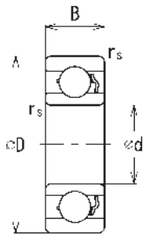
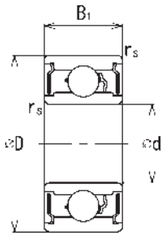
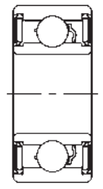
Inch-series bearings【Stainless-steel】

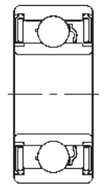


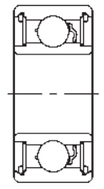
Open



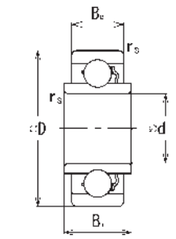
Shielded: ZZ


Sealed: 2RS

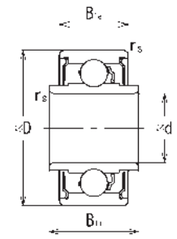

Sealed: 2RU


Sealed: TTS

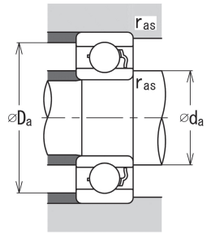
Bore diameter d		Outer diameter D		Inner ring width				Outer ring width				Chamfer $r_{s\ (min)}$		Bearing number				
				Open B, B_i		Shielded, Sealed B_1, B_{1i}		Open B, B_e		Shielded, Sealed B_1, B_{1e}				Open	2 Shields[2]	2 Seals[2]		
																2RS	2RU	TTS
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch					
1.016	0.0400	3.175	0.1250	1.191	0.0469	—	—	1.191	0.0469	—	—	0.10	0.0039	**SR09**	—	—	—	—
1.191	0.0469	3.967	0.1562	1.588	0.0625	2.380	0.0937	1.588	0.0625	2.380	0.0937	0.10	0.0039	**SR0**	**SR0ZZ**	—	—	—
		3.967	0.1562	2.380	0.0937	3.175	0.1250	1.588	0.0625	2.380	0.0937	0.10	0.0039	**SRW0**	**SRW0ZZ**	—	—	—
1.397	0.0550	4.762	0.1875	1.984	0.0781	2.779	0.1094	1.984	0.0781	2.779	0.1094	0.10	0.0039	**SR1**	**SR1ZZ**	—	—	—
		4.762	0.1875	2.779	0.1094	3.571	0.1406	1.984	0.0781	2.779	0.1094	0.10	0.0039	**SRW1**	**SRW1ZZ**	—	—	—
1.984	0.0781	6.350	0.2500	2.380	0.0937	3.571	0.1406	2.380	0.0937	3.571	0.1406	0.10	0.0039	**SR1-4**	**SR1-4ZZ**	—	—	—
		6.350	0.2500	3.175	0.1250	4.366	0.1719	2.380	0.0937	3.571	0.1406	0.10	0.0039	**SRW1-4**	**SRW1-4ZZ**	—	—	—
2.380	0.0937	4.762	0.1875	1.588	0.0625	—	—	1.588	0.0625	—	—	0.10	0.0039	**SR133**	—	—	—	—
		4.762	0.1875	—	—	2.380	0.0937	—	—	2.380	0.0937	0.10	0.0039	—	**SR133ZZS**	—	—	—
		4.762	0.1875	—	—	3.175	0.1250	—	—	2.380	0.0937	0.10	0.0039	—	**SRW133ZZS**	—	—	—
		7.938	0.3125	2.779	0.1094	3.571	0.1406	2.779	0.1094	3.571	0.1406	0.15	0.0059	**SR1-5**	**SR1-5ZZ**	—	—	—
		7.938	0.3125	3.571	0.1406	4.366	0.1719	2.779	0.1094	3.571	0.1406	0.15	0.0059	**SRW1-5**[1]	**SRW1-5ZZ**	—	—	—
3.175	0.1250	6.350	0.2500	2.380	0.0937	—	—	2.380	0.0937	—	—	0.10	0.0039	**SR144J**	—	—	—	—
		6.350	0.2500	2.380	0.0937	2.779	0.1094	2.380	0.0937	2.779	0.1094	0.10	0.0039	**SR144**	**SR144ZZ**	—	—	—
		6.350	0.2500	—	—	2.779	0.1094	—	—	2.779	0.1094	0.10	0.0039	—	—	—	—	**TTS**
		6.350	0.2500	3.175	0.1250	3.571	0.1406	2.380	0.0937	2.779	0.1094	0.10	0.0039	**SRW144**	**SRW144ZZ**	—	—	—
