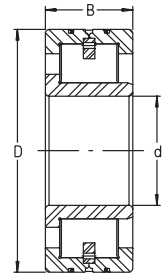


Cylindrical Roller Bearings

LSL SERIES

- Semi-locating single row
- With brass disk separator
- Reduced friction
- Increased speed limit



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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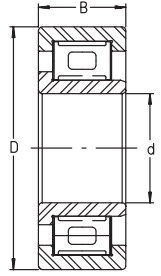
PART NUMBER	SHAFT	SHAFT	OD	OD	WIDTH	WIDTH	WEIGHT	WEIGHT	DYN. CAP.	DYN. CAP.	STAT. CAP.	STAT. CAP.	SPEED LIMIT OIL
	d	d	D	D	B	B			C	C	C ₀	C ₀	
	inch	mm	inch	mm	inch	mm	lbs	kg	lbf	kN	lbf	kN	rpm
LSL19 2320	3.937	100	8.465	215	2.874	73	28.2	12.8	151,000	670	180,000	800	6500
LSL19 2322	4.331	110	9.449	240	3.150	80	38.1	17.3	178,000	790	211,000	940	5600
LSL19 2324	4.724	120	10.236	260	3.386	86	48.5	22	214,000	950	260,000	1150	5300
LSL19 2326	5.118	130	11.024	280	3.661	93	60.0	27.2	241,000	1070	290,000	1300	4900
LSL19 2328	5.512	140	11.811	300	4.016	102	75.0	34	270,000	1200	330,000	1470	4600
LSL19 2330	5.906	150	12.598	320	4.252	108	89.7	40.7	320,000	1420	400,000	1780	4200
LSL19 2332	6.299	160	13.386	340	4.488	114	106.0	48.05	360,000	1600	455,000	2020	3900
LSL19 2334	6.693	170	14.173	360	4.724	120	126.8	57.5	390,000	1740	500,000	2230	3800
LSL19 2336	7.087	180	14.961	380	4.961	126	148.6	67.4	415,000	1850	550,000	2440	3500
LSL19 2338	7.480	190	15.748	400	5.197	132	172.2	78.1	500,000	2230	660,000	2950	3400
LSL19 2340	7.874	200	16.535	420	5.433	138	196.9	89.3	530,000	2340	690,000	3050	3200
LSL19 2344	8.661	220	18.110	460	5.709	145	238.1	108	560,000	2500	720,000	3200	2900
LSL19 2348	9.449	240	19.685	500	6.102	155	305.6	138.6	620,000	2750	800,000	3550	2700
LSL19 2352	10.236	260	21.260	540	6.496	165	370.4	168	760,000	3400	990,000	4400	2400
LSL19 2356	11.024	280	22.835	580	6.890	175	455.6	206.6	830,000	3700	1,090,000	4850	2300
LSL19 2360	11.811	300	24.409	620	7.284	185	557.9	253	940,000	4200	1,260,000	5600	2200



Cylindrical Roller Bearings

ZSL SERIES

- Semi-locating single row
- With plastic roller separators
- Reduced friction
- Increased speed limit



