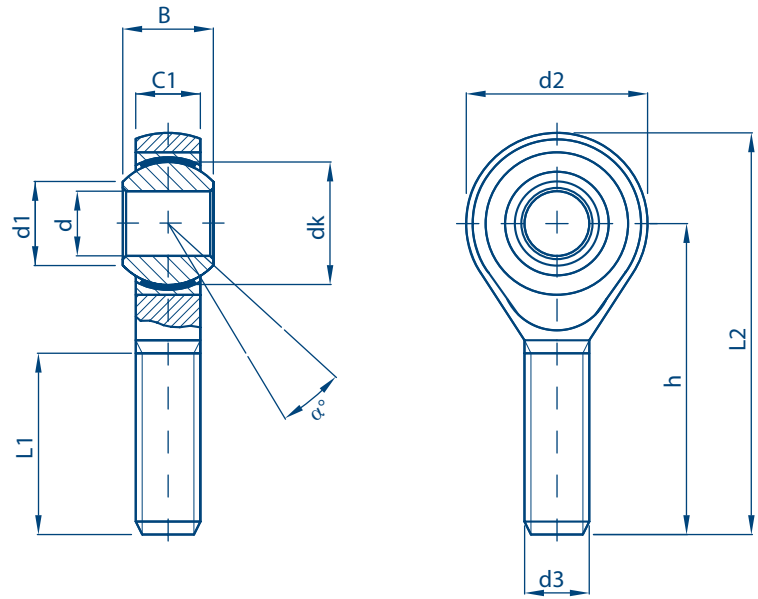
DIN ISO 12240-4 Series K Male thread

Coupling: steel/PTFE

Application: precision engineering

Series
CMP

**SELF-LUBRICATING ROD ENDS
STANDARD Version**



Dimensions mm

DESIGNATION	d	d3	B	C1	d1	d2	dk	h	L1	L2	static radial load Co. (daN)	α° pivoting angle \approx	weight \approx (kg)
	H7	6g											
CMP5 M5	5	M5	8	6	7,7	18	11,11	33	19	42	300	13	0,015
CMP6 M6	6	M6	9	6,75	8,9	20	12,7	36	21	46	400	13	0,021
CMP8 M8	8	M8	12	9	10,4	24	15,87	42	25	54	800	14	0,040
CMP10 M10	10	M10	14	10,5	12,9	28	19,05	48	28	62	1300	13	0,064
CMP12 M12	12	M12	16	12	15,4	32	22,22	54	32	70	1700	13	0,097
CMP14 M14	14	M14	19	13,5	16,8	36	25,4	60	36	78	3600	15	0,13
CMP16 M16	16	M16	21	15	19,3	42	28,57	66	37	87	4800	15	0,208
CMP16 M16x1,5	16	M16x1,5	21	15	19,3	42	28,57	66	37	87	4800	15	0,208
CMP18 M18x1,5	18	M18x1,5	23	16,5	21,8	46	31,75	72	41	95	5100	15	0,260
CMP20 M20	20	M20	25	19	24,3	50	34,52	78	45	103	5200	14	0,367
CMP20 M20x1,5	20	M20x1,5	25	18	24,3	50	34,92	78	45	103	5200	14	0,367
CMP22 M22x1,5	22	M22x1,5	28	20	25,8	54	38,1	84	48	111	7500	15	0,435
CMP25 M24x2	25	M24x2	31	22	29,5	60	42,85	94	55	124	8500	15	0,590
CMP30 M30x2	30	M30x2	37	25	34,8	70	50,8	110	66	145	10800	15	1,060
CMP35 M36x2	35	M36x2	43*	28	37,7	80	57,15	140	85	180	12400	19*	1,640
CMP40 M42x2	40	M42x2	49*	33	45,1	91	66,60	150	90	195	26000	16*	2,300
CMP50 M48x2	50	M48x2	60*	45	56,6	117	82,50	185	105	243	30800	14*	4,800

For left-hand thread add "L" (ex. CMPL8 M8)

Technical reading from page 9 to page 15

MATERIAL

Support:

Up to size 12 automatic steel 11SMnPb30 (1.0718)
from size 14 hardened and tempered steel C40 (1.1186),
galvanized surface by passivation free from hexavalent
chromium (EN ISO 4042, Fe/Zn 8c 1B)

Inner ring:

tempered, ground and
polished steel for bearings
100 Cr6 (1.3505)

