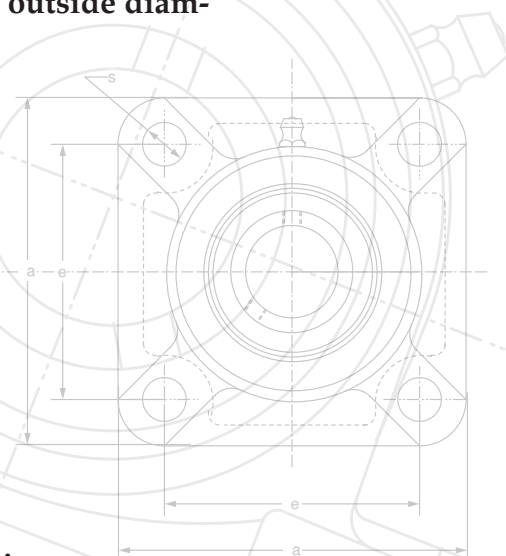


Moline Normal Duty Mounted Ball Bearings consist of a **single row deep groove ball bearing and cast iron housing available in a wide range of shaft sizes.**

The **self-contained bearing with a spherical ground outside diameter** is assembled into a corresponding spherical seat of the housing, providing **full self-alignment** of the bearing in the housing at mounting.

For **set-screw locking units**, the inner rings of the bearing are through hardened in the raceway, while the extended ring where the set-screws are installed is metallurgically mild and softened. This **unique**

heat treatment ensures full bearing performance and prevents the set-screw from loosening during operation. Thus, the set-screws can be tightened as needed without causing cracks on the inner ring.



Features of Moline Normal Duty Mounted Ball Bearings

- Available in sizes from 1/2" - 3-7/16"
- Easy installation and maintenance
- Supplied from the factory in shaft ready condition
- Dimensionally interchangeable with comparable units
- Fully self-aligning
- Grease fitting for re-lubrication
- Contact seals are standard
- Wide inner ring for rigidity and more effective setscrew locking
- Single-piece housings are made of Class 30 cast iron
- Operating temperatures up to 200°F
- Available as complete units, inserts and housings

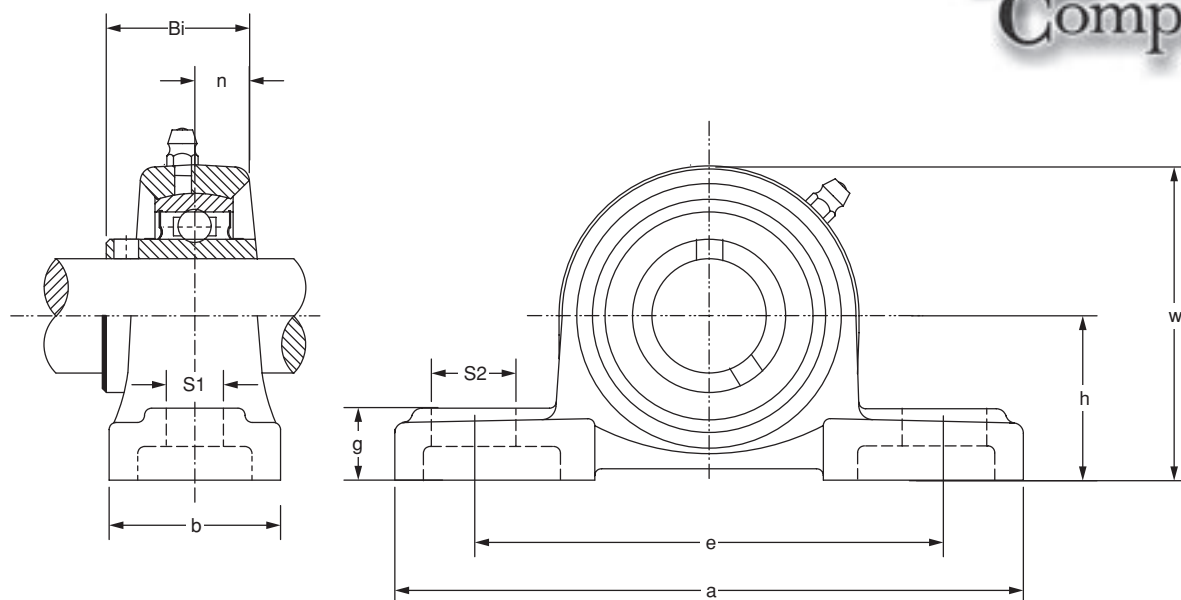


MOUNTED
BALL BEARINGS



2-BOLT PILLOW BLOCK UCP 200 SERIES NORMAL DUTY - SET SCREW LOCKING

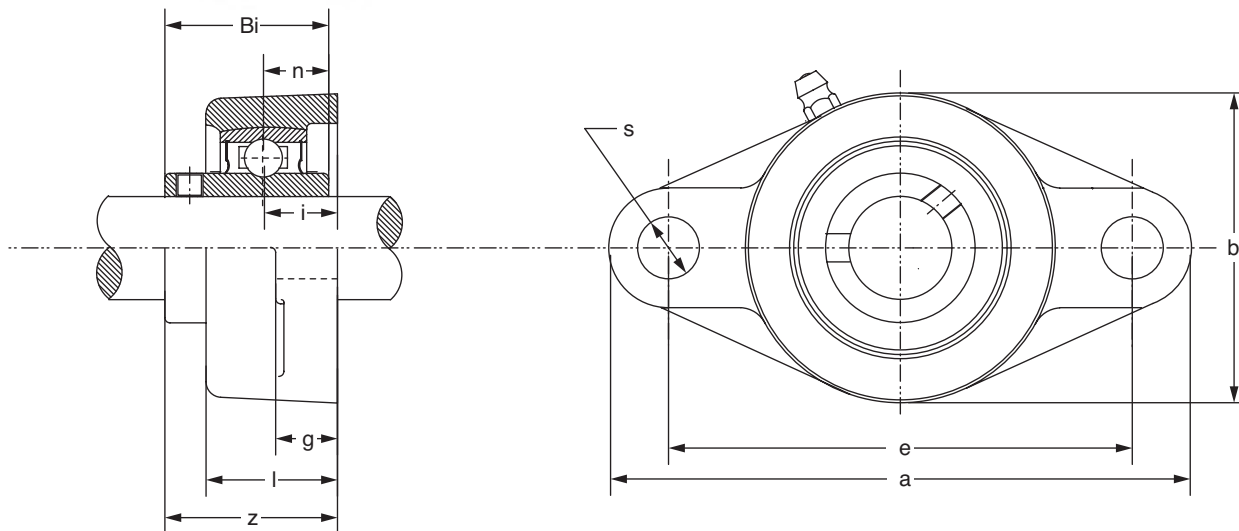
Moline
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Unit #	Moline #	Shaft Dia.	Dimensions (in)										Bolt Size (inches)	Weight Lbs.
			h	a	e	b	S1	S2	g	w	Bi	n		
UCP201-8	19421008	1/2	1-3/16	4.921	3.779	1.260	.472	.630	.512	2.244	1.079	.453	3/8	1.32
UCP202-10	19421010	5/8	1-3/16	5	3.779	1.456	1/2	.630	.551	2.511	1.22	0.500	3/8	1.43
UCP204-12	19421012	3/4	1-5/16	5	3.779	1.456	1/2	.630	.551	2.511	1.22	0.500	3/8	1.43
UCP205-14	19421014	7/8	1-7/16	5-1/2	4-1/8	1-1/2	1/2	3/4	.590	2.736	1.339	0.563	3/8	1.59
UCP205-15	19421015	15/16	1-7/16	5-1/2	4-1/8	1-1/2	1/2	3/4	.590	2.736	1.339	0.563	3/8	1.59
UCP205-16	19421100	1	1-7/16	5-1/2	4-1/8	1-1/2	1/2	3/4	.590	2.736	1.339	0.563	3/8	1.59
UCP206-18	19421102	1-1/8	1-11/16	6.30	4-3/4	1.732	.551	3/4	.630	3.228	1.50	0.626	1/2	2.54
UCP206-19	19421103	1-3/16	1-11/16	6.30	4-3/4	1.732	.551	3/4	.630	3.228	1.50	0.626	1/2	2.54
UCP206-20	19421104-06	1-1/4	1-11/16	6.30	4-3/4	1.732	.551	3/4	.630	3.228	1.50	0.626	1/2	2.54
UCP207-20	19421104	1-1/4	1-7/8	6.575	5	1-7/8	.590	3/4	.669	3.622	1.689	0.689	1/2	3.37
UCP207-21	19421105	1-5/16	1-7/8	6.575	5	1-7/8	.590	3/4	.669	3.622	1.689	0.689	1/2	3.37
UCP207-22	19421106	1-3/8	1-7/8	6.575	5	1-7/8	.590	3/4	.669	3.622	1.689	0.689	1/2	3.37
UCP207-23	19421107	1-7/16	1-7/8	6.575	5	1-7/8	.590	3/4	.669	3.622	1.689	0.689	1/2	3.37
UCP208-24	19421108	1-1/2	1-15/16	7.09	5.354	2.047	.590	13/16	.709	3.858	1.937	0.748	1/2	4.14
UCP208-25	19421109	1-9/16	1-15/16	7.09	5.354	2.047	.590	13/16	.709	3.858	1.937	0.748	1/2	4.14
UCP209-26	19421110	1-5/8	2-1/8	7.44	5-3/4	2-1/8	.590	13/16	.787	4.153	1.937	0.748	1/2	4.63
UCP209-27	19421111	1-11/16	2-1/8	7.44	5-3/4	2-1/8	.590	13/16	.787	4.153	1.937	0.748	1/2	4.63
UCP209-28	19421112	1-3/4	2-1/8	7.44	5-3/4	2-1/8	.590	13/16	.787	4.153	1.937	0.748	1/2	4.63
UCP210-30	19421114	1-7/8	2-1/4	8.031	6-1/4	2.244	3/4	.866	.827	4.417	2.031	0.748	5/8	5.51
UCP210-31	19421115	1-15/16	2-1/4	8.031	6-1/4	2.244	3/4	.866	.827	4.417	2.031	0.748	5/8	5.51
UCP210-32	19421200-10C	2	2-1/4	8.031	6-1/4	2.244	3/4	.866	.827	4.417	2.031	0.748	5/8	5.51
UCP211-32	19421200	2	2-1/2	8.543	6.771	2-3/8	3/4	.866	.866	4.901	2.189	0.874	5/8	7.28
UCP211-34	19421202	2-1/8	2-1/2	8.543	6.771	2-3/8	3/4	.866	.866	4.901	2.189	0.874	5/8	7.28
UCP211-35	19421203	2-3/16	2-1/2	8.543	6.771	2-3/8	3/4	.866	.866	4.901	2.189	0.874	5/8	7.28
UCP212-36	19421204	2-1/4	2-3/4	9.370	7.323	2.598	3/4	.984	.945	5.394	2.563	1.000	5/8	12.13
UCP212-38	19421206	2-3/8	2-3/4	9.370	7.323	2.598	3/4	.984	.945	5.394	2.563	1.000	5/8	12.13
UCP212-39	19421207	2-7/16	2-3/4	9.370	7.323	2.598	3/4	.984	.945	5.394	2.563	1.000	5/8	12.13
UCP213-40	19421208	2-1/2	3	10.315	8	2-3/4	.905	1.142	1.023	5.866	2.566	1.000	3/4	12.35
UCP214-44	19421212	2-3/4	3-1/8	10.472	8.268	2.834	.905	1.142	1.063	6.102	2.937	1.189	3/4	14.55
UCP215-47	19421215	2-15/16	3-1/4	10.787	8.543	2.913	.984	1.142	1.102	6.363	3.063	1.311	3/4	16.09
UCP215-48	19421300	3	3-1/4	10.787	8.543	2.913	.984	1.142	1.102	6.363	3.063	1.311	3/4	16.09
UCP218-55	19421307	3-7/16	4	12.835	10.315	3.465	1.05	1.181	1.30	7.795	3.78	1.563	7/8	32.40