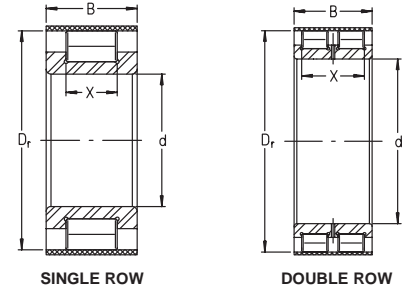
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PART NUMBER	SHAFT	SHAFT	OD	OD	WIDTH	WIDTH	WEIGHT	WEIGHT	DYN. CAP.	DYN. CAP.	STAT. CAP.	STAT. CAP.	SPEED LIMIT OIL rpm
	d	d	D	D	B	B			C	C	C ₀	C ₀	
	inch	mm	inch	mm	inch	mm	lbs	kg	lbf	kN	lbf	kN	
ZSL19 2305	0.984	25	2.441	62	0.945	24	0.794	0.36	13,700	61	12,400	55	16000
ZSL19 2306	1.181	30	2.835	72	1.063	27	1.213	0.55	18,900	84	18,200	81	14000
ZSL19 2307	1.378	35	3.150	80	1.221	31	1.588	0.72	23,800	106	23,400	104	12000
ZSL19 2308	1.575	40	3.543	90	1.299	33	2.205	1	32,000	143	32,500	144	11000
ZSL19 2309	1.772	45	3.937	100	1.417	36	2.955	1.34	34,500	153	36,000	160	10000
ZSL19 2310	1.969	50	4.331	110	1.575	40	3.881	1.76	44,000	196	45,500	202	9000
ZSL19 2311	2.165	55	4.724	120	1.693	43	4.895	2.22	51,000	228	53,000	236	80000
ZSL19 2312	2.362	60	5.118	130	1.811	46	6.218	2.82	55,000	244	58,000	260	7400
ZSL19 2313	2.559	65	5.512	140	1.890	48	7.585	3.44	67,000	300	74,000	330	6800
ZSL19 2314	2.756	70	5.906	150	2.008	51	9.415	4.27	73,000	325	81,000	360	6400
ZSL19 2315	2.953	75	6.299	160	2.165	55	11.466	5.2	88,000	390	99,000	440	6000
ZSL19 2316	3.150	80	6.693	170	2.284	58	13.671	6.2	101,000	450	115,000	510	5600
ZSL19 2317	3.347	85	7.087	180	2.362	60	15.942	7.23	109,000	485	128,000	570	5300
ZSL19 2318	3.543	90	7.480	190	2.520	64	19.184	8.7	119,000	530	137,000	610	5000
ZSL19 2319	3.740	95	7.874	200	2.638	67	22.050	10	126,000	560	151,000	670	4800
ZSL19 2320	3.937	100	8.465	215	2.874	73	28.004	12.7	151,000	670	180,000	800	4400
ZSL19 2322	4.331	110	9.449	240	3.150	80	36.383	16.5	180,000	800	205,000	910	4000
ZSL19 2324	4.724	120	10.236	260	3.386	86	48.290	21.9	214,000	950	260,000	1150	3700

Cylindrical Roller Bearings

RSL18 SERIES

- Single and double row designs without outer ring
- For large gearboxes and hardened gear bore mounting
- Double flanged inner ring