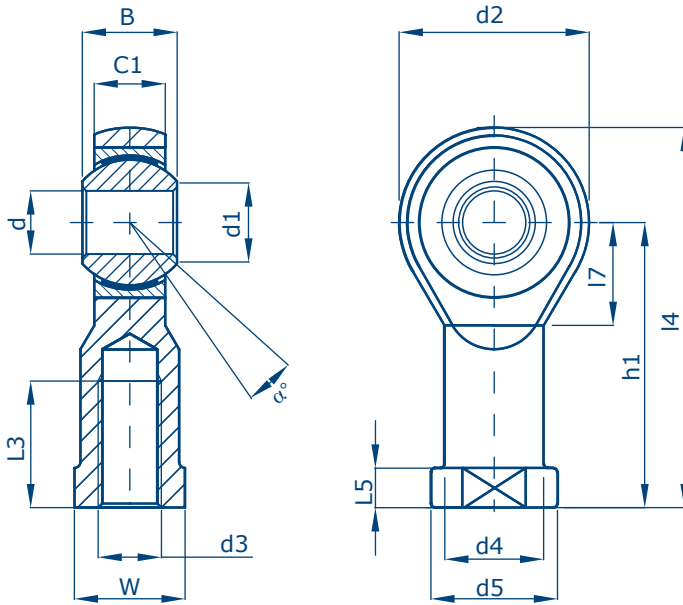
Outer ring:

brass and PTFE
bonded on the inner
surface

*no standard dimension

DIN ISO 12240-4 Series K ISO 8139 (CETOP) Female thread for pneumatic cylinders

Coupling: steel/PTFE
 Application: precision engineering



Series
CFP

**SELF-LUBRICATING ROD ENDS
 STANDARD Version**

Dimensions mm

DESIGNATION	CYLINDER	d	d3	B	C1	d1	d2	d4	d5	dk	h1	L3	L4	L5	L7	W	static radial load Co.(daN)	α ° pivoting angle ≈	weight ≈ (kg)
		H7	6H																
CFP5 M4	8-10	5	M4	8	6	7,7	18	9	11	11,11	27	10	36	4	10	9	600	13	0,02
CFP6 M6	12-16	6	M6	9	6,75	8,9	20	10	13	12,7	30	12	40	5	11	11	700	13	0,025
CFP8 M8	20	8	M8	12	9	10,4	24	12,5	16	15,87	36	16	48	5	13	14	1200	14	0,046
CFP10 M10x1,25	25-32	10	M10x1,25	14	10,5	12,9	28	15	19	19,05	43	20	57	6,5	15	17	1400	13	0,075
CFP12 M12x1,25	40-50	12	M12x1,25	16	12	15,4	32	17,5	22	22,22	50	22	66	6,5	17	19	1900	13	0,112
CFP16 M16x1,5	50-63	16	M16x1,5	21	15	19,3	42	22	27	28,57	64	28	85	8	23	22	4800	15	0,222
CFP20 M20x1,5	80-100	20	M20x1,5	25	18	24,3	50	27,5	34	34,92	77	33	102	10	27	30	5200	14	0,406
CFP25 M24x2	125	25	M24x2	31	22	29,5	60	33,5	42	42,85	94	42	124	12	32	36	8500	15	0,65
CFP30 M27x2	125	30	M27x2	37	25	34,8	70	40	50	50,8	110	51	145	15	36	41	10800	17	1,119
CFP35 M36x2	160-200	35	M36x2	43*	28	37,7*	80	46,0*	58*	57,15	125	56	165	17,0*	41	50	12400	16	1,595
CFP40 M42x2	40	40	M42x2	49*	33	45,1*	91	53	65*	66,6	142	60	187	19*	45	55	26000	16*	2,4
CFP50 M48x2	50	50	M48x2	60*	45	56,6*	117	65	75*	82,5	162	65	218	23*	58	65	30800	14*	5

*no standard dimension

For left-hand thread add "L" (ex. CFP_L8 M8)
 Technical reading from page 9 to page 15

MATERIAL

Support:

Up to size 12 automatic steel 11SMnPb30 (1.0718)
 from size 14 hardened and tempered steel C40 (1.1186),
 galvanized surface by passivation free from hexavalent
 chromium (EN ISO 4042, Fe/Zn 8c 1B)

Inner ring:

tempered, ground and
 polished steel for bearings
 100 Cr6 (1.3505)

