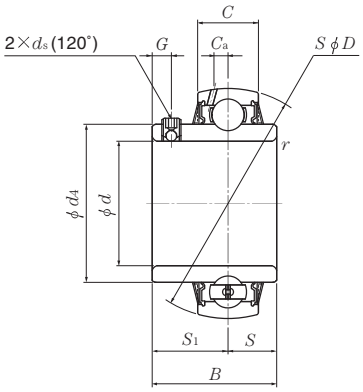
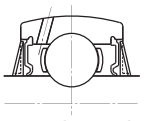
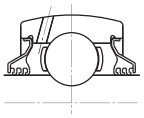
Ball bearings
Set screw type





Standard: Seal + Slinger



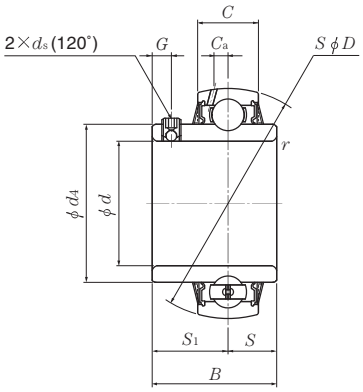
Triple Sealed
UCxxD1LLJ
Example : UC305D1LLJ

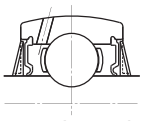
Shaft dia. mm / inch	Bearing number	Nominal dimensions										
		mm						inch				
		d	D	B	C	r_s min.	S	S_1	G	ds	d_4	C_a
25	**UC305D1**	25	62	38	20	1.5	15	23	6	M6×0.75	36.8	5.0
13/16	**UC305-013D1**	0.8125										
7/8	**UC305-014D1**	0.8750	2.4409	1.4961	0.7874	0.059	0.591	0.906	0.236	1/4-28UNF	1.4488	0.197
15/16	**UC305-015D1**	0.9375										
1	**UC305-100D1**	1.0000										
30	**UC306D1**	30	72	43	23	1.5	17	26	6	M6×0.75	44.9	5.6
1 1/16	**UC306-101D1**	1.0625										
1 1/8	**UC306-102D1**	1.1250	2.8346	1.6929	0.9055	0.059	0.669	1.024	0.236	1/4-28UNF	1.7677	0.220
1 3/16	**UC306-103D1**	1.1875										
35	**UC307D1**	35	80	48	25	2	19	29	8	M8×1	49.4	5.7
1 1/4	**UC307-104D1**	1.2500										
1 5/16	**UC307-105D1**	1.3125	3.1496	1.8898	0.9843	0.079	0.748	1.142	0.315	5/16-24UNF	1.9449	0.224
1 3/8	**UC307-106D1**	1.3750										
1 7/16	**UC307-107D1**	1.4375										
40	**UC308D1**	40	90	52	27	2	19	33	10	M10×1.25	56	6.1
1 1/2	**UC308-108D1**	1.5000	3.5433	2.0472	1.0630	0.079	0.748	1.299	0.394	3/8-24UNF	2.2047	0.240
1 9/16	**UC308-109D1**	1.5625										
45	**UC309D1**	45	100	57	29	2	22	35	10	M10×1.25	63.5	7.1
1 5/8	**UC309-110D1**	1.6250										
1 11/16	**UC309-111D1**	1.6875	3.9370	2.2441	1.1417	0.079	0.866	1.378	0.394	3/8-24UNF	2.5000	0.280
1 3/4	**UC309-112D1**	1.7500										
50	**UC310D1**	50	110	61	32	2.5	22	39	12	M12×1.5	70.6	7.9
1 13/16	**UC310-113D1**	1.8125										
1 7/8	**UC310-114D1**	1.8750	4.3307	2.4016	1.2598	0.098	0.866	1.535	0.472	1/2-20UNF	2.7795	0.311
1 15/16	**UC310-115D1**	1.9375										
55	**UC311D1**	55	120	66	34	2.5	25	41	12	M12×1.5	76.6	8.5
2	**UC311-200D1**	2.0000										
2 1/16	**UC311-201D1**	2.0625	4.7244	2.5984	1.3386	0.098	0.984	1.614	0.472	1/2-20UNF	3.0157	0.335
2 1/8	**UC311-202D1**	2.1250										
2 3/16	**UC311-203D1**	2.1875										

Remarks: 1) For inch series bearings, the f_0 factor for calculating equivalent radial load is the same as the metric series.