		6.350	0.2500	3.175	0.1250	3.571	0.1406	2.380	0.0937	2.779	0.1094	0.10	0.0039	**SR2-5**	**SR2-5ZZ**	—	—	—
		7.938	0.3125	—	—	4.366	0.1719	—	—	3.571	0.1406	0.10	0.0039	—	**SRW2-5ZZ**	—	—	—
		9.525	0.3750	2.779	0.1094	3.571	0.1406	2.779	0.1094	3.571	0.1406	0.15	0.0059	**SR2-6**	**SR2-6ZZ**	—	—	—
		9.525	0.3750	—	—	4.366	0.1719	—	—	3.571	0.1406	0.15	0.0059	—	**SRW2-6ZZ**	—	—	—
		9.525	0.3750	3.967	0.1562	3.967	0.1562	3.967	0.1562	3.967	0.1562	0.30	0.0118	**SR2**[1]	**SR2ZZ**	**2RS**	—	**TTS**
		9.525	0.3750	—	—	3.967	0.1562	—	—	3.967	0.1562	0.30	0.0118	—	—	—	**2RU**	—
		9.525	0.3750	4.762	0.1875	4.762	0.1875	3.967	0.1562	3.967	0.1562	0.30	0.0118	**SRW2**[1]	**SRW2ZZ**	—	—	—
		12.700	0.5000	4.366	0.1719	4.366	0.1719	4.366	0.1719	4.366	0.1719	0.30	0.0118	**SR2A**[1]	**SR2AZZ**	—	—	—
3.967	0.1562	7.938	0.3125	2.779	0.1094	3.175	0.1250	2.779	0.1094	3.175	0.1250	0.10	0.0039	**SR155**	**SR155ZZS**	—	—	—
		7.938	0.3125	—	—	3.967	0.1562	—	—	3.175	0.1250	0.10	0.0039	—	**SRW155ZZS**	—	—	—
4.762	0.1875	7.938	0.3125	2.779	0.1094	3.175	0.1250	2.779	0.1094	3.175	0.1250	0.10	0.0039	**SR156**	**SR156ZZS**	—	—	**TTS**
		7.938	0.3125	—	—	3.967	0.1562	—	—	3.175	0.1250	0.10	0.0039	—	**SRW156ZZS**	—	—	—
		9.525	0.3750	3.175	0.1250	3.175	0.1250	3.175	0.1250	3.175	0.1250	0.10	0.0039	**SR166**[1]	**SR166ZZ**	—	—	—
		9.525	0.3750	—	—	3.175	0.1250	—	—	3.175	0.1250	0.10	0.0039	—	—	—	—	**TTS**
		9.525	0.3750	3.967	0.1562	3.967	0.1562	3.175	0.1250	3.175	0.1250	0.10	0.0039	**SRW166**[1]	**SRW166ZZ**	—	—	—
		12.700	0.5000	3.967	0.1562	4.978	0.1960	3.967	0.1562	4.978	0.1960	0.30	0.0118	**SR3**	**SR3ZZ**	**2RS**	—	—
		12.700	0.5000	—	—	4.978	0.1960	—	—	4.978	0.1960	0.30	0.0118	—	—	—	—	**TTS**
		12.700	0.5000	4.762	0.1875	5.771	0.2272	3.967	0.1562	4.978	0.1960	0.30	0.0118	**SRW3**	**SRW3ZZ**	**2RS**	—	—
		15.875	0.6250	4.978	0.1960	4.978	0.1960	4.978	0.1960	4.978	0.1960	0.30	0.0118	**SR3A**[1]	**SR3AZZ**	—	—	—
6.350	0.2500	9.525	0.3750	3.175	0.1250	3.175	0.1250	3.175	0.1250	3.175	0.1250	0.10	0.0039	**SR168**[1]	**SR168ZZ**	—	—	—
		9.525	0.3750	—	—	3.175	0.1250	—	—	3.175	0.1250	0.10	0.0039	—	—	—	—	**TTS**
		9.525	0.3750	3.967	0.1562	3.967	0.1562	3.175	0.1250	3.175	0.1250	0.10	0.0039	**SRW168**[1]	**SRW168ZZ**	—	—	—
		12.700	0.5000	3.175	0.1250	4.762	0.1875	3.175	0.1250	4.762	0.1875	0.15	0.0059	**SR188**	**SR188ZZ**	—	—	**TTS**
		12.700	0.5000	3.967	0.1562	5.558	0.2188	3.175	0.1250	4.762	0.1875	0.15	0.0059	**SRW188**	**SRW188ZZ**	—	—	**TTS**