Refer to the Moline List Price Book for pricing.

Call 630-584-4600 or 800-242-4633 Fax 630-584-1999 www.molinebearing.com sales@molinebearing.com
Moline Bearing Company P.O. Box 509 St. Charles, IL 60174



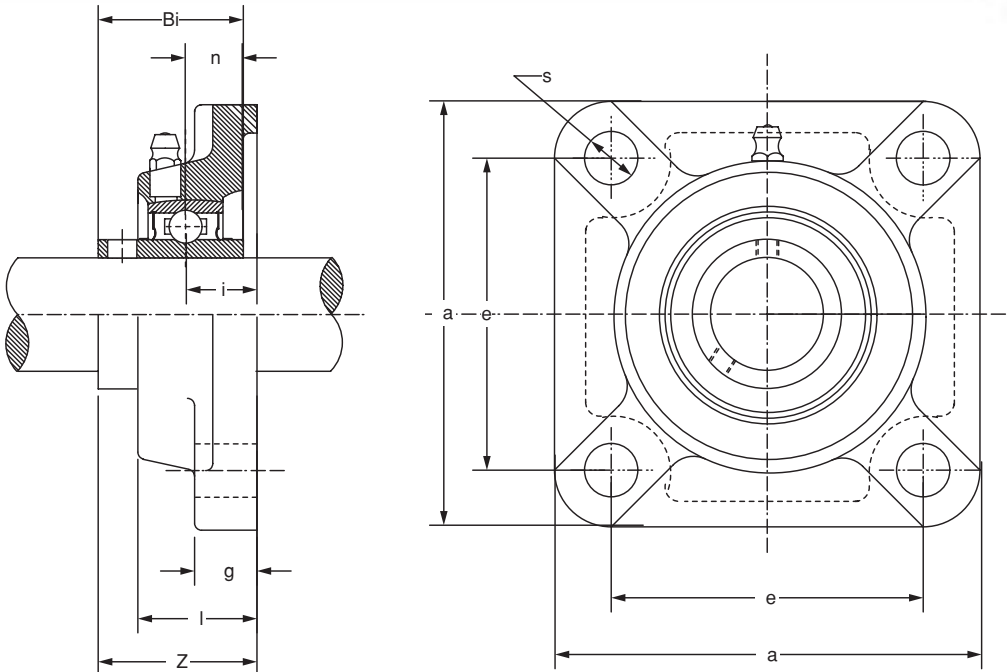
Unit #	Moline #	Shaft Dia.	Dimensions (in)										Bolt Size (inches)	Weight Lbs.
			a	e	i	g	l	s	b	Z	Bi	n		
UCFL201-8	19401008	1/2	3.897	3.012	.591	.433	1	.452	2.244	1.311	1.220	0.500	3/8	.992
UCFL202-10	19401010	5/8												
UCFL204-12	19401012	3/4	4.489	3.543	.591	.433	1	.452	2.362	1.311	1.220	0.500	3/8	1.06
UCFL205-14	19401014	7/8												
UCFL205-15	19401015	15/16	5.118	3.898	.630	.512	1.062	.452	2.677	1.406	1.339	0.563	3/8	1.43
UCFL205-16	19401100	1												
UCFL206-18	19401102	1-1/8												
UCFL206-19	19401103	1-3/16	5.827	4.606	.709	.512	1.220	.452	3-1/8	1.583	1.500	0.626	3/8	2.16
UCFL206-20	19401104-06	1-1/4												
UCFL207-20	19401104	1-1/4												
UCFL207-21	19401105	1-5/16	6.338	5.118	.748	.551	1.338	.551	3-9/16	1.748	1.689	0.689	1/2	2.76
UCFL207-22	19401106	1-3/8												
UCFL207-23	19401107	1-7/16												
UCFL208-24	19401108	1-1/2												
UCFL208-25	19401109	1-9/16	6.890	5.669	.827	.551	1.417	.551	3-15/16	2.016	1.937	0.748	1/2	3.64
UCFL209-26	19401110	1-5/8												
UCFL209-27	19401111	1-11/16	7.401	5.827	.866	.630	1.496	.709	4-1/4	2.055	1.937	0.748	5/8	4.30
UCFL209-28	19401112	1-3/4												
UCFL210-30	19401114	1-7/8												
UCFL210-31	19401115	1-15/16	7.756	6.181	.866	.630	1.575	.709	4-1/2	2.150	2.031	0.748	5/8	4.96
UCFL210-32	19401200-10C	2												
UCFL211-32	19401200	2												
UCFL211-34	19401202	2-1/8	8.819	7.244	.984	.709	1.693	.709	5-1/8	2.299	2.189	0.874	5/8	7.27
UCFL211-35	19401203	2-3/16												
UCFL212-36	19401204	2-1/4												
UCFL212-38	19401206	2-3/8	9.842	7.953	1.142	.709	1.890	.709	5-1/2	2.705	2.563	1.00	5/8	9.37
UCFL212-39	19401207	2-7/16												
UCFL213-40	19401208	2-1/2	10.157	8.268	1.181	.787	1.968	.905	6-1/8	2.744	2.563	1.00	3/4	11.68
UCFL214-44	19401212	2-3/4	10.433	8.504	1.22	.787	2.126	.905	6-5/16	2.969	2.937	1.189	3/4	13.23
UCFL215-47	19401215	2-15/16												
UCFL215-48	19401300	3	10.827	8.858	1.339	.866	2.165	.905	6-1/2	3.091	3.063	1.311	3/4	14.33



MOUNTED
BALL BEARINGS

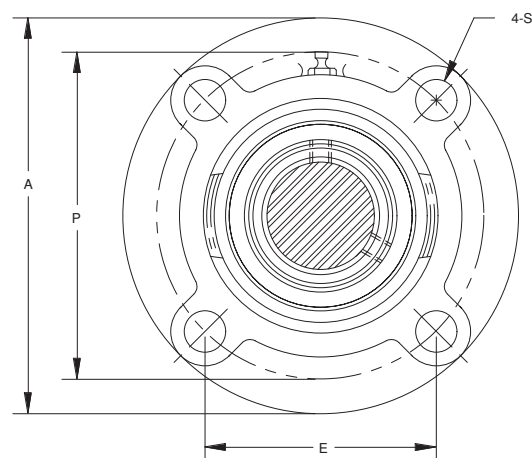
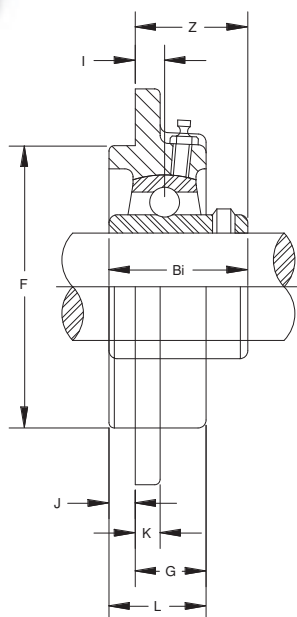
Refer to the Moline List Price Book for pricing.

