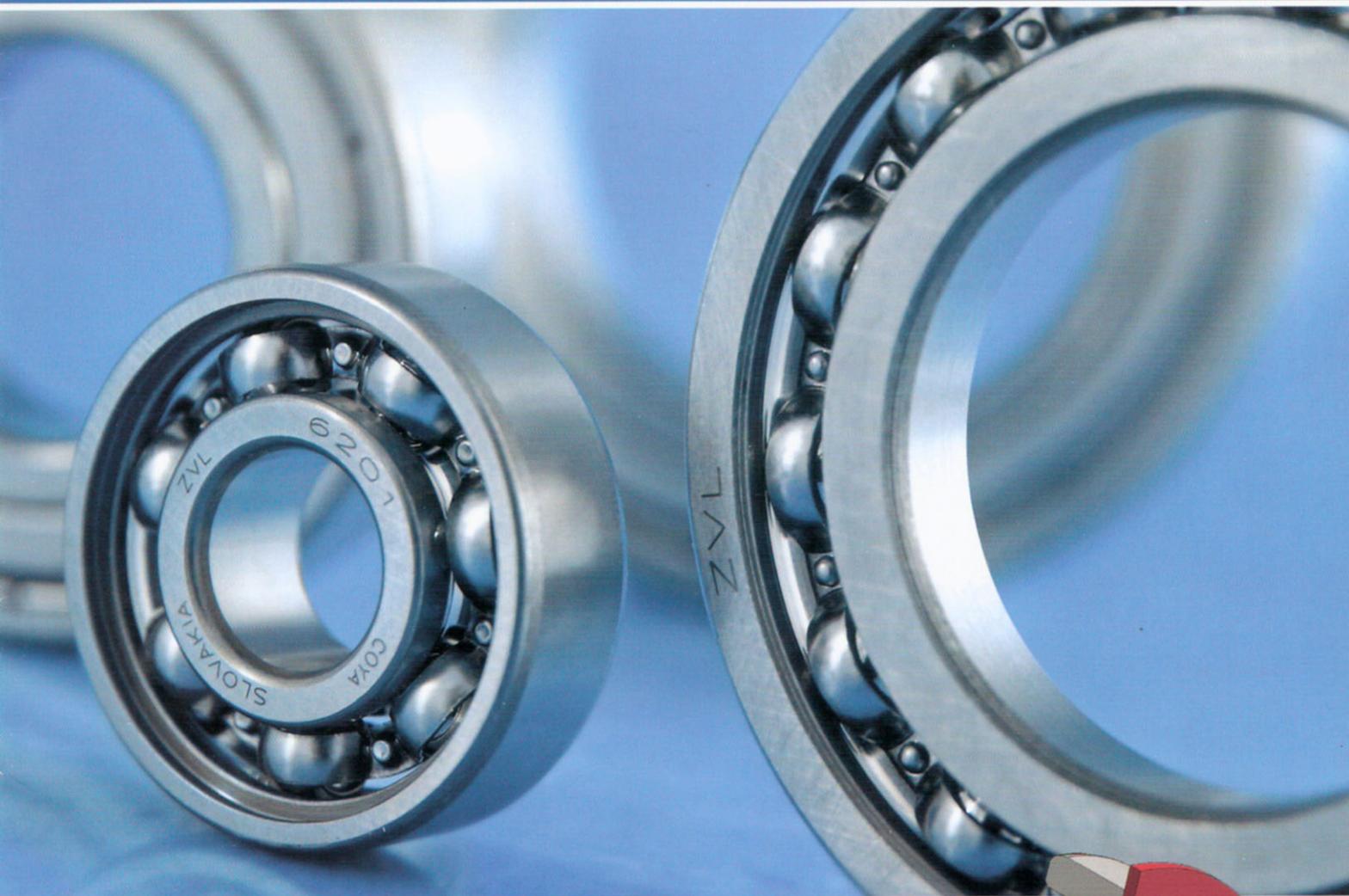




SINGLE ROW DEEP GROOVE BALL BEARINGS



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The single row deep groove ball bearings have relatively deep raceways on both rings without a filling slot and they are non-separable. By optimum size of balls and by their conformity to the raceways high load ratings are achieved.

They can carry axial and radial loads in both directions and are suitable even for high rotation speeds. These bearings are manufactured in a broad selection of types and are the most common rolling bearing type.



