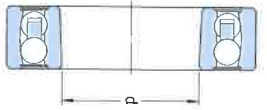
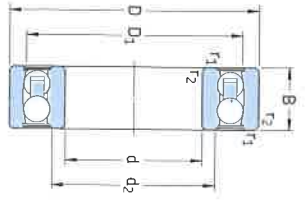


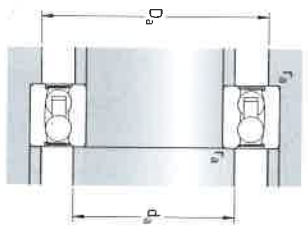
Sealed self-aligning ball bearings
d 10 – 70 mm



Cylindrical bore

Tapered bore

Principal dimensions	d	D	B	Basic load ratings			Fatigue load limit P_u	Limiting speed	Mass	Designations	
				dynamic	static	C_0				Bearing with cylindrical bore	tapered bore
10	30	14	5.53	1.18	0.06	17 000	0.048	2200 E-2RS1TN9	-	-	
12	32	14	6.24	1.43	0.08	16 000	0.053	2201 E-2RS1TN9	-	-	
15	35	14	7.41	1.76	0.09	14 000	0.058	2202 E-2RS1TN9	-	-	
	42	17	10.8	2.6	0.14	12 000	0.11	2302 E-2RS1TN9	-	-	
17	40	16	8.84	2.2	0.12	12 000	0.089	2203 E-2RS1TN9	-	-	
	47	19	12.7	3.4	0.18	11 000	0.16	2303 E-2RS1TN9	-	-	
20	47	18	12.7	3.4	0.18	10 000	0.14	2204 E-2RS1TN9	-	-	
	52	21	14.3	4	0.21	9 000	0.21	2304 E-2RS1TN9	-	-	
25	52	18	14.3	4	0.21	9 000	0.16	2205 E-2RS1KTN9	-	-	
	62	24	19	5.4	0.28	7 500	0.34	2305 E-2RS1TN9	-	-	
30	62	20	15.6	4.65	0.24	7 500	0.26	2206 E-2RS1TN9	-	2206 E-2RS1KTN9	
	72	27	22.5	6.8	0.36	6 700	0.51	2306 E-2RS1TN9	-	-	
35	72	23	19	6.5	0.31	6 300	0.41	2207 E-2RS1TN9	-	2207 E-2RS1KTN9	
	80	31	26.5	8.5	0.43	5 600	0.70	2307 E-2RS1TN9	-	-	
40	80	23	19.9	6.95	0.36	5 600	0.50	2208 E-2RS1TN9	-	2208 E-2RS1KTN9	
	90	33	33.8	11.2	0.57	5 000	0.96	2308 E-2RS1TN9	-	-	
45	85	23	22.9	7.8	0.40	5 300	0.53	2209 E-2RS1TN9	-	2209 E-2RS1KTN9	
	100	36	39	13.4	0.70	4 500	1.30	2309 E-2RS1TN9	-	-	
50	90	23	22.9	8.15	0.42	4 800	0.57	2210 E-2RS1TN9	-	2210 E-2RS1KTN9	
	110	40	43.6	14	0.72	4 000	1.65	2310 E-2RS1TN9	-	-	
55	100	25	27.6	10.6	0.54	4 300	0.79	2211 E-2RS1TN9	-	2211 E-2RS1KTN9	
60	110	28	31.2	12.2	0.62	3 800	1.05	2212 E-2RS1TN9	-	2212 E-2RS1KTN9	
65	120	31	35.1	14	0.72	3 600	1.40	2213 E-2RS1TN9	-	2213 E-2RS1KTN9	
70	125	31	35.8	14.6	0.75	3 400	1.45	2214 E-2RS1TN9	-	-	



Dimensions	d	d ₂	D ₁	Abutment and fillet dimensions				Calculation factors			
				r _{1,2} min	d ₁ min	d ₂ max	D ₂ max	r ₁ max	e	Y ₁	Y ₂
10	14	24.8	0.6	14	14	25.8	0.6	0.33	1.9	3	2
12	15.5	27.4	0.6	15.5	15.5	27.8	0.6	0.33	1.9	3	2
15	19.1	30.4	0.6	19	19	30.8	0.6	0.33	1.9	3	2
	20.3	36.3	1	20	20	36.4	1	0.31	2	3.1	2.2
17	21.1	35	0.6	21	21	35.8	0.6	0.31	2	3.1	2.2
	25.5	41.3	1	22	22	41.4	1	0.30	2.1	3.5	2.2
20	25.9	41.3	1.1	25	25.5	41.4	1	0.30	2.1	3.3	2.2
	28.6	46.3	1.1	26.5	28.5	45	1	0.28	2.2	3.5	2.5
25	31	46.3	1.1	30.6	31	46.4	1	0.28	2.2	3.5	2.5
	32.8	52.7	1.1	32	32.5	55	1	0.28	2.2	3.5	2.5
30	36.7	54.1	1.1	35.6	36.5	56.4	1	0.25	2.5	3.9	2.5
	40.4	61.9	1.1	37	40	65	1	0.25	2.5	3.9	2.5
35	42.7	62.7	1.1	42	42.5	65	1.5	0.22	2.7	4.2	2.8
	43.7	69.2	1.5	43.5	43.5	71	1.5	0.23	2.5	3.9	2.8
40	49	69.8	1.1	47	49	73	1	0.22	2.9	4.5	2.8
	55.4	81.8	1.5	49	55	81	1.5	0.23	2.7	4.2	2.8
45	53.1	75.3	1.1	52	53	78	1	0.21	3	4.6	3.2
	60.9	90	1.5	54	60.5	91	1.5	0.23	2.7	4.2	2.8
50	58.1	79.5	1.1	57	58	83	1	0.20	3.2	4.9	3.2
	62.9	95.2	2	61	62.5	99	2	0.24	2.6	4.1	2.8
55	65.9	88.5	1.5	64	65.5	91	1.5	0.19	3.3	5.1	3.6
60	73.2	97	1.5	69	73	101	1.5	0.19	3.3	5.1	3.6
65	79.3	106	1.5	74	79	111	1.5	0.18	3.5	5.4	3.6
70	81.4	109	1.5	79	81	116	1.5	0.18	3.5	5.4	3.6