SQUARE FLANGE
UCF 200 SERIES - NORMAL DUTY SET SCREW LOCKING



Unit #	Moline #	Shaft Dia.	Dimensions (in)									Bolt Size (inches)	Weight Lbs.
			a	e	i	g	l	s	Z	Bi	n		
UCF201-8	19411008	1/2	2.992	2.520	0.591	.433	1	.453	1.216	1.22	0.500	3/8	1.25
UCF202-10	19411010	5/8	3.386	2.520	.591	.433	1	.453	1.311	1.22	0.500	3/8	1.35
UCF204-12	19411012	3/4	3.386	2.520	.591	.433	1	.453	1.311	1.22	0.500	3/8	1.35
UCF205-14	19411014	7/8	3-3/4	2-3/4	.630	.512	1.063	.453	1.406	1.339	0.563	3/8	1.76
UCF205-15	19411015	15/16	3-3/4	2-3/4	.630	.512	1.063	.453	1.406	1.339	0.563	3/8	1.76
UCF205-16	19411100	1	3-3/4	2-3/4	.630	.512	1.063	.453	1.406	1.339	0.563	3/8	1.76
UCF206-18	19411102	1-1/8	4-1/4	3.267	.709	.512	1.220	.453	1.583	1.500	0.626	3/8	2.36
UCF206-19	19411103	1-3/16	4-1/4	3.267	.709	.512	1.220	.453	1.583	1.500	0.626	3/8	2.36
UCF206-20	19411104-06	1-1/4	4-1/4	3.267	.709	.512	1.220	.453	1.583	1.500	0.626	3/8	2.36
UCF207-20	19411104	1-1/4	4.606	3.622	.748	.591	1.339	.551	1.748	1.689	0.689	1/2	3.09
UCF207-21	19411105	1-5/16	4.606	3.622	.748	.591	1.339	.551	1.748	1.689	0.689	1/2	3.09
UCF207-22	19411106	1-3/8	4.606	3.622	.748	.591	1.339	.551	1.748	1.689	0.689	1/2	3.09
UCF207-23	19411107	1-7/16	4.606	3.622	.748	.591	1.339	.551	1.748	1.689	0.689	1/2	3.09
UCF208-24	19411108	1-1/2	5.118	4.016	.827	.591	1.417	.551	2.016	1.937	0.748	1/2	3.97
UCF208-25	19411109	1-9/16	5.118	4.016	.827	.591	1.417	.551	2.016	1.937	0.748	1/2	3.97
UCF209-26	19411110	1-5/8	5.394	4.134	.866	.630	1.496	.630	2.055	1.937	0.748	1/2	4.85
UCF209-27	19411111	1-11/16	5.394	4.134	.866	.630	1.496	.630	2.055	1.937	0.748	1/2	4.85
UCF209-28	19411112	1-3/4	5.394	4.134	.866	.630	1.496	.630	2.055	1.937	0.748	1/2	4.85
UCF210-30	19411114	1-7/8	5.630	4.370	.866	.630	1.574	.709	2.150	2.031	0.748	1/2	5.29
UCF210-31	19411115	1-15/16	5.630	4.370	.866	.630	1.574	.709	2.150	2.031	0.748	1/2	5.29
UCF210-32	19411200-10C	2	5.630	4.370	.866	.630	1.574	.709	2.150	2.031	0.748	1/2	5.29
UCF211-32	19411200	2	6.378	5.118	.984	.709	1.693	.709	2.299	2.189	0.874	5/8	7.27
UCF211-34	19411202	2-1/8	6.378	5.118	.984	.709	1.693	.709	2.299	2.189	0.874	5/8	7.27
UCF211-35	19411203	2-3/16	6.378	5.118	.984	.709	1.693	.709	2.299	2.189	0.874	5/8	7.27
UCF212-36	19411204	2-1/4	6.890	5.630	1.142	.709	1.890	.709	2.705	2.563	1.000	5/8	9.26
UCF212-38	19411206	2-3/8	6.890	5.630	1.142	.709	1.890	.709	2.705	2.563	1.000	5/8	9.26
UCF212-39	19411207	2-7/16	6.890	5.630	1.142	.709	1.890	.709	2.705	2.563	1.000	5/8	9.26
UCF213-40	19411208	2-1/2	7.362	5.866	1.181	.866	1.968	.709	2.744	2.563	1.000	5/8	11.68
UCF214-44	19411212	2-3/4	7.598	5.984	1.220	.866	2.125	.709	2.969	2.937	1.189	5/8	13.01
UCF215-47	19411215	2-15/16	7-7/8	6.259	1.339	.866	2.205	.709	3.091	3.063	1.311	5/8	13.89
UCF215-48	19411300	3	7-7/8	6.259	1.339	.866	2.205	.709	3.091	3.063	1.311	5/8	13.89
UCF218-55	19411307	3-7/16	9.25	7.362	1.575	.984	2.677	.906	3.791	3.78	1.563	3/4	25.57

Refer to the Moline List Price Book for pricing.



Unit #	Moline #	Shaft Dia.	Dimensions (in)												Bolt Size (in)	Wt Lbs.
			A	P	E	I	L	S	J	K	G	F	Z	Bi		
UCFC201-8	19431008	1/2	3.543	2.756	1.949	.394	.805	.394	.157	.197	.748	2.4409	1.020	1.0787	3/8	1.23
UCFC202-10	19431010	5/8														
UCFC204-12	19431012	3/4	3-15/16	3.701	2.169	.394	1	.453	.197	.236	.807	2.4409	1.114	1.2205	3/8	1.68
UCFC205-14	19431014	7/8														
UCFC205-15	19431015	15/16	4.527	3.543	2.504	.394	1.063	.472	.236	.275	.827	2.7559	1.169	1.3386	3/8	2.12
UCFC205-16	19431100	1														
UCFC206-18	19431102	1-1/8														
UCFC206-19	19431103	1-3/16	4.921	3.937	2.783	.394	1.220	.472	.315	.315	.905	3.1496	1.268	1.50	3/8	3.02
UCFC206-20	19431104-06	1-1/4														
UCFC207-20	19431104	1-1/4														
UCFC207-21	19431105	1-5/16	5.315	4.331	3.063	.433	1.338	.551	.315	.354	1.023	3.5433	1.433	1.689	7/16	3.75
UCFC207-22	19431106	1-3/8														
UCFC207-23	19431107	1-7/16														
UCFC208-24	19431108	1-1/2														
UCFC208-25	19431109	1-9/16	5.709	4.724	3.338	.433	1.417	.551	.394	.354	1.023	3.937	1.622	1.937	7/16	4.41
UCFC209-26	19431110	1-5/8														
UCFC209-27	19431111	1-11/16	6.299	5.197	3.673	.394	1.496	.630	.472	.394	1.023	4.1339	1.583	1.937	1/2	5.95
UCFC209-28	19431112	1-3/4														
UCFC210-30	19431114	1-7/8														
UCFC210-31	19431115	1-15/16	6.496	5.433	3.842	.394	1.575	.630	.472	.551	1.102	4.3307	1.677	2.0315	1/2	6.39
UCFC210-32	19431200-10C	2														
UCFC211-32	19431200	2														
UCFC211-34	19431202	2-1/8	7.283	5.905	4.177	.512	1.653	.748	.472	.512	1.181	4.9213	1.827	2.189	5/8	9.26
UCFC211-35	19431203	2-3/16														
UCFC212-36	19431204	2-1/4														
UCFC212-38	19431206	2-3/8	7.677	6.299	4.453	.669	1.890	.748	.472	.591	1.417	5.315	2.232	2.563	5/8	10.89
UCFC212-39	19431207	2-7/16														
UCFC213-40	19431208	2-1/2	8.071	6.693	4.732	.630	1.929	.748	.551	.591	1.378	5.709	2.193	2.563	5/8	12.57
UCFC215-47	19431215	2-15/16														
UCFC215-48	19431300	3	8.661	7.244	5.122	.669	2.165	.748	.630	.669	1.535	6.2992	2.461	3.063	5/8	29.76

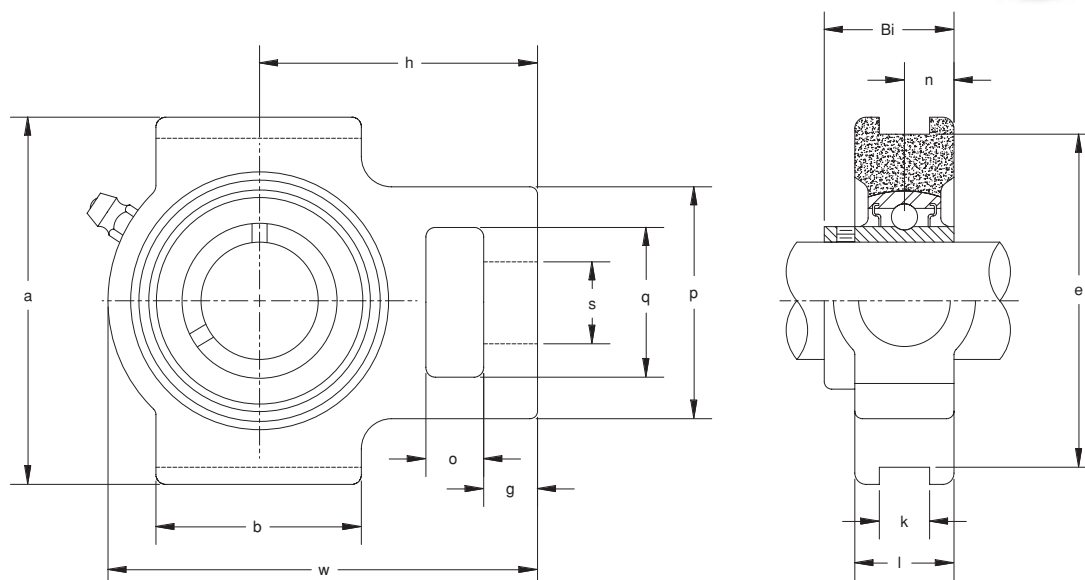


**MOUNTED
BALL BEARINGS**

Refer to the Moline List Price Book for pricing.

