



Hi-Light USA

MANUFACTURERS OF HIGH-QUALITY BALL BEARINGS AND POWER TRANSMISSION PARTS
PRODUCT CATALOG



Hi-Light USA

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About Us



Hi-Light USA is a major manufacturer and supplier of ball bearings and power transmission equipment. Since its beginning in 1992, Hi-Light USA has grown into one of the leading suppliers in the industry. Key factors that have contributed to our growth is our dedication to the fundamentals of innovative design, competitive pricing, exceptional customer service, and product availability.

The continued expansion of our ball bearings, mounted units and power transmission product lines, along with our attention to detail and quality, has allowed Hi-Light USA to gain broad acceptance to a diverse customer base.

We support a nationwide base of Industrial Distributors, and Original Equipment Manufacturers as well as Agricultural Equipment Manufacturers and Wholesalers.

Located in Memphis, TN we are at the center of one of the largest distribution hubs in the country and with our extensive inventory levels and unlimited shipping options, we are able to provide our customers with accurate on-time deliveries.

With over 100 years of combined experience in Bearings and Power Transmission, Hi-Light USA is fully capable of designing and producing products to fit your specific application. Our experienced staff of engineers and customer service representatives look forward to providing you with any assistance needed.



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MANUFACTURERS OF HIGH-QUALITY BALL BEARINGS AND POWER TRANSMISSION PARTS

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MANUFACTURERS OF HIGH-QUALITY BALL BEARINGS AND POWER TRANSMISSION PARTS

Your Power Transmission Specialists



MOUNTED BALL BEARINGS



ANSI ROLLER CHAIN



**AGRICULTURAL DISC BEARINGS
AND AG RADIALS**



RADIAL BALL BEARINGS



SHAFT COLLARS



STAMPED STEEL FLANGES



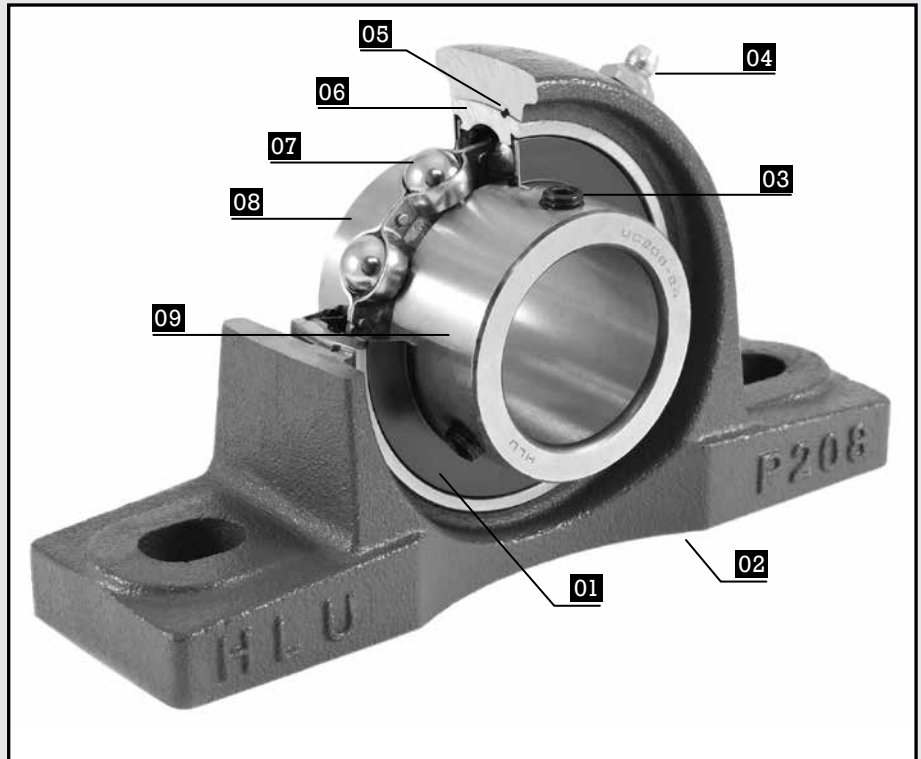
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MANUFACTURERS OF HIGH-QUALITY BALL BEARINGS AND POWER TRANSMISSION PARTS

Mounted Ball Bearing Units

PILLOW BLOCK FEATURES

- 01** This HLU unit features a NBR rubber seal. The slinger rotates with the inner ring & the centrifugal force generated provides excellent grease retention & protection from contaminants.
- 02** Rugged one piece SOLID base housing.
- 03** Knurled cup point set screws.
- 04** Steel grease fitting.
- 05** Housing and bearing grease groove.
- 06** Spherical, self aligning outer ring.
- 07** 52100 Chromium steel grade 10 balls.
- 08** 52100 Chromium rings and balls. Tempered inner and outer rings to relieve stress and increase fatigue life.
- 09** Zone annealing of inner ring to soften metal and prevent cracking around set screw area.



BEARING INSERT FEATURES

AVAILABLE SEALS

K-Type Seal B-Type Seal R3-Type Seal

UC STYLE INSERT SHOWN

HI-LIGHT USA BEARING FEATURES

The Hi-Light USA mounted bearing and adapter insert line offers you a vast selection of quality bearings in many housing configurations. We have many years of experience working in the Industrial and Agricultural industries with Distributors and OEM customers. This experience has allowed us to develop one of the most respected bearing lines in the industry. Hi-Light USA radial ball bearings conform to ISO15:2011 standards for boundary dimensions.

MATERIALS OF RINGS AND BALLS

High Carbon Chromium Steel 52100

Inner and outer races and balls are made of high carbon chromium 52100 vacuum degassed bearing steel. Vacuum degassing removes gases and impurities from the steel that could lead to fatigue cracks and premature failure.

Chemical composition of High Carbon Chromium Steel								
Country	Steel No.	C	Si	Mn	Cr	Mo	P	S
China	GCr15	0.95~1.05	0.15~0.35	0.25~0.45	1.40~1.65	≤0.80	≤0.025	≤0.025
Germany	100Cr6	0.90~1.05	0.15~0.35	0.25~0.45	1.40~1.65		≤0.030	≤0.025
USA	52100	0.98~1.10	0.15~0.35	0.25~0.45	1.30~1.60	≤0.10	≤0.025	≤0.025
Japan	SUJ2	0.95~1.10	0.15~0.35	≤0.50	1.30~1.60		≤0.025	≤0.025

Stainless Steel and Coatings

Stainless Steel rings and balls made from #440C stainless steel are recommended for corrosion resistant applications. Black oxide coatings are also available.

MATERIALS OF CAGES

Pressed Steel Cages

Pressed steel cages are used in most HLU ball bearings. The majority of them are made of cold or hot rolled low carbon sheet steel. These light weight cages have high strength and can be variously surface-treated to reduce friction and wear.

Polymer Material Cages

Polyamide PA66 - GF25 is the most common material for HLU injected molded cages. The Polyamide with 25% glass fiber reinforcement has favorable properties of strength, elasticity, and anti-corrosion along with good sliding and dry running properties that prolong bearing life. The recommended operating temperature ranges from -40°C to +120°C (-40° to +248°F) and very short intervals up to +160°C (+320°F). PA66-25 does age quicker at higher temperature ranges.

MATERIALS OF SEALS

Nitrile-Butadiene Rubber (NBR or Buna-N)

This is the standard rubber used on all Hi-Light USA seals for Insert bearings, Agricultural, and Radial Ball bearings. NBR has excellent resistance to a wide variety of chemicals as well as oil and water. The working temperature of NBR is -30°C to +100°C (-22°F to +212°F) for long periods of time and up to +120°C (+248°F) for shorter periods of time.

Silicone Rubber

Silicone Rubber has excellent high and low temperature capabilities with a working temperature range of -40°C to +250°C (-40°F to +482°F). Silicone Rubber also has good electrical properties, chemical stability, ozone resistance, and flame retardancy. Silicone resists oil better than NBR at temperatures above 100°C (212°F). Silicone Rubber is the standard rubber material on seals for HLU Stainless Steel Bearing Inserts.

Fluorine Rubber

Fluorine Rubber also has excellent high and low temperature capabilities. The working temperature range is -40°C to +300°C (-40°F to +572°F). This material can operate at long periods at temperatures under 220°C (428°F) and shorter periods at temperatures from 220°C to 300°C (428°F to 572°F). It has excellent mechanical properties, heat resistance, and corrosion resistance.

LUBRICATION

Bearings must be adequately lubricated with the correct lubrication for the application to form a film between the rolling elements, raceways, and cages. The film separates the contact surfaces to prevent direct metal contact, reduce wear, friction and protect bearing surfaces against corrosion. Therefore, it is important to choose a suitable lubricant and lubrication method for the bearing application.

The main lubricants for bearings are grease and oil lubrication. The choice of lubricant depends on the operating situations such as temperature range, speed, and operating environment.

Grease Lubrication

Grease lubrication is the most widely used lubrication for bearings as it can be more easily retained in the bearing, especially when you have inclined or vertical shafts. HLU insert bearings come prefilled with Shell Gadus S2 V100 2 (formerly Shell Alvania RL2) grease of NLGI #2 consistency with operating temperature of -30° C to 130° C (-22 to 266 F). HLU can also offer other greases for lower and higher temperature applications. Refer to the grease chart below for these options.

Generally, the service life of grease is longer than the bearing life. However, when operating at extreme temperatures, speed, load, and long periods of operation, or where both wet and dirty operations exist, grease relubrication is necessary. On normal speed applications, the bearing should be kept 1/3 to 1/2 full. Only in low speed applications can the bearing be full of grease. Relubrication intervals are difficult to determine, but important. Please consult your lubrication provider.

Adding too much grease to the bearing could cause the seals to blow out or cause heat build up which could cause damage to the bearing. In most cases only a couple of shots of grease are necessary depending on the application and conditions. Hi-Light USA recommends using a manual low pressure grease gun . Grease guns vary in their output from .5 to 3 grams per pump. It is important to know your grease gun output. To calculate this pump the grease gun 10 strokes or shots onto a small piece of paper. Weigh this and divide by 10 to get your output per shot in grams or ounces. We do not recommend a pneumatic grease gun as this can easily blow out the seals. Always try to grease your bearings while in operation as this disperses the grease. HLU bearings are prefilled at the factory approximately 35% fill and ready for operation. There is no need to grease the bearings before operation. Depending on your application and experience in grease loss try to keep the bearing about 1/2 full. HLU Disc Harrow Bearings are prefilled at the factory with about 80% grease fill since these bearings are used in harsh environments at low speeds. See the table below for grease capacity of HLU bearing inserts.

Common Greases and Their Characteristics					
Manufacturer	Grease Name	Working Temperature Range (degrees C)	Base Oil	Thickener	Color
Mobil	FM222	-20 to + 120 (-4 to +248F)	Synthetic	Aluminum Complex	White
Shell	Alvania RLQ2	-30 to + 120 (-22 to +248F)	Mineral	Lithium	Amber
Shell	Alvania RL2	-30 to + 130 (-22 to +266F)	Mineral	Lithium	Amber
Chevron	SRI#2	-30 to + 177 (-22 to +350F)	Petroleum	Polyurea	Dark Green
Mobil	Mobilegrease 28	-54 to + 177 (-65 to +350F)	Synthetic	Clay (non-soap)	Dark Red
Mobil	Beacon 325	-50 to + 120 (-58 to +248F)	Synthetic	Lithium	Tan
Mobil	Polyrex EM	-30 to + 177 (-22 to +350F)	Mineral	Polyurea	Blue
Kyodo	Multemp SRL	-50 to + 150 (-58 to +302F)	Synthetic	Lithium	Oyster White

Grease Capacity of HLU Bearing Inserts (% fill in grams)							
Outer Ring Size	30%	35%	40%	50%	60%	80%	100%
203	0.54	0.63	0.72	0.9	1.08	1.44	1.8
204	1.1	1.3	1.5	1.9	2.2	3.0	3.7
205	1.2	1.4	1.6	2.0	2.3	3.1	3.9
206	1.9	2.2	2.5	3.2	3.8	5.0	6.3
207	2.7	3.1	3.6	4.5	5.3	7.1	8.9
208	3.6	4.2	4.8	6.0	7.1	9.5	11.9
209	4.3	5.0	5.7	7.1	8.5	11.4	14.2
210	5.6	6.5	7.4	9.3	11.2	14.9	18.6

Grease Capacity of HLU Bearing Inserts (% fill in grams)							
Outer Ring Size	30%	35%	40%	50%	60%	80%	100%
211	6.8	8.0	9.1	11.4	13.7	18.2	22.8
212	9.0	10.5	12.0	15.0	18.0	24.0	30.0
213	10.5	12.2	14.0	17.5	20.9	27.9	34.9
214	12.7	14.8	16.9	21.2	25.4	33.8	42.3
215	15.7	18.3	20.9	26.2	31.4	41.8	52.3
216	17.0	20.0	22.7	28.4	34.1	45.4	56.8
217	21.5	25.0	28.6	35.8	42.9	57.2	71.5
218	27.4	32.0	36.5	45.7	54.8	73.0	91.3

Oil Lubrication

Oil lubrication is recommended when heat must be carried away from the bearing, and is preferred for very high speed applications. Oil is very good for high temperature applications as it can be cooled. However oil is harder to retain in the bearing.

HARDENED SET SCREWS

Hi-Light USA supplies a heat-treated knurled cup point set screw as a standard on all inserts. These grade 9.8 high quality alloy steel set screws (at 120° spacing - on set screw lock inserts) have proven to be an excellent locking device for many years.