DESIGN SPECIFICATIONS

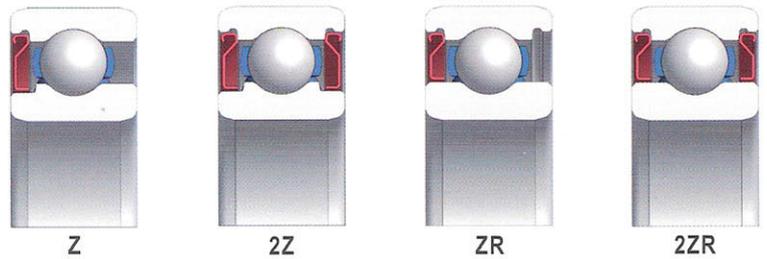
MAIN DIMENSIONS

Main dimensions of single row deep groove ball bearings specified in the dimension tables comply with the international standards ISO 15. Snap ring groove dimensions comply with the international standards ISO 464.

BEARINGS WITH SHIELDS OR SEALS

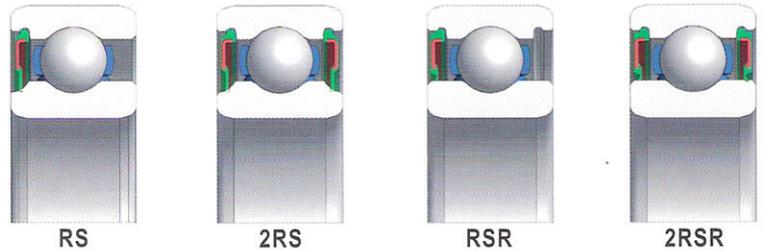
Single row deep groove ball bearings with sealing on one or on both sides are manufactured with metal shields (Z, -2Z, or ZR, -2ZR) or with seals (RS, -2RS or RSR, -2RSR).

The shields create a non-contact sealing. The bearings are manufactured in the original design with steps for shields on the inner ring (Z, -2Z) or in the new design with a shield and a flat collar of the inner ring (ZR, -2ZR).



The sealing rings made of rubber, vulcanized on metal reinforcing ring, provide an effective friction type sealing. The bearings are manufactured in the design with rounded steps on the inner ring (RS, -2RS) or in a new design with a seal and a flat collar of the inner ring (RSR, -2RSR). Bearings with seals are suitable for usage within the temperature range from -30 °C to 110 °C. Delivery of bearings with seals within the operating temperature range from -40 °C to 250 °C (RS2, -2RS2 or RSR2, -2RSR2) should be discussed in advance. Shields and seals are inserted in the recess of the outer ring and these are not removable.

Bearings sealed on both sides (-2Z, -2RS, or -2ZR, -2RSR) are filled with a quality grease the properties of which usually ensure the lubrication during the whole bearing life under normal operating conditions. The bearings of this design cannot be relubricated. They can be used within the operating temperature range from -30 °C to 110 °C. The delivery of bearings with different grease should be discussed with the supplier in advance.



GREASE

For bearings sealed on both sides, the designation of the grease filling different from standard grease is indicated by a symbol combination. The first two letters indicate the operating temperature range (a symbol in accordance with STN 02 4608) and the third identifies the grease name.

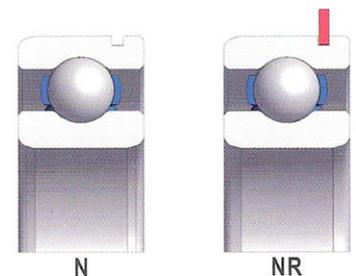
- TL - Grease for low operating temperatures (from -60 °C to 100 °C)
- TM - Grease for medium operating temperatures (from -35 °C to 140 °C)
- TH - Grease for high operating temperatures (from -30 °C to 200 °C)
- TW - Grease for low and high operating temperatures (from -40 °C to 150 °C)

Note: The symbols of greases for medium operating temperatures need not to be marked on the bearings.

BEARINGS WITH SNAP RING GROOVE

The single row deep groove ball bearings with a snap ring groove (N) can be easily axially fixed in the housings and without high requirements on the space simplifying the arrangement design. For bearings with a groove in the outer ring, snap rings corresponding to STN 02 4605 are used (commercial designation R and the number indicating the outside diameter D of the corresponding bearing, e. g. R47). Bearings with a snap ring groove and a snap ring are designated by the suffix NR, e. g. 6204NR. Snap rings for the bearings with a snap ring groove are delivered separately.

The bearings with a snap ring groove can also be delivered in the modification with shields or seals (ZN, -2ZN or RSN, -2RSN). The delivery of these bearings must be discussed in advance.



TAPERED BORE

For some less demanding arrangements, e. g. in agricultural machines, etc., some sizes of single row deep groove ball bearings of type 62 and 63 with a tapered bore (K), taper 1:12 are manufactured. These bearings are also manufactured in a design with shields on both sides. The bearings are fixed on the cylindrical shaft by means of adapter sleeves of types H2, H3 or directly on the tapered shaft.