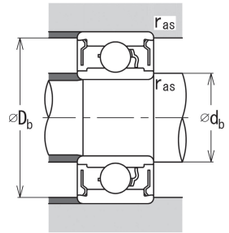


Extended inner ring open type



Extended inner ring shielded type



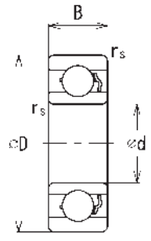


Abutment and fillet

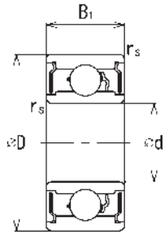
Load rating		Limiting speed[3]		Cage type[4]	Ball		Abutment and fillet dimensions								$r_{as\ (max)}$	Mass (Ref.)	
							Open				Shielded, Sealed					Open	2 Shields
Cr	Cor	Grease	Oil		Size	Qty.	$d_{a\ (min)}$	$d_{a\ (max)}$	$D_{a\ (min)}$	$D_{a\ (max)}$	$d_{b\ (min)}$	$d_{b\ (max)}$	$D_{b\ (min)}$	$D_{b\ (max)}$			
N		min^{-1}			mm	pcs.	mm				mm				mm	g	
90	22	115 000	136 000	W	0.635	6	1.50	1.50	2.70	2.70	—	—	—	—	0.10	0.04	—
96	27	105 000	124 000	W	0.600	7	2.00	2.10	3.10	3.20	2.00	2.10	3.60	3.60	0.10	0.09	0.13
96	27	105 000	124 000	W	0.600	7	2.00	2.10	3.10	3.20	2.00	2.10	3.60	3.60	0.10	0.11	0.14
197	53	97 000	115 000	W	1.000	6	2.00	2.20	3.90	4.30	2.00	2.20	4.30	4.30	0.10	0.15	0.2
197	53	97 000	115 000	W	1.000	6	2.00	2.20	3.90	4.30	2.00	2.20	4.30	4.30	0.10	0.17	0.22
241	76	77 000	91 000	W	1.000	7	2.80	3.80	5.50	5.80	2.80	3.80	6.00	6.00	0.10	0.34	0.50
241	76	77 000	91 000	W	1.000	7	2.80	3.80	5.50	5.80	2.80	3.80	6.00	6.00	0.10	0.40	0.55
161	48	90 000	106 000	W	0.800	7	2.90	2.90	4.20	4.20	—	—	—	—	0.10	0.09	—
122	42	92 000	109 000	W	0.600	10	—	—	—	—	2.90	2.90	4.30	4.30	0.10	—	0.16
122	42	92 000	109 000	W	0.600	10	—	—	—	—	2.90	2.90	4.30	4.30	0.10	—	0.17
469	140	72 000	85 000	W	1.588	6	3.60	4.00	6.50	6.80	3.60	4.00	7.10	7.10	0.15	0.60	0.75
469	140	72 000	85 000	W	1.588	6	3.60	4.00	6.50	6.80	3.60	4.00	7.10	7.10	0.15	0.76	0.80
264	87	77 000	91 000	J	1.000	8	3.80	3.80	5.50	5.80	—	—	—	—	0.10	0.26	—
241	76	77 000	91 000	W	1.000	7	3.80	3.80	5.50	5.80	3.80	3.80	6.00	6.00	0.10	0.26	0.28
241	76	72 000	72 000	W	1.000	7	—	—	—	—	3.80	3.80	5.80	5.80	0.10	—	0.29
241	76	77 000	91 000	W	1.000	7	3.80	3.80	5.50	5.80	3.80	3.80	6.00	6.00	0.10	0.28	0.31
241	76	72 000	72 000	W	1.000	7	—	—	—	—	3.80	3.80	5.80	5.80	0.10	—	0.29
241	76	77 000	91 000	W	1.000	7	3.80	3.80	5.50	5.80	3.80	3.80	6.00	6.00	0.10	0.28	0.31
475	143	70 000	82 000	J	1.588	6	4.00	4.30	6.70	7.20	4.00	4.30	7.30	7.30	0.10	0.53	0.66
475	143	70 000	82 000	W	1.588	6	—	—	—	—	4.00	4.30	7.30	7.30	0.10	—	0.69
545	181	63 000	75 000	J	1.588	7	4.40	5.10	7.60	8.40	4.00	4.50	8.30	8.70	0.15	0.94	1.13