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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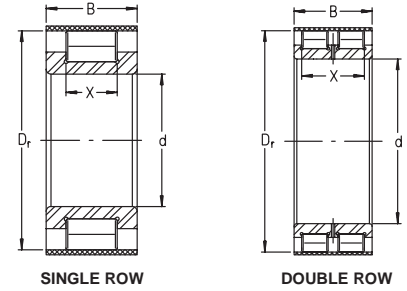
PART NUMBER	SHAFT	SHAFT	HSG. BORE	HSG. BORE	WIDTH	WIDTH	WIDTH	WIDTH	WGT.	WGT.	DYN. CAP.	DYN. CAP.	STAT. CAP.	STAT. CAP.	SPEED LIMIT	THRUST SPACER
	d	d	D _r	D _r	B	B	X	X	lbs	kg	C	C	C ₀	C ₀	OIL rpm	
	inch	mm	inch	mm	inch	mm	inch	mm			lbf	kN	lbf	kN		
RSL18 3004	0.787	20	1.449	36.81	0.630	16	0.354	9	0.137	0.062	6,200	27.5	6,000	26.5	10000	F 90016
RSL18 5004	0.787	20	1.449	36.81	1.181	30	0.906	23	0.265	0.12	10,700	47.5	11,900	53	10000	F 90016
RSL18 2204	0.787	20	1.633	41.47	0.709	18	0.472	12	0.221	0.1	9,200	41	8,400	37.5	9500	F 91911
RSL18 3005	0.984	25	1.674	42.51	0.630	16	0.354	9	0.172	0.078	7,100	31.5	7,300	32.5	9000	F87722
RSL18 5005	0.984	25	1.674	42.51	1.181	30	0.906	23	0.318	0.144	12,100	54	14,600	65	9000	F87722
RSL18 2205	0.984	25	1.832	46.52	0.709	18	0.472	12	0.256	0.116	10,300	46	10,100	45	8500	F 91212
RSL18 2305	0.984	25	2.115	53.717	0.945	24	0.591	15	0.463	0.21	14,200	63	12,800	57	7500	F 92059
RSL18 3006	1.181	30	1.953	49.6	0.748	19	0.394	10	0.265	0.12	9,100	40.5	9,700	43	7500	F 87606
RSL18 5006	1.181	30	1.953	49.6	1.339	34	1.024	26	0.595	0.27	15,700	70	19,300	86	7500	F 87606
RSL18 2206	1.181	30	2.173	55.19	0.787	20	0.551	14	0.408	0.185	13,700	61	14,200	63	7000	F 91913
RSL18 2306	1.181	30	2.453	62.3	1.063	27	0.709	18	0.728	0.33	19,600	87	19,100	85	6500	F 92060
RSL18 3007	1.378	35	2.186	55.52	0.787	20	0.433	11	0.331	0.15	11,100	49.5	12,400	55	6500	F 87733
RSL18 5007	1.378	35	2.186	55.52	1.417	36	1.102	28	0.617	0.28	19,100	85	24,500	109	6500	F 87733
RSL18 2207	1.378	35	2.519	63.97	0.906	23	0.591	15	0.584	0.265	17,100	76	17,300	77	6000	F 91635
RSL18 2307	1.378	35	2.861	72.68	1.221	31	0.787	20	1.103	0.5	25,500	113	25,000	112	5500	F 92061
RSL18 3008	1.575	40	2.431	61.74	0.827	21	0.472	12	0.415	0.188	13,300	59	15,300	68	6000	F 87723
RSL18 5008	1.575	40	2.431	61.74	1.496	38	1.181	30	0.77	0.349	22,700	101	30,500	136	6000	F 87723
RSL18 2208	1.575	40	2.793	70.94	0.906	23	0.591	15	0.723	0.328	18,900	84	20,000	89	5500	F 91397
RSL18 2308	1.575	40	3.273	83.124	1.299	33	0.945	24	1.632	0.74	34,000	152	35,000	155	5000	F 92062
RSL18 3009	1.772	45	2.632	66.85	0.906	23	0.472	12	0.485	0.22	14,200	63	17,100	76	5500	F 87591
RSL18 5009	1.772	45	2.632	66.85	1.575	40	1.181	30	0.882	0.4	24,300	108	34,000	151	5500	F 87591