CAGE

The single row deep groove ball bearings of the basic design are equipped with a pressed cage made of steel sheet, guided on balls, which is not designated. In special cases the bearings are produced with different types of cages: bearings with a solid polyamide cage (TNH, TNGH), with a solid cage of textite (TB). The supply of these bearings should be discussed in advance.

TOLERANCES

Single row deep groove ball bearings are produced in tolerance classes P0 and P6. For special arrangements requiring high precision or for arrangements with a high rotation speed, the bearings in higher tolerance classes P5 and P4 are used. The bearings in higher tolerance class P6E are used for rotating electric machines. The limit values of deviations in tolerances and the operation are specified in ISO 492.

RADIAL CLEARANCE

Commonly produced single row deep groove ball bearings have normal radial clearance which is not indicated. In specific cases bearings with radial clearance C2 (smaller than normal clearance) or with the radial clearance C3, C4, C5 (greater than normal clearance) can be produced (ISO 5753).

VIBRATION LEVEL

Commonly manufactured single row ball bearings have a normal vibration level checked by the manufacturer. For special arrangements bearings with reduced vibration level (C6) are produced.

Combination of symbols

The symbols for the tolerance classes, internal bearing clearances and vibration levels are combined with the simultaneous omission of the symbol C for the second and the following special bearing characteristics e. g.:

P6 + C3 = P63 6202 P63
 C3 + C6 = C36 6305-2RS C36
 P6 + C3 + C6 = P636 6204-2Z P636

STABILISATION FOR OPERATION AT HIGHER TEMPERATURE

For operating temperature higher than 120 °C specially stabilized single row deep groove ball bearings with stabilized dimensions for operating temperature from 150 °C to 400 °C (S0, S1, S2, S3, S4,S5) are produced. Delivery of stabilized bearings should be discussed in advance.

MISALIGNMENT

For single row ball bearings only small mutual misalignment of bearing rings is permissible, therefore alignment deviation of seating surfaces can be very small. Misalignment causes additional load of the bearing and thus its life is shortened. Values of permissible misalignment at normal operating conditions are shown in the table.

BEARING TYPE	LOAD	
	HEAVY ($F_r < 0,15 C_{or}$)	LIGHT ($F_r \geq 0,15 C_{or}$)
618,619,160,60	2' to 6'	5' to 10'
62,63,64	5' to 10'	8' to 16'

RADIAL EQUIVALENT DYNAMIC LOAD

Single row deep groove ball bearings:

$$P_r = F_r \quad \text{for } F_a/F_r \leq e$$

$$P_r = 0,56 F_r + Y F_a \quad \text{for } F_a/F_r > e$$

Factors

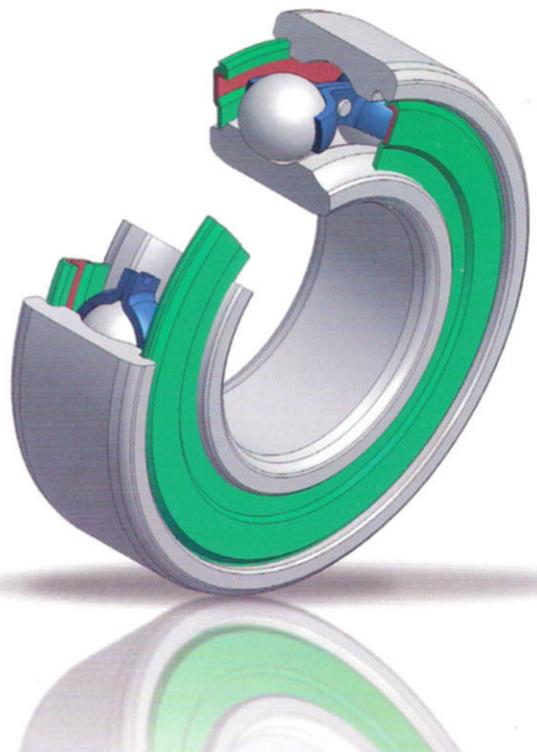
F_a/C_{or}	e	Y
0.025	0.22	2
0.040	0.24	1.8
0.070	0.27	1.6
0.130	0.31	1.4
0.250	0.37	1.2
0.500	0.44	1

Factor Y values are valid, if the bearings on the journal and in the housing will be fitted in tolerances recommended for small and medium loads and during operation significant reduction of radial clearance due to operating temperature does not come into being (temperatures difference between inner and outer ring max 10 °C).

