



Subject	Symbol	Description
Seal type	ZZ	Metal shields on both sides
	2RS	Rubber seals on both sides
	Z	Metal shield on one side
	RS	Rubber seal on one side
Radial internal clearance	C2	Less than normal
	CN	Normal clearance. Is not indicated as a standard
	C3	Greater clearance than normal
	C4	Greater than C3
	C5	Greater than C4
Other technical modifications	NR	Groove with inserted snap ring in outer ring
	N	Snap ring groove in the outer ring
	SS	Stainless steel
Cage type	M	Brass cage ball guided
	MB	Brass cage, inner ring centered
	MA	Brass cage, outer ring centered
Speed ratings	V	Normal vibration level. Is not indicated as a standard
	V2	Lower vibration level than normal
	V3	Lower vibration level than V2
	V4	Lower vibration level than V3
Tolerances	P0	Normal tolerance level. Is not indicated as a standard
	P6	Greater tolerance level than P0
	P5	Greater tolerance level than P6

Features

Single row deep groove ball bearings are most frequently used bearing type. They are versatile, self-retaining bearings with solid outer rings, inner rings and ball and cage assemblies. Due to their low frictional torque, they are suitable for high and even very high speeds and are robust in operation, little maintenance. Due to the raceway geometry and the balls used as rolling elements, deep groove ball bearings can support relatively high radial loads, as well as small axial loads.

Sealing and lubrication

The most popular sizes of deep groove ball bearings are also produced in sealed versions. These bearings with Z and ZZ are greased using a high quality grease, lubricated for life and suitable for high speeds. Bearings with the suffix RS or 2RS have lip seals on one or both sides made from nitrile butadiene rubber. CRAFT bearings grease is a low noise bearing grease which is thickened by lithium 12-hydroxy stearic, it is made from deeply refined mineral oil with rust and oxidation inhibitors through special technical process. Applied temperature range -20 C - +120 C.

Radial internal clearance

Bearing internal clearance is defined as the total distance through which one bearing ring can be moved relative to the other in the radial direction (radial internal clearance). CRAFT bearings single row deep groove ball bearings are manufactured with normal radial internal clearance as standard (CN). Most of the bearings are also available with C3 radial internal clearance. Depending on working conditions you can choose bearing with different internal clearances, the values of radial internal clearance are in accordance to ISO 5753:1 and are valid for unmounted bearings under zero measuring load.

Cages

CRAFT single row deep groove ball bearings are supplied with one of the following cages: steel cage or brass cage. Single row deep groove ball bearings without a cage suffix have a steel cage. Most frequently deep groove ball bearing with ball-guided solid brass cages are indicated by suffix M. These brass cage bearings can also be with inner ring centered (MB), or outer ring centered (MA).