MATERIALS OF CAST HOUSINGS

Hi-Light USA's standard housing is made of HT200 Class 30A grey iron. This material has a much higher tensile strength than many of our competitors. The housings have a machined groove in the housing ID that mates with the grease groove in the insert. This allows for better grease flow to the bearing.

Each housing also comes with a grease fitting installed with a plastic cap. A 1/4-28 UNF fitting for outer ring sizes 203-207 and 1/8-27 NPT fitting for 208 outer ring sizes and larger.

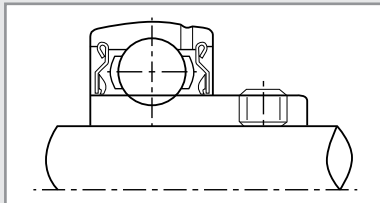
HLU housings are first phosphorized and then painted with an acrylic resin paint which has a working temperature of up to 150°C (302°F).

All pillow blocks are of solid base construction which adds to housing strength. Housings are also available in 65-45-12 ductile iron for more demanding applications with vibration and shock loads.

Stainless Steel Housings are also available and are made of #304 Stainless Steel.

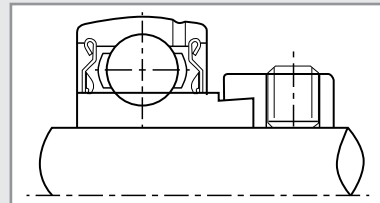
SHAFT LOCKING TYPES

Hi-Light USA offers a broad line of Bearing Inserts that fit many types of housing designs. The bearing inner ring must be locked to the shaft in some method. Below are the locking types offered by Hi-Light USA.



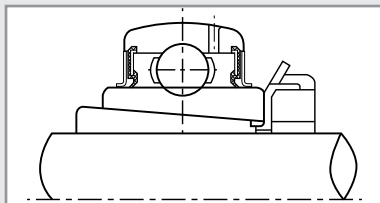
Set Screw Lock

The bearing insert with setscrew locking is held in position on the shaft by two setscrews directly on the extended end of the inner ring. This arrangement is suitable for applications where shaft rotation is in one or both directions.



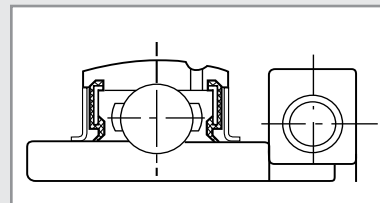
Eccentric Collar Lock

This arrangement locks the bearing insert to the shaft by an eccentric cam machined on the end of the inner ring of the bearing which mates with an eccentric machined in the bore of a separate collar. Installing the collar onto the inner ring in the direction of shaft rotation forms a gripping engagement and fixes the bearing to the shaft. Used for applications where shaft rotation is in one direction.



Adapter Sleeve Lock

This bearing has a tapered bore that mates with a tapered OD adaptor sleeve. The sleeve is threaded and comes with a threaded nut. As the nut is tightened it locks the bearing to the shaft. The bearing insert with adapter sleeve can be used for applications where the direction of shaft rotation is in one or both directions. This locking arrangement allows the bearing to operate at higher speeds than setscrew or eccentric collar bearings.



H-Lock

The inner ring of this bearing has 6 equally spaced sections. A collar equipped with a cap screw fits over the inner ring. The inner ring sections grip the shaft as the cap screw is tightened. This locking method has exceptional holding power and is ideal for high speed applications. Shaft rotation can be both directions.

MOUNTED UNIT INSTALLATION INSTRUCTIONS

Set Screw Locking Units

HLU set screw lock units come standard with two knurled cup point set screws at 120° that lock the inner ring to the shaft. Make sure the shaft is free of burrs and the set screws are clear of the bearing bore. Install the bearing unit into position on the shaft. Never hammer the inner race as this can damage the bearing. Align housing and bolt into place. Rotate the shaft to make sure it turns freely. Tighten set screws to the shaft. Refer to the recommended set screw tightening torque table in this catalog.

Eccentric Locking Units

HLU eccentric lock units come standard with a separate eccentric collar that mates with an eccentric machined on the bearing inner ring to lock the inner ring to the shaft. Make sure the shaft is free of burrs. Install the bearing unit into position on the shaft. Never hammer the inner race, as this can damage the bearing. Align housing and bolt into place. Rotate shaft to make sure it turns freely. Move the eccentric collar into position mating the eccentric of inner ring with the cam of the collar. Make sure set screw in collar is clear of bore. While pressing the collar against the bearing, turn collar by hand in the direction of shaft rotation until tightly engaged. Insert a drift pin into the hole on collar OD and strike the drift pin with a small hammer in the direction of shaft rotation. The bearing should be locked to the shaft. Tighten set screw in collar to hold collar in place. Refer to the recommended set screw tightening torque table in this catalog.

H - Locking Units

HLU H-Lock units come standard with a separate collar equipped with a cap screw that locks the inner ring to the shaft. Make sure the shaft is free of burrs. Install the bearing into position on the shaft. Never hammer the inner race, as this can damage the bearing. Align housing and bolt into place. Rotate shaft to make sure it turns freely. Move the H-Lock collar into position over the inner ring. While pressing the collar against the bearing tighten the cap screw in the collar. Refer to the recommended cap screw tightening torque table in this catalog.

BEARING INSERT BORE AND SHAFT TOLERANCES

A minimum slip fit is desirable for Mounted Ball Bearing inserts for proper mounting, This fit works best for most applications. In some cases other fits such as interference fit can be used for high speed or high precision applications or applications with heavy shock loads.

Hi-Light USA bearing bore tolerance (Cylindrical Bore)

Bearing ID				Bearing Tolerance	
Over		Including		Inch	mm
Inch	mm	Inch	mm		
0.3937	10	0.7087	18	0~+0.0006	0~+0.015
0.7087	18	1.1811	30	0~+0.0007	0~+0.018
1.1811	30	1.9685	50	0~+0.0008	0~+0.021
1.9685	50	3.1496	80	0~+0.0009	0~+0.024
3.1496	80	4.7244	120	0~+0.0011	0~+0.028

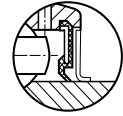
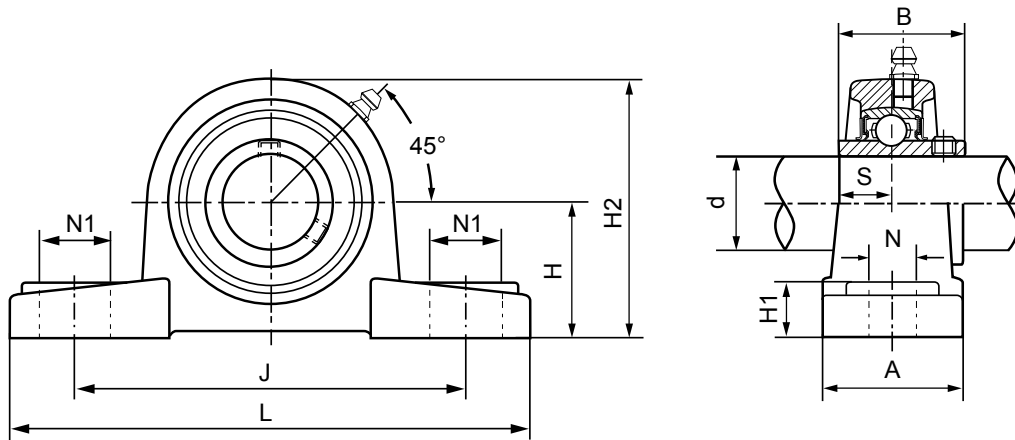
Recommended shaft tolerance for slip fit cylindrical bore bearings

Shaft Tolerances	
Shaft Diameter	Shaft Tolerance
1/2" ~ 1 15/16"	Nominal to ~ .0005"
2" ~ 3 3/16"	Nominal to ~ .0010"
3 1/4" ~ 3 15/16"	Nominal to ~ .0015"

HLU MOUNTED UNIT NUMBERING SYSTEM

S UC P 207 D -20 G

- S A "G" suffix is added to SA or SB inserts or complete units to designate regreasable (standard). R3 would designate Triple Lip Seal.
- UC Bearing shaft size in 1/16 of an inch. 20/16 = 1.25"
- P Designates something special about the housing. D = Ductile Iron NP = Nickel Plating
- 207 Basic bearing outer ring series.
- D Housing type.
- 20 Bearing insert type.
- G S designates Stainless Steel unit.

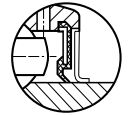
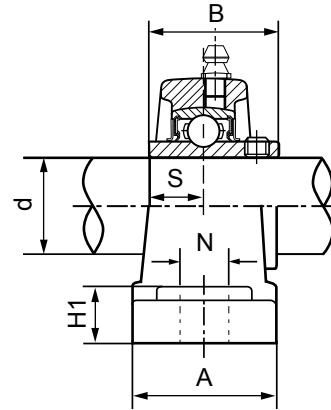
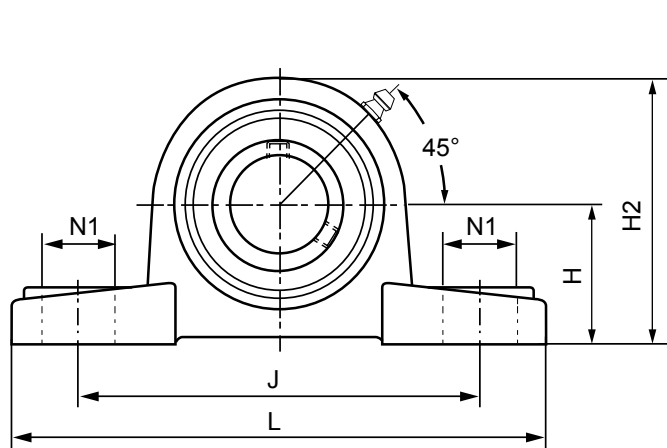


Standard B Type Seal



Optional Triple-lip seal
(+ Suffix - R3)

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)									Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs	
	in.	mm	H	L	J	A	N	N1	H1	H2	S					B
UCP201-08 UCP202 UCP202-10 UCP203	1/2 5/8	15 17	1.1890 30.2	4.8819 124	3.7402 95	1.2598 32	0.4724 12	0.6299 16	0.5118 13	2.2835 58	0.4528 11.5	1.0787 27.4	3/8 10	UC201-08 UC202 UC202-10 UC203	P203	1.25
UCP204-08 UCP204-10	1/2 5/8		1.1890 30.2	5.0000 127	3.7795 96	1.4173 36	0.5118 13	0.7480 19	0.5118 13	2.3622 60	0.5000 12.7	1.2205 31	3/8 10	UC204-08 UC204-10	P203 47mm	1.65
UCP204-12 UCP204	3/4	20	1.3110 33.3	5.0000 127	3.7402 95	1.3780 35	0.5118 13	0.7480 19	0.5512 14	2.5590 65	0.5000 12.7	1.2205 31	3/8 10	UC204-12 UC204	P204	1.60
UCP205-14 UCP205-15 UCP205 UCP205-16	7/8 15/16 1	25	1.4370 36.5	5.5118 140	4.1338 105	1.4961 38	0.5118 13	0.7480 19	0.5906 15	2.7953 71	0.5630 14.3	1.3425 34.1	3/8 10	UC205-14 UC205-15 UC205 UC205-16	P205	2.00
UCP206-17 UCP206-18 UCP206 UCP206-19 UCP206-20	1 1/16 1 1/8 1 3/16 1 1/4	30	1.6890 42.9	6.2992 160	4.7638 121	1.7323 44	0.5512 14	0.7480 19	0.6693 17	3.2677 83	0.6260 15.9	1.5000 38.1	1/2 12	UC206-17 UC206-18 UC206 UC206-19 UC206-20	P206	3.50
UCP207-20 UCP207-21 UCP207-22 UCP207 UCP207-23	1 1/4 1 5/16 1 3/8 1 7/16	35	1.8740 47.6	6.5748 167	5.0000 127	1.8898 48	0.5906 15	0.7480 19	0.7087 18	3.6614 93	0.6890 17.5	1.6890 42.9	1/2 12	UC207-20 UC207-21 UC207-22 UC207 UC207-23	P207	4.10
UCP208-24 UCP208-25 UCP208	1 1/2 1 9/16	40	1.9370 49.2	7.0866 180	5.3939 137	2.1260 54	0.5906 15	0.8268 21	0.7087 18	3.8583 98	0.7480 19.0	1.9370 49.2	1/2 12	UC208-24 UC208-25 UC208	P208	5.00
UCP209-26 UCP209-27 UCP209-28 UCP209	1 5/8 1 11/16 1 3/4	45	2.1260 54.0	7.4803 190	5.7480 146	2.1260 54	0.5906 15	0.8268 21	0.7874 20	4.1732 106	0.7480 19.0	1.9370 49.2	1/2 12	UC209-26 UC209-27 UC209-28 UC209	P209	5.30
UCP210-30 UCP210-31 UCP210 UCP210-32	1 7/8 1 15/16 2	50	2.2520 57.2	8.1102 206	6.2598 159	2.3622 60	0.7480 19	0.8661 22	0.8268 21	4.4882 114	0.7480 19.0	2.0315 51.6	5/8 16	UC210-30 UC210-31 UC210 UC210-32	P210	6.50
UCP211-32 UCP211-34 UCP211 UCP211-35	2 2 1/8 2 1/4	55	2.5000 63.5	8.6220 219	6.7323 171	2.3622 60	0.7480 19	0.8661 22	0.9055 23	4.9606 126	0.8740 22.2	2.1890 55.6	5/8 16	UC211-32 UC211-34 UC211 UC211-35	P211	8.50
UCP212-36 UCP212 UCP212-38 UCP212-39	2 1/4 2 3/8 2 7/8	60	2.7480 69.8	9.4882 241	7.2441 184	2.7559 70	0.7480 19	0.9842 25	0.9842 25	5.4331 138	1.0000 25.4	2.5630 65.1	5/8 16	UC212-36 UC212 UC212-38 UC212-39	P212	11.10
UCP213-40 UCP213	2 1/2	65	3.0000 76.2	10.394 264	7.9921 203	2.7559 70	0.9055 23	1.1417 29	1.0630 27	5.9449 151	1.0000 25.4	2.5630 65.1	3/4 20	UC213-40 UC213	P213	14.00
UCP214-44 UCP214	2 3/4	70	3.1260 79.4	10.472 266	8.2677 210	2.8346 72	0.9055 23	1.1417 29	1.0630 27	6.1811 157	1.1890 30.2	2.9370 74.6	3/4 20	UC214-44 UC214	P214	15.00
UCP215 UCP215-47 UCP215-48	2 15/16 3	75	3.2520 82.6	10.827 275	8.5433 217	2.9134 74	0.9842 25	1.1417 29	1.1024 28	6.4173 163	1.3110 33.3	3.0630 77.8	3/4 20	UC215 UC215-47 UC215-48	P215	17.25