WIDE SLOT Take-up UCT 200 SERIES - NORMAL DUTY SCREW SET LOCKING

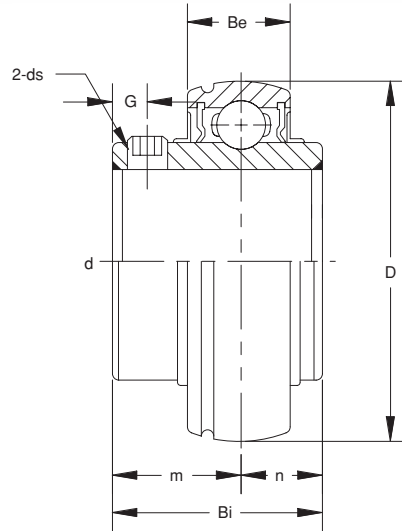
Moline
Bearing
Company



Unit #	Moline #	Shaft Dia.	Dimensions (in)														Weight Lbs.
			o	g	p	q	s	b	k	e	a	w	T	h	Bi	n	
UCT201-08	19451008	1/2	5/8	11/32	1-7/8	1-1/4	3/4	2	15/32	3	3-1/2	3-11/16	13/16	2-9/32	1.08	.453	1.50
UCT202-10	19451010	5/8															
UCT204-12	19451012	3/4	5/8	3/8	2	1-1/4	3/4	2	15/32	3	3-1/2	3-11/16	13/16	2-3/8	1.220	.550	1.85
UCT205-14	19451014	7/8															
UCT205-15	19451015	15/16	5/8	3/8	2	1-1/4	7/8	2	15/32	3	3-1/2	3-13/16	15/16	2-7/16	1.339	.563	1.76
UCT205-16	19451100	1															
UCT206-18	19451102	1-1/8															
UCT206-19	19451103	1-3/16	5/8	3/8	2-3/16	1-7/16	7/8	2-1/4	15/32	3-1/2	4	4-7/16	1-3/32	2-3/4	1.500	.626	2.42
UCT206-20	19451104-06C	1-1/4															
UCT207-20	19451104	1-1/4															
UCT207-21	19451105	1-5/16	5/8	1/2	2-1/2	1-7/16	7/8	2-1/2	15/32	3-1/2	4	5-1/16	1-3/16	3-1/16	1.689	.689	3.53
UCT207-22	19451106	1-3/8															
UCT207-23	19451107	1-7/16															
UCT208-24	19451108	1-1/2	3/4	5/8	3-1/4	1-15/16	1-1/8	3-1/4	5/8	4	4-1/2	5-11/16	1-5/16	3-1/2	1.937	.748	5.51
UCT208-25	19451109	1-9/16															
UCT209-26	19451110	1-5/8	3/4	5/8	3-1/4	1-15/16	1-1/8	3-1/4	5/8	4	4-5/8	5-11/16	1-3/8	3-7/16	1.937	.748	5.29
UCT209-27	19451111	1-11/16															
UCT209-28	19451112	1-3/4															
UCT210-30	19451114	1-7/8	3/4	5/8	3-1/4	1-15/16	1-1/8	3-3/8	11/16	4	4-5/8	5-7/8	1-15/32	3-9/16	2.031	.748	5.29
UCT210-31	19451115	1-15/16															
UCT210-32	19451200-10C	2															
UCT211-32	19451200	2	1	3/4	4	2-1/2	1-3/8	3-3/4	27/32	5-1/8	5-3/4	6-3/4	1-1/2	4-3/16	2.189	.874	9.04
UCT211-34	19451202	2-1/8															
UCT211-35	19451203	2-3/16															
UCT212-36	19451204	2-1/4	1-1/4	3/4	4	2-1/2	1-3/8	4	27/32	5-1/8	5-3/4	7-5/8	1-21/32	4-11/16	2.563	1.000	11.02
UCT212-38	19451206	2-3/8															
UCT212-39	19451207	2-7/16															
UCT213-40	19451208	2-1/2	1-1/4	13/16	4-3/8	2-3/4	1-5/8	4-3/4	1-1/32	5-15/16	6-9/16	8-13/16	1-3/4	5-3/8	2.563	1.000	15.43
UCT214-44	19451212	2-3/4	1-1/4	13/16	4-3/8	2-3/4	1-5/8	4-3/4	1-1/32	5-15/16	6-9/16	8-13/16	1-13/16	5-3/8	2.937	1.189	15.65
UCT215-47	19451215	2-15/16	1-1/4	13/16	4-3/8	2-3/4	1-5/8	4-3/4	1-1/32	5-15/16	6-9/16	9-1/8	1-7/8	5-1/2	3.062	1.311	16.50
UCT215-48	19451300	3															

Refer to the Moline List Price Book for pricing.

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Moline Bearing Company P.O. Box 509 St. Charles, IL 60174



Unit #	Moline #	Shaft Dia.	Dimensions (in)							Weight Lbs.
			D	Bi	Be	n	m	G	ds	
UC201-8	15400008	1/2	1.8504	1.2205	.6299	.5	.7205	.185	1/4-28	.45
UC202-10	15400010	5/8								
UC204-12	15400012	3/4								
UC205-14	15400014	7/8	2.0472	1.3386	.6693	.563	.7756	.2165	1/4-28	.42
UC205-15	15400015	15/16								
UC205-16	15400100	1								
UC206-18	15400102	1-1/8	2.4409	1.50	.748	.626	.874	.2165	1/4-28	.68
UC206-19	15400103	1-3/16								
UC206-20	15400104-06	1-1/4								
UC207-20	15400104	1-1/4	2.8346	1.689	.7874	.689	1.0	.2283	5/16-24	1.06
UC207-21	15400105	1-5/16								
UC207-22	15400106	1-3/8								
UC207-23	15400107	1-7/16								
UC208-24	15400108	1-1/2	3.1496	1.937	.8268	.748	1.189	.315	5/16-24	1.37
UC208-25	15400109	1-9/16								
UC209-26	15400110	1-5/8	3.3465	1.937	.8661	.748	1.189	.315	5/16-24	1.48
UC209-27	15400111	1-11/16								
UC209-28	15400112	1-3/4								
UC210-30	15400114	1-7/8	3.5433	2.0315	.9055	.748	1.2835	.3543	3/8-24	1.72
UC210-31	19521115	1-15/16								
UC210-32	15400200-10	2								
UC211-32	15400200	2	3.937	2.189	.9843	.874	1.315	.3543	3/8-24	2.27
UC211-34	15400202	2-1/8								
UC211-35	15400203	2-3/16								
UC212-36	15400204	2-1/4	4.3307	2.563	1.063	1.00	1.563	.4134	3/8-24	3.20
UC212-38	15400206	2-3/8								
UC212-39	15400207	2-7/16								
UC213-40	15400208	2-1/2	4.7244	2.563	1.1024	1.00	1.563	.4724	3/8-24	3.77
UC214-44	15400212	2-3/4	4.9213	2.937	1.1811	1.189	1.748	.4724	1/2-20	4.54
UC215-47	15400215	2-15/16	5.1181	3.063	1.1811	1.311	1.752	.4724	1/2-20	4.89
UC215-48	15400300	3								
UC218-55	15400307	3-7/16	6.299	3.78	1.457	1.563	2.217	.551	.472	10.05

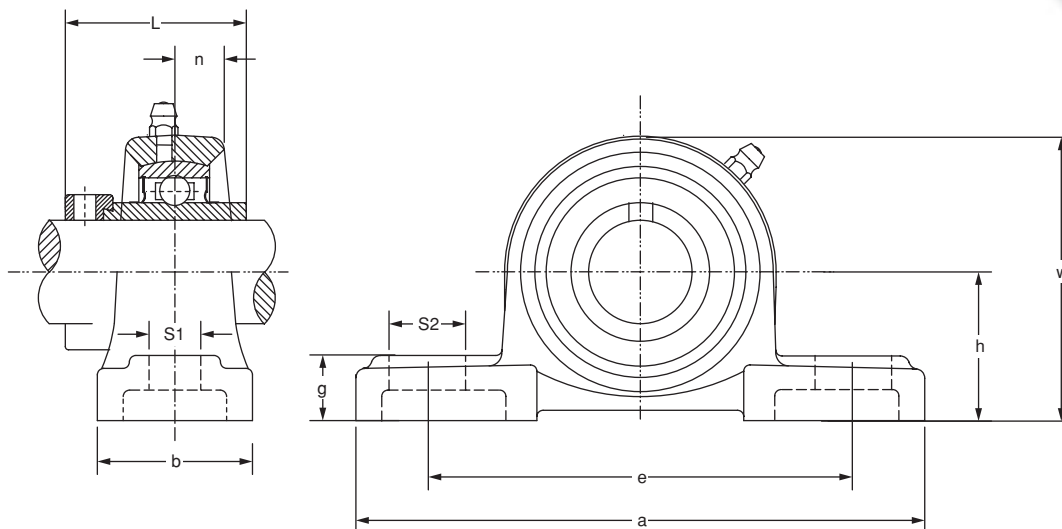


**MOUNTED
BALL BEARINGS**

Refer to the Moline List Price Book for pricing.