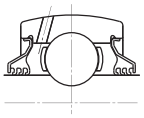
Basic load ratings		Factor[1)]	Mass (approx.)	
N	lbf		kg	lb
dynamic C_r	static C_{or}	f_0		
21 200	10 900	12.6	0.35	0.88
4 750	2 460		0.84	0.79
26 700	15 000	13.3	0.56	1.34
6 000	3 400		1.28	1.23
33 500	19 100	13.1	0.70	1.70
7 500	4 300		1.63	1.57
40 500	24 000	13.2	0.96	2.23
9 150	5 400		2.14	
53 000	32 000	13.1	1.28	3.06
11 900	7 200		2.98	2.87
62 000	38 500	13.2	1.68	3.95
13 900	8 600		3.84	3.70
71 500	45 000	13.2	2.08	4.96
16 100	10 100		4.81	4.67
				4.50

Ball bearings
Set screw type





Standard: Seal + Slinger



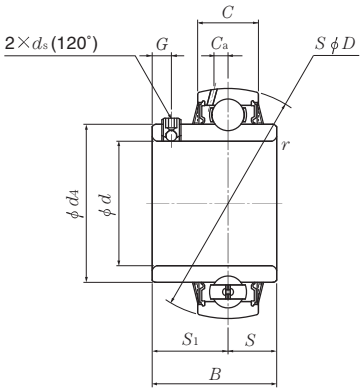
Triple Sealed
UCxxD1LLJ
Example : UC305D1LLJ

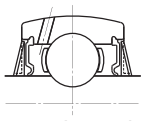
Shaft dia. mm / inch	Bearing number	Nominal dimensions										
		mm: d	mm: D	mm: B	mm: C	mm: r_s min.	mm: S	inch: S_1	mm: G	mm: ds	mm: d_4	mm: C_a
60	**UC312D1**	60	130	71	36	2.5	26	45	12	M12×1.5	82.7	9.0
2 1/4	**UC312-204D1**	2.2500										
2 5/16	**UC312-205D1**	2.3125	5.1181	2.7953	1.4173	0.098	1.024	1.772	0.472	1/2-20UNF	3.2559	0.354
2 3/8	**UC312-206D1**	2.3750										
2 7/16	**UC312-207D1**	2.4375										
65	**UC313D1**	65	140	75	39	2.5	30	45	12	M12×1.5	88.2	9.4
2 1/2	**UC313-208D1**	2.5000	5.5118	2.9528	1.5354	0.098	1.181	1.772	0.472	1/2-20UNF	3.4724	0.370
2 9/16	**UC313-209D1**	2.5625										
70	**UC314D1**	70	150	78	41	2.5	33	45	12	M12×1.5	94.8	10
2 5/8	**UC314-210D1**	2.6250										
2 11/16	**UC314-211D1**	2.6875	5.9055	3.0709	1.6142	0.098	1.299	1.772	0.472	1/2-20UNF	3.7323	0.394
2 3/4	**UC314-212D1**	2.7500										
75	**UC315D1**	75	160	82	43	2.5	32	50	14	M14×1.5	101.3	10.5
2 13/16	**UC315-213D1**	2.8125										
2 7/8	**UC315-214D1**	2.8750	6.2992	3.2283	1.6929	0.098	1.260	1.969	0.551	9/16-18UNF	3.9882	0.413
2 15/16	**UC315-215D1**	2.9375										
3	**UC315-300D1**	3.0000										
80	**UC316D1**	80	170	86	45	2.5	34	52	14	M14×1.5	107.9	11.1
3 1/16	**UC316-301D1**	3.0625										
3 1/8	**UC316-302D1**	3.1250	6.6929	3.3858	1.7717	0.098	1.339	2.047	0.551	9/16-18UNF	4.2480	0.437
3 3/16	**UC316-303D1**	3.1875										
85	**UC317D1**	85	180	96	47	3	40	56	16	M16×1.5	114.4	11.5
3 1/4	**UC317-304D1**	3.2500										
3 5/16	**UC317-305D1**	3.3125	7.0866	3.7795	1.8504	0.118	1.575	2.205	0.630	5/8-18UNF	4.5039	0.453
3 7/16	**UC317-307D1**	3.4375										
90	**UC318D1**	90	190	96	49	3	40	56	16	M16×1.5	120.9	12.2
3 7/16	**UC318-307D1**	3.4375	7.4803	3.7795	1.9291	0.118	1.575	2.205	0.630	5/8-18UNF	4.7598	0.480
3 1/2	**UC318-308D1**	3.5000										