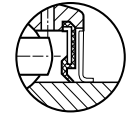
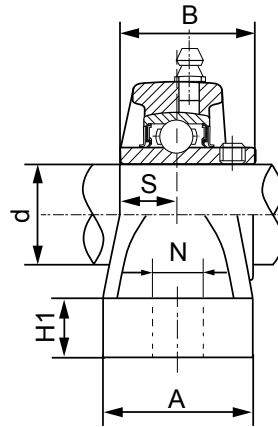
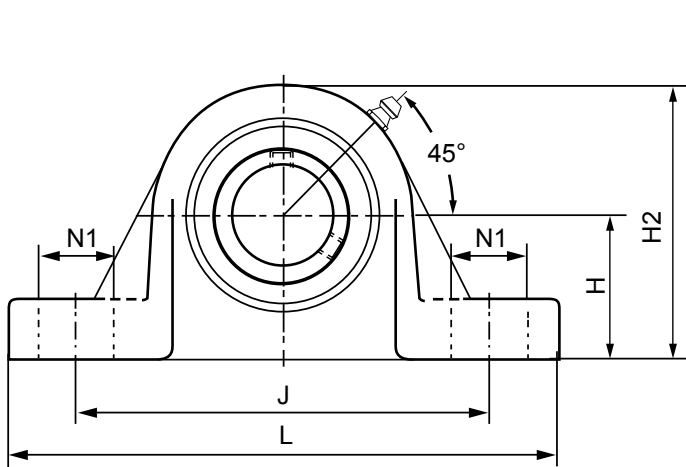


Standard B Type Seal



Optional Triple-lip seal
(+ Suffix - R3)

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)										Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	L	J	A	N	N1	H1	H2	S	B				
UCPL201-08 UCPL202 UCPL202-10 UCPL203	1/2 5/8	15 17	1.0630 27	4.8820 124	3.6220 92	1.1890 30.2	0.4331 11	0.8661 22	0.3504 8.9	2.1260 54	0.4528 11.5	1.0787 27.4	3/8 10	UC201-08 UC202 UC202-10 UC203	PL203	1.00
UCPL204-08 UCPL204-10 UCPL204-12 UCPL204	1/2 5/8 3/4	20	1.2520 31.8	5.2362 133	3.8583 98	1.6142 41	0.4331 11	0.5512 14	0.5512 14	2.4803 63	0.500 12.7	1.2205 31	3/8 10	UC204-08 UC204-10 UC204-12 UC204	PL204	1.70
UCPL205-14 UCPL205-15 UCPL205 UCPL205-16	7/8 1 1/16	25	1.3110 33.3	5.5118 140	4.1339 105	1.4961 38	0.4528 11.5	0.8386 21.3	0.6299 16	2.6772 68	0.5630 14.3	1.3425 34.1	3/8 10	UC205-14 UC205-15 UC205 UC205-16	PL205	1.95
UCPL206-17 UCPL206-18 UCPL206 UCPL206-19 UCPL206-20	1 1/16 1 1/8	30	1.5630 39.7	6.2992 160	4.7638 121	1.8898 48	0.5512 14	0.7480 19	0.6693 17	3.1496 80	0.6260 15.9	1.5000 38.1	1/2 12	UC206-17 UC206-18 UC206 UC206-19 UC206-20	PL206	3.15
UCPL207-20 UCPL207-21 UCPL207-22 UCPL207 UCPL207-23	1 1/4 1 3/16 1 3/8	35	1.8110 46	6.5748 167	5.0000 127	1.8898 48	0.5512 14	0.7480 19	0.7480 19	3.6220 92	0.6890 17.5	1.6890 42.9	1/2 12	UC207-20 UC207-21 UC207-22 UC207 UC207-23	PL207	4.00
UCPL208-24 UCPL208-25 UCPL208	1 1/2 1 9/16	40	1.9370 49.2	7.1260 181	5.5118 140	2.1260 54	0.6299 16	0.7480 19	0.7480 19	3.9370 100	0.7480 19	1.9370 49.2	1/2 12	UC208-24 UC208-25 UC208	PL208	5.10
UCPL209-26 UCPL209-27 UCPL209-28 UCPL209	1 5/8 1 11/16 1 3/4	45	2.0630 52.4	7.4803 190	5.7480 146	2.1260 54	0.6299 16	0.7480 19	0.8268 21	4.1732 106	0.7480 19	1.9370 49.2	1/2 12	UC209-26 UC209-27 UC209-28 UC209	PL209	5.40
UCPL210-30 UCPL210-31 UCPL210 UCPL210-32	1 7/8 1 15/16	50	2.1890 55.6	7.9921 203	6.2598 159	2.2441 57	0.6890 17.5	0.8268 21	0.8662 22	4.4488 113	0.7480 19	2.0315 51.6	5/8 16	UC210-30 UC210-31 UC210 UC210-32	PL210	6.80
UCPL211-32 UCPL211-34 UCPL211 UCPL211-35	2 2 1/8	55	2.4370 61.9	9.1339 232	7.1260 181	2.3622 60	0.7087 18	0.9445 24	0.9843 25	4.9213 125	0.8740 22.2	2.1890 55.6	5/8 16	UC211-32 UC211-34 UC211 UC211-35	PL211	9.00
UCPL212-36 UCPL212 UCPL212-38 UCPL212-39	2 3/16 2 1/4	60	2.6890 68.3	9.7882 241	7.5000 190.5	2.5197 64	0.7087 18	0.9445 24	1.1417 29	5.3543 136	1.0000 25.4	2.5630 65.1	5/8 16	UC212-36 UC212 UC212-38 UC212-39	PL212	10.80
UCPL213-40 UCPL213	2 1/2	65	2.6890 68.3	9.7638 248	7.6378 194	2.7559 70	0.7874 20	1.1417 29	1.0630 27	5.5512 141	1.0000 25.4	2.5630 65.1	3/4 19	UC213-40 UC213	PL213	13.10
UCPL214-44 UCPL214	2 3/4	70	3.2520 82.6	11.5748 294	9.1339 232	2.8346 72	0.7874 20	1.2598 32	1.1417 29	6.2992 160	1.1890 30.2	2.9370 74.6	3/4 19	UC214-44 UC214	PL214	14.50
UCPL215 UCPL215-47 UCPL215-48	2 15/16 3	75	3.3110 84.1	11.9685 304	9.4881 241	2.9134 74	0.8661 22	1.2598 32	1.2598 32	6.4961 165	1.3110 33.3	3.0630 77.8	3/4 19	UC215 UC215-47 UC215-48	PL215	19.50

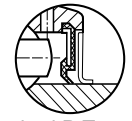
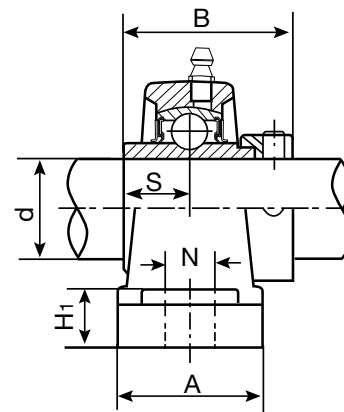
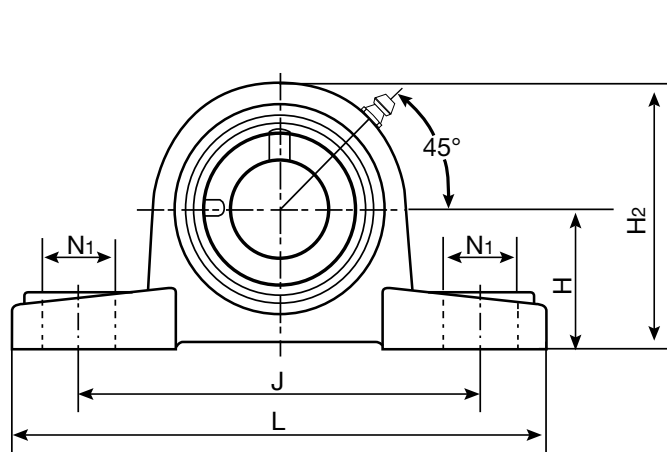


Standard B Type Seal



Optional Triple-lip seal
(+ Suffix - R3)

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)										Bolt Used (in.)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	L	J	A	N	N1	H1	H2	S	B				
UCPX05 UCPX05-16	1	25	1.6874 42.86	6.2500 158.75	4.6260 117.5	1.7520 44.5	.5512 14	.9370 23.8	.7480 19	3.3070 84	.6260 15.9	1.5000 38.1	1/2	UCX05 UCX05-16	P206H	3.1
UCPX06 UCPX06-19 UCPX06-20	1 3/16 1 1/4	30	1.8740 47.6	6.4960 165	5.0630 128.6	1.7520 44.5	.5512 14	.9370 23.8	.7205 18.3	3.7520 95.3	.6890 17.5	1.6890 42.9	1/2	UCX06 UCX06-19 UC207-20	P207H	3.9
UCPX07 UCPX07-22 UCPX07-23	1 3/8 1 7/16	35	2.1260 54	7.2480 184.1	5.5315 140.5	1.9370 49.2	.5630 14.3	.9055 23	.9055 23	4.1850 106.3	.7480 19.0	1.9370 49.2	1/2	UCX07 UCX07-22 UCX07-23	P208H	5.6
UCPX08 UCPX08-24	1 1/2	40	2.1260 54	7.4803 190	5.8740 149.2	2.1260 54.0	.594 15.1	1.1260 28.6	.7874 20	4.1732 106	.7480 19.0	1.9370 49.2	1/2	UCX08 UCX08-24	P209H	6.2
UCPX09 UCPX09-27 UCPX09-28	1 11/16 1 3/4	45	2.2500 57.15	8.1260 206.4	6.3425 161.1	2.25 57.15	.6890 17.5	1.0315 26.2	.7500 19.05	4.5315 115.1	.7480 19.0	2.0315 51.6	5/8	UCX09 UCX09-27 UCX09-28	P210H	7.4
UCPX10 UCPX10-31 UCPX10-32	1 15/16 2	50	2.5000 63.5	8.8740 225.4	6.9055 175.4	2.3110 58.7	.6890 17.5	1.2480 31.7	.8740 22.2	4.9685 126.2	.8742 22.2	2.1890 55.6	5/8	UCX10 UCX10-31 UC211-32	P211H	9.2
UCPX11 UCPX11-35 UCPX11-36	2 3/16 2 1/4	55	2.7500 69.85	9.5000 241.3	7.4055 188.1	2.3740 60.3	.6890 17.5	1.2480 31.7	.8740 22.2	5.4055 137.3	1.0 25.4	2.5630 65.1	5/8	UCX11 UCX11-35 UC212-36	P212H	10.9
UCPX12 UCPX12-39	2 7/16	60	3.0000 76.2	10.7480 273	8 203.2	2.6890 68.3	.8110 20.6	1.3740 34.9	.9370 23.8	6.0630 154	1.0 25.4	2.5630 65.1	3/4	UCX12 UCX12-39	P213H	14.2
UCPX13 UCPX13-40	2 1/2	65	3.0000 76.2	11.2599 286	8 203.2	3.2677 83	.8110 20.6	1.5630 39.7	1.2598 32	5.945 151	1.1890 30.2	2.9370 74.6	3/4	UCX13 UCX13-40	PX13	15.3
UCPX14 UCPX14-43	2 11/16	70	3.5000 88.9	13 330	9 228.6	3.5039 89	.9370 23.8	2.0000 50.8	1.3780 35	6.7717 172	1.3110 33.3	3.0630 77.8	7/8	UCX14 UCX14-43	PX14	21.5
UCPX15 UCPX15-47 UCPX15-48	2 15/16 3	75	3.5000 88.9	11.7520 298.5	9 228.6	3 76.2	.9370 23.8	1.4370 36.5	1.25 31.75	6.9685 177	1.3110 33.3	3.2520 82.6	7/8	UCX15 UCX15-47 UCX15-48	P216H	22.3
UCPX17 UCPX17-55 UCPX17-56	3 7/16 3 1/2	85	4 101.6	15 381	11.1260 282.6	4 102	.9370 23.8	2.3740 60.3	1.6535 42	7.9528 202	1.5630 39.7	3.7795 96	7/8	UCX17 UCX17-55 UCX17-56	PX17	38.4
UCPX20 UCPX20-63 UCPX20-64	3 15/16 4	100	5 127	17 432	13.2677 337	4.7638 121	1.1260 28.6	2.5 63.5	2.0472 52	9.8425 250	1.9370 49.2	4.6260 117.5	1	UCX20 UCX20-63 UCX20-64	PX20	66