ISO	GOST	Dimensions (mm)			Basic Load Ratings (N)		Limiting speed (r/min)		Weight (kg)
							Lubrication		
		d	D	B	Dyn. C	Stat. C ₀	Grease	Oil	
6200	200	10	30	9	5070	2360	25000	30000	0,031
6200 ZZ	80200	10	30	9	5070	2360	25000	30000	0,031
6200 2RS	180200	10	30	9	5070	2360	17000	-	0,031
6201	201	12	32	10	6890	3100	22000	26000	0,038
6201 ZZ	80201	12	32	10	6890	3100	22000	26000	0,038
6201 2RS	180201	12	32	10	6890	3100	15000	-	0,038
6202	202	15	35	11	7800	3750	19000	23000	0,044
6202 ZZ	80202	15	35	11	7800	3750	19000	23000	0,044
6202 2RS	180202	15	35	11	7800	3750	13000	-	0,044
6203	203	17	40	12	9560	4750	18000	21000	0,066
6203 ZZ	80203	17	40	12	9560	4750	18000	21000	0,066
6203 2RS	180203	17	40	12	9560	4750	12000	-	0,066
6204	204	20	47	14	12700	6550	16000	18000	0,109
6204 ZZ	80204	20	47	14	12700	6550	16000	18000	0,109
6204 2RS	180204	20	47	14	12700	6550	10000	-	0,109
6205	205	25	52	15	14000	7800	13000	15000	0,133
6205 ZZ	80205	25	52	15	14000	7800	13000	15000	0,133
6205 2RS	180205	25	52	15	14000	7800	8500	-	0,133
6206	206	30	62	16	19500	11200	11000	13000	0,200
6206 ZZ	80206	30	62	16	19500	11200	11000	13000	0,200
6206 2RS	180206	30	62	16	19500	11200	7500	-	0,200
6207	207	35	72	17	25500	15300	9800	11000	0,299
6207 ZZ	80207	35	72	17	25500	15300	9800	11000	0,299
6207 2RS	180207	35	72	17	25500	15300	6300	-	0,299
6208	208	40	80	18	30700	19000	8700	10000	0,379
6208 ZZ	80208	40	80	18	30700	19000	8700	10000	0,379
6208 2RS	180208	40	80	18	30700	19000	5600	-	0,379
6209	209	45	85	19	33200	21600	7800	9200	0,430
6209 ZZ	80209	45	85	19	33200	21600	7800	9200	0,430
6209 2RS	180209	45	85	19	33200	21600	5000	-	0,430
6210	210	50	90	20	35100	23200	7100	8300	0,475
6210 ZZ	80210	50	90	20	35100	23200	7100	8300	0,475
6210 2RS	180210	50	90	20	35100	23200	4800	-	0,475
6211	211	55	100	21	43600	29000	6400	7600	0,625
6211 ZZ	80211	55	100	21	43600	29000	6400	7600	0,625
6211 2RS	180211	55	100	21	43600	29000	4300	-	0,625
6212	212	60	110	22	47500	32500	6000	7000	0,797
6212 ZZ	80212	60	110	22	47500	32500	6000	7000	0,797
6212 2RS	180212	60	110	22	47500	32500	3700	-	0,797
6213	213	65	120	23	55900	40500	5500	6500	1,017
6213 ZZ	80213	65	120	23	55900	40500	5500	6500	1,017
6213 2RS	180213	65	120	23	55900	40500	3500	-	1,017
6214	214	70	125	24	60500	45000	5100	6000	1,110
6214 ZZ	80214	70	125	24	60500	45000	5100	6000	1,110
6214 2RS	180214	70	125	24	60500	45000	3300	-	1,110
6215	215	75	130	25	66300	49000	4800	5600	1,210
6215 ZZ	80215	75	130	25	66300	49000	4800	5600	1,210
6215 2RS	180215	75	130	25	66300	49000	3100	-	1,210
6216	216	80	140	26	70200	55000	4500	5300	1,460
6216 ZZ	80216	80	140	26	70200	55000	4500	5300	1,460
6216 2RS	180216	80	140	26	70200	55000	2900	-	1,460
6217	217	85	150	28	83200	64000	4200	5000	1,847
6217 ZZ	80217	85	150	28	83200	64000	4200	5000	1,847
6217 2RS	180217	85	150	28	83200	64000	2700	-	1,847
6218	218	90	160	30	95600	73500	4000	4700	2,223
6218 ZZ	80218	90	160	30	95600	73500	4000	4700	2,223
6218 2RS	180218	90	160	30	95600	73500	2600	-	2,223
6219	219	95	170	32	108000	81500	3700	4400	2,713