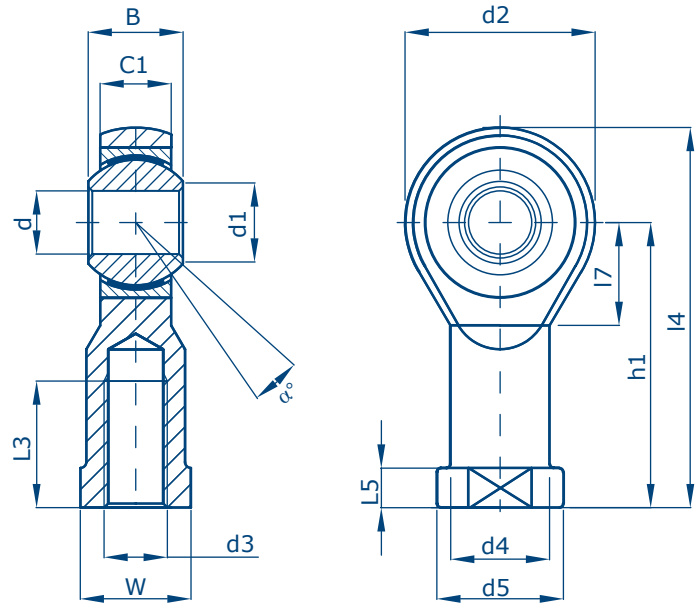
Outer ring:

brass and PTFE
 bonded on the inner
 surface

DIN ISO 12240-4 Series K Female thread

Coupling: stainless steel/PTFE

Application: precision engineering, suitable for oxidizing and corrosive environments



Dimensions mm

DESIGNATION	d	d3	B	C1	d1	d2	d4	d5	dk	h1	L3	L4	L5	L7	W	static radial load Co.(daN)	α ° pivoting angle ≈	weight ≈ (kg)
	H7	6H																
CFPX5 M5	5	M5	8	6	7,7	18	9	11	11	27	10	36	4	10	9	600	13	0,019
CFPX6 M6	6	M6	9	6,8	8,9	20	10	13	13	30	12	40	5	11	11	700	13	0,026
CFPX8 M8	8	M8	12	9	10,4	24	13	16	16	36	16	48	5	13	14	1200	14	0,046
CFPX10 M10	10	M10	14	11	12,9	28	15	19	19	43	20	57	6,5	15	17	1400	13	0,074
CFPX12 M12	12	M12	16	12	15,4	32	18	22	22	50	22	66	6,5	17	19	1900	13	0,111
CFPX14 M14	14	M14	19	14	16,8	36	20	25	25	57	25	75	8	19	22	3600	15	0,156
CFPX16 M16	16	M16	21	15	19,3	42	22	27	29	64	28	85	8	23	22	4800	15	0,231
CFPX18 M18x1,5	18	M18x1,5	23	17	21,8	46	25	31	32	71	32	94	10	25	27	5100	15	0,295
CFPX20 M20	20	M20	25	18	24,3	50	28	34	35	77	33	102	10	27	30	5200	14	0,402

For left-hand thread add "L" (ex. CFPXL8 M8)

Technical reading from page 9 to page 15

MATERIAL

Support:

stainless steel
X5CrNi1810
(1.4301 - AISI 304)

Inner ring:

stainless steel
X46Cr13
(1.4034 - AISI 420)

Outer ring:

stainless steel
X5CrNi1810
(1.4301 - AISI 304) with
PTFE bonded on the inner
surface

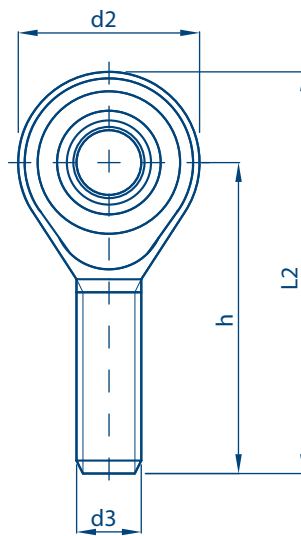
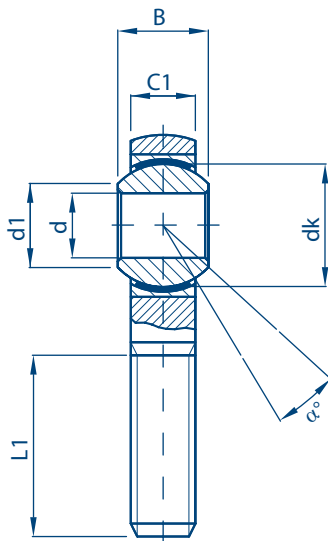
Series
CFPX

SELF-LUBRICATING ROD ENDS
STAINLESS STEEL Version

DIN ISO 12240-4 Series K Male thread

Coupling: stainless steel/PTFE

Application: precision engineering, suitable for oxidizing and corrosive environments