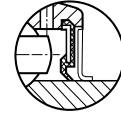
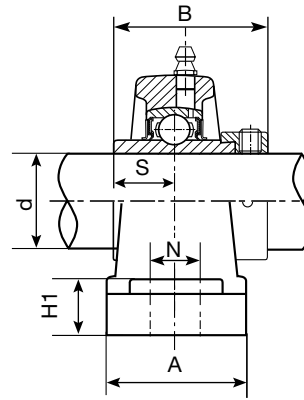
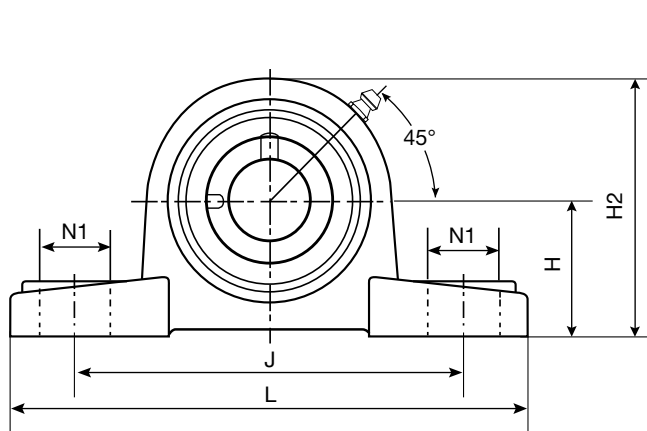


Standard B Type Seal



Optional Triple-lip seal
(+ Suffix - R3)

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)										Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	L	J	A	N	N1	H1	H2	S	B				
NAP201-08 NAP202 NAP202-10 NAP203	1/2 5/8	15 17	1.1890 30.2	4.8819 124	3.7402 95	1.2598 32	0.4724 12	0.6299 16	0.5118 13	2.2835 58	0.5472 13.9	1.4685 37.3	3/8 10	NA201-08 NA202 NA202-10 NA203	P203	1.40
NAP204-10	5/8		1.1890 30.2	5.0000 127	3.7795 96	1.4173 36	0.5118 13	0.7480 19	0.5118 13	2.3622 60	0.6732 17.1	1.7205 43.7	3/8 10	NA204-10	P203 47mm	1.65
NAP204-12 NAP204	3/4	20	1.3110 33.3	5.0000 127	3.7402 95	1.3780 35	0.5118 13	0.7480 19	0.5512 14	2.5591 65	0.6732 17.1	1.7205 43.7	3/8 10	NA204-12 NA204	P204	1.65
NAP205-14 NAP205-15 NAP205 NAP205-16	7/8 15/16 1	25	1.4370 36.5	5.5118 140	4.1339 105	1.4961 38	0.5118 13	0.7480 19	0.5906 15	2.7953 71	0.6890 17.5	1.7480 44.4	3/8 10	NA205-14 NA205-15 NA205 NA205-16	P205	2.10
NAP206-17 NAP206-18 NAP206 NAP206-19 NAP206-20	1 1/16 1 1/8 1 3/16 1 1/4	30	1.6890 42.9	6.2992 160	4.7638 121	1.7323 44	0.5512 14	0.7480 19	0.6693 17	3.2677 83	0.7205 18.3	1.9055 48.4	1/2 12	NA206-17 NA206-18 NA206 NA206-19 NA206-20	P206	3.10
NAP207-20 NAP207-21 NAP207-22 NAP207 NAP207-23	1 1/4 1 5/16 1 3/8 1 7/16	35	1.8740 47.6	6.5748 167	5.0000 127	1.8898 48	0.5906 15	0.7480 19	0.7087 18	3.6614 93	0.7402 18.8	2.0118 51.1	1/2 12	NA207-20 NA207-21 NA207-22 NA207 NA207-23	P207	4.25
NAP208-24 NAP208-25 NAP208	1 1/2 1 5/8	40	1.9370 49.2	7.0866 180	5.3937 137	2.1260 54	0.5906 15	0.8268 21	0.7480 19	3.8583 98	0.8425 21.4	2.2165 56.3	1/2 12	NA208-24 NA208-25 NA208	P208	5.25
NAP209-26 NAP209-27 NAP209-28 NAP209	1 5/8 1 7/8 1 3/4	45	2.1260 54	7.4803 190	5.7480 146	2.1260 54	0.5906 15	0.8268 21	0.7874 20	4.1732 106	0.8425 21.4	2.2165 56.3	1/2 12	NA209-26 NA209-27 NA209-28 NA209	P209	5.70
NAP210-30 NAP210-31 NAP210 NAP210-32	1 7/8 1 15/16 2	50	2.2520 57.2	8.1102 206	6.2598 159	2.2441 57	0.7480 19	0.8661 22	0.8268 21	4.4882 114	0.9685 24.6	2.4685 62.7	5/8 16	NA210-30 NA210-31 NA210 NA210-32	P210	7.00
NAP211-32 NAP211-34 NAP211 NAP211-35	2 2 1/8 2 3/16	55	2.5000 63.5	8.6220 219	6.7323 171	2.3622 60	0.7480 19	0.8661 22	0.9055 23	4.9606 126	1.0945 27.8	2.8110 71.4	5/8 16	NA211-32 NA211-34 NA211 NA211-35	P211	9.30
NAP212-36 NAP212 NAP212-38 NAP212-39	2 1/4 2 3/8 2 7/16	60	2.7480 69.8	9.4882 241	7.2441 184	2.7559 70	0.7480 19	0.9843 25	0.9843 25	5.4331 138	1.2205 31	3.0630 77.8	5/8 16	NA212-36 NA212 NA212-38 NA212-39	P212	11.40
NAP213-40 NAP213	2 1/2	65	3.0000 76.2	10.3937 264	7.9921 203	2.7559 70	0.9055 23	1.1417 29	1.0630 27	5.9449 151	1.3425 34.1	3.3740 85.7	3/4 20	NA213-40 NA213	P213	14.70
NAP214-44 NAP214	2 3/4	70	3.1260 79.4	10.4724 266	8.2677 210	2.8346 72	0.9055 23	1.1417 29	1.0630 27	6.1811 157	1.3425 34.1	3.3740 85.7	3/4 20	NA214-44 NA214	P214	16.00
NAP215 NAP215-47 NAP215-48	2 5/8 3	75	3.2520 82.6	10.8268 275	8.5433 217	2.9134 74	0.9843 25	1.1417 29	1.1024 28	6.4173 163	1.4685 37.3	3.6260 92.1	3/4 20	NA215 NA215-47 NA215-48	P215	17.80

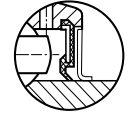
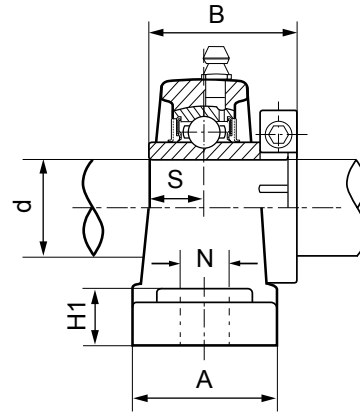
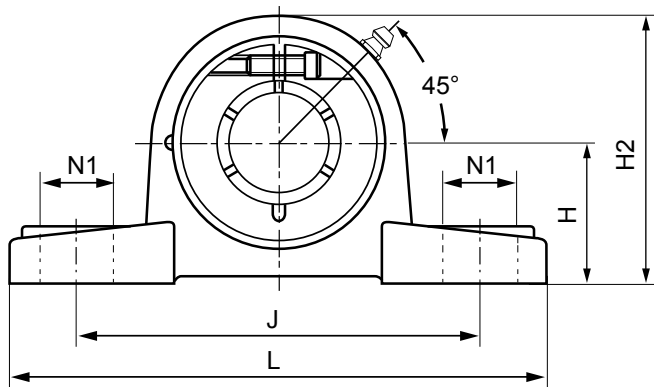


Standard B Type Seal



Optional Triple-lip seal
(+ Suffix - R3)

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)										Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	L	J	A	N	N1	H1	H2	S	B				
NAPL201-08 NAPL202	1/2	15	1.0630	4.8820	3.6220	1.1890	0.4331	0.8661	0.3504	2.1260	0.5472	1.4685	3/8	NA201-08 NA202	PL203	1.10
NAPL202-10 NAPL203	5/8	17	1.2520	5.2362	3.8583	1.6142	0.4331	0.5512	0.5512	2.4803	0.6732	1.7205	3/8	NA202-10 NA203		
NAPL204-10 NAPL204-12 NAPL204	3/4	20	1.2520	5.2362	3.8583	1.6142	0.4331	0.5512	0.5512	2.4803	0.6732	1.7205	3/8	NA204-10 NA204-12 NA204		
NAPL205-14 NAPL205-15 NAPL205 NAPL205-16	7/8 1 1/16	25	1.3110	5.5118	4.1339	1.4961	0.4528	0.8386	0.6299	2.6772	0.6890	1.7480	3/8	NA205-14 NA205-15 NA205 NA205-16	PL205	2.05
NAPL206-17 NAPL206-18 NAPL206 NAPL206-19 NAPL206-20	1 1/16 1 1/8 1 3/16 1 1/4	30	1.5630	8.2992	4.7638	1.8898	0.5512	0.7480	0.6693	3.1496	0.7205	1.9055	1/2	NA206-17 NA206-18 NA206 NA206-19 NA206-20	PL206	3.30
NAPL207-20 NAPL207-21 NAPL207-22 NAPL207 NAPL207-23	1 1/4 1 5/16 1 3/8 1 7/16	35	1.8110	6.5748	5	1.8898	0.5512	0.7480	0.7480	3.6220	0.7402	2.0118	1/2	NA207-20 NA207-21 NA207-22 NA207 NA207-23	PL207	4.20
NAPL208-24 NAPL208-25 NAPL208	1 1/2 1 5/8	40	1.9370	7.1260	5.5118	2.1260	0.6299	0.7480	0.7480	3.9370	0.8425	2.2165	1/2	NA208-24 NA208-25 NA208	PL208	5.40
NAPL209-26 NAPL209-27 NAPL209-28 NAPL209	1 5/8 1 11/16 1 3/4	45	2.0630	7.4803	5.7480	2.1260	0.6299	0.7480	0.8268	4.1732	0.8425	2.2165	1/2	NA209-26 NA209-27 NA209-28 NA209	PL209	5.75
NAPL210-30 NAPL210-31 NAPL210 NAPL210-32	1 7/8 1 15/16 2	50	2.1890	7.9921	6.2598	2.2441	0.6890	0.8268	0.8662	4.4488	0.9685	2.4685	5/8	NA210-30 NA210-31 NA210 NA210-32	PL210	7.20
NAPL211-32 NAPL211-34 NAPL211 NAPL211-35	2 2 1/8 2 3/16	55	2.4370	9.1339	7.1260	2.3622	0.7087	0.9445	0.9843	4.9213	1.0945	2.8110	5/8	NA211-32 NA211-34 NA211 NA211-35	PL211	9.70
NAPL212-36 NAPL212 NAPL212-38 NAPL212-39	2 1/4 2 5/8 2 7/16	60	2.6890	9.7882	7.5000	2.5197	0.7087	0.9445	1.1417	5.3543	1.2205	3.0630	5/8	NA212-36 NA212 NA212-38 NA212-39	PL212	11.40
NAPL213-40 NAPL213	2 1/2	65	2.6890	9.7638	7.6378	2.7559	0.7874	1.1417	1.0630	5.5512	1.3425	3.3740	3/4	NA213-40 NA213	PL213	14.30
NAPL214-44 NAPL214	2 3/4	70	3.2520	11.5748	9.1339	2.8346	0.7874	1.2598	1.1417	6.2992	1.3425	3.3740	3/4	NA214-44 NA214	PL214	15.70
NAPL215 NAPL215-47 NAPL215-48	2 15/16 3	75	3.3110	11.9685	9.4881	2.9134	0.8661	1.2598	1.2598	6.4961	1.4685	3.6260	3/4	NA215 NA215-47 NA215-48	PL215	20.50