RSL18 2209	1.772	45	2.930	74.43	0.906	23	0.591	15	0.728	0.33	19,800	88	21,600	96	5000	F 91914
RSL18 2309	1.772	45	3.477	88.322	1.417	36	0.945	24	1.808	0.82	36,500	162	37,000	165	4500	F 92063
RSL18 3010	1.969	50	2.848	72.33	0.906	23	0.551	14	0.545	0.247	17,300	77	20,700	92	5000	F 87608
RSL18 5010	1.969	50	2.848	72.33	1.575	40	1.299	33	1.014	0.46	29,500	131	41,500	184	5000	F 87608
RSL18 2210	1.969	50	3.205	81.4	0.906	23	0.591	15	0.882	0.4	21,400	95	24,500	109	4600	F 90398
RSL18 2310	1.969	50	3.887	98.718	1.575	40	1.102	28	2.602	1.18	46,000	205	48,500	215	4100	F 92064
RSL18 3011	2.165	55	3.289	83.54	1.024	26	0.669	17	0.886	0.402	23,600	105	30,000	134	4500	F 91631
RSL18 5011	2.165	55	3.289	83.54	1.811	46	1.535	39	1.896	0.86	40,000	179	61,000	270	4500	F 91631
RSL18 2211	2.165	55	3.497	88.81	0.984	25	0.709	18	1.164	0.528	27,500	122	32,500	145	4200	F 91915
RSL18 2311	2.165	55	4.296	109.114	1.693	43	1.181	30	3.418	1.55	54,000	242	57,000	255	3700	F 92065
RSL18 3012	2.362	60	3.415	86.74	1.024	26	0.669	17	0.937	0.425	24,300	108	31,500	141	4200	F 88659
RSL18 5012	2.362	60	3.415	86.74	1.811	46	1.535	39	1.973	0.895	41,500	184	63,000	280	4200	F 88659
RSL18 2212	2.362	60	3.904	99.17	1.102	28	0.787	20	1.665	0.755	34,000	152	40,000	179	3800	F 201710
RSL18 2312	2.362	60	4.552	115.62	1.811	46	1.181	30	3.969	1.8	58,000	260	63,000	280	3400	F 92066
RSL18 3013	2.559	65	3.665	93.1	1.024	26	0.669	17	1.085	0.492	25,500	113	34,500	154	3900	F 91809
RSL18 5013	2.559	65	3.665	93.1	1.811	46	1.535	39	2.073	0.94	43,500	194	70,000	310	3900	F 91809
RSL18 2213	2.559	65	4.183	106.25	1.221	31	0.866	22	2.062	0.935	40,000	177	48,000	213	3500	F 90399
RSL18 2313	2.559	65	4.988	126.69	1.890	48	1.339	34	5.226	2.37	71,000	315	80,000	355	3200	F 92067
RSL18 3014	2.756	70	3.948	100.28	1.181	30	0.709	18	1.316	0.597	30,000	134	38,500	171	3600	F 88831
RSL18 5014	2.756	70	3.948	100.28	2.126	54	1.654	42	2.47	1.12	51,000	229	76,000	340	3600	F 88831
RSL18 2214	2.756	70	4.371	111.01	1.221	31	0.866	22	2.165	0.982	41,000	183	51,000	226	3300	F 201701
RSL18 2314	2.756	70	5.202	132.14	2.008	51	1.417	36	5.821	2.64	78,000	345	88,000	390	2900	F 92068
RSL18 3015	2.953	75	4.248	107.9	1.181	30	0.709	18	1.596	0.724	31,500	141	42,500	188	3400	F 89121
RSL18 5015	2.953	75	4.248	107.9	2.126	54	1.654	42	2.977	1.35	54,000	242	84,000	375	3400	F 89121
RSL18 2215	2.953	75	4.558	115.78	1.221	31	0.866	22	2.271	1.03	42,500	190	54,000	239	3200	F 90400