Series
CMPX

**SELF-LUBRICATING ROD ENDS
 STAINLESS STEEL Version**

Dimensions mm

DESIGNATION	d	d3	B	C1	d1	d2	dk	h	L1	L2	static radial load Co. (daN)	α° pivoting angle \approx	weight \approx (kg)
	H7	6g											
CMPX5 M5	5	M5	8	6	7,7	18	11,11	33	19	42	300	13	0,015
CMPX6 M6	6	M6	9	6,75	8,9	20	12,7	36	21	46	400	13	0,021
CMPX8 M8	8	M8	12	9	10,4	24	15,87	42	25	54	800	14	0,040
CMPX10 M10	10	M10	14	10,5	12,9	28	19,05	48	28	62	1300	13	0,064
CMPX12 M12	12	M12	16	12	15,4	32	22,22	54	32	70	1700	13	0,097
CMPX14 M14	14	M14	19	13,5	16,8	36	25,4	60	36	78	3600	15	0,13
CMPX16 M16	16	M16	21	15	19,3	42	28,57	66	37	87	4800	15	0,208
CMPX16 M16x1,5	16	M16x1,5	21	15	19,3	42	28,57	66	37	87	4800	15	0,208
CMPX18 M18x1,5	18	M18x1,5	23	16,5	21,8	46	31,75	72	41	95	5100	15	0,260
CMPX20 M20	20	M20	25	19	24,3	50	34,52	78	45	103	5200	14	0,367

For left-hand thread add "L" (ex. CMPXL8 M8)
 Technical reading from page 9 to page 15

MATERIAL

Support:

stainless steel
 X5CrNi1810
 (1.4301 - AISI 304)

Inner ring:

stainless steel
 X46Cr13
 (1.4034 - AISI 420)

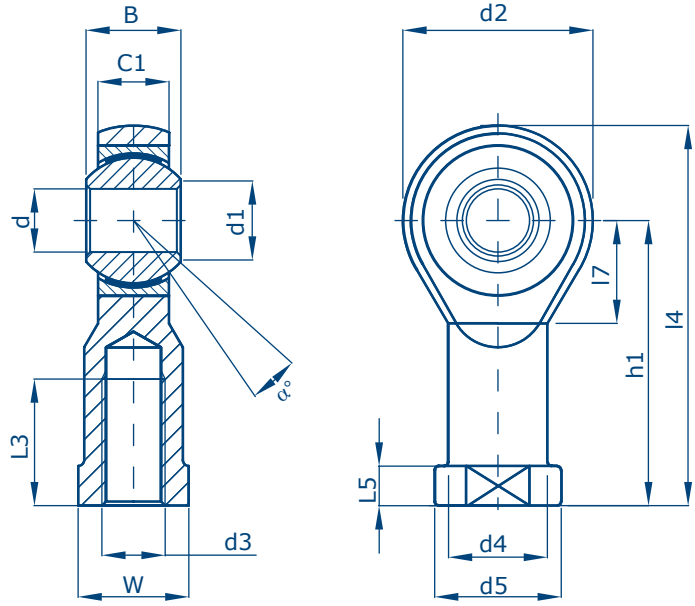
Outer ring:

stainless steel
 X5CrNi1810
 (1.4301 - AISI 304) with
 PTFE bonded on the inner
 surface

DIN ISO 12240-4 Series K ISO 8139 (CETOP) Female thread for pneumatic cylinders

Coupling: stainless steel/PTFE

Application: precision engineering, suitable for oxidizing and corrosive environments



Dimensions mm

DESIGNATION	CYLINDER	d	d3	B	C1	d1	d2	d4	d5	dk	h	L3	L4	L5	L7	W	static radial load Co.(daN)	α° pivoting angle \approx	weight \approx (kg)
		H7	6H																
CFPX5 M4	8-10	5	M4	8	6	7,7	18	9	11	11,11	27	10	36	4	10	9	600	13	0,02
CFPX6 M6	12-16	6	M6	9	6,75	8,9	20	10	13	12,7	30	12	40	5	11	11	700	13	0,025
CFPX8 M8	20	8	M8	12	9	10,4	24	12,5	16	15,87	36	16	48	5	13	14	1200	14	0,046
CFPX10 M10x1,25	25-32	10	M10x1,25	14	10,5	12,9	28	15	19	19,05	43	20	57	6,5	15	17	1400	13	0,075
CFPX12 M12x1,25	40-50	12	M12x1,25	16	12	15,4	32	17,5	22	22,22	50	22	66	6,5	17	19	1900	13	0,112
CFPX16 M16x1,5	50-63	16	M16x1,5	21	15	19,3	42	22	27	28,57	64	28	85	8	23	22	4800	15	0,222
CFPX20 M20x1,5	80-100	20	M20x1,5	25	18	24,3	50	27,5	34	34,92	77	33	102	10	27	30	5200	14	0,406
CFPX25 M24x2	125	25	M24x2	31	22	29,5	60	33,5	42	42,85	94	42	124	12	32	36	8500	15	0,65
CFPX30 M27x2	125	30	M27x2	37	25	34,8	70	40	50	50,8	110	51	145	15	36	41	10800	17	1,119
CFPX35 M36x2	160-200	35	M36x2	43*	28	37,7*	80	46,0*	58*	57,15	125	56	165	17,0*	41	50	12400	16	1,595