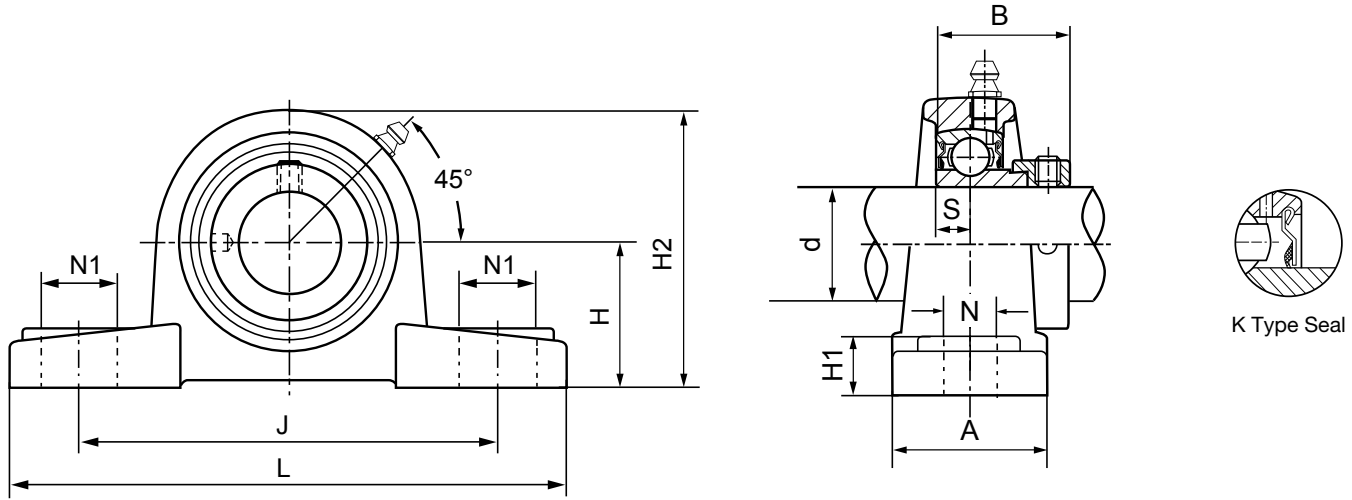
Standard B Type Seal



Optional Triple-lip seal
(+ Suffix - R3)

HLU Unit No.	Shaft Diameter in.	Dimensions (in./mm)										Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
		H	L	J	A	N	N1	H1	H2	S	B				
HLP204-12	3/4	1.3110 33.3	5.0000 127	3.7402 95	1.3780 35	0.5118 13	0.7480 19	0.5512 14	2.5590 65	0.5000 12.7	1.2795 32.5	3/8 10	HL204-12	P204	1.73
HLP205-15 HLP205-16	15/16 1	1.4370 36.5	5.5118 140	4.1338 105	1.4961 38	0.5118 13	0.7480 19	0.5906 15	2.7953 71	0.5630 14.3	1.4370 36.5	3/8 10	HL205-15 HL205-16	P205	2.37
HLP206-18 HLP206-19 HLP206-20	1 1/8 1 3/16 1 1/4	1.6890 42.9	6.2992 160	4.7638 121	1.7323 44	0.5512 14	0.7480 19	0.6693 17	3.2677 83	0.6260 15.9	1.5630 39.7	1/2 12	HL206-18 HL206-19 HL206-20	P206	3.95
HLP207-20 HLP207-22 HLP207-23	1 1/4 1 5/8 1 7/16	1.8740 47.6	6.5748 167	5.0000 127	1.8898 48	0.5906 15	0.7480 19	0.7087 18	3.6614 93	0.6890 17.5	1.7913 45.5	1/2 12	HL207-20 HL207-22 HL207-23	P207	4.50
HLP208-24	1 1/2	1.9370 49.2	7.0866 180	5.3939 137	2.1260 54	0.5906 15	0.8268 21	0.7480 19	3.8583 98	0.7480 19.0	2.0000 50.8	1/2 12	HL208-24	P208	5.35
HLP209-26 HLP209-27 HLP209-28	1 5/8 1 11/16 1 3/4	2.1260 54.0	7.4803 190	5.7480 146	2.1260 54	0.5906 15	0.8268 21	0.7874 20	4.1732 106	0.7480 19.0	2.0000 50.8	1/2 12	HL209-26 HL209-27 HL209-28	P209	5.60
HLP210-31 HLP210-32	1 15/16 2	2.2520 57.2	8.1102 206	6.2598 159	2.3622 60	0.7480 19	0.8661 22	0.8268 21	4.4882 114	0.7480 19.0	2.0945 53.2	5/8 16	HL210-31 HL210-32	P210	7.25
HLP211-32 HLP211-34 HLP211-35	2 2 1/8 2 3/16	2.5000 63.5	8.6220 219	6.7323 171	2.3622 60	0.7480 19	0.8661 22	0.9055 23	4.9606 126	0.8740 22.2	2.2520 57.2	5/8 16	HL211-32 HL211-34 HL211-35	P211	8.80
HLP212-36 HLP212-38 HLP212-39	2 1/4 2 3/8 2 7/16	2.7480 69.8	9.4882 241	7.2441 184	2.7559 70	0.7480 19	0.9842 25	0.9842 25	5.4331 138	1.0000 25.4	2.6260 66.7	5/8 16	HL212-36 HL212-38 HL212-39	P212	12.25

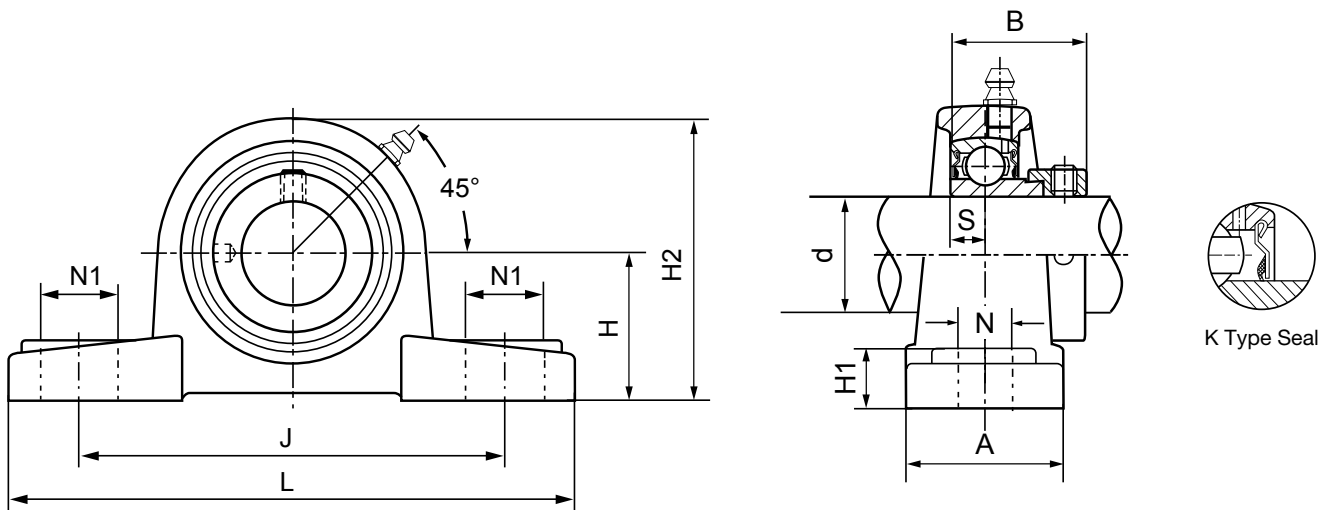
Refer to recommended cap screw tightening torque table for proper tightening torques.



HLU Unit No.	Shaft Diameter		Dimensions (in./mm)										Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs	
	in.	mm	H	L	J	A	N	N1	H1	H2	S	B					
SAP201-08G	1/2														SA201-08G		
SAP202G		15	1.1890	4.8819	3.7402	1.2598	0.4724	0.6299	0.5118	2.2835	0.2559	1.1260	3/8	SA202G	P203	1.35	
SAP202-10G	5/8		30.2	124	95	32	12	16	13	58	6.5	28.6	10	SA202-10G			
SAP203G		17												SA203G			
SAP204-12G	3/4		1.3110	5.0000	3.7402	1.3780	0.5118	0.7480	0.5512	2.5590	0.2953	1.2205	3/8	SA204-12G	P204	1.55	
SAP204G		20	33.3	127	95	35	13	19	14	65	7.5	31.0	10	SA204G			
SAP205-14G	7/8													SA205-14G	P205	2.00	
SAP205-15G	15/16		1.4370	5.5118	4.1338	1.4961	0.5118	0.7480	0.5906	2.7953	0.2953	1.2205	3/8	SA205-15G			
SAP205G		25	36.5	140	105	38	13	19	15	71	7.5	31.0	10	SA205G			
SAP205-16G	1													SA205-16G			
SAP206-17G	1 1/16													SA206-17G	P206	3.00	
SAP206-18G	1 1/8		1.6890	6.2992	4.7638	1.7323	0.5512	0.7480	0.6693	3.2677	0.3543	1.4055	1/2	SA206-18G			
SAP206G		30	42.9	160	121	44	14	19	17	83	9.0	35.7	12	SA206G			
SAP206-19G	1 3/16													SA206-19G			
SAP206-20G	1 1/4													SA206-20G			
SAP207-20G	1 1/4													SA207-20G	P207	3.85	
SAP207-21G	1 5/16		1.8740	6.5748	5.0000	1.8898	0.5906	0.7480	0.7087	3.6614	0.3740	1.5315	1/2	SA207-21G			
SAP207-22G	1 3/8		47.6	167	127	48	15	19	18	93	9.5	38.9	12	SA207-22G			
SAP207G		35												SA207G			
SAP207-23G	1 7/16													SA207-23G			
SAP208-24G	1 1/2													SA208-24G	P208	5.00	
SAP208-25G	1 9/16		1.9370	7.0866	5.3939	2.1260	0.5906	0.8268	0.7480	3.8583	0.4331	1.7205	1/2	SA208-25G			
SAP208G		40	49.2	180	137	54	15	21	19	98	11.0	43.7	12	SA208G			
SAP209-26G	1 5/8													SA209-26G	P209	5.40	
SAP209-27G	1 11/16		2.1260	7.4803	5.7480	2.1260	0.5906	0.8268	0.7874	4.1732	0.4331	1.7205	1/2	SA209-27G			
SAP209-28G	1 3/4		54.0	190	146	54	15	21	20	106	11.0	43.7	12	SA209-28G			
SAP209G		45												SA209G			
SAP210-30G	1 7/8													SA210-30G	P210	6.50	
SAP210-31G	1 15/16		2.2520	8.1102	6.2598	2.3622	0.7480	0.8661	0.8268	4.4882	0.4331	1.7205	5/8	SA210-31G			
SAP210G		50	57.2	206	159	60	19	22	21	114	11.0	43.7	16	SA210G			
SAP210-32G	2													SA210-32G			
SAP211-32G	2													SA211-32G	P211	8.55	
SAP211G		55	2.5000	8.6220	6.7323	2.3622	0.7480	0.8661	0.9055	4.9606	0.4721	1.9055	5/8	SA211G			
SAP211-35G	2 3/16		63.5	219	171	60	19	22	23	126	12.0	48.4	16	SA211-35G			

Normally supplied as relube with "G" suffix.

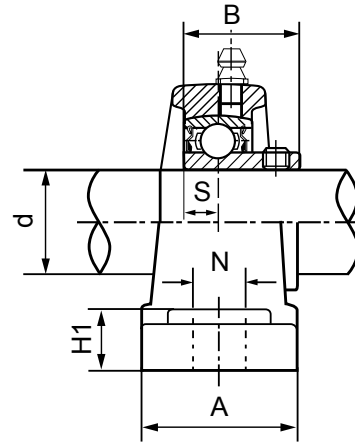
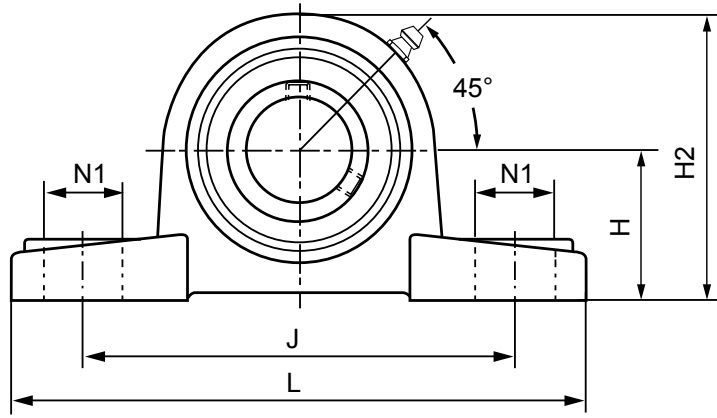
Non-relube units available. Please specify non-relube.