2-BOLT PILLOW BLOCK HCP 200 SERIES - NORMAL DUTY ECCENTRIC COLLAR LOCKING

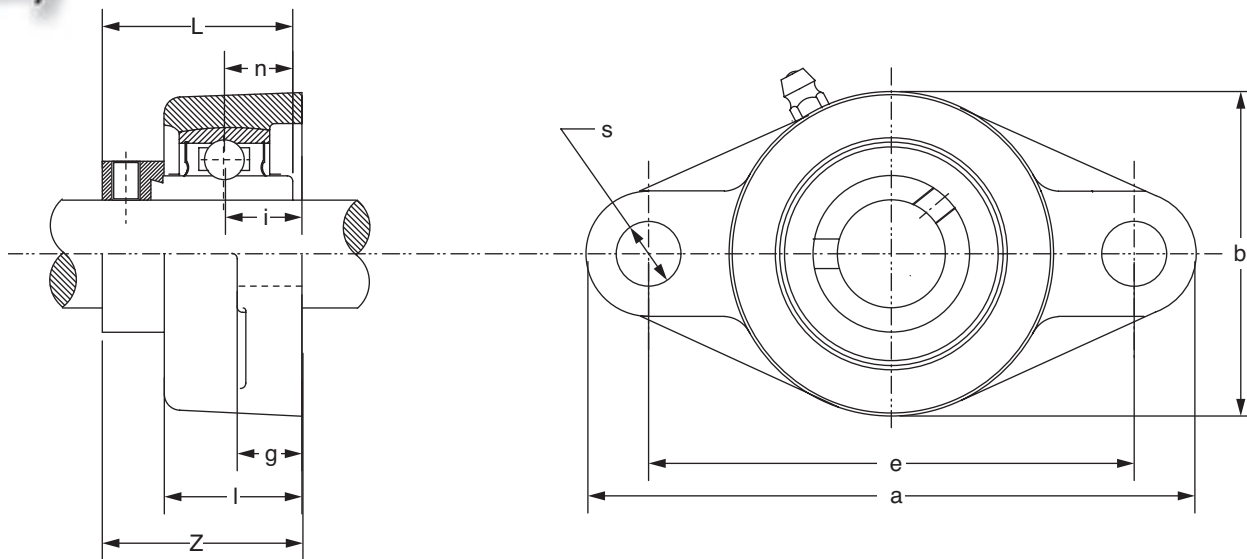
Moline
Bearing
Company



Unit #	Moline #	Shaft Dia.	Dimensions (in)										Bolt Size (inches)	Weight Lbs.
			h	a	e	b	S1	S2	g	w	L	n		
HCP204-12	19521012	3/4	1-5/16	5	3.779	1.456	1/2	.630	.551	2.511	1.713	0.669	3/8	1.59
HCP205-14	19521014	7/8	1-7/16	5-1/2	4-1/8	1-1/2	1/2	3/4	.590	2.736	1.744	0.685	3/8	1.76
HCP205-15	19521015	15/16												
HCP205-16	19521100	1												
HCP206-18	19521102	1-1/8	1-11/16	6.30	4-3/4	1.732	.551	3/4	.630	3.228	1.901	0.626	1/2	2.98
HCP206-19	19521103	1-3/16												
HCP206-20	19521104-06C	1-1/4												
HCP207-20	19521104	1-1/4	1-7/8	6.575	5	1-7/8	.590	3/4	.669	3.622	2.012	0.740	1/2	3.75
HCP207-21	19521105	1-5/16												
HCP207-22	19521106	1-3/8												
HCP207-23	19521107	1-7/16												
HCP208-24	19521108	1-1/2	1-15/16	7.09	5.354	2.047	.590	13/16	.709	3.858	2.216	0.842	1/2	4.41
HCP208-25	19521109	1-9/16												
HCP209-26	19521110	1-5/8	2-1/8	7.44	5-3/4	2-1/8	.590	13/16	.787	4.153	2.216	0.842	1/2	5.34
HCP209-27	19521111	1-11/16												
HCP209-28	19521112	1-3/4												
HCP210-30	19521114	1-7/8	2-1/4	8.031	6-1/4	2.244	3/4	.866	.827	4.417	2.468	0.968	5/8	6.06
HCP210-31	19521115	1-15/16												
HCP210-32	19521200-10C	2												
HCP211-32	19521200	2	2-1/2	8.543	6.771	2-3/8	3/4	.866	.866	4.901	2.807	1.090	5/8	7.85
HCP211-34	19521202	2-1/8												
HCP211-35	19521203	2-3/16												
HCP212-36	19521204	2-1/4	2-3/4	9.370	7.323	2.598	3/4	.984	.945	5.394	3.059	1.216	5/8	11.46
HCP212-38	19521206	2-3/8												
HCP212-39	19521207	2-7/16												
HCP213-40	19521208	2-1/2	3	10.315	8	2-3/4	.905	1.142	1.023	5.866	3.374	1.342	3/4	13.89
HCP214-44	19521212	2-3/4	3-1/8	10.472	8.268	2.834	.905	1.142	1.063	6.102	3.374	1.342	3/4	15.43
HCP215-47	19521215	2-15/16	3-1/4	10.787	8.543	2.913	.984	1.142	1.102	6.363	3.626	1.468	3/4	17.20
HCP215-48	19521300	3												

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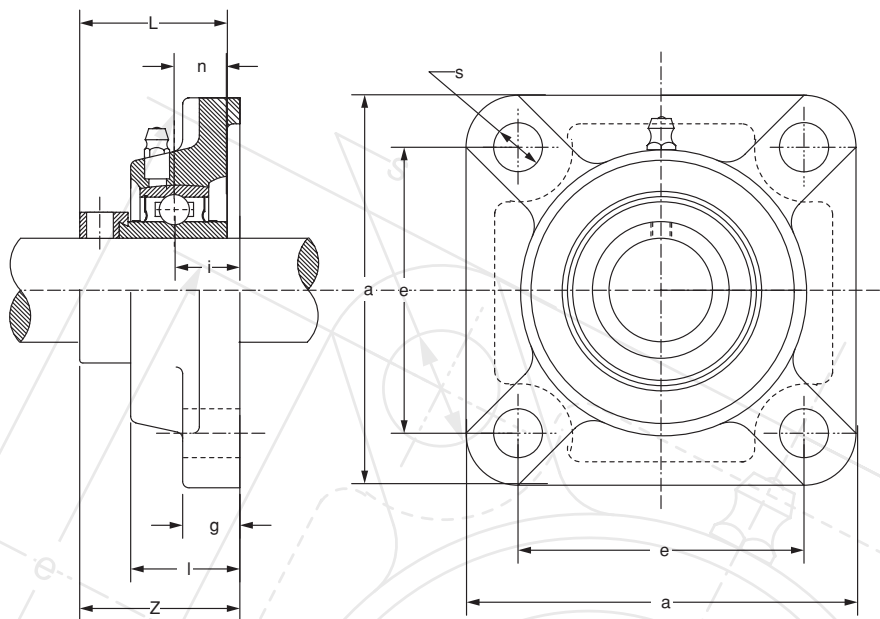
Call 630-584-4600 or 800-242-4633 Fax 630-584-1999 www.molinebearing.com sales@molinebearing.com
Moline Bearing Company P.O. Box 509 St. Charles, IL 60174



Unit #	Moline #	Shaft Dia.	Dimensions (in)										Bolt Size (inches)	Weight Lbs.
			a	e	i	g	l	s	b	Z	L	n		
HCFL204-12	19501012	3/4	4.489	3.543	.591	.433	1	.452	2.362	1.311	1.634	.669	3/8	1.54
HCFL205-14	19501014	7/8												
HCFL205-15	19501015	15/16	5.118	3.898	.630	.512	1.062	.452	2.677	1.406	1.689	.685	3/8	1.76
HCFL205-16	19501100	1												
HCFL206-18	19501102	1-1/8												
HCFL206-19	19501103	1-3/16	5.827	4.606	.709	.512	1.220	.452	3-1/8	1.583	1.894	.716	3/8	2.64
HCFL206-20	19501104-06C	1-1/4												
HCFL207-20	19501104	1-1/4												
HCFL207-21	19501105	1-5/16												
HCFL207-22	19501106	1-3/8	6.338	5.118	.748	.551	1.338	.551	3-9/16	1.748	2.020	.740	1/2	3.53
HCFL207-23	19501107	1-7/16												
HCFL208-24	19501108	1-1/2												
HCFL208-25	19501109	1-9/16	6.890	5.669	.827	.551	1.417	.551	3-15/16	2.016	2.201	.842	1/2	4.19
HCFL209-26	19501110	1-5/8												
HCFL209-27	19501111	1-11/16	7.401	5.827	.866	.630	1.496	.709	4-1/4	2.055	2.240	.842	5/8	5.07
HCFL209-28	19501112	1-3/4												
HCFL210-30	19501114	1-7/8												
HCFL210-31	19501115	1-15/16	7.756	6.181	.866	.630	1.575	.709	4-1/2	2.150	2.366	.969	5/8	5.73
HCFL210-32	19501200-10C	2												
HCFL211-32	19501200	2												
HCFL211-34	19501202	2-1/8	8.819	7.244	.984	.709	1.693	.709	5-1/8	2.299	2.701	1.091	5/8	8.38
HCFL211-35	19501203	2-3/16												
HCFL212-36	19501204	2-1/4												
HCFL212-38	19501206	2-3/8	9.842	7.953	1.142	.709	1.890	.709	5-1/2	2.705	2.984	1.216	5/8	10.58
HCFL212-39	19501207	2-7/16												
HCFL213-40	19501208	2-1/2	10.157	8.268	1.181	.787	1.968	.905	6-1/8	2.744	3.213	1.342	3/4	13.23
HCFL214-44	19501212	2-3/4	10.433	8.504	1.22	.787	2.126	.905	6-5/16	2.969	3.252	1.342	3/4	13.89
HCFL215-47	19501215	2-15/16												
HCFL215-48	19501300	3	10.827	8.858	1.339	.866	2.165	.905	6-1/2	3.091	3.496	1.468	3/4	15.87