For left-hand thread add "L" (ex. CFPXL8 M8)
Technical reading from page 9 to page 15

*no standard dimension

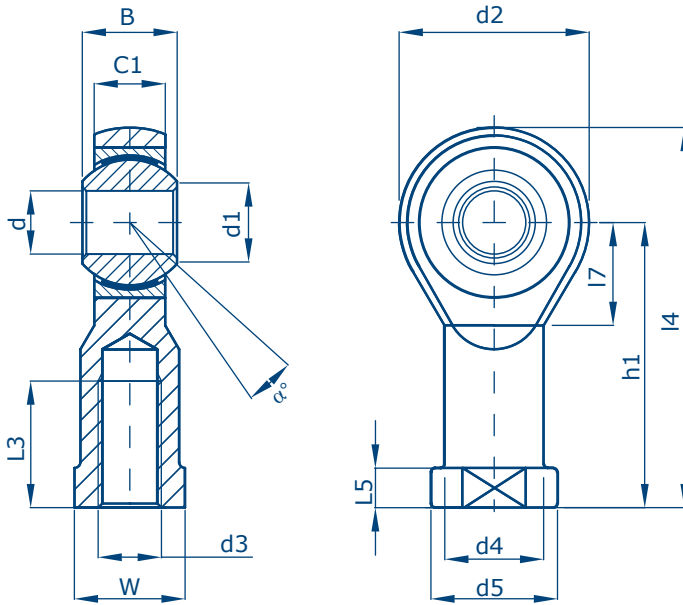
Series
CFPX

**SELF-LUBRICATING ROD ENDS
STAINLESS STEEL Version**

DIN ISO 12240-4 Series K Female thread

Coupling: steel/PTFE

Application: precision engineering



Series
CFE

SELF-LUBRICATING ROD ENDS
ERGAL Version

Dimensions mm

DESIGNATION	d	d3	B	C1	d1	d2	d4	d5	dk	h1	L3	L4	L5	L7	W	static radial load Co.(daN)	α° pivoting angle \approx	weight \approx (kg)
	H7	6H																
CFE 6	6	M6	9	6,75	8,9	20	10	13	12,7	30	12	40	5	11	11	550	13	0,015
CFE 8	8	M8	12	9	10,4	24	12,5	16	15,87	36	16	48	5	13	14	1200	14	0,037
CFE 10	10	M10	14	10,5	12,9	28	15	19	19,05	43	20	57	6,5	15	17	1400	13	0,064
CFE 12	12	M12	16	12	15,4	32	17,5	22	22,22	50	22	66	6,5	17	19	1900	13	0,098

*no standard dimension

For left-hand thread add "L" (ex. CFEL8 M8)
 Technical reading from page 9 to page 15

MATERIAL

Support:

ERGAL (alloy EN AW 7075 State T6) blue or purple anodized surface

Inner ring:

tempered, ground and polished steel for bearings
 100 Cr6 (1.3505)

Outer ring:

C45 (1.1191) carbon steel and PTFE bonded on the inner surface

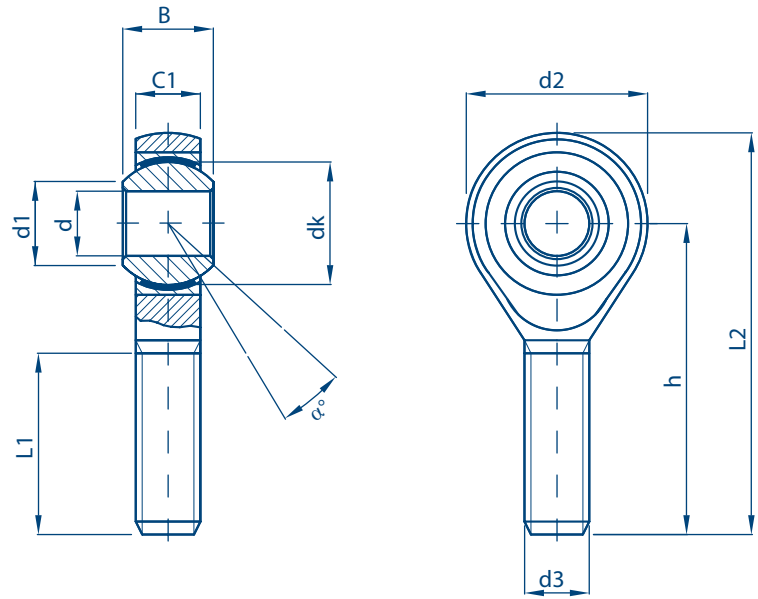
DIN ISO 12240-4 Series K Male thread

Coupling: steel/PTFE

Application: precision engineering

Series
CME

SELF-LUBRICATING ROD ENDS
ERGAL Version



Dimensions mm

DESIGNATION	d	d3	B	C1	d1	d2	dk	h	L1	L2	static radial load Co.(daN)	α° pivoting angle \approx	weight \approx (kg)
	H7	6g											
CME 6	6	M6	9	6,75	8,9	20	12,7	36	21	46	550	13	0,013
CME 8	8	M8	12	9	10,4	24	15,87	42	25	54	800	14	0,035
CME 10	10	M10	14	10,5	12,9	28	19,05	48	28	62	1300	13	0,058
CME 12	12	M12	16	12	15,4	32	22,22	54	32	70	1700	13	0,087

For left-hand thread add "L" (ex. CMEL8 M8)

Technical reading from page 9 to page 15

MATERIAL

Support:

ERGAL (alloy EN AW 7075 State T6) blue or purple anodized surface

Inner ring:

tempered, ground and polished steel for bearings 100 Cr6 (1.3505)

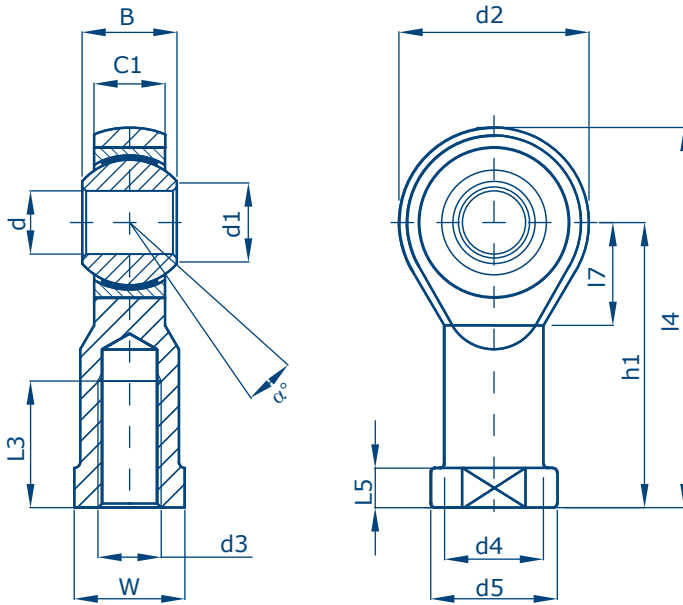
Outer ring:

C45 (1.1191) carbon steel and PTFE bonded on the inner surface

DIN ISO 12240-4 Series K Female thread

Coupling: stainless steel/PTFE

Application: precision engineering, suitable for oxidizing and corrosive environments



Series
CFEX

**SELF-LUBRICATING ROD ENDS
ERGal - STAINLESS STEEL Version**

Dimensions mm

DESIGNATION	d	d3	B	C1	d1	d2	d4	d5	dk	h1	L3	L4	L5	L7	W	static radial load Co. (daN)	α° pivoting angle \approx	weight \approx (kg)
	H7	6H																
CFEX 6	6	M6	9	6,75	8,9	20	10	13	12,7	30	12	40	5	11	11	550	13	0,015
CFEX 8	8	M8	12	9	10,4	24	12,5	16	15,87	36	16	48	5	13	14	1200	14	
CFEX 10	10	M10	14	10,5	12,9	28	15	19	19,05	43	20	57	6,5	15	17	1400	13	
CFEX 12	12	M12	16	12	15,4	32	17,5	22	22,22	50	22	66	6,5	17	19	1900	13	

For left-hand thread add "L" (ex. CFEXL8 M8)
Technical reading from page 9 to page 15