Cylindrical Roller Bearings

RSL18 SERIES

- Single and double row designs without outer ring
- For large gearboxes and hardened gear bore mounting
- Double flanged inner ring



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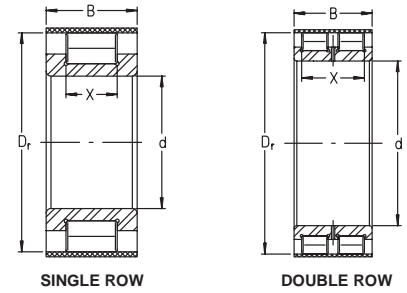
PART NUMBER	SHAFT	SHAFT	HSG. BORE	HSG. BORE	WIDTH	WIDTH	WIDTH	WIDTH	WGT.	WGT.	DYN. CAP.	DYN. CAP.	STAT. CAP.	STAT. CAP.	SPEED LIMIT	THRUST SPACER
	d	d	Dr	Dr	B	B	X	X	lbs	kg	C	C	C ₀	C ₀	OIL	
	inch	mm	inch	mm	inch	mm	inch	mm			lbf	kN	lbf	kN	rpm	
RSL18 2315	2.953	75	5.639	143.22	2.165	55	1.575	40	7.585	3.44	92,000	410	107,000	475	2800	F 92069
RSL18 3016	3.150	80	4.606	116.99	1.339	34	0.787	20	2.09	0.948	39,000	173	50,000	224	3200	F 91633
RSL18 5016	3.150	80	4.606	116.99	2.362	60	1.850	47	3.969	1.8	66,000	295	101,000	450	3200	F 91633
RSL18 2216	3.150	80	4.953	125.81	1.299	33	0.945	24	2.933	1.33	50,000	223	63,000	280	2900	F 200908
RSL18 2316	3.150	80	6.072	154.24	2.284	58	1.732	44	9.592	4.35	108,000	480	126,000	560	2600	F 92070
RSL18 3017	3.347	85	4.781	121.44	1.339	34	0.787	20	2.19	0.993	40,000	178	53,000	235	3000	F 91559
RSL18 5017	3.347	85	4.781	121.44	2.362	60	1.850	47	4.079	1.85	69,000	305	106,000	470	3000	F 91559
RSL18 2217	3.347	85	5.245	133.21	1.417	36	1.024	26	3.55	1.61	57,000	255	72,000	320	2800	F 90401
RSL18 2317	3.347	85	6.418	163.01	2.362	60	1.732	44	11.0	5	115,000	510	139,000	620	2400	F 92071
RSL18 3018	3.543	90	5.122	130.11	1.457	37	0.866	22	2.822	1.28	46,500	207	63,000	280	2800	F 91544
RSL18 5018	3.543	90	5.122	130.11	2.638	67	2.047	52	5.733	2.6	80,000	355	126,000	560	2800	F 91544
RSL18 2218	3.543	90	5.536	140.61	1.575	40	1.102	28	4.322	1.96	64,000	285	82,000	365	2600	F 204890
RSL18 2318	3.543	90	6.506	165.26	2.520	64	1.890	48	11.4	5.17	126,000	560	148,000	660	2300	F 92072
RSL18 2319	3.740	95	6.876	174.66	2.638	67	1.890	48	13.3	6.03	130,000	580	162,000	720	2200	F 92073
RSL18 3020	3.937	100	5.498	139.65	1.457	37	0.866	22	3.043	1.38	49,000	218	69,000	305	2600	F 91810
RSL18 5020	3.937	100	5.498	139.65	2.638	67	2.047	52	5.733	2.6	84,000	375	137,000	610	2600	F 91810
RSL18 2220	3.937	100	6.410	162.81	1.811	46	1.339	34	7.387	3.35	88,000	390	117,000	520	2300	F 91917
RSL18 2320	3.937	100	7.374	187.303	2.874	73	2.165	55	17.0	7.7	160,000	710	193,000	860	2100	F 92074
RSL18 3022	4.331	110	6.147	156.13	1.772	45	1.024	26	4.608	2.09	64,000	285	89,000	395	2300	F 91634
RSL18 5022	4.331	110	6.147	156.13	3.150	80	2.441	62	8.71	3.95	110,000	490	178,000	790	2300	F 91634
RSL18 2222	4.331	110	6.969	177	2.087	53	1.417	36	9.305	4.22	102,000	455	133,000	590	2100	
RSL18 2322	4.331	110	8.593	218.27	3.150	80	2.205	56	22.7	10.31	189,000	840	218,000	970	1900	F 92075
RSL18 3024	4.724	120	6.598	167.58	1.811	46	1.024	26	5.314	2.41	67,000	300	98,000	435	2200	F 91546
RSL18 5024	4.724	120	6.598	167.58	3.150	80	2.441	62	9.967	4.52	117,000	520	196,000	870	2200	F 91546
RSL18 2224	4.724	120	7.572	192.32	2.284	58	1.575	40	12.3	5.57	119,000	530	164,000	730	1900	F 91918