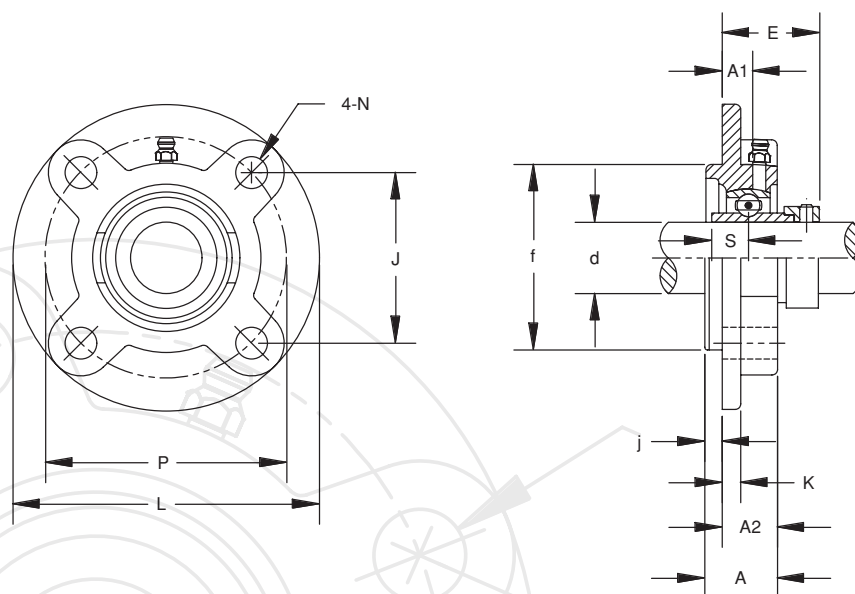
Refer to the Moline List Price Book for pricing.

SQUARE FLANGE
HCF 200 SERIES - NORMAL DUTY ECCENTRIC COLLAR LOCKING



Unit #	Moline #	Shaft Dia.	Dimensions (in)									Bolt Size (inches)	Weight Lbs.
			a	e	i	g	l	s	Z	L	n		
HCF204-12	19511012	3/4	3.386	2.520	0.591	.433	1	.453	1.311	1.634	.669	3/8	1.39
HCF205-14	19511014	7/8	3-3/4	2-3/4	.630	.512	1.063	.453	1.406	1.689	.685	3/8	1.76
HCF205-15	19511015	15/16											
HCF205-16	19511100	1											
HCF206-18	19511102	1-1/8	4-1/4	3.267	.709	.512	1.220	.453	1.583	1.894	.716	3/8	2.64
HCF206-19	19511103	1-3/16											
HCF206-20	19511104-06C	1-1/4											
HCF207-20	19511104	1-1/4	4.606	3.622	.748	.591	1.339	.551	1.748	2.020	.740	1/2	3.53
HCF207-21	19511105	1-5/16											
HCF207-22	19511106	1-3/8											
HCF207-23	19511107	1-7/16											
HCF208-24	19511108	1-1/2	5.118	4.016	.827	.591	1.417	.551	2.016	2.201	.842	1/2	4.19
HCF208-25	19511109	1-9/16											
HCF209-26	19511110	1-5/8	5.394	4.134	.866	.630	1.496	.630	2.055	2.240	.842	1/2	5.07
HCF209-27	19511111	1-11/16											
HCF209-28	19511112	1-3/4											
HCF210-30	19511114	1-7/8	5.630	4.370	.866	.630	1.574	.709	2.150	2.366	.969	1/2	5.73
HCF210-31	19501115	1-15/16											
HCF210-32	19511200-10C	2											
HCF211-32	19511200	2	6.378	5.118	.984	.709	1.693	.709	2.299	2.701	1.091	5/8	8.38
HCF211-34	19511202	2-1/8											
HCF211-35	19511203	2-3/16											
HCF212-36	19511204	2-1/4	6.890	5.630	1.142	.709	1.890	.709	2.705	2.984	1.216	5/8	10.58
HCF212-38	19511206	2-3/8											
HCF212-39	19511207	2-7/16											
HCF213-40	19511208	2-1/2	7.362	5.866	1.181	.866	1.968	.709	2.744	3.213	1.342	5/8	13.23
HCF214-44	19511212	2-3/4	7.598	5.984	1.220	.866	2.125	.709	2.969	3.252	1.342	5/8	13.89
HCF215-47	19511215	2-15/16 3	7-7/8	6.259	1.339	.866	2.205	.709	3.091	3.496	1.468	5/8	15.87
HCF215-48	19511300												

Refer to the Moline List Price Book for pricing.



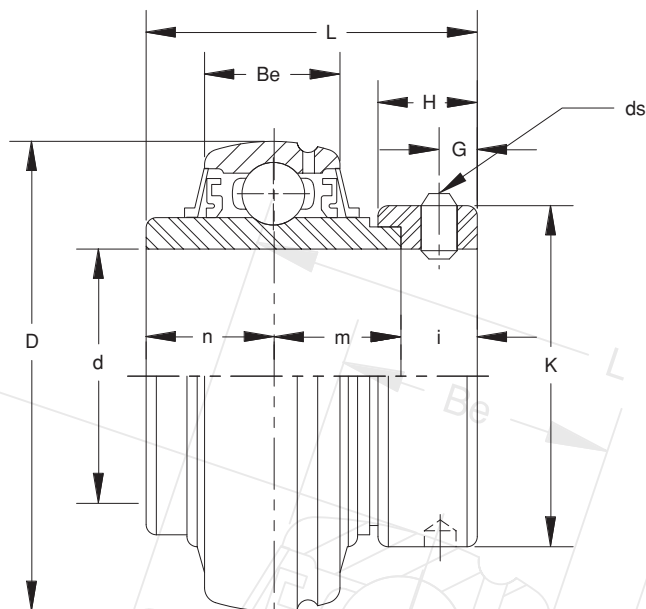
Unit #	Moline #	Shaft Dia.	Dimensions (in)												Bolt Size (in)	Wt Lbs.
			L	P	J	A2	A	N	j	K	A1	f	E	Bi		
HCFC201-8 HCFC202-10	19531008 19531010	1/2 5/8	3.543	2.756	1.949	.394	.805	.394	.157	.197	.748	2.4409	1.315	1.0787	3/8	1.23
HCFC204-12	19531012	3/4	3-15/16	3.701	2.169	.394	1	.453	.197	.236	.807	2.4409	1.437	1.2205	3/8	1.68
HCFC205-14 HCFC205-15 HCFC205-16	19531014 19531015 19531100	7/8 15/16 1	4.527	3.543	2.504	.394	1.063	.472	.236	.275	.827	2.7559	1.453	1.3386	3/8	2.12
HCFC206-18 HCFC206-19 HCFC206-20	19531102 19531103 19531104-06	1-1/8 1-3/16 1-1/4	4.921	3.937	2.783	.394	1.220	.472	.315	.315	.905	3.1496	1.580	1.50	3/8	3.02
HCFC207-20 HCFC207-21 HCFC207-22 HCFC207-23	19531104 19531105 19531106 19531107	1-1/4 1-5/16 1-3/8 1-7/16	5.315	4.331	3.063	.433	1.338	.551	.315	.354	1.023	3.5433	1.705	1.689	7/16	3.75
HCFC208-24 HCFC208-25	19531108 19531109	1-1/2 1-9/16	5.709	4.724	3.338	.433	1.417	.551	.394	.354	1.023	3.937	1.807	1.937	7/16	4.41
HCFC209-26 HCFC209-27 HCFC209-28	19531110 19531111 19531112	1-5/8 1-11/16 1-3/4	6.299	5.197	3.673	.394	1.496	.630	.472	.394	1.023	4.1339	1.768	1.937	1/2	5.95
HCFC210-30 HCFC210-31 HCFC210-32	19531114 19531115 19531200-10C	1-7/8 1-15/16 2	6.496	5.433	3.842	.394	1.575	.630	.472	.551	1.102	4.3307	1.894	2.0315	1/2	6.39
HCFC211-32 HCFC211-34 HCFC211-35	19531200 19531202 19531203	2 2-1/8 2-3/16	7.283	5.905	4.177	.512	1.653	.748	.472	.512	1.181	4.9213	2.228	2.189	5/8	9.26
HCFC212-36 HCFC212-38 HCFC212-39	19531204 19531206 19531207	2-1/4 2-3/8 2-7/16	7.677	6.299	4.453	.669	1.890	.748	.472	.591	1.417	5.315	2.512	2.563	5/8	10.89
HCFC213-40	19531208	2-1/2	8.071	6.693	4.732	.630	1.929	.748	.551	.591	1.378	5.709	2.661	2.563	5/8	12.57
HCFC215-47 HCFC215-48	19431215 19431300	2-15/16 3	8.661	7.244	5.122	.669	2.165	.748	.630	.669	1.535	6.2992	2.866	3.063	5/8	29.76

Refer to the Moline List Price Book for pricing.