RADIAL EQUIVALENT STATIC LOAD

Single row deep groove ball bearings:

$$P_{or} = 0,6 F_r + 0,5 F_a \quad \text{for } (P_{or} \geq F_r)$$



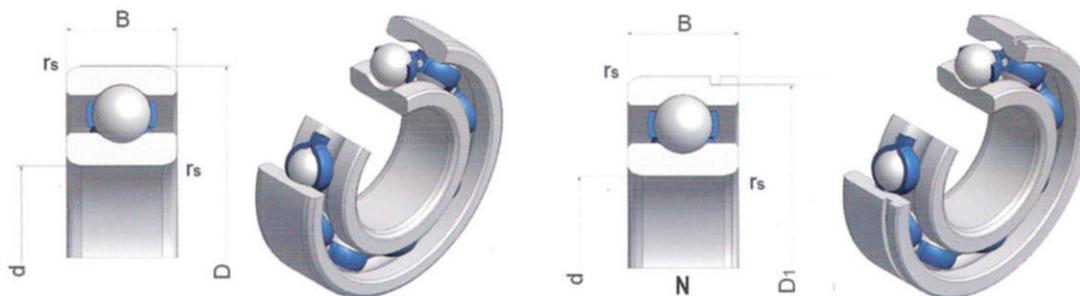
DESIGNATION

The designation of basic designs and common modifications of the bearings are specified in the dimension tables. Modification of the basic design is designated with additional symbols according to STN 02 4608. The meaning of the most used symbols for single row deep groove ball bearings is in the table.

SYMBOL	EXAMPLE OF DESIGNATION	MEANING
RS	6009RS	Seal on one side
RSR	6205RSR	Seal on one side adhering to flat surface of inner ring
-2RSR	6212-2RSR	Seal on both sides adhering to flat surface of inner ring
Z	6206Z	Metal shield on one side
ZN	6305ZN	Metal shield on one side and snap ring groove in outer ring opposite to metal shield
-2Z	6308-2Z	Metal shield on both sides
-2ZR	6005-2ZR	Metal shields on both sides adhering to flat surface of inner ring
K	6204-2ZK	Tapered bore, taper 1:12
N	6407N	Snap ring groove in outer ring
NR	6307NR	Snap ring groove in outer ring and inserted snap ring
TNH	6207TNH	Plastic cage guided on balls
TB	6210TB	Machined cage made of textite guided on the inner ring
P6	6205 P6	Higher tolerance class than standard
P6E	6204-2Z P6E	Higher tolerance class for rotating electric machines
P5	6203 P5	Higher tolerance class than P6
P4	6004 P4	Higher tolerance class than P5
C2	6213 C2	Radial clearance less than normal
C3	6305-2ZR C3	Radial clearance greater than normal
C4	6007-2RS C4	Radial clearance greater than C3
C5	6302-2ZR C5	Radial clearance greater than C4
C6	6315 C6	Reduced vibration level
R...	6211 R10-20	Radial clearance in non-standardized range
SO	6205 SO	Stabilisation for operating temperature to 150 °C
S1	6304 S1	Stabilisation for operating temperature to 200 °C
S2	6302-2ZR C5S2	Stabilisation for operating temperature to 250 °C
S3	6310-2ZR C5S3	Stabilisation for operating temperature to 300 °C
S4	6306-2ZR C5S4	Stabilisation for operating temperature to 350 °C
S5	6309-2ZR C5S5	Stabilisation for operating temperature to 400 °C
TP	6205-2Z P6E TP	Bearings produced according to special technical conditions agreed with the customer

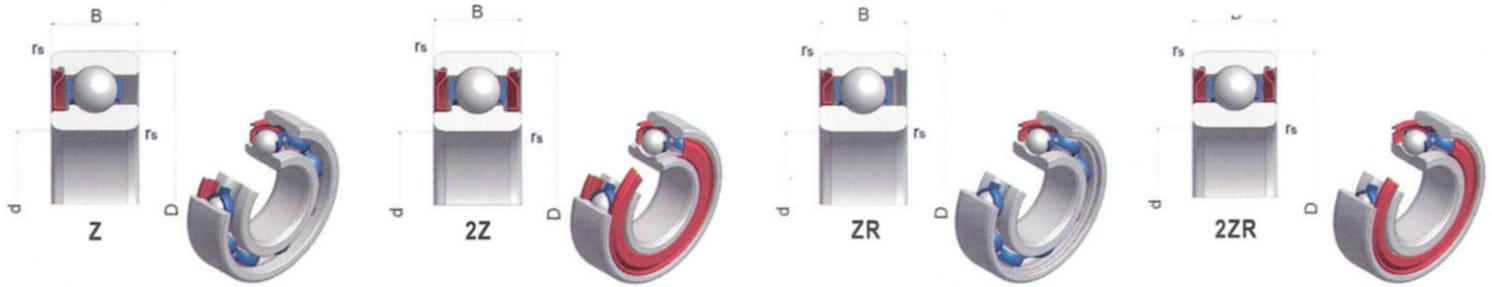


SINGLE ROW DEEP GROOVE BALL BEARINGS ZVL SLOVAKIA, A. S.