HLU Unit No.	Shaft Diameter		Dimensions (in./mm)										Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	L	J	A	N	N1	H1	H2	S	B				
SAPL201-08G SAPL202G SAPL202-10G SAPL203G	1/2 5/8	15 17	1.0630 27	4.8819 124	3.6220 92	1.1890 30.2	0.4724 12	0.6299 16	0.3504 8.9	2.1260 54	0.2559 6.5	1.1260 28.6	3/8 10	SA201-08G SA202G SA202-10G SA203G	PL203	1.00
SAPL204-12G SAPL204G	3/4	20	1.2520 31.8	5.2362 133	3.8583 98	1.6142 41	0.5118 13	0.6299 16	0.5512 14	2.4803 63	0.2963 7.5	1.2205 31	3/8 10	SA204-12G SA204G	PL204	1.40
SAPL205-14G SAPL205-15G SAPL205G SAPL205-16G	7/8 15/16 1	25	1.3110 33.3	5.5118 140	4.1339 105	1.4961 38	0.5118 13	0.7480 19	0.6299 16	2.6772 68	0.2953 7.5	1.2205 31	3/8 10	SA205-14G SA205-15G SA205G SA205-16G	PL205	1.90
SAPL206-18G SAPL206G SAPL206-19G SAPL206-20G	1 1/8 1 1/16 1 1/4	30	1.5630 39.7	6.2992 160	4.7638 121	1.8898 48	0.5512 14	0.7480 19	0.6693 17	3.1496 80	0.3543 9	1.4055 35.7	1/2 12	SA206-18G SA206G SA206-19G SA206-20G	PL206	3.10
SAPL207-20G SAPL207-21G SAPL207-22G SAPL207G SAPL207-23G	1 1/4 1 3/16 1 3/8 1 7/16	35	1.8110 46	6.5748 167	5.0000 127	1.8898 48	0.5906 15	0.7480 19	0.7480 19	3.6220 92	0.3740 9.5	1.5315 38.9	1/2 12	SA207-20G SA207-21G SA207-22G SA207G SA207-23G	PL207	3.90
SAPL208-24G SAPL208G	1 1/2	40	1.9370 49.2	7.1260 181	5.5118 140	2.1260 54	0.5906 15	0.8268 21	0.7480 19	3.9370 100	0.4331 11	1.7205 43.7	1/2 12	SA208-24G SA208G	PL208	5.20
SAPL209-26G SAPL209-27G SAPL209-28G SAPL209G	1 5/8 1 11/16 1 3/4	45	2.0630 52.4	7.4803 190	5.7480 146	2.1260 54	0.5906 15	0.8268 21	0.8268 21	4.1732 106	0.4331 11	1.7205 43.7	1/2 12	SA209-26G SA209-27G SA209-28G SA209G	PL209	5.40
SAPL210-30G SAPL210-31G SAPL210G SAPL210-32G	1 7/8 1 15/16 2	50	2.1890 55.6	7.9921 203	6.2598 159	2.2441 57	0.7480 19	0.8661 22	0.8661 22	4.4488 113	0.4331 11	1.7205 43.7	5/8 16	SA210-30G SA210-31G SA210G SA210-32G	PL210	6.70
SAPL211-32G SAPL211G SAPL211-35G	2 2 3/16	55	2.4370 61.9	9.1339 232	7.1260 181	2.3622 60	0.7087 18	0.9449 24	0.9843 25	4.9213 125	0.4724 12	1.9055 48.4	5/8 16	SA211-32G SA211G SA211-35G	PL211	9.00

Normally supplied as relube with "G" suffix.

Non-relube units available. Please specify non-relube.

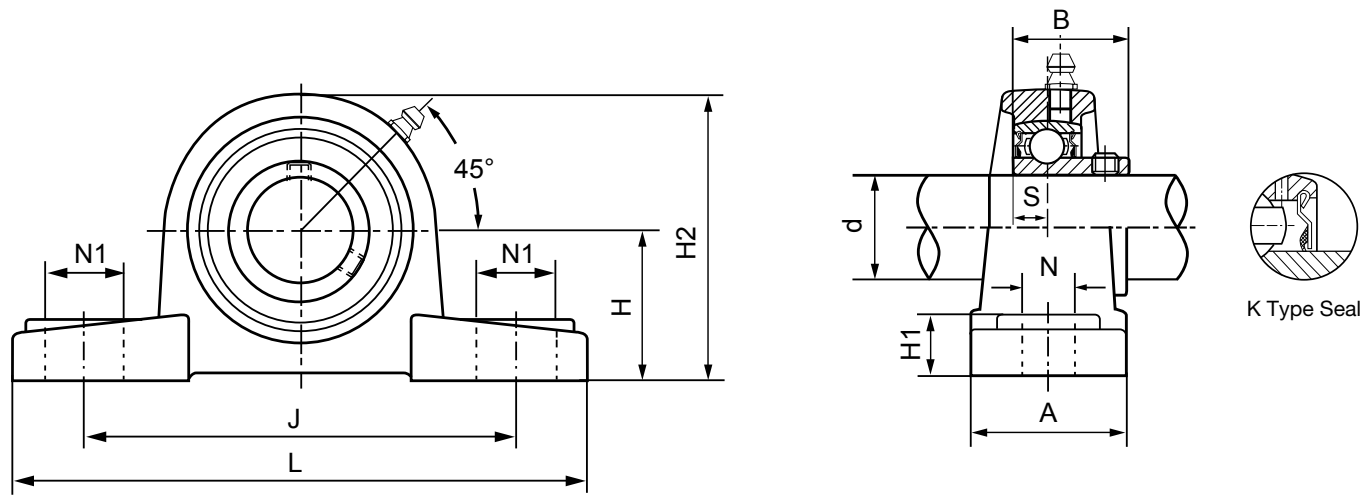


K Type Seal

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)										Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	L	J	A	N	N1	H1	H2	S	B				
SBP201-08G SBP202G SBP202-10G SBP203G	1/2 5/8	15 17	1.1890 30.2	4.8819 124	3.7402 95	1.2598 32	0.4724 12	0.6299 16	0.5118 13	2.2835 58	0.2362 6	0.8661 22	3/8 10	SB201-08G SB202G SB202-10G SB203G	P203	1.25
SBP204-12G SBP204G	3/4	20	1.3110 33.3	5.0000 127	3.7402 95	1.3780 35	0.5118 13	0.7480 19	0.5512 14	2.5591 65	0.2756 7	0.9842 25	3/8 10	SB204-12G SB204G	P204	1.40
SBP205-14G SBP205-15G SBP205G SBP205-16G	7/8 15/16 1	25	1.4370 36.5	5.5118 140	4.1338 105	1.4961 38	0.5118 13	0.7480 19	0.5906 15	2.7953 71	0.2953 7.5	1.0630 27	3/8 10	SB205-14G SB205-15G SB205G SB205-16G	P205	1.90
SBP206-18G SBP206G SBP206-19G SBP206-20G	1 1/8 1 3/16 1 1/4	30	1.6890 42.9	6.2992 160	4.7638 121	1.7323 44	0.5512 14	0.7480 19	0.6693 17	3.2677 83	0.3150 8	1.1811 30	1/2 12	SB206-18G SB206G SB206-19G SB206-20G	P206	2.80
SBP207-20G SBP207-21G SBP207-22G SBP207G SBP207-23G	1 1/4 1 5/16 1 3/8 1 7/16	35	1.8740 47.6	6.5748 167	5.0000 127	1.8898 48	0.5906 15	0.7480 19	0.7087 18	3.6614 93	0.3346 8.5	1.2598 32	1/2 12	SB207-20G SB207-21G SB207-22G SB207G SB207-23G	P207	3.70
SBP208-24G SBP208G	1 1/2	40	1.9370 49.2	7.0866 180	5.3939 137	2.1260 54	0.5906 15	0.8268 21	0.7480 19	3.8583 98	0.3543 9	1.3386 34	1/2 12	SB208-24G SB208G	P208	4.50
SBP209-27G SBP209-28G SBP209G	1 11/16 1 3/4	45	2.1260 54.0	7.4803 190	5.7480 146	2.1260 54	0.5906 15	0.8268 21	0.7874 20	4.1732 106	0.4016 10.2	1.6220 41.2	1/2 12	SB209-27G SB209-28G SB209G	P209	5.60
SBP210-31G SBP210G	1 15/16	50	2.2520 57.2	8.1102 206	6.2598 159	2.3622 60	0.7480 19	0.8661 22	0.8268 21	4.4882 114	0.4291 10.9	1.7126 43.5	5/8 16	SB210-31G SB210G	P210	6.75

Normally supplied as relube with "G" suffix.

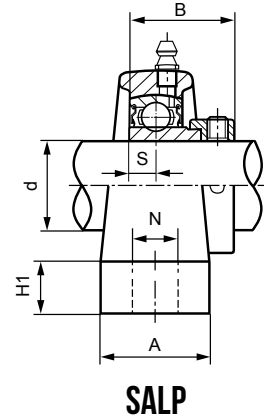
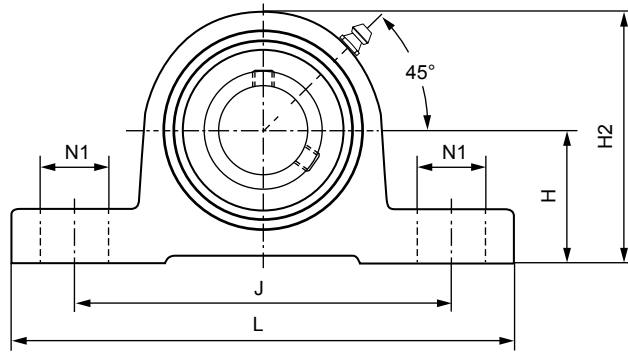
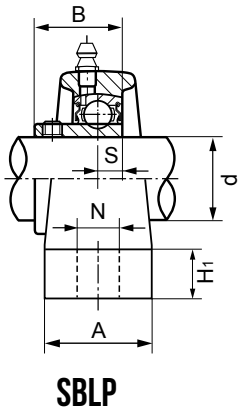
Non-relube units available. Please specify non-relube.



HLU Unit No.	Shaft Diameter		Dimensions (in./mm)										Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	L	J	A	N	N1	H1	H2	S	B				
SBPL201-08G SBPL202G SBPL202-10G SBPL203G	1/2 5/8	15 17	1.0630 27	4.8820 124	3.6220 92	1.1890 30.2	0.4331 11	0.8661 22	0.3504 8.9	2.1260 54	0.2362 6	0.8661 22	3/8 10	SB201-08G SB202G SB202-10G SB203G	PL203	1.00
SBPL204-12G SBPL204G	3/4	20	1.2520 31.8	5.2362 133	3.8583 98	1.6142 41	0.4331 11	0.5512 14	0.5512 14	2.4803 63	0.2756 7	0.9842 25	3/8 10	SB204-12G SB204G	PL204	1.65
SBPL205-14G SBPL205-15G SBPL205G SBPL205-16G	7/8 15/16	25	1.3110 33.3	5.5118 140	4.1339 105	1.4961 38	0.4528 11.5	0.8386 21.3	0.6299 16	2.6772 68	0.2953 7.5	1.0630 27	3/8 10	SB205-14G SB205-15G SB205G SB205-16G	PL205	1.85
SBPL206-18G SBPL206G SBPL206-19G SBPL206-20G	1 1/8 1 3/16	30	1.5630 39.7	8.2992 160	4.7638 121	1.8898 48	0.5512 14	0.7480 19	0.6693 17	3.1496 80	0.3150 8	1.1811 30	1/2 12	SB206-18G SB206G SB206-19G SB206-20G	PL206	3.00
SBPL207-20G SBPL207-21G SBPL207-22G SBPL207G SBPL207-23G	1 1/4 1 5/16 1 3/8	35	1.8110 46	6.5748 167	5.0000 127	1.8898 48	0.5512 14	0.7480 19	0.7480 19	3.6220 92	0.3346 8.5	1.2598 32	1/2 12	SB207-20G SB207-21G SB207-22G SB207G SB207-23G	PL207	3.70
SBPL208-24G SBPL208G	1 1/2	40	1.9370 49.2	7.1260 181	5.5118 140	2.1260 54	0.6299 16	0.7480 19	0.7480 19	3.9370 100	0.3543 9	1.3386 34	1/2 12	SB208-24G SB208G	PL208	4.70
SBPL209-27G SBPL209-28G SBPL209G	1 11/16 1 3/4	45	2.0630 52.4	7.4803 190	5.7480 146	2.1260 54	0.6299 16	0.7480 19	0.8268 21	4.1732 106	0.4016 10.2	1.6220 41.2	1/2 12	SB209-27G SB209-28G SB209G	PL209	5.60
SBPL210-31G SBPL210G	1 15/16	50	2.1890 55.6	7.9921 203	6.2598 159	2.2441 57	0.6890 17.5	0.8268 21	0.8662 22	4.4488 113	0.4291 10.9	1.7126 43.5	5/8 16	SB210-31G SB210G	PL210	6.90

Normally supplied as relube with "G" suffix.

Non-relube units available. Please specify non-relube.