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Unit #	Moline #	Shaft Dia.	Dimensions in inches										Weight Lbs.
			D	L	Be	n	m	i	K	H	G	ds	
HC204-12	15500012	3/4	1.8504	1.7126	.6693	.6693	.6693	.374	1.311	.5315	.189	1/4-28	.46
HC205-14	15500014	7/8	2.0472	1.7441	.6693	.685	.685	.374	1.50	.5315	.189	1/4-28	.51
HC205-15	15500015	15/16											
HC205-16	15500100	1											
HC206-18	15500102	1-1/8	2.4409	1.9016	.748	.7165	.7165	.4685	1.752	.626	.2362	5/16-24	.82
HC206-19	15500103	1-3/16											
HC207-20	15500104	1-1/4	2.8346	2.0118	.7874	.7402	.7402	.5315	2.189	.689	.2677	5/16-24	1.32
HC207-21	15500105	1-5/16											
HC207-22	15500106	1-3/8											
HC207-23	15500107	1-7/16											
HC208-24	15500108	1-1/2	3.1496	2.2165	.8268	.8425	.8425	.5315	2.374	.7205	.2677	5/16-24	1.68
HC208-25	15500109	1-9/16											
HC209-26	15500110	1-5/8	3.3465	2.2165	.8661	.8425	.8425	.5315	2.752	.7205	.2559	5/16-24	1.74
HC209-27	15500111	1-11/16											
HC209-28	15500112	1-3/4											
HC210-30	15500114	1-7/8	3.5433	2.4685	.9055	.9685	.9685	.5315	2.752	.7205	.2559	5/16-24	2.01
HC210-31	19500115	1-15/16											
HC210-32	15500200-10C	2											
HC211-32	15500200	2	3.937	2.811	.9449	1.0906	1.0906	.6299	3.00	.8189	.315	3/8-24	2.78
HC211-34	15500202	2-1/8											
HC211-35	15500203	2-3/16											
HC212-36	15500204	2-1/4	4.3307	3.063	1.0236	1.2165	1.2165	.6299	3.315	.874	.323	3/8-24	4.12
HC212-38	15500206	2-3/8											
HC212-39	15500207	2-7/16											
HC213-40	15500208	2-1/2	4.7244	3.374	1.063	1.3425	1.3425	.689	3.3858	.9252	.315	3/8-24	4.65
HC214-44	15500212	2-3/4	4.921	3.374	1.181	1.342	1.4685	.689	3.811	.9252	.354	3/8-24	6.02
HC215-47	15500215	2-15/16	5.1181	3.626	1.1811	1.4685	1.4685	.689	4.0157	.3546	.3546	3/8-24	6.87
HC215-48	15500300	3											



Refer to the Moline List Price Book for pricing.

APPLICATION GUIDE FOR MOUNTED BALL BEARINGS

MOUNTING INSTRUCTIONS

Proper mounting of ball bearing units is critical to unit performance. Failure to follow accepted mounting practice may result in poor performance and short bearing life.

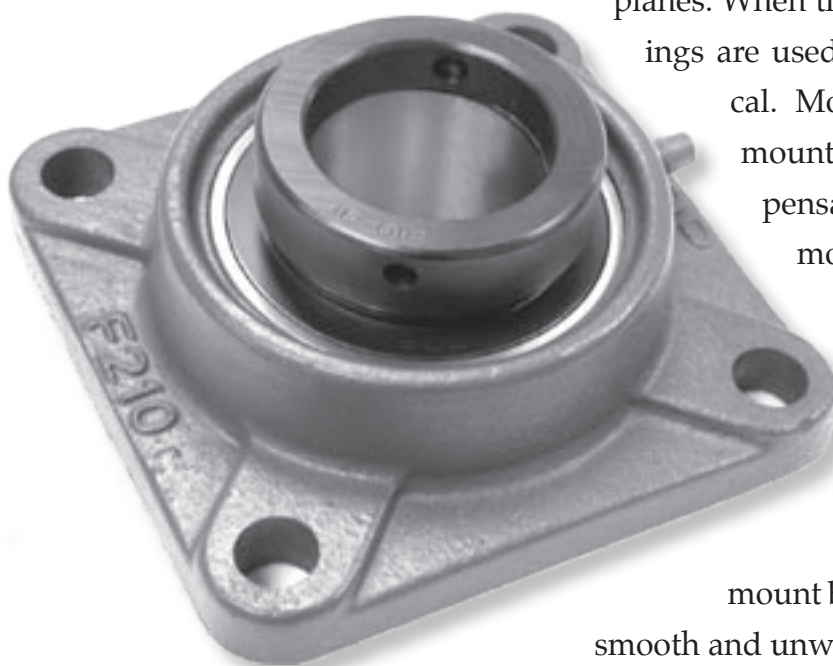
Good engineering and design practice does not recommend the application of more than two bearings to support any shaft. Where more than two bearings are used to support the same shaft, it is possible to induce heavy bearing overloads. In these cases, extreme care must be taken to line up bearings in both the vertical and horizontal

planes. When the recommended two bearings are used, alignment is not as critical. Moline Bearing self-aligning mounted bearing units will compensate for minor differences in mounting structure.

For best results, use turned and ground shafts that are free of rough spots and burrs.

If an old shaft is used, mount bearing units on a relatively smooth and unworn section.

Prior to mounting, clean both the shaft and the bearing bore. Coat the shaft with a small amount of oil. Slide the bearing unit on the shaft. Do not hammer the ends of the inner race. If necessary to



**MOUNTED
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apply some force in mounting, use a soft metal bar or pipe against the inner race only. Tap the bearing unit into place.

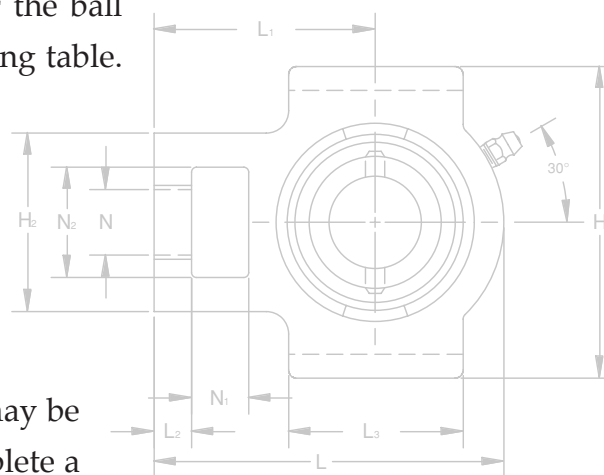


Tighten the two set screws securely to lock the bearing to the shaft. In applications where the bearing is subjected to heavy vibration, shock loads, or heavy thrust loads, then it may be desirable to file the shaft flat or drill the shaft slightly in the area where the set screws will contact.

MAXIMUM SPEED

The maximum speed limits listed for the ball bearings can be found in the load rating table.

These numbers should be used as a guide and considered along with other factors affecting bearing operation. Load characteristics, bearing lubrication, and temperature factors all influence bearing operation. It is possible that cataloged speed limits may be exceeded after factory engineers complete a complete application analysis.



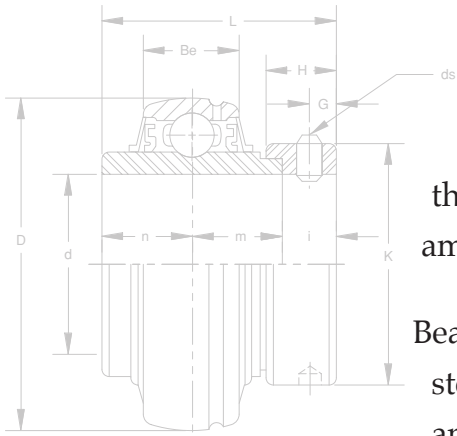
LUBRICATION

The proper lubrication of ball bearing units is critical in order to attain maximum bearing life expectancy. Moline ball bearing units need to be lubricated prior to use. They should be re-lubricated periodically, depending on the environment the bearing is exposed to. The following table can be used as a general guide. Experience will determine the best interval for each specific application.

LUBRICATION GUIDE

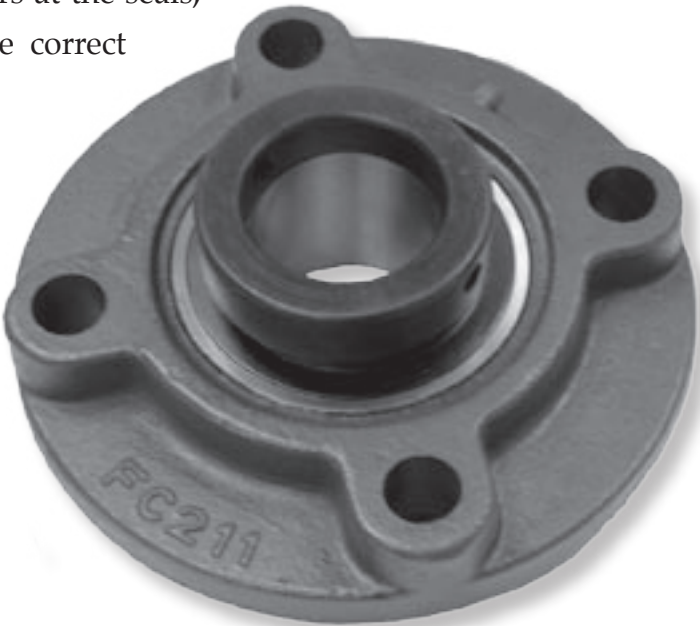
Operating Conditions	Bearing Temperatures	Grease Interval
Clean	32°F to 120°F	6-12 Months
	120°F to 150°F	1-3 Months
	150°F to 200°F	1-4 Weeks
Dirty	32°F to 150°F	1-4 Week
	150°F to 200°F	Daily - 1 Week
Moisture	32°F to 200°F	Daily - 1 Week

The amount and type of lubricant used will affect bearing life. Lack of lubricant can lead to premature surface fatigue failures of balls and races. Over lubrication can damage seals and result in premature failure from contamination due to the inability of damaged seals to keep foreign material out of the bearing.