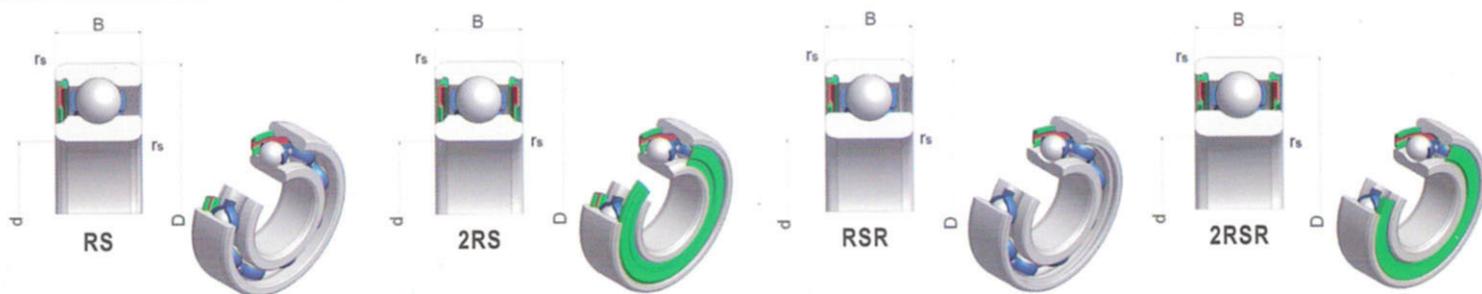
DIMENSIONS mm			BASIC LOAD RATING kN		LIMITING SPEED FOR LUBRICATION min ⁻¹			BEARING DESIGNATION						WEIGHT kg	
d	D	B	rs min.	C	Co	Z, ZR	RS, RSR	ŠT	Z, ZR	2Z, 2ZR	RS, RSR	2RS, 2RSR	N		
															28 000
10	26	8	0,3	3,91	1,96	28 000	19 000	33 000	6000	6000ZR	6000-2ZR	6000RSR	6000-2RSR		0,02
	30	9	0,6	5,11	2,51	25 000	17 000	30 000	6200	6200ZR	6200-2ZR	6200RSR	6200-2RSR		0,032
	35	11	0,6	6,81	3,41	22 000	15 000	27 000	6300	6300ZR	6300-2ZR	6300RSR	6300-2RSR		0,053
12	28	7	0,3	4,5	2,37	25 000		30 000	16001						0,02
	28	8	0,3	4,5	2,37	25 000	17 000	30 000	6001	6001ZR	6001-2ZR	6001RSR	6001-2RSR		0,022
	32	10	0,6	6,1	3,1	22 000	15 000	27 000	6201	6201ZR	6201-2ZR	6201RSR	6201-2RSR		0,037
	37	12	1	8,58	4,22	20 000	13 000	24 000	6301	6301ZR	6301-2ZR	6301RSR	6301-2RSR		0,06
15	32	8	0,3	5,21	2,82	21 000		25 000	16002						0,027
	32	9	0,3	5,21	2,82	21 000	14 000	25 000	6002	6002ZR	6002-2ZR	6002RSR	6002-2RSR		0,031
	35	11	0,6	7,1	3,76	20 000	13 000	24 000	6202	6202ZR	6202-2ZR	6202RSR	6202-2RSR		0,045
	42	13	1	10,4	5,41	18 000	12 000	21 000	6302	6302ZR	6302-2ZR	6302RSR	6302-2RSR		0,082
17	35	8	0,3	5,73	3,22	20 000		24 000	16003						0,032
	35	10	0,3	5,73	3,22	20 000	13 000	24 000	6003	6003ZR	6003-2ZR	6003RSR	6003-2RSR		0,04
	40	12	0,6	9,26	4,82	18 000	12 000	21 000	6203	6203ZR	6203-2ZR	6203RSR	6203-2RSR	6203N	0,065
	47	14	1	13,1	6,56	16 000	10 600	19 000	6303	6303ZR	6303-2ZR	6303RSR	6303-2RSR	6303N	0,116
	62	17	1,1	22	10,8	12 600		15 000	6403						0,265
20	42	8	0,3	6,7	3,97	17 000		20 000	16004						0,05
	42	12	0,6	9,44	5,01	17 000	11 000	20 000	6004	6004ZR	6004-2ZR	6004RSR	6004-2RSR		0,07
	47	14	1	12,8	6,56	15 000	10 000	18 000	6204	6204ZR	6204-2ZR	6204RSR	6204-2RSR	6204N	0,107
	52	15	1,1	16	7,94	14 000	9 400	17 000	6304	6304ZR	6304-2ZR	6304RSR	6304-2RSR	6304N	0,144
	72	19	1,1	31	15	11 000		13 000	6404					6404N	0,398
25	47	8	0,3	6,95	4,6	14 000		17 000	16005						0,053