ISO	GOST	Dimensions (mm)			Basic Load Ratings (N)		Limiting speed (r/min)		Weight (kg)
							Lubrication		
		d	D	B	Dyn. C	Stat. C ₀	Grease	Oil	
6219 ZZ	80219	95	170	32	108000	81500	3700	4400	2,713
6219 2RS	180219	95	170	32	108000	81500	2400	-	2,713
6220	220	100	180	34	124000	93000	3500	4200	3,321
6220 ZZ	80220	100	180	34	124000	93000	3500	4200	3,321
6220 2RS	180220	100	180	34	124000	93000	2300	-	3,321
6221	221	105	190	36	133000	104000	3400	4000	3,717
6221 ZZ	80221	105	190	36	133000	104000	3400	4000	3,717
6221 2RS	180221	105	190	36	133000	105000	2200	-	3,717
6222	222	110	200	38	143000	118000	3200	3800	4,340
6222 ZZ	80222	110	200	38	143000	118000	3200	3800	4,340
6222 2RS	180222	110	200	38	143000	118000	2000	-	4,340
6224	224	120	215	40	148000	131000	2900	3400	5,100
6224 ZZ	80224	120	215	40	148000	131000	2900	3400	5,100
6224 2RS	180224	120	215	40	148000	131000	1900	-	5,100
6226	226	130	230	40	156000	146000	2700	3100	5,615
6226 ZZ	80226	130	230	40	156000	146000	2700	3100	5,615
6228	228	140	250	42	165000	150000	2500	2900	7,485
6228 ZZ	80228	140	250	42	165000	150000	2500	2900	7,485
6230	230	150	270	45	174000	166000	2300	2700	9,475
6230 ZZ	80230	150	270	45	174000	166000	2300	2700	9,475
6232	232	160	290	48	186000	186000	2100	2500	14,590
6232 ZZ	80232	160	290	48	186000	186000	2100	2500	14,590
6234	234	170	310	52	212000	224000	2000	2400	17,570
6234 ZZ	80234	170	310	52	212000	224000	2000	2400	17,570
6236	236	180	320	52	229000	240000	1900	2200	18,600
6236 ZZ	80236	180	320	52	229000	240000	1900	2200	18,600
6238	238	190	340	55	255000	280000	1800	2100	22,800
6240	240	200	360	58	270000	310000	1700	2000	28,000
6244	244	220	400	65	296000	365000	1500	1800	32,40
6248	248	240	440	72	340000	431000	1300	1600	51,00
6252	252	260	480	80	390000	530000	1100	1400	65,50
6256	256	280	500	80	423000	600000	1100	1400	71,00
6260	260	300	540	85	441000	663000	1000	1350	89,50
6264	264	320	580	92	489000	744000	950	1200	113,00
6268	268	340	620	92	511000	817000	900	1100	131,00
6272	272	360	650	95	557000	904000	850	1000	144,00
6276	276	380	680	95	584000	990000	800	900	162,00
6280	280	400	720	103	628000	1080000	700	800	197,00
6300	300	10	35	11	8060	3400	23000	27000	0,054
6300 ZZ	80300	10	35	11	8060	3400	23000	27000	0,054
6300 2RS	180300	10	35	11	8060	3400	15000	-	0,054
6301	301	12	37	12	9750	4150	20000	24000	0,063
6301 ZZ	80301	12	37	12	9750	4150	20000	24000	0,063
6301 2RS	180301	12	37	12	9750	4150	14000	-	0,063
6302	302	15	42	13	11400	5400	17000	21000	0,087
6302 ZZ	80302	15	42	13	11400	5400	17000	21000	0,087
6302 2RS	180302	15	42	13	11400	5400	12000	-	0,087
6303	303	17	47	14	13500	6550	16000	19000	0,117
6303 ZZ	80303	17	47	14	13500	6550	16000	19000	0,117
6303 2RS	180303	17	47	14	13500	6550	11000	-	0,117
6304	304	20	52	15	15900	7800	14000	17000	0,153
6304 ZZ	80304	20	52	15	15900	7800	14000	17000	0,153
6304 2RS	180304	20	52	15	15900	7800	9500	-	0,153
6305	305	25	62	17	22500	11600	12000	14000	0,238
6305 ZZ	80305	25	62	17	22500	11600	12000	14000	0,238
6305 2RS	180305	25	62	17	22500	11600	7500	-	0,238
6306	306	30	72	19	28100	16000	10000	12000	0,360
6306 ZZ	80306	30	72	19	28100	16000	10000	12000	0,360
6306 2RS	180306	30	72	19	28100	16000	6300	-	0,360