545	181	63 000	75 000	J	1.588	7	—	—	—	—	4.00	4.50	8.30	8.70	0.15	—	1.19
538	175	66 000	78 000	J	1.588	7	4.70	4.70	8.10	8.10	4.70	4.70	8.10	8.10	0.30	1.20	1.28
545	181	63 000	75 000	J	1.588	7	—	—	—	—	4.50	4.50	8.30	8.30	0.30	—	1.23
538	175	66 000	78 000	J	1.588	7	4.70	4.70	8.10	8.10	4.70	4.70	8.10	8.10	0.30	1.26	1.34
545	181	63 000	75 000	J	1.588	7	4.50	4.50	8.30	10.70	4.50	4.50	8.30	10.70	0.30	3.08	3.16
306	119	64 000	76 000	W	1.000	10	4.80	5.40	7.10	7.40	4.80	5.40	7.40	7.40	0.10	0.51	0.58
306	119	64 000	76 000	W	1.000	10	—	—	—	—	4.80	5.40	7.40	7.40	0.10	—	0.65
306	119	64 000	76 000	W	1.000	10	5.40	5.40	7.10	7.40	5.40	5.40	7.40	7.40	0.10	0.40	0.45
306	119	64 000	76 000	W	1.000	10	—	—	—	—	5.40	5.40	7.40	7.40	0.10	—	0.48
604	216	59 000	70 000	J	1.588	8	5.60	5.90	8.90	8.90	5.60	5.90	8.90	8.90	0.10	0.73	0.78
604	216	48 000	48 000	J	1.588	8	—	—	—	—	5.60	5.90	8.80	9.00	0.10	—	0.75
604	216	59 000	70 000	J	1.588	8	5.60	5.90	8.90	8.90	5.60	5.90	8.90	8.90	0.10	0.78	0.84
1 110	388	51 000	60 000	J	2.381	7	6.80	6.90	10.50	10.70	6.40	6.40	11.20	11.20	0.30	2.12	2.58
1 110	388	44 000	44 000	J	2.381	7	—	—	—	—	6.40	6.40	11.10	11.10	0.30	—	2.51
1 110	388	51 000	60 000	J	2.381	7	6.80	6.90	10.50	10.70	6.40	6.40	11.20	11.20	0.30	2.24	2.68
1 260	493	42 000	50 000	J	2.381	8	6.80	8.30	13.90	14.30	6.80	8.30	13.90	14.30	0.30	4.36	4.69
317	138	55 000	65 000	W	1.000	11	7.00	7.00	9.10	9.10	7.00	7.00	9.10	9.10	0.10	0.51	0.54
317	138	55 000	65 000	W	1.000	11	—	—	—	—	7.00	7.00	8.90	8.90	0.10	—	0.54
317	138	55 000	65 000	W	1.000	11	7.00	7.00	9.10	9.10	7.00	7.00	9.10	9.10	0.10	0.55	0.58
920	350	48 000	56 000	J	2.000	8	7.60	7.90	11.10	11.50	7.20	7.30	11.70	11.90	0.15	1.46	2.00
920	350	48 000	56 000	J	2.000	8	7.60	7.90	11.10	11.50	7.20	7.30	11.70	11.90	0.15	1.57	2.08

(1) Open bearings have shield/seal grooves.
(2) Single-shielded/single-sealed bearings are also available; suffix Z, RS, RU or TS.
(3) Applicable only for open, single Z, ZZ, single RU and 2RU types in inner ring rotating conditions.
Limiting speeds for the contact rubber seal(s) types can be lower than the above-mentioned values, so please check the detailed values per item on “products” section of our website.
(4) Some items are also available with the TW cage. Please contact us for details.