	47	12	0,6	10	5,84	14 000	9 400	17 000	6005	6005ZR	6005-2ZR	6005RSR	6005-2RSR		0,081
	52	15	1	14,1	7,94	12 600	8 400	15 000	6205	6205ZR	6205-2ZR	6205RSR	6205-2RSR	6205N	0,128
	62	17	1,1	20,7	11,2	11 000	7 500	13 000	6305	6305ZR	6305-2ZR	6305RSR	6305-2RSR	6305N	0,232
	80	21	1,5	36	19,2	9 400		11 000	6405					6405N	0,53
30	55	9	0,3	11,2	7,36	12 000		14 000	16006						0,087
	55	13	1	13,3	8,25	12 000	7 900	14 000	6006	6006ZR	6006-2ZR	6006RSR	6006-2RSR	6006N	0,119
	62	16	1	19,6	11,2	11 000	7 500	13 000	6206	6206ZR	6206-2ZR	6206RSR	6206-2RSR	6206N	0,201
	72	19	0,1	30	15,8	10 000	6 700	12 000	6306	6306ZR/Z/	6306-2ZR/-2Z/	6306RSR/-RS/	6306-2RSR/-2RS/	6306N	0,35
	90	23	1,5	43	23,7	8 400		10 000	6406					6406N	0,725
35	62	9	0,3	12,3	8,74	10 600		12 600	16007						0,111
	62	14	1	16	10,2	10 600	7 100	12 600	6007	6007ZR	6007-2ZR	6007RSR	6007-2RSR	6007N	0,159
	72	17	1,1	25,6	15,3	9 400	6 300	11 000	6207	6207ZR/Z/	6207-2ZR/-2Z/	6207RSR/-RS/	6207-2RSR/-2RS/	6207N	0,29
	80	21	1,5	33,5	19,2	8 400	5 600	10 000	6307	6307ZR/Z/	6307-2ZR/-2Z/	6307RSR/-RS/	6307-2RSR/-2RS/	6307N	0,46
	100	25	1,5	55,2	31	7 500		8 900	6407					6407N	0,954
40	68	9	0,3	13,2	10,2	9 400		11 000	16008						0,125
	68	15	1	16,8	11,4	9 400	6 300	11 000	6008	6008ZR	6008-2ZR	6008RSR	6008-2RSR	6008N	0,195
	80	18	1,1	32,9	20	8 400	5 600	10 000	6208	6208ZR/Z/	6208-2ZR/-2Z/	6208RSR	6208-2RSR	6208N	0,367
	90	23	1,5	40,6	23,7	7 900	5 300	9 400	6308	6308ZR	6308-2ZR	6308RSR	6308-2RSR	6308N	0,635
	110	27	2	63,1	36,2	6 700		7 900	6408					6408N	1,23
45	75	10	0,6	15,6	12,1	8 400		10 000	16009						0,17
	75	16	1	21,1	15,3	8 400	5 600	10 000	6009	6009ZR	6009-2ZR	6009RSR	6009-2RSR	6009N	0,249
	85	19	1,1	32,9	20,3	7 900	5 300	9 400	6209	6209ZR	6209-2ZR	6209RSR	6209-2RSR	6209N	0,41
	100	25	1,5	53,1	31,6	7 100	4 700	8 400	6309	6309ZR	6309-2ZR	6309RSR	6309-2RSR	6309N	0,833
	120	29	2	76,5	44,7	6 000		7 100	6409					6409N	1,54