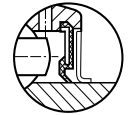
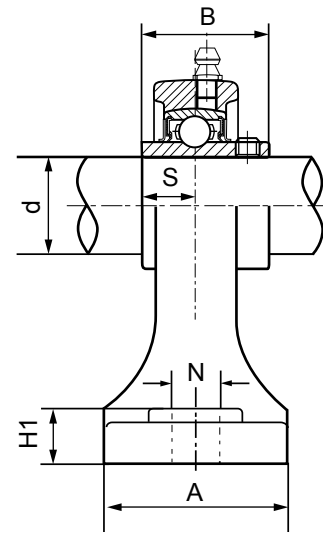
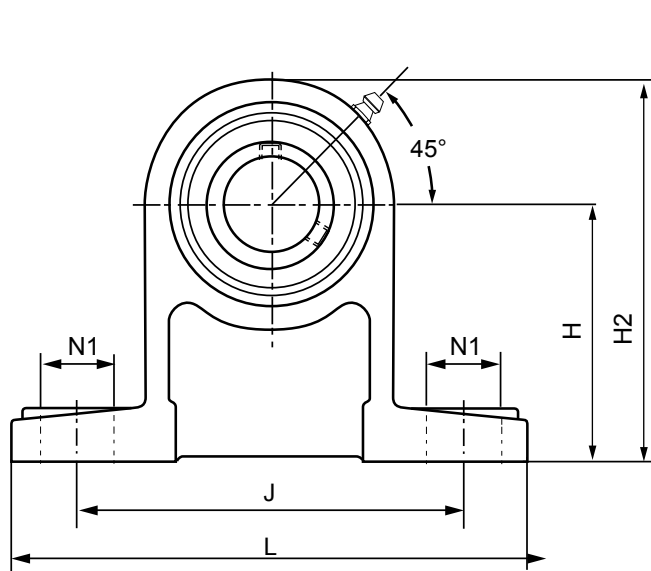
SBLP - Set Screw Locking

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)										Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	L	J	A	N	N1	H1	H2	S	B				
SBLP201-08G SBLP202G SBLP202-10G SBLP203G	1/2 5/8	15 17	1.1890 30.2	4.4882 114	3.4370 87.3	1.0000 25.4	0.4331 11	0.6299 16	0.4724 12	2.2441 57	0.2362 6	0.8661 22	3/8 10	SB201-08G SB202G SB202-10G SB203G	LP203	0.90
SBLP204-12G SBLP204G	3/4	20	1.3110 33.3	4.9213 125	3.8189 97	1.0630 27	0.4331 11	0.6299 16	0.5118 13	2.5591 65	0.2756 7	0.9843 25	3/8 10	SB204-12G SB204G	LP204	1.30
SBLP205-14G SBLP205-15G SBLP205G SBLP205-16G	7/8 1 1/16	25	1.4370 36.5	5.1181 130	3.9370 100	1.1417 29	0.4331 11	0.6299 16	0.5118 13	2.7559 70	0.2953 7.5	1.0630 27	3/8 10	SB205-14G SB205-15G SB205G SB205-16G	LP205	1.50
SBLP206-18G SBLP206G SBLP206-19G SBLP206-20G	1 1/8 1 3/16 1 1/4	30	1.6890 42.9	6.1417 156	4.7244 120	1.2992 33	0.5512 14	0.8268 21	0.6299 16	3.2677 83	0.3150 8	1.1811 30	1/2 12	SB206-18G SB206G SB206-19G SB206-20G	LP206	2.30
SBLP207-20G SBLP207-21G SBLP207-22G SBLP207G SBLP207-23G	1 1/4 1 5/16 1 3/8 1 7/16	35	1.8740 47.6	6.4961 165	5.0000 127	1.3780 35	0.5512 14	0.8268 21	0.6299 16	3.6220 92	0.3346 8.5	1.2598 32	1/2 12	SB207-20G SB207-21G SB207-22G SB207G SB207-23G	LP207	3.00

SALP - Eccentric Locking Collar

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)										Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	L	J	A	N	N1	H1	H2	S	B				
SALP201-08G SALP202G SALP202-10G SALP203G	1/2 5/8	15 17	1.1890 30.2	4.4882 114	3.4370 87.3	1.0000 25.4	0.4331 11	0.6299 16	0.4724 12	2.2441 57	0.2559 6.5	1.1260 28.6	3/8 10	SA201-08G SA202G SA202-10G SA203G	LP203	1.00
SALP204-12G SALP204G	3/4	20	1.3110 33.3	4.9213 125	3.8189 97	1.0630 27	0.4331 11	0.6299 16	0.5118 13	2.5591 65	0.2953 7.5	1.2205 31	3/8 10	SA204-12G SA204G	LP204	1.40
SALP205-14G SALP205-15G SALP205G SALP205-16G	7/8 1 1/16	25	1.4370 36.5	5.1181 130	3.9370 100	1.1417 29	0.4331 11	0.6299 16	0.5118 13	2.7559 70	0.2953 7.5	1.2205 31	3/8 10	SA205-14G SA205-15G SA205G SA205-16G	LP205	1.50
SALP206-18G SALP206G SALP206-19G SALP206-20G	1 1/8 1 3/16 1 1/4	30	1.6890 42.9	6.1417 156	4.7244 120	1.2992 33	0.5512 14	0.8268 21	0.6299 16	3.2677 83	0.3543 9	1.4055 35.7	1/2 12	SA206-18G SA206G SA206-19G SA206-20G	LP206	2.45
SALP207-20G SALP207-21G SALP207-22G SALP207G SALP207-23G	1 1/4 1 5/16 1 3/8 1 7/16	35	1.8740 47.6	6.4961 165	5.0000 127	1.3780 35	0.5512 14	0.8268 21	0.6299 16	3.6220 92	0.3740 9.5	1.5315 38.9	1/2 12	SA207-20G SA207-21G SA207-22G SA207G SA207-23G	LP207	3.15

Normally supplied as relube with "G" suffix. Non-relube units available. Please specify non-relube.



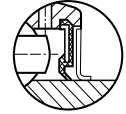
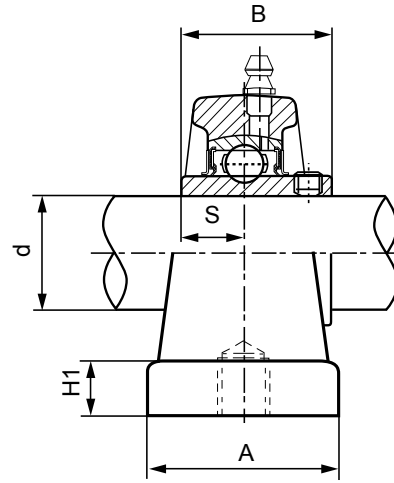
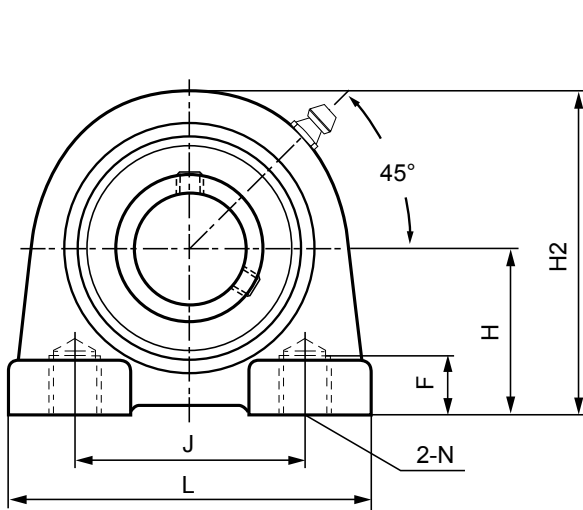
Standard B Type Seal



Optional Triple-lip seal
(+ Suffix - R3)

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)										Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	L	J	A	N	N1	H1	H2	S	B				
UCPH204-12 UCPH204	3/4	20	2.7559 70	5.0000 127	3.7402 95	1.5748 40	0.5118 13	0.7480 19	0.5906 15	3.9764 101	0.5000 12.7	1.2250 31	3/8 10	UC204-12 UC204	PH204	2.10
UCPH205-14 UCPH205-15 UCPH205 UCPH205-16	7/8 15/16	25	3.1496 80	5.5118 140	4.1338 105	1.9685 50	0.5118 13	0.7480 19	0.6299 16	4.4882 114	0.5630 14.3	1.3425 34.1	3/8 10	UC205-14 UC205-15 UC205 UC205-16	PH205	2.65
UCPH206-17 UCPH206-18 UCPH206 UCPH206-19 UCPH206-20	1 1/16 1 1/8	30	3.5433 90	6.4961 165	4.7638 121	1.9685 50	0.6693 17	0.8268 21	0.7087 18	5.1181 130	0.6260 15.9	1.5000 38.1	9/16 14	UC206-17 UC206-18 UC206 UC206-19 UC206-20	PH206	4.15
UCPH207-20 UCPH207-21 UCPH207-22 UCPH207 UCPH207-23	1 1/4 1 5/16 1 3/8	35	3.7402 95	6.5748 167	5.0000 127	2.3622 60	0.6693 17	0.8268 21	0.7480 19	5.5118 140	0.6890 17.5	1.6890 42.9	9/16 14	UC207-20 UC207-21 UC207-22 UC207 UC207-23	PH207	5.25
UCPH208-24 UCPH208-25 UCPH208	1 1/2 1 5/16	40	3.9370 100	7.2441 184	5.3937 137	2.7559 70	0.6693 17	0.9843 25	0.7480 19	5.9055 150	0.7480 19.0	1.9370 49.2	9/16 14	UC208-24 UC208-25 UC208	PH208	6.15
UCPH209-26 UCPH209-27 UCPH209-28 UCPH209	1 5/8 1 11/16 1 3/4	45	4.1338 105	7.4803 190	5.7480 146	2.7559 70	0.6693 17	0.9843 25	0.7874 20	6.2205 158	0.7480 19.0	1.9370 49.2	9/16 14	UC209-26 UC209-27 UC209-28 UC209	PH209	7.00
UCPH210-30 UCPH210-31 UCPH210 UCPH210-32	1 7/8 1 15/16	50	4.3307 110	8.1102 206	6.2598 159	2.7559 70	0.7874 20	0.9843 25	0.8661 22	6.4961 165	0.7480 19.0	2.0315 51.6	5/8 16	UC210-30 UC210-31 UC210 UC210-32	PH210	8.10

Available by special order.

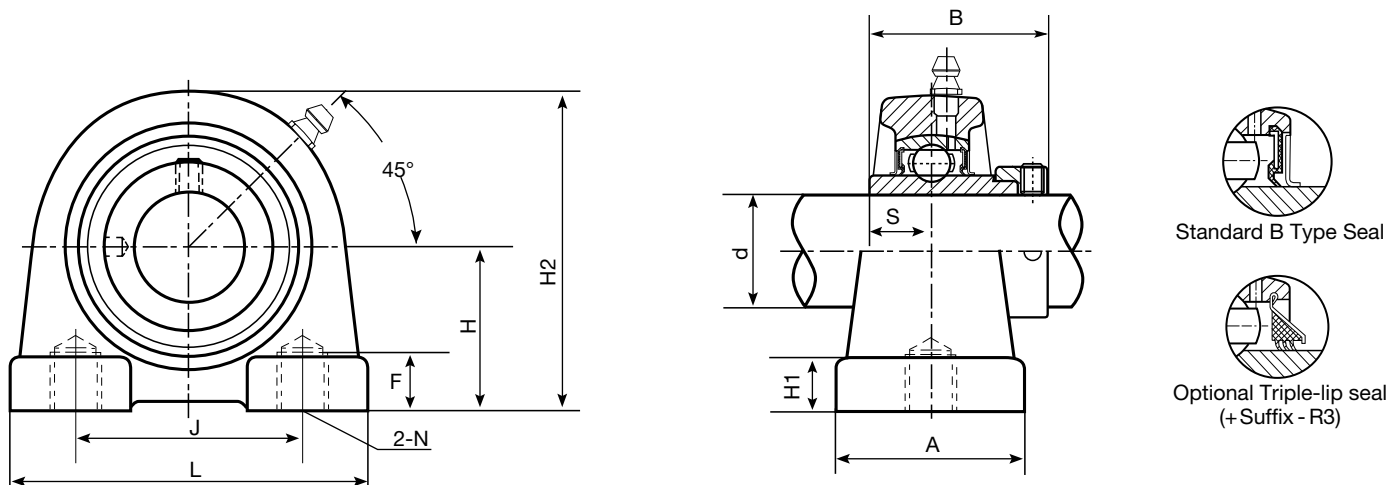


Standard B Type Seal

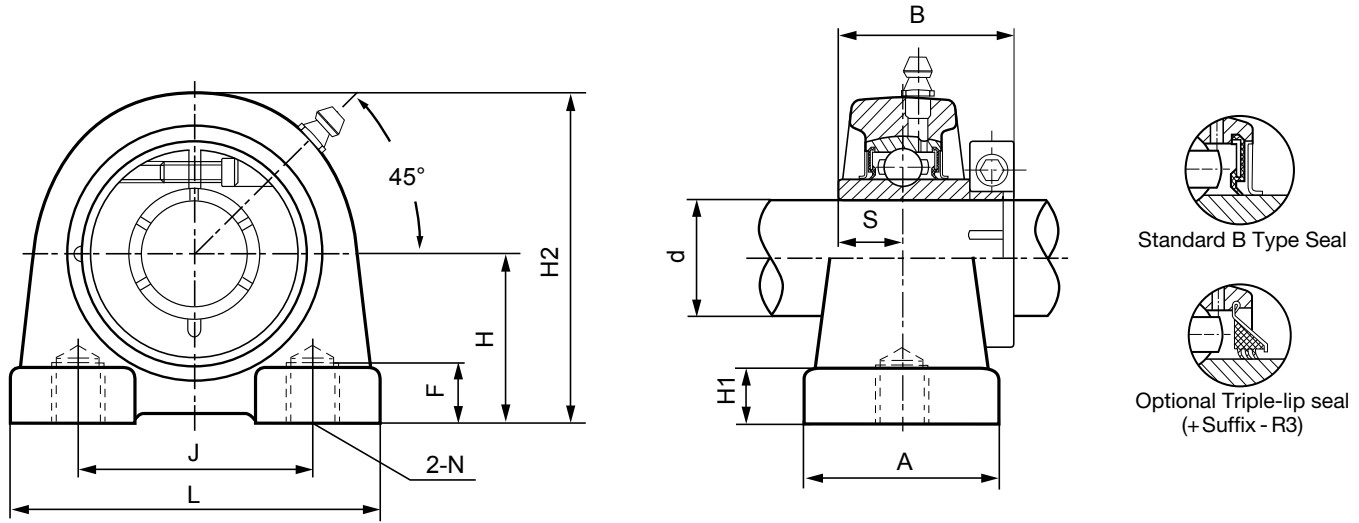


Optional Triple-lip seal
(+ Suffix - R3)