Remarks: 1) For inch series bearings, the f_0 factor for calculating equivalent radial load is the same as the metric series.

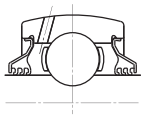
Basic load ratings		Factor[1)]	Mass (approx.)	
N	lbf		kg	lb
dynamic C_r	static C_{or}	f_0		
82 000	52 000	13.2	2.60	6.06
18 400	11 700		5.89	5.68
				5.51
92 500	60 000	13.2	3.25	7.36
20 800	13 400			7.14
104 000	68 000	13.2	3.86	9.06
23 400	15 300			8.82
				8.60
113 000	77 000	13.2	4.70	11.0
25 500	17 400			10.7
				10.5
				10.2
123 000	86 500	13.3	5.60	12.6
27 600	19 500			12.3
				12.1
133 000	97 000	13.3	6.70	15.2
29 800	21 800			14.9
				14.2
143 000	107 000	13.3	7.60	17.3
32 000	24 100			16.9

Ball bearings
Set screw type





Standard: Seal + Slinger



Triple Sealed
UCxxD1LLJ
Example : UC305D1LLJ

Shaft dia. mm / inch	Bearing number	Nominal dimensions										
		mm						inch				
		d	D	B	C	r_s min.	S	S_1	G	ds	d_4	C_a
95	**UC319D1**	95	200	103	51	3	41	62	16	M16×1.5	127.5	12.7
3 5/8	**UC319-310D1**	3.6250										
3 11/16	**UC319-311D1**	3.6875	7.8740	4.0551	2.0079	0.118	1.614	2.441	0.630	5/8-18UNF	5.0197	0.5
3 3/4	**UC319-312D1**	3.7500										
100	**UC320D1**	100	215	108	55	3	42	66	18	M18×1.5	135.6	14
3 13/16	**UC320-313D1**	3.8125										
3 7/8	**UC320-314D1**	3.8750	8.4646	4.2520	2.1654	0.118	1.654	2.598	0.709	5/8-18UNF	5.3386	0.551
3 15/16	**UC320-315D1**	3.9375										
4	**UC320-400D1**	4.0000										
105	**UC321D1**	105	225	112	57	3	44	68	18	M18×1.5	142.1	14.6
110	**UC322D1**	110	240	117	59	3	46	71	18	M18×1.5	151.7	15.6
120	**UC324D1**	120	260	126	63	3	51	75	18	M18×1.5	165.2	15.5
130	**UC326D1**	130	280	135	67	4	54	81	20	M20×1.5	178.3	16.6
140	**UC328D1**	140	300	145	71	4	59	86	20	M20×1.5	190.4	17.8

Remarks: 1) For inch series bearings, the f_0 factor for calculating equivalent radial load is the same as the metric series.

Basic load ratings		Factor[1)]	Mass (approx.)	
N	lbf		kg	lb
dynamic C_r	static C_{or}	f_0		
153 000	119 000	13.3	8.70	19.9
34 500	26 600		19.5	19.1
173 000	141 000	13.2	10.8	24.7
39 000	31 500		24.2	23.8
				23.4
184 000	153 000	13.2	12.2	
205 000	179 000	13.1	14.3	
207 000	185 000	13.5	18.5	
229 000	214 000	13.6	23.0	
253 000	246 000	13.6	28.5	