SINGLE ROW DEEP GROOVE BALL BEARINGS ZVL SLOVAKIA, A. S.



DIMENSIONS mm				BASIC LOAD RATING kN		LIMITING SPEED FOR LUBRICATION min ⁻¹			BEARING DESIGNATION						WEIGHT kg
d	D	B	rs min.	C	Co	Z, ZR	RS, RSR	ŠT	Z, ZR	2Z, 2ZR	RS, RSR	2RS, 2RSR	N		
50	80	10	0,6	16,2	13,1	7 900		9 400	16010					0,188	
	80	16	1	22	16,5	7 900	5 300	9 400	6010	6010ZR	6010-2ZR	6010RSR	6010-2RSR	6010N	0,264
	90	20	1,1	34,8	23,3	7 100	4 700	8 400	6210	6210ZR/Z/	6210-2ZR/-2Z/	6210RSR/RS/	6210-2RSR/-2RS/	6210N	0,464
	110	27	2	61,9	37,6	6 300	4 200	7 500	6310	6310ZR	6310-2ZR	6310RSR	6310-2RSR	6310N	1,08
	130	31	2,1	87,4	52,1	5 600		6 700	6410					6410N	1,89
55	90	11	0,6	19,3	16,2	7 100		8 400	16011					0,26	
	90	18	1,1	28,2	21,1	7 100	4 700	8 400	6011	6011ZR	6011-2ZR	6011RSR	6011-2RSR	6011N	0,39
	100	21	1,5	43	29,3	6 700	4 500	7 900	6211	6211ZR	6211-2ZR	6211RSR	6211-2RSR	6211N	0,611
	120	29	2	71	44,7	5 600	3 800	6 700	6311	6311ZR	6311-2ZR	6311RSR	6311-2RSR	6311N	1,38
60	140	33	2,1	100	61,9	5 300		6 300	6411					6411N	2,29
	95	11	0,6	20	17,4	6 700		7 900	16012					0,28	
	95	18	1,1	29,3	23,3	6 700	4 500	7 900	6012	6012ZR	6012-2ZR	6012RSR	6012-2RSR	6012N	0,42
	110	22	1,5	52,1	36,3	6 000	4 000	7 100	6212	6212ZR/Z/	6212-2ZR/-2Z/	6212RSR/RS/	6212-2RSR/-2RS/	6212N	0,787
65	130	31	2,1	81,5	52,1	5 300	3 500	6 300	6312	6312ZR	6312-2ZR	6312RSR	6312-2RSR	6312N	1,72
	150	35	2,1	110	69,4	4 700		5 600	6412					6412N	2,76
	100	11	0,6	21,2	19,6	6 300		7 500	16013					0,3	
70	100	18	1,1	30,5	25,1	6 300	4 200	7 500	6013	6013ZR	6013-2ZR	6013RSR	6013-2RSR	6013N	0,44
	120	23	1,5	57,3	39,8	5 300	3 500	6 300	6213	6213ZR	6213-2ZR	6213RSR	6213-2RSR	6213N	0,995
	140	33	2,1	92,6	59,6	5 000	3 300	6 000	6313	6313ZR	6313-2ZR	6313RSR	6313-2RSR	6313N	2,1
	160	37	2,1	119	77,9	4 500		5 300	6413					6413N	3,28
	110	13	0,6	27,6	25,1	5 600		6 700	16014					0,433	
75	110	20	1,1	38,3	31	5 600	3 800	6 700	6014	6014ZR	6014-2ZR	6014RSR	6014-2RSR	6014N	0,618
	125	24	1,5	62	43,8	5 300	3 500	6 300	6214	6214ZR	6214-2ZR	6214RSR	6214-2RSR	6214N	1,09
	150	35	2,1	104	68,1	4 700	3 200	5 600	6314	6314ZR	6314-2ZR	6314RSR	6314-2RSR	6314N	2,53
	180	42	3	144	104	4 000		4 700	6414					6414N	4,85
80	115	13	0,6	28,7	26,6	5 300		6 300	16015					0,457	
	115	20	1,1	39,8	33,5	5 300	3 500	6 300	6015	6015ZR	6015-2ZR	6015RSR	6015-2RSR	6015N	0,64
	130	25	1,5	66,8	49,2	5 000	3 300	6 000	6215	6215ZR	6215-2ZR	6215RSR	6215-2RSR	6215N	1,19
	160	37	2,1	114	76,4	4 200	2 800	5 000	6315	6315ZR	6315-2ZR	6315RSR	6315-2RSR	6315N	3,03
	190	45	3	153	114	3 800		4 500	6415					6415N	5,74
85	125	14	0,6	32,9	31,6	5 000		6 000	16016					0,597	
	125	22	1,1	47,5	39,8	5 000	3 300	6 000	6016	6016ZR	6016-2ZR	6016RSR	6016-2RSR	6016N	0,86
	140	26	2	72,2	53,1	4 700	3 200	5 600	6216	6216ZR	6216-2ZR	6216RSR	6216-2RSR	6216N	1,41
	170	39	2,1	123	85,8	4 000	2 700	4 700	6316	6316ZR	6316-2ZR	6316RSR	6316-2RSR	6316N	3,62
	200	48	3	163	126	3 500		4 200	6416					6416N	6,72
90	130	14	0,6	34,1	32,9	4 700		5 600	16017					0,626	
	130	22	1,1	49,2	73	4 700	3 200	5 600	6017	6017ZR	6017-2ZR	6017RSR	6017-2RSR	6017N	0,98
	150	28	2	83	64,3	4 200	2 800	5 000	6217	6217ZR	6217-2ZR	6217RSR	6217-2RSR	6217N	1,79
	180	41	3	133	96,2	3 800	2 500	4 500	6317	6317ZR	6317-2ZR	6317RSR	6317-2RSR	6317N	4,26
	210	52	4	174	136	3 300		4 000	6417					6417N	7,88
95	140	16	1	41,5	39,1	4 500		5 300	16018					0,848	
	140	24	1,5	58,4	49,2	4 500	3 000	5 300	6018	6018ZR	6018-2ZR	6018RSR	6018-2RSR	6018N	1,16
	160	30	2	96,2	70,8	4 000	2 700	4 700	6218	6218ZR	6218-2ZR	6218RSR	6218-2RSR	6218N	2,16
	190	43	3	144	108	3 500		4 200	6318					6318N	4,95
	225	54	4	192	158	3 200		3 800	6418					6418N	11,4