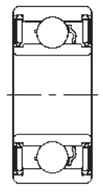
Inch-series bearings【Stainless-steel】

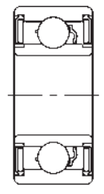


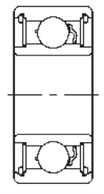
Open



Shielded: ZZ

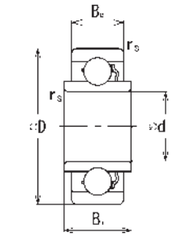

Sealed: 2RS


Sealed: 2RU

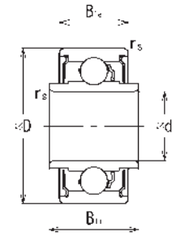

Sealed: TTS

Bore diameter d		Outer diameter D		Inner ring width				Outer ring width				Chamfer $r_{s\ (min)}$		Bearing number				
				Open B, B_i		Shielded, Sealed B_1, B_{1i}		Open B, B_e		Shielded, Sealed B_1, B_{1e}				Open	2 Shields[2]	2 Seals[2]		
																2RS	2RU	TTS
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch					
6.350	0.2500	15.875	0.6250	4.978	0.1960	4.978	0.1960	4.978	0.1960	4.978	0.1960	0.30	0.0118	**SR4**[1]	**SR4ZZ**	**2RS**	**2RU**	—
		15.875	0.6250	—	—	4.978	0.1960	—	—	4.978	0.1960	0.30	0.0118	—	—	—	—	**TTS**
		15.875	0.6250	5.771	0.2272	5.771	0.2272	4.978	0.1960	4.978	0.1960	0.30	0.0118	**SRW4**[1]	**SRW4ZZ**	**2RS**	—	—
		19.050	0.7500	5.558	0.2188	7.142	0.2812	5.558	0.2188	7.142	0.2812	0.40	0.0157	**SR4A**	**SR4AZZ**	**2RS**	**2RU**	**TTS**
7.938	0.3125	12.700	0.5000	3.967	0.1562	3.967	0.1562	3.967	0.1562	3.967	0.1562	0.15	0.0059	**SR1810**[1]	**SR1810ZZS**	—	—	**TTS**
		12.700	0.5000	4.762	0.1875	4.762	0.1875	3.967	0.1562	3.967	0.1562	0.15	0.0059	**SRW1810**[1]	**SRW1810ZZS**	—	—	**TTS**
9.525	0.3750	22.225	0.8750	5.558	0.2188	7.142	0.2812	5.558	0.2188	7.142	0.2812	0.40	0.0157	**SR6**	**SR6ZZ**	**2RS**	**2RU**	—
		22.225	0.8750	—	—	7.142	0.2812	—	—	7.142	0.2812	0.40	0.0157	—	—	—	—	**TTS**
12.700	0.5000	28.575	1.1250	6.350	0.2500	7.938	0.3125	6.350	0.2500	7.938	0.3125	0.40	0.0157	**SR8**	**SR8ZZ**	**2RS**	**2RU**	—
15.875	0.6250	34.925	1.3750	7.142	0.2812	8.733	0.3438	7.142	0.2812	8.733	0.3438	0.80	0.0315	**SR10**	**SR10ZZ**	—	—	—
		34.925	1.3750	—	—	8.733	0.3438	—	—	8.733	0.3438	0.80	0.0315	—	—	**2RS**	**2RU**	—
19.050	0.7500	41.275	1.6250	7.938	0.3125	—	—	7.938	0.3125	—	—	0.80	0.0315	**SR12**	—	—	—	—
		41.275	1.6250	—	—	11.113	0.4375	—	—	11.113	0.4375	0.80	0.0315	—	**SR12ZZ**	**2RS**	—	—
12.700	0.5000	22.225	0.8750	5.558	0.2188	7.142	0.2812	5.558	0.2188	7.142	0.2812	0.40	0.0157	**SR6-5**	**SR6-5ZZS**	—	—	—