RSL18 2324	4.724	120	9.110	231.386	3.386	86	2.520	64	37.6	17.04	223,000	990	275,000	1220	1700	F 92076
RSL18 3026	5.118	130	7.237	183.81	2.047	52	1.339	34	7.607	3.45	97,000	430	137,000	610	2000	F 91811
RSL18 5026	5.118	130	7.237	183.81	3.740	95	3.071	78	14.8	6.7	166,000	740	275,000	1220	2000	F 91811
RSL18 2226	5.118	130	8.154	207.12	2.520	64	1.732	44	16.5	7.5	142,000	630	193,000	860	1800	
RSL18 3028	5.512	140	7.788	197.82	2.087	53	1.339	34	9.305	4.22	102,000	455	151,000	670	1900	F 91815
RSL18 5028	5.512	140	7.788	197.82	3.740	95	3.071	78	17.5	7.914	175,000	780	300,000	1340	1900	F 91815
RSL18 2228	5.512	140	8.737	221.92	2.677	68	1.890	48	20.3	9.2	162,000	720	229,000	1020	1700	
RSL18 3030	5.906	150	8.143	206.82	2.205	56	1.339	34	12.8	5.81	107,000	475	157,000	700	1700	F 91813
RSL18 5030	5.906	150	8.143	206.82	3.937	100	3.150	80	18.1	8.215	182,000	810	315,000	1400	1700	F 91813
RSL18 2230	5.906	150	9.319	236.71	2.874	73	2.047	52	24.3	11	187,000	830	265,000	1180	1500	
RSL18 3032	6.299	160	8.850	224.8	2.362	60	1.417	36	15.5	7.02	121,000	540	182,000	810	1600	F 91814
RSL18 5032	6.299	160	8.850	224.8	4.291	109	3.386	86	24.5	11.09	209,000	930	365,000	1620	1600	F 91814
RSL18 2232	6.299	160	10.487	266.36	3.150	80	2.284	58	36.8	16.7	229,000	1020	330,000	1460	1400	
RSL18 3034	6.693	170	9.562	242.87	2.638	67	1.732	44	18.1	8.21	160,000	710	241,000	1070	1500	F 91815
RSL18 5034	6.693	170	9.562	242.87	4.803	122	3.937	100	34.4	15.6	270,000	1210	480,000	2140	1500	F 91815
RSL18 2234	6.693	170	11.067	281.09	3.386	86	2.441	62	43.7	19.8	255,000	1140	375,000	1660	1400	
RSL18 3036	7.087	180	10.245	260.22	2.913	74	1.890	48	24.9	11.3	184,000	820	285,000	1260	1400	F 91816
RSL18 5036	7.087	180	10.245	260.22	5.354	136	4.331	110	45.1	20.45	315,000	1400	560,000	2500	1400	F 91816
RSL18 2236	7.087	180	11.544	293.22	3.386	86	2.441	62	47.0	21.3	265,000	1180	395,000	1760	1300	F 206052
RSL18 3038	7.480	190	10.621	269.76	2.953	75	1.890	48	26.2	11.9	189,000	840	295,000	1320	1400	F 91817
RSL18 5038	7.480	190	10.621	269.76	5.354	136	4.331	110	46.7	21.2	325,000	1440	600,000	2650	1400	F 91817



Cylindrical Roller Bearings

RSL18 SERIES

- Single and double row designs without outer ring
- For large gearboxes and hardened gear bore mounting
- Double flanged inner ring



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
 For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

PART NUMBER	SHAFT d inch	SHAFT d mm	HSG. BORE D _r inch	HSG. BORE D _r mm	WIDTH B inch	WIDTH B mm	WIDTH X inch	WIDTH X mm	WGT. lbs	WGT. kg	DYN. CAP. C lbf	DYN. CAP. C kN	STAT. CAP. C ₀ lbf	STAT. CAP. C ₀ kN	SPEED LIMIT OIL rpm	THRUST SPACER
RSL18 2238	7.480	190	12.232	310.68	3.622	92	2.520	64	55.3	25.1	290,000	1300	425,000	1900	1200	
RSL18 3040	7.874	200	11.329	287.75	3.228	82	2.047	52	33.5	15.2	216,000	960	345,000	1530	1300	F 91818
RSL18 5040	7.874	200	11.329	287.75	5.906	150	4.724	120	60.4	27.4	370,000	1650	690,000	3050	1300	F 91818
RSL18 2240	7.874	200	12.543	318.6	3.858	98	2.677	68	58.2	26.4	320,000	1420	460,000	2040	1200	

