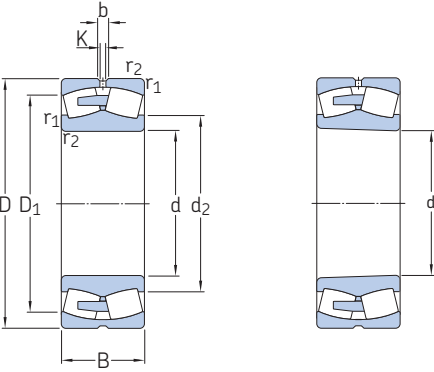


9.1 Spherical roller bearings

d 1 180 – 1 800 mm

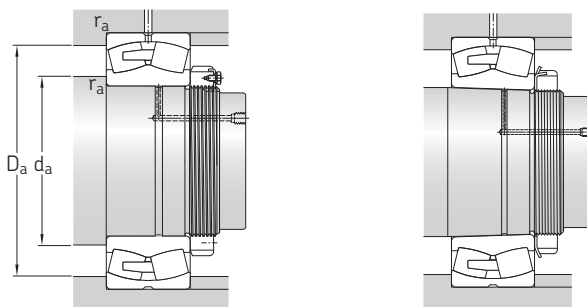


Cylindrical bore

Tapered bore

Principal dimensions			Basic load ratings		Fatigue load limit P_u	Speed ratings		Mass	Designations	
d	D	B	dynamic C	static C_0		Reference speed	Limiting speed		Bearing with cylindrical bore	tapered bore
mm			kN		kN	r/min		kg	–	
1 180	1 420	180	6 778	18 600	1 080	170	320	575	238/1180 CAFA/W20	238/1180 CAKFA/W20
	1 540	272	13 076	31 000	1 660	150	300	1 400	239/1180 CAF/W33	239/1180 CAKF/W33
	1 540	355	15 751	40 500	2 160	130	240	1 800	249/1180 CAF/W33	249/1180 CAK30F/W33
	1 660	475	25 471	58 500	3 050	130	220	3 320	240/1180 CAF/W33	240/1180 CAK30F/W33
1 250	1 750	375	21 256	45 000	2 320	130	240	2 840	230/1250 CAF/W33	230/1250 CAKF/W33
1 320	1 720	400	18 714	49 000	2 500	110	200	2 500	249/1320 CAF/W33	249/1320 CAK30F/W33
1 500	1 820	315	14 684	45 000	2 400	110	220	1 710	248/1500 CAFA/W20	248/1500 CAK30FA/W20
1 800	2 180	375	20 274	63 000	3 050	75	140	2 900	248/1800 CAFA/W20	248/1800 CAK30FA/W20





Dimensions						Abutment and fillet dimensions				Calculation factors				Permissible acceleration for oil lubrication ¹⁾	
d	d ₂	D ₁	b	K	r _{1,2}	d _a	d _a	D _a	r _a	e	Y ₁	Y ₂	Y ₀	rota-	linear
mm					min.	min.	max.	max.	max.	–				m/s ²	
1 180	1 264	1 355	–	12	6	1 203	–	1 397	5	0,11	6,1	9,1	6,3	–	–
	1 305	1 439	22,3	12	7,5	1 208	–	1 512	6	0,16	4,2	6,3	4	–	–
	1 297	1 422	22,3	12	7,5	1 208	–	1 512	6	0,2	3,4	5	3,2	–	–
	1 325	1 507	22,3	12	9,5	1 200	–	1 626	8	0,26	2,6	3,9	2,5	–	–
1 250	1 415	1 611	22,3	12	9,5	1 284	–	1 716	8	0,19	3,6	5,3	3,6	–	–
1 320	1 449	1 589	22,3	12	7,5	1 348	–	1 692	6	0,21	3,2	4,8	3,2	–	–
1 500	1 612	1 719	–	12	7,5	1 528	–	1 792	6	0,15	4,5	6,7	4,5	–	–
1 800	1 932	2 060	–	12	9,5	1 834	–	2 146	8	0,15	4,5	6,7	4,5	–	–



¹⁾ For details about permissible accelerations → [page 779](#)