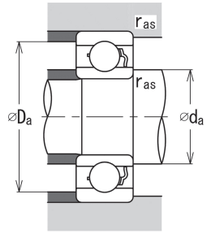
(1) Open bearings have shield/seal grooves.
(2) Single-shielded/single-sealed bearings are also available; suffix Z, RS, RU or TS.
(3) Applicable only for open, single Z, ZZ, single RU and 2RU types in inner ring rotating conditions.
Limiting speeds for the contact rubber seal(s) types can be lower than the above-mentioned values, so please check the detailed values per item on “products” section of our website.
(4) Some items are also available with the TW cage. Please contact us for details.

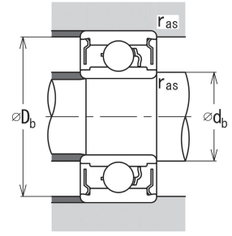


Extended inner ring open type



Extended inner ring shielded type





Abutment and fillet

Load rating		Limiting speed[3]		Cage type[4]	Ball		Abutment and fillet dimensions									Mass (Ref.)	
							Open				Shielded, Sealed					Open	2 Shields
Cr	Cor	Grease	Oil		Size	Qty.	$d_{a\ (min)}$	$d_{a\ (max)}$	$D_{a\ (min)}$	$D_{a\ (max)}$	$d_{b\ (min)}$	$d_{b\ (max)}$	$D_{b\ (min)}$	$D_{b\ (max)}$	$r_{as\ (max)}$		
N		min^{-1}			mm	pcs.	mm				mm				mm	g	
1 260	493	42 000	50 000	J	2.381	8	8.00	8.30	13.90	14.30	8.00	8.30	13.90	14.30	0.30	3.82	4.15
1 260	493	34 000	34 000	J	2.381	8	—	—	—	—	8.00	8.30	13.50	13.90	0.30	—	4.15
1 260	493	42 000	50 000	J	2.381	8	8.00	8.30	13.90	14.30	8.00	8.30	13.90	14.30	0.30	3.97	4.29
1 990	711	38 000	45 000	J	3.500	6	8.90	10.00	15.10	16.60	8.40	8.40	16.60	17.10	0.40	7.34	8.85
460	221	45 000	53 000	W	1.200	12	8.90	8.90	11.60	11.90	8.90	8.90	11.60	11.90	0.15	1.40	1.48
460	221	45 000	53 000	W	1.200	12	8.90	8.90	11.60	11.90	8.90	8.90	11.60	11.90	0.15	1.47	1.56
2 830	1 130	31 000	37 000	J	3.969	7	12.10	12.70	18.80	19.80	11.60	11.80	20.00	20.10	0.40	8.64	10.6
2 830	1 130	24 000	24 000	J	3.969	7	—	—	—	—	11.60	11.80	19.80	20.30	0.40	—	10.1
4 350	1 910	25 000	30 000	J	4.762	8	15.50	16.50	24.00	26.50	15.00	15.50	25.50	26.50	0.40	17.0	20.2
5 100	2 610	20 000	24 000	RJ	4.762	10	20.50	23.00	30.50	31.50	20.50	23.00	31.50	31.50	0.80	29.4	35.4
5 100	2 610	20 000	24 000	RJ	4.762	10	—	—	—	—	20.50	21.00	31.00	31.50	0.80	—	35.3
6 730	3 560	17 000	21 000	RJ	5.556	10	24.00	27.00	35.00	37.00	—	—	—	—	0.80	45.9	—
7 980	4 050	17 000	20 000	RJ	6.350	9	—	—	—	—	24.00	27.50	37.50	38.00	0.80	—	59.7
1 630	834	30 000	36 000	J	2.381	12	14.50	14.50	18.50	20.00	14.50	14.50	19.50	20.00	0.40	7.60	9.69