MATERIAL

Support:

ERGal (alloy EN AW 7075 State T6) blue or purple anodized surface

Inner ring:

stainless steel
X40Cr14
(1.4021 - AISI 420)

Outer ring:

stainless steel
X5CrNi1810
(1.4301 - AISI 304) with PTFE bonded on the inner surface

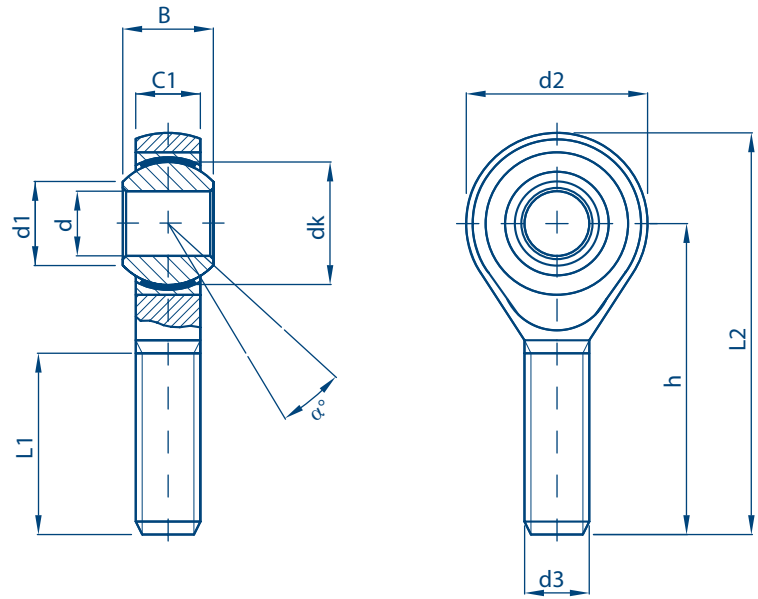
DIN ISO 12240-4 Series K Male thread

Coupling: stainless steel/PTFE

Application: precision engineering, suitable for oxidizing and corrosive environments

Series
CMEX

SELF-LUBRICATING ROD ENDS
ERGAL - STAINLESS STEEL Version



Dimensions mm

DESIGNATION	d	d3	B	C1	d1	d2	d4	d5	dk	h1	L3	L4	L5	L7	W	static radial load Co.(daN)	α° pivoting angle \approx	weight \approx (kg)
	H7	6H																
CMEX 6	6	M6	9	6,75	8,9	20	10	13	12,7	30	12	40	5	11	11	550	13	0,015
CMEX 8	8	M8	12	9	10,4	24	12,5	16	15,87	36	16	48	5	13	14	1200	14	
CMEX 10	10	M10	14	10,5	12,9	28	15	19	19,05	43	20	57	6,5	15	17	1400	13	
CMEX 12	12	M12	16	12	15,4	32	17,5	22	22,22	50	22	66	6,5	17	19	1900	13	

For left-hand thread add "L" (ex. CMEXL8 M8)

Technical reading from page 9 to page 15

*no standard dimension

MATERIAL

Support:

ERGAL (alloy EN AW 7075 State T6) blue or purple anodized surface

Inner ring:

stainless steel X40Cr14 (1.4021 - AISI 420)

Outer ring:

stainless steel X5CrNi 1810 (1.4301 - AISI 304) with PTFE bonded on the inner surface

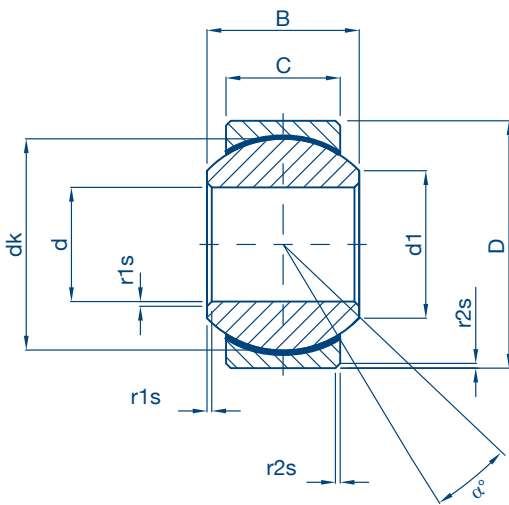
DIN ISO 12240-1 Series K

Coupling: steel/PTFE

Application: precision engineering

Series
SPK

**SELF-LUBRICATING SPHERICAL BEARINGS
 STANDARD Version**



Dimensions mm

DESIGNATION	d	B	C	D	d1	dk	r1s	r2s	static radial load Co. (daN)	static axial load Co. (daN)	α° pivoting angle \approx	weight \approx (kg)
	H7			h6			min.	min.				
SPK5	5	8	6	13	7,7	11,1	0,3	0,3	1300	170	13	0,006
SPK6	6	9	6,75	16	8,9	12,7			1700	220	13	0,009
SPK8	8	12	9	19	10,4	15,6			2800	370	14	0,016
SPK10	10	14	10,5	22	12,9	19,1			4000	520	13	0,025
SPK12	12	16	12	26	15,4	22,2			5300	700	13	0,04
SPK14	14	19	13,5	28	16,8	25,4			8600	880	15	0,09
SPK16	16	21	15	32	19,3	28,6			8500	1100	15	0,100
SPK18	18	23	16,5	35	21,8	31,7			13100	1400	15	0,125
SPK20	20	25	18	40	24,3	34,9			12500	1600	14	0,15
SPK22	22	28	20	42	25,8	38,1			19100	2100	15	0,21
SPK25	25	31	22	47	29,5	42,8	0,6	0,6	23600	2700	15	0,30
SPK30	30	37	25	55	34,8	50,8			25400	3300	17	0,38
SPK35	35	43	28*	62*	37,7*	57,2*			32000	4150	19	0,49
SPK40	40	49	35	75	44,2	66,6			48000	4800	16	0,900
SPK50	50	60	45	90	55,8	82,5			80000	7900	14	1,600

*no standard dimension

Technical reading from page 9 to page 15

MATERIAL

Inner ring:

tempered, ground and polished steel for bearings 100Cr6 (1.3505)

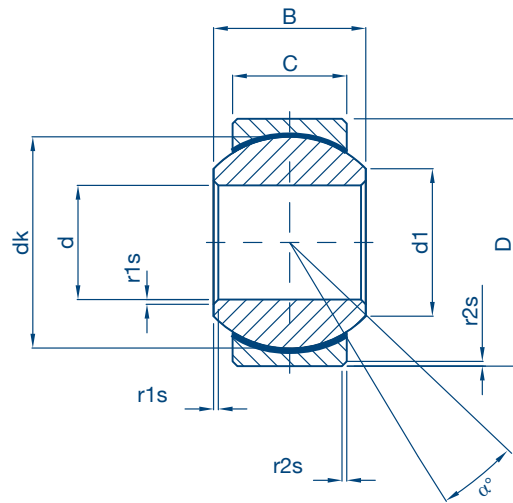
Outer ring:

C45 (1.1191) carbon steel and PTFE bonded on the inner surface

DIN ISO 12240-1 Series K

Coupling: stainless steel/PTFE

Application: precision engineering, suitable for oxidizing and corrosive environments



Dimensions mm

DESIGNATION	d H7	B	C	D	d1	dk	r1s min.	r2s min.	static radial load Co. (daN)	static axial load Co. (daN)	α° pivoting angle \approx	weight \approx (kg)		
SPK5	5	8	6	13	7,7	11,1	0,3	0,3	1300	170	13	0,006		
SPK6	6	9	6,75	16	8,9	12,7			1700	220	13	0,009		
SPK8	8	12	9	19	10,4	15,6			2800	370	14	0,016		
SPK10	10	14	10,5	22	12,9	19,1			4000	520	13	0,025		
SPK12	12	16	12	26	15,4	22,2			5300	700	13	0,04		
SPK14	14	19	13,5	28	16,8	25,4			8600	880	15	0,09		
SPK16	16	21	15	32	19,3	28,6			8500	1100	15	0,08		
SPK18	18	23	16,5	35	21,8	31,7			13100	1400	15	0,125		
SPK20	20	25	18	40	24,3	34,9			0,6	0,6	12500	1600	14	0,15
SPK22	22	28	20	42	25,8	38,1					19100	2100	15	0,21
SPK25	25	31	22	47	29,5	42,8					23600	2700	15	0,30
SPK30	30	37	25	55	34,8	50,8					25400	3300	17	0,38
SPK35	35	43	28*	62*	37,7*	57,2*					0,6	1	32000	4150

Technical reading from page 9 to page 15

MATERIAL

Inner ring:

stainless steel X46Cr13
(1.4034 - AISI 420)

Outer ring:

stainless steel
X5CrNi1810
(1.4301 - AISI 304) with
PTFE bonded on the inner
surface

*no standard dimension

Series
SPKX

SELF-LUBRICATING SPHERICAL BEARINGS
STAINLESS STEEL Version

chiavette unificate