SINGLE ROW DEEP GROOVE BALL BEARINGS ZVL SLOVAKIA, A. S.



DIMENSIONS mm				BASIC LOAD RATING kN		LIMITING SPEED FOR LUBRICATION min ⁻¹			BEARING DESIGNATION						WEIGHT kg
d	D	B	rs min.	C	Co	Z, ZR	RS, RSR		ŠT	Z, ZR	2Z, 2ZR	RS, RSR	2RS, 2RSR	N	
95	145	24	1,5	60,7	54,1	4 200	2800	5 000	6019	6019ZR	6019-2ZR	6019RSR	6019-2RSR		1,22
	170	32	2,1	108	81	3 800		4 500	6219						2,6
	200	45	3	142	113	3 300		4 000	6319						5,72
100	150	16	1	44	43,8	4 200		5 000	16020						0,91
	150	24	1,5	60	54,1	4 200	2800	5 000	6020	6020ZR	6020-2ZR	6020RSR	6020-2RSR		1,27
	180	34	2,1	123	92,6	3 500		4 200	6220						3,13
	215	47	3	174	141	3 200		3 800	6320						7,07
	250	58	4	195	222	2 400		3 200	6420						12,9
105	160	26	2	72,2	65,6	4 000	2700	4 700	6021	6021ZR	6021-2ZR	6021RSR	6021-2RSR		1,59
	190	36	2,1	133	104	3 300		4 000	6221						3,74
	225	49	3	185	153	3 000		3 500	6321						8
110	170	19	1	57,6	56,2	3 800		4 500	16022						1,46
	170	28	2	82,5	72,2	3 800	2500	4 500	6022	6022ZR	6022-2ZR	6022RSR	6022-2RSR		1,95
	200	38	2,1	144	117	3 200		3 800	6222						4,37
	240	50	3	204	178	2 800		3 300	6322						9,59
	280	65	4	225	238	2 000		2 800	6422						18,34
120	180	19	1	61	63,1	3 300		4 000	16024						1,8
	180	28	2	85	79,4	3 300	2200	4 000	6024	6024ZR	6024-2ZR	6024RSR	6024-2RSR		2,1
	215	40	2,1	144	117	3 000		3 500	6224						5,15
	260	55	3	216	196	2 500		3 000	6324						12,2
130	200	22	1,1	78	82,5	3 200		3 800	16026						2,69
	200	33	2	106	100	3 200	2100	3 800	6026	6026ZR	6026-2ZR	6026RSR	6026-2RSR		3,26
	230	40	3	153	133	2 800		3 300	6226						6,2
	280	58	4	228	215	2 400		2 800	6326						15
140	210	22	1,1	81	85,8	3 000		3 500	16028						2,86
	210	33	2	110	108	3 000		3 500	6028						3,39
	250	42	3	166	150	2 500		3 000	6228						7,56
	300	62	4	251	246	2 200		2 700	6328						18,3
150	225	24	1,1	92,6	98,1	2 700		3 200	16030						3,58
	225	35	2,1	126	126	2 700		3 200	6030						4,16
	270	45	3	190	181	2 200		2 700	6230						9,85
	320	65	4	276	282	2 000		2 500	6330						21,8
160	240	38	2,1	143	144	2 500		3 000	6032						5,06
	290	48	3	203	203	2 100		2 500	6232						15
170	260	42	2,1	168	171	2 200		2 700	6034						6,91
	310	52	4	228	237	2 000		2 400	6234						16,5
	360	72	4	335	378	1 500		1 900	6334						31,43
180	280	46	2,1	188	200	2 100		2 500	6036						8,88
	320	52	4	242	261	1 900		2 200	6236						17,5
190	290	46	2,1	196	215	2 000		2 400	6038						9,31
	340	55	4	271	299	1 800		2 100	6238						23,3
200	310	51	2,1	216	245	1 900		2 200	6040						11,9
	360	58	4	282	332	1 700		2 000	6240						28

