Mating materials:
Steel on PTFE
Maintenance-free

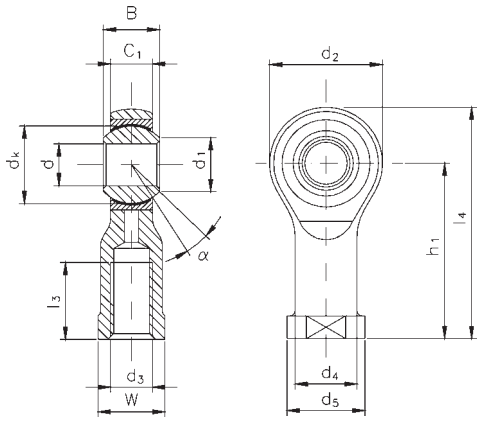
Standard
DIN ISO 12240-4
dimension series K

Inner ring: Antifriction bearing steel, hardened, ground and polished.

Outer ring: Steel lined with an antifriction film, consisting of PTFE.

Housing: Sizes 5 to 12 free-cutting steel, sizes 14 to 50 tempering steel (standardised), all sizes galvanized and chromatised. The spherical bearing ia pressed into the housing and caulked at both sides.

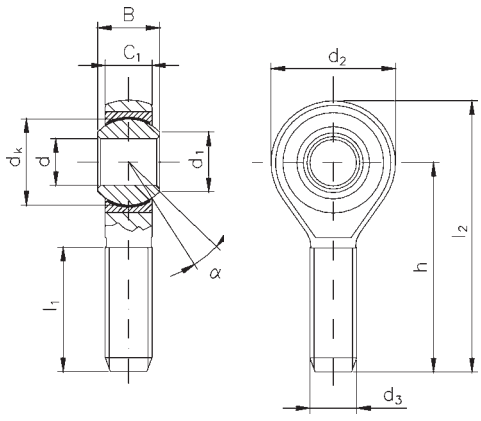
Female thread



Designation		d	d_3	B	C_1	d_1 ≈
Righthand thread	Lefthand thread	mm	mm	mm	mm	mm
KI 5-D	KIL 5-D	**5**	M5	8	6.00	7.7
KI 6-D	KIL 6-D	**6**	M6	9	6.75	8.9
KI 8-D	KIL 8-D	**8**	M8	12	9.00	10.3
KI 10-D	KIL 10-D	**10**	M10	14	10.50	12.9
KI 12-D	KIL 12-D	**12**	M12	16	12.00	15.4
KI 14-D	KIL 14-D	**14**	M14	19	13.50	16.8
KI 16-D	KIL 16-D	**16**	M16	21	15.00	19.3
KI 18-D	KIL 18-D	**18**	M18x1.5	23	16.50	21.8
KI 20-D	KIL 20-D	**20**	M20x1.5	25	18.00	24.3
KI 22-D	KIL 22-D	**22**	M22x1.5	28	20.00	25.8
KI 25-D	KIL 25-D	**25**	M24x2	31	22.00	29.5
KI 30-D	KIL 30-D	**30**	M30x2	37	25.00	34.8
KI 35-D	KIL 35-D	**35**	M36x2	43	28.00	37.7*
KI 40-D	KIL 40-D	**40**	M42x2	49	33.00	45.2*
KI 50-D	KIL 50-D	**50**	M48x2	60	45.00	56.6*

*) deviates from standard

Male thread



Designation		d	d_3	B	C_1	d_1 ≈
Righthand thread	Lefthand thread	mm	mm	mm	mm	mm
KA 5-D	KAL 5-D	**5**	M5	8	6.00	7.7
KA 6-D	KAL 6-D	**6**	M6	9	6.75	8.9
KA 8-D	KAL 8-D	**8**	M8	12	9.00	10.3
KA 10-D	KAL 10-D	**10**	M10	14	10.50	12.9
KA 12-D	KAL 12-D	**12**	M12	16	12.00	15.4
KA 14-D	KAL 14-D	**14**	M14	19	13.50	16.8
KA 16-D	KAL 16-D	**16**	M16	21	15.00	19.3
KA 18-D	KAL 18-D	**18**	M18x1.5	23	16.50	21.8
KA 20-D	KAL 20-D	**20**	M20x1.5	25	18.00	24.3
KA 22-D	KAL 22-D	**22**	M22x1.5	28	20.00	25.8
KA 25-D	KAL 25-D	**25**	M24x2	31	22.00	29.5
KA 30-D	KAL 30-D	**30**	M30x2	37	25.00	34.8
KA 35-D	KAL 35-D	**35**	M36x2	43	28.00	37.7*
KA 40-D	KAL 40-D	**40**	M42x2	49	33.00	45.2*
KA 50-D	KAL 50-D	**50**	M48x2	60	45.00	56.6*