When lubricating bearings add grease slowly while the shaft is rotating. When the first sign of grease appears at the seals, the bearing will contain the correct amount of lubricant.

Bearings should not run in steady operation over 200F and should not exceed 225F for intermittent operation.



For unusual lubrication requirements or severe duty applications, contact Moline Bearing engineering for recommendations.

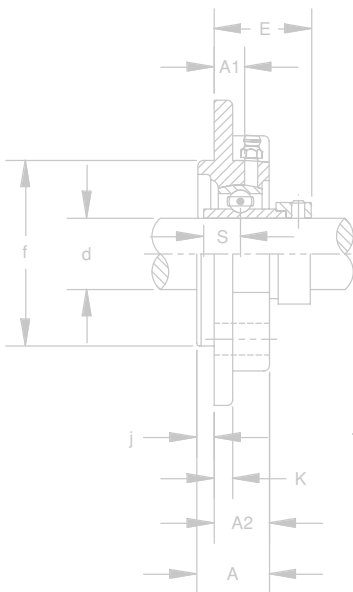
BEARING SELECTION

Selection of the proper Moline bearing unit for a determined speed and load can be made by referring to the load rating tables. Proper selection is made by finding a bearing having the desired bore size which has a load rating equal to or greater than the radial or equivalent radial load required for the application.



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The ratings shown in the rating tables are based on an average bearing life of 2500 hours. Average bearing life is approximately 5 times L10 life and is the life which may be expected from 50% or more of a given group of bearings operating under identical load conditions. Life expectancies for other than 2,500 hours average life may be determined by using the rating modification factors listed.



BEARING LOADS

Radial loads and thrust force in combination are the principal load components of bearing applied loads. Moline ball bearing unit ratings are based upon the radial load capacity of the bearing. For applications where bearings are required to absorb thrust loads in addition to normal radial loads, the following considerations must be made concerning the magnitude of the thrust force.

When thrust loads are less than half the radial load, the equivalent load should be considered to be the same as the radial load. If the thrust load is equal to or greater than 1/2 the radial load, the equiv-



alent load is determined by adding the two loads together. For thrust loads equal to or greater than the radial load, consult the factory.

Example 1: Radial Load Service Life

Select a mounted bearing flange block to meet the following application requirements.

- a. Shaft diameter of 1 inch
- b. Shaft speed is 1500 RPM
- c. Radial load requirement is 300 pounds
- d. Average life requirement is 5000 hours.

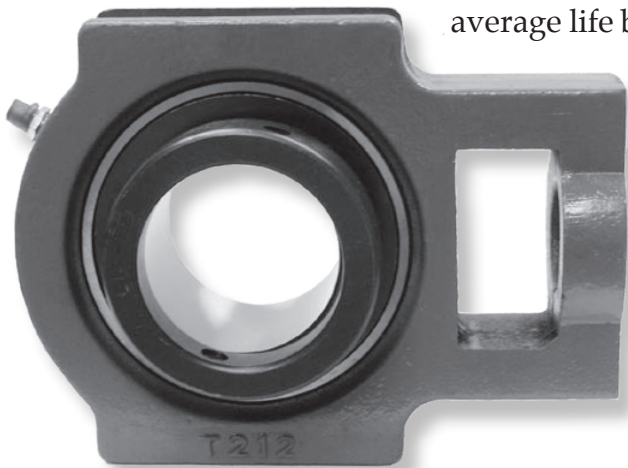
From the rating table located on the previous page, locate the series bearing corresponding to a one-inch shaft diameter and follow that line to the 1500 RPM column. The load capacity in this case is 860 pounds. These published radial load capacities are based on an average life of 2,500 hours and must be

modified to suit the application requirement 5,000 hours average life by using the proper multiplier from the chart

below. Calculate the equivalent radial load capacity for 5,000 hours average life expectancy as follows:

$$\begin{array}{r} 860 \text{ Lbs. radial capacity} \\ \times .794 \text{ 5,000 hours avg. life factor} \\ \hline 683 \text{ Lbs. radial capacity for} \\ \text{5,000 hours avg. life} \end{array}$$

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Example 2: Combination Radial and Thrust Load Requirement

Select a mounted pillow block to meet the following specifications.

- Shaft diameter of 1-3/16
- Combination load is applied consisting of
Radial Load of 400 pounds
Thrust Load is 250 pounds
- Shaft speed is 1000 RPM
- The average life requirement is 2,500 hours

From the load rating table on the previous page, locate the line with the series bearing corresponding to 1-3/16 inch shaft size and follow this line to the right to the 1000 RPM column. The radial load capacity for the bearing is 1389 pounds.



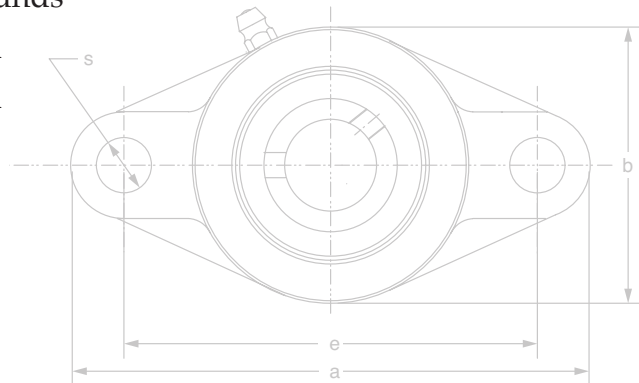
Since the application average life is what the catalog rating charts are based on there's no need to apply further modification factors.

Because the applied thrust load of 250 pounds is more than half of the applied radial load of 400 pounds, these loads must be added together to obtain the equivalent load requirement.

Equivalent load:

$$400 \text{ Lbs.} + 250 \text{ Lbs.} = 650 \text{ Lbs.}$$

The equivalent radial requirement of 650 pounds is less than the rated capacity, so the bearing size desired can be used.





RADIAL LOAD RATINGS IN POUNDS

Information in this table shows load ratings at various RPM based on 500 hours minimum life to 2500 hours average life.

Bearing #	Radial Load Rating at Various RPM											
UC/HC	50	100	250	500	750	1000	1200	1500	2000	2400	3800	5000
201-204	2469	1962	1433	1146	992	904	860	794	727	683	595	529
205	2690	2138	1587	1257	1102	1014	926	860	794	749	639	551
206	3747	2976	2204	1741	1521	1389	1301	1212	1102	1036	904	816
207	4960	3924	2888	2293	2006	1830	1675	1587	1455	1367	1190	-----
208	5600	4453	3285	2601	2271	2072	1940	1808	1631	1543	1345	-----
209	6173	4894	3593	2866	2491	2271	2138	1984	1808	1697	-----	-----
210	6768	5357	3946	3130	2734	2491	2315	2182	1984	1852	-----	-----
211	8333	6614	4872	3924	3593	3064	2888	2690	2447	2293	-----	-----
212	10097	8002	5908	4674	4100	3726	3505	3241	2954	2778	-----	-----
213	11023	8752	6437	5115	4475	4056	3814	3549	3219	-----	-----	-----
214	11971	9502	7010	5555	4850	4409	4144	3858	3505	-----	-----	-----
215	12985	10295	7583	6019	5247	4784	4497	4167	3792	-----	-----	-----



MOUNTED BALL BEARINGS

MODIFICATION FACTORS FOR AVERAGE SERVICE LIFE AND LOAD CONDITIONS

Load Conditions	Average Life (Hours)													
	2,500	3,000	4,000	5,000	6,000	7,000	8,000	10,000	15,000	20,000	25,000	30,000	40,000	50,000
Steady Load	1.00	.941	.855	.794	.747	.709	.679	.630	.550	.500	.464	.437	.397	.368
Light Shock	.900	.847	.770	.715	.672	.639	.611	.567	.495	.450	.418	.393	.357	.331
Moderate Shock	.700	.659	.599	.556	.523	.500	.475	.441	.385	.350	.325	.306	.278	.258

Factors are used to modify for loads that are not steady or for average life requirements beyond the standard 2500 hours shown in the Radial Load Rating table.

NORMAL DUTY - 200 SERIES

MOLINE	DODGE	BROWNING	SEALMASTER	HUB CITY	FAFNIR	FYH
UCP 2-Bolt Pillow Block	SC-1	VPS	RP	PB251	SAS	UCP
HCP 2-Bolt Pillow Block Eccentric	SXR-1	VPE	RPE	PB221	RAS	NAP
UCF 4-Bolt Flange	SC-4	VF4S	RF	FB250	SCJ	UCF
HCF 4-Bolt Flange Eccentric	SXR-4	VF4E	RFE	FB220	RCJ	NANF
UCFL 2-Bolt Flange	SC-2	VF2S	RFT	FB260	SCJT	UCFL
HCFL 2-Bolt Flange	SXR-2	VF2E	RFTE	FB230	RCJT	NANFL
UCFC Piloted Flange	FCSC	-----	-----	-----	-----	UCFC2
HCFC Piloted Flange	-----	-----	-----	-----	-----	-----
UCT Wide Slot Take-Up	WSTUSC	VTWS	RT	WSTU250	VTU	UCT
HCT Wide Slot Take-Up	WSTUSXR	VTWE	RT-E	WSTU220	RTU	NAT



**MOUNTED
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Dimensionally compatible with most mounted ball bearings. However, some dimensional variations may exist. Please verify your engineering data or contact the factory with any questions you may have.