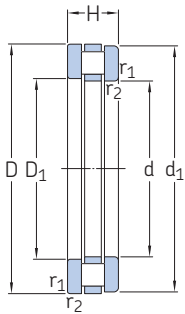
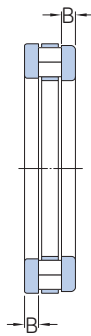


11.1 Cylindrical roller thrust bearings

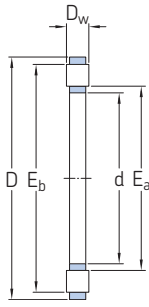
d 190 – 320 mm



811,
812



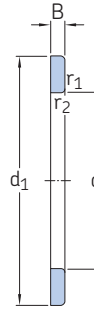
893,
894



K 811,
K 812



K 893,
K 894

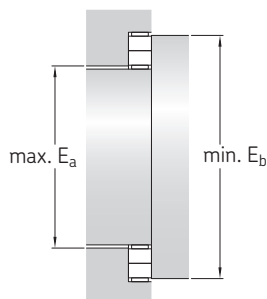
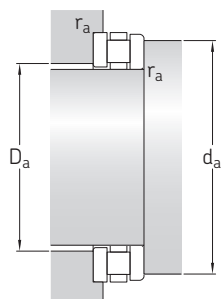


WS



GS

Principal dimensions					Basic load ratings		Fatigue load limit	Minimum load factor	Speed ratings		Mass	Designation
d	D	H	E _a	E _b	C	C ₀	P _u	A	Reference speed	Limiting speed		
mm					kN		kN	–	r/min		kg	–
190	240	37	197	233	310	1 460	125	0,17	700	1 400	4,75	► 81138 M
	270	62	205	263	695	2 900	250	0,67	500	1 000	12	81238 M
	380	115	212	371	1 960	9 000	720	6,5	380	750	65,5	89438 M
200	250	37	206	243	310	1 500	125	0,18	700	1 400	4,95	► 81140 M
	280	62	215	273	720	3 100	255	0,77	500	1 000	13,5	81240 M
	400	122	224	391	2 160	10 000	800	8	360	700	75	89440 M
220	270	37	226	263	335	1 700	137	0,23	670	1 300	5,2	► 81144 M
	300	63	236	294	750	3 350	275	0,9	480	950	15	► 81244 M
	420	122	244	411	2 320	11 200	880	10	340	700	84,5	89444 M
240	300	45	248	296	475	2 450	196	0,48	560	1 100	8,45	► 81148 M
	340	78	263	333	1 100	4 900	390	1,92	400	800	22	► 81248 M
260	320	45	268	316	490	2 600	200	0,54	530	1 100	9,1	► 81152 M
	360	79	281	351	1 140	5 300	415	2,25	380	750	27	81252 M
280	350	53	288	346	680	3 550	275	1	480	950	12,5	81156 M
300	380	62	315	373	850	4 400	335	1,55	430	850	19,5	81160 M
	420	95	329	412	1 530	7 200	540	4,1	320	630	43	81260 M
320	400	63	334	394	880	4 650	345	1,73	400	800	20,5	81164 M



Dimensions						Abutment and fillet dimensions			Designation of components			
d	$d_1 \approx$	$D_1 \approx$	B	D_w	$r_{1,2} \text{ min.}$	$d_a \text{ min.}$	$D_a \text{ max.}$	$r_a \text{ max.}$	Cylindrical roller and cage thrust assembly	Shaft washer	Housing washer	Universal washer
mm						mm			—			
190	237	193	11	15	1,1	233	197	1,1	K 81138 M	WS 81138	GS 81138	—
	267	194	18	26	2	265	200	2	K 81238 M	WS 81238	GS 81238	—
	380	195	38,5	38	5	373	214	5	K 89438 M	WS 89438	GS 89438	—
200	247	203	11	15	1,1	243	206	1,1	K 81140 M	WS 81140	GS 81140	—
	277	204	18	26	2	275	210	2	K 81240 M	WS 81240	GS 81240	—
	400	205	41	40	5	393	226	5	K 89440 M	WS 89440	GS 89440	—
220	267	223	11	15	1,1	263	226	1,1	K 81144 M	WS 81144	GS 81144	—
	297	224	18,5	26	2	296	230	2	K 81244 M	WS 81244	GS 81244	—
	420	225	41	40	6	413	246	6	K 89444 M	WS 89444	GS 89444	—
240	297	243	13,5	18	1,5	296	248	1,5	K 81148 M	WS 81148	GS 81148	—
	335	244	23	32	2,1	335	261	2,1	K 81248 M	WS 81248	GS 81248	—
260	317	263	13,5	18	1,5	316	268	1,5	K 81152 M	WS 81152	GS 81152	—
	355	264	23,5	32	2,1	353	280	2,1	K 81252 M	WS 81252	GS 81252	—
280	347	283	15,5	22	1,5	346	288	1,5	K 81156 M	WS 81156	GS 81156	—
300	376	304	18,5	25	2	373	315	2	K 81160 M	WS 81160	GS 81160	—
	415	304	28,5	38	3	413	328	3	K 81260 M	WS 81260	GS 81260	—
320	396	324	19	25	2	394	334	2	K 81164 M	WS 81164	GS 81164	—