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)									Tapped Holes	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	L	J	A	H1	H2	F	S	B	2-N			
UCPA204-08 UCPA204-10 UCPA204-12 UCPA204	1/2 5/8 3/4	20	1.3110 33.3	2.8740 73	2.0000 50.8	1.4961 38	0.4331 11	2.5591 65	1/2 13	0.500 12.7	1.2205 31	3/8 - 16UNC	UC204-08 UC204-10 UC204-12 UC204	PA204	1.45
UCPA205-14 UCPA205-15 UCPA205 UCPA205-16	7/8 1 1/16 1	25	1.4370 36.5	2.9921 76	2.0000 50.8	1.4961 38	0.4724 12	2.7953 71	1/2 13	0.5630 14.3	1.3425 34.1	3/8 - 16UNC	UC205-14 UC205-15 UC205 UC205-16	PA205	1.60
UCPA206-17 UCPA206-18 UCPA206 UCPA206-19 UCPA206-20	1 1/16 1 1/8 1 3/16 1 1/4	30	1.6890 42.9	4.0157 102	3.0000 76.2	1.4961 38	0.4724 12	3.4252 87	5/8 16	0.6260 15.9	1.5000 38.1	7/16 - 14UNC	UC206-17 UC206-18 UC206 UC206-19 UC206-20	PA206	2.75
UCPA207-20 UCPA207-21 UCPA207-22 UCPA207 UCPA207-23	1 1/4 1 5/16 1 3/8 1 7/16	35	1.8740 47.6	4.2520 108	3.2480 82.5	1.8898 48	0.4724 12	3.7402 95	3/4 19	0.6890 17.5	1.6890 42.9	1/2 - 13UNC	UC207-20 UC207-21 UC207-22 UC207 UC207-23	PA207	3.60
UCPA208-24 UCPA208-25 UCPA208	1 1/2 1 9/16	40	1.9370 49.2	4.6260 117.5	3.5000 88.9	1.8898 48	0.4724 12	3.9370 100	3/4 19	0.7480 19	1.9370 49.2	1/2 - 13UNC	UC208-24 UC208-25 UC208	PA208	4.15
UCPA209-26 UCPA209-27 UCPA209-28 UCPA209	1 5/8 1 11/16 1 3/4	45	2.1260 54	5.0000 127	3.7520 95.3	2.0079 51	0.4724 12	4.2520 108	3/4 19	0.7480 19	1.9370 49.2	1/2 - 13UNC	UC209-26 UC209-27 UC209-28 UC209	PA209	5.10
UCPA210-30 UCPA210-31 UCPA210 UCPA210-32	1 7/8 1 15/16 2	50	2.2500 57.15	5.5118 140	4.0000 101.6	2.0079 51	0.5512 14	4.6260 117.5	31/32 25	0.7480 19	2.0315 51.6	3/4 - 11UNC	UC210-30 UC210-31 UC210 UC210-32	PA210	6.25

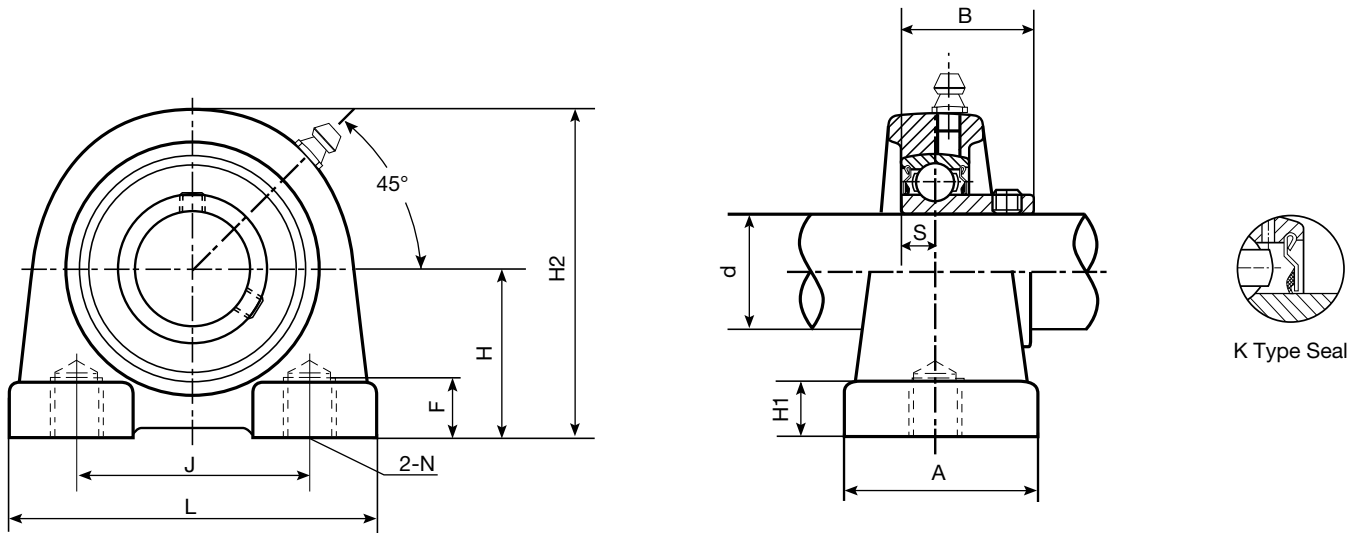


HLU Unit No.	Shaft Diameter		Dimensions (in./mm)									Tapped Holes	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	L	J	A	H1	H2	F	S	B	2-N			
NAPA204-08 NAPA204-10 NAPA204-12 NAPA204	1/2 5/8 3/4	20	1.3110 33.3	2.8740 73	2.0000 50.8	1.4961 38	0.4331 11	2.5591 65	1/2 13	0.6732 17.1	1.7205 43.7	3/8 - 16UNC	NA204-08 NA204-10 NA204-12 NA204	PA204	1.40
NAPA205-14 NAPA205-15 NAPA205 NAPA205-16	7/8 15/16 1	25	1.4370 36.5	2.9921 76	2.0000 50.8	1.4961 38	0.4724 12	2.7953 71	1/2 13	0.6890 17.5	1.7480 44.4	3/8 - 16UNC	NA205-14 NA205-15 NA205 NA205-16	PA205	1.65
NAPA206-17 NAPA206-18 NAPA206 NAPA206-19 NAPA206-20	1 1/16 1 1/8 1 3/16 1 1/4	30	1.6890 42.9	4.0157 102	3.0000 76.2	1.4961 38	0.4724 12	3.4252 87	5/8 16	0.7205 18.3	1.9055 48.4	7/16 - 14UNC	NA206-17 NA206-18 NA206 NA206-19 NA206-20	PA206	2.75
NAPA207-20 NAPA207-21 NAPA207-22 NAPA207 NAPA207-23	1 1/4 1 5/16 1 3/8 1 7/16	35	1.8740 47.6	4.2520 108	3.2480 82.5	1.8898 48	0.4724 12	3.7402 95	3/4 19	0.7402 18.8	2.0118 51.1	1/2 - 13UNC	NA207-20 NA207-21 NA207-22 NA207 NA207-23	PA207	3.85
NAPA208-24 NAPA208-25 NAPA208	1 1/2 1 9/16	40	1.9370 49.2	4.6260 117.5	3.5000 88.9	1.8898 48	0.4724 12	3.9370 100	3/4 19	0.8425 21.4	2.2165 56.3	1/2 - 13UNC	NA208-24 NA208-25 NA208	PA208	4.45
NAPA209-26 NAPA209-27 NAPA209-28 NAPA209	1 5/8 1 11/16 1 3/4	45	2.1260 54	5.0000 127	3.7520 95.3	2.0079 51	0.4724 12	4.2520 108	3/4 19	0.8425 21.4	2.2165 56.3	1/2 - 13UNC	NA209-26 NA209-27 NA209-28 NA209	PA209	5.35
NAPA210-30 NAPA210-31 NAPA210 NAPA210-32	1 7/8 1 15/16 2	50	2.2500 57.15	5.5118 140	4.0000 101.6	2.0079 51	0.5512 14	4.6260 117.5	31/32 25	0.9685 24.6	2.4685 62.7	5/8 - 11UNC	NA210-30 NA210-31 NA210 NA210-32	PA210	6.60



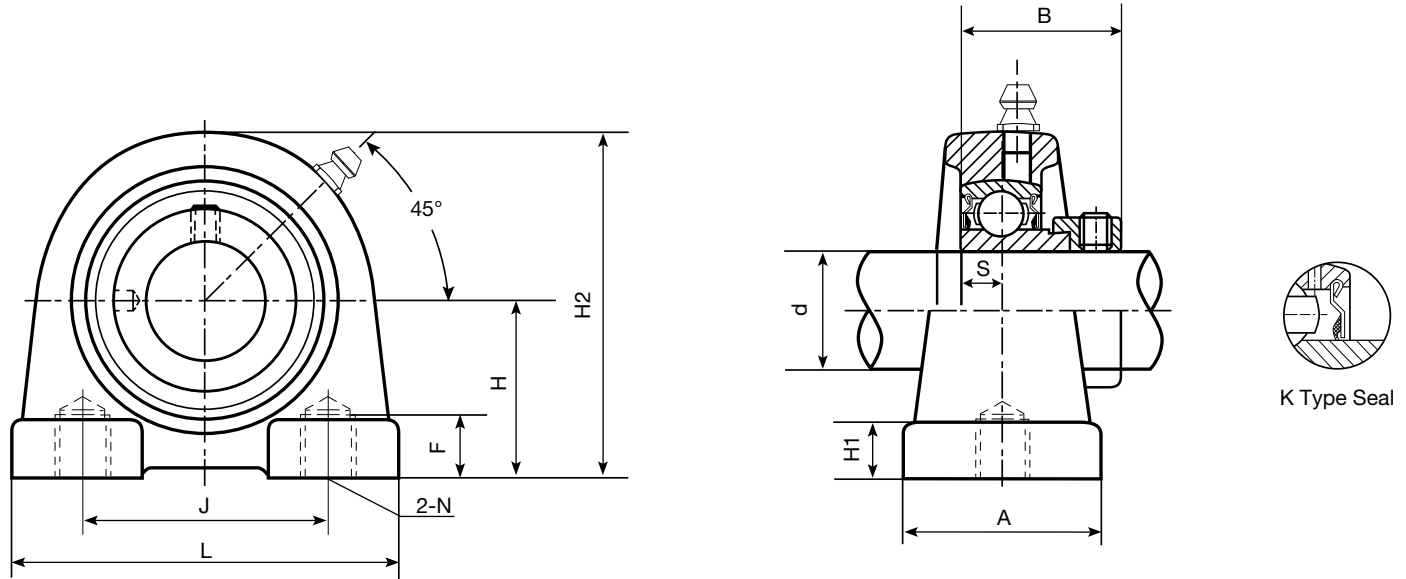
HLU Unit No.	Shaft Diameter in.	Dimensions (in.) (mm)									Tapped Holes 2-N	Bearing No.	Housing No.	Weight lbs
		H	L	J	A	H1	H2	F	S	B				
HLP A204-12	3/4	1.3110 33.3	2.8740 73	2.0000 50.8	1.4961 38	0.4331 11	2.5591 65	1/2 13	0.500 12.7	1.2795 32.5	3/8 - 16UNC	HL204-12	PA204	1.58
HLP A205-15 HLP A205-16	1 1/16 1	1.4370 36.5	2.9921 76	2.0000 50.8	1.4961 38	0.4724 12	2.7953 71	1/2 13	0.5630 14.3	1.4370 36.5	3/8 - 16UNC	HL205-15 HL205-16	PA205	1.95
HLP A206-18 HLP A206-19 HLP A206-20	1 1/8 1 3/16 1 1/4	1.6890 42.9	4.0157 102	3.0000 76.2	1.4961 38	0.4724 12	3.4252 87	5/8 16	0.6260 15.9	1.5630 39.7	7/16 - 14UNC	HL206-18 HL206-19 HL206-20	PA206	3.20
HLP A207-20 HLP A207-22 HLP A207-23	1 1/4 1 3/8 1 7/16	1.8740 47.6	4.2520 108	3.2480 82.5	1.8898 48	0.4724 12	3.7402 95	3/4 19	0.6890 17.5	1.7913 45.5	1/2 - 13UNC	HL207-20 HL207-22 HL207-23	PA207	4.05
HLP A208-24	1 1/2	1.9370 49.2	4.6260 117.5	3.5000 88.9	1.8898 48	0.4724 12	3.9370 100	3/4 19	0.7480 19	2.0000 50.8	1/2 - 13UNC	HL208-24	PA208	4.50
HLP A209-26 HLP A209-27 HLP A209-28	1 5/8 1 11/16 1 3/4	2.1260 54	5.0000 127	3.7520 95.3	2.0079 51	0.4724 12	4.2520 108	3/4 19	0.7480 19	2.0000 50.8	1/2 - 13UNC	HL209-26 HL209-27 HL209-28	PA209	5.40
HLP A210-31 HLP A210-32	1 15/16 2	2.2500 57.15	5.5118 140	4.0000 101.6	2.0079 51	0.5512 14	4.6260 117.5	31/32 25	0.7480 19	2.0945 53.2	5/8 - 11UNC	HL210-31 HL210-32	PA210	7.00

Refer to recommended cap screw tightening torque table for proper tightening torques.



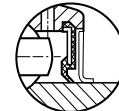
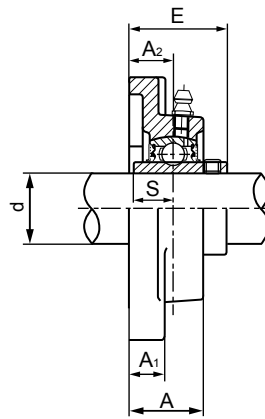