*) deviates from standard



Special versions:

- **Version -DMS**:
  as standard, but outer ring made of brass

- **Version -DV**:
  as standard, but housing heat-treated,
  for static load capacity see **-V** load rating stat **C0**

- **Version -DL**:
  as standard, but housing made from high-grade tempering steel (heat-treated),
  for static load capacity see **-L** load rating stat **C0**

  Further versions available on request. E.g.:

- Housing crack-tested

- Sliding face of inner ring hard chromium plated

- Special surface coating of housing

d_2 max.	d_4 ≈	d_5	dk	h_1	l_3 min.	l_4 ≈	W	**Load ratings static C_0** Standard	-V	-L	Tilt angle	Weight
mm	mm	mm	mm	mm	mm	mm	mm	**kN**	**kN**	**kN**	∝°	kg
19	9.0	11	11.1	27	8	36.5	9	**6**	•	•	13	0.017
21	10.0	13	12.7	30	9	40.5	11	**7**	•	•	13	0.025
25	12.5	16	15.8	36	12	48.5	14	**12**	**16**	**21**	13	0.043
29	15.0	19	19.0	43	15	57.5	17	**15**	**19**	**27**	13	0.072
33	17.5	22	22.2	50	18	66.5	19	**23**	**25**	**35**	13	0.107
37	20.0	25	25.4	57	21	75.5	22	**24**	**34**	**46**	15	0.160
43	22.0	27	28.5	64	24	85.5	22	**34**	**43**	**57**	15	0.210
47	25.0	31	31.7	71	27	94.5	27	**39**	**49**	**77**	15	0.295
51	27.5	34	34.9	77	30	102.5	30	**42**	**50**	**78**	15	0.380
55	30.0	37	38.1	84	33	111.5	32	**54**	**70**	**101**	15	0.490
61	33.5	42	42.8	94	36	124.5	36	**60**	**78**	**131**	15	0.650
71	40.0	50	50.8	110	45	145.5	41	**82**	**107**	**182**	15	1.150
81	46.0	58	57.1	125	56	165.5	50	**96**	•	•	16	1.600
91	53.0	65	66.6	142	60	187.5	55	**132**	•	•	17	2.400
117	65.0	75	82.5	160	65	218.5	65	**209**	•	•	12	5.000

• not available

d_2 max.	dk	h	l_1 min.	l_2 ≈	**Load ratings static C_0** Standard	-V	-L	Tilt angle	Weight
mm	mm	mm	mm	mm	**kN**	**kN**	**kN**	∝°	kg
19	11.1	33	19	42.5	**4**	•	•	13	0.013
21	12.7	36	21	46.5	**6**	•	•	13	0.019
25	15.8	42	25	54.5	**10**	**12**	**19**	13	0.032
29	19.0	48	28	62.5	**15**	**19**	**27**	13	0.054
33	22.2	54	32	70.5	**23**	**25**	**35**	13	0.085
37	25.4	60	36	78.5	**24**	**34**	**46**	15	0.125
43	28.5	66	37	87.5	**33**	**43**	**57**	15	0.185
47	31.7	72	41	95.5	**39**	**49**	**77**	15	0.260
51	34.9	78	45	103.5	**42**	**50**	**78**	15	0.340
55	38.1	84	48	111.5	**54**	**70**	**101**	15	0.435
61	42.8	94	55	124.5	**60**	**78**	**131**	15	0.590
71	50.8	110	66	145.5	**82**	**107**	**182**	15	1.060
81	57.1	140	85	180.5	**96**	•	•	16	1.640
91	66.6	150	90	195.5	**132**	•	•	17	2.300
117	82.5	185	105	219.5	**209**	•	•	12	4.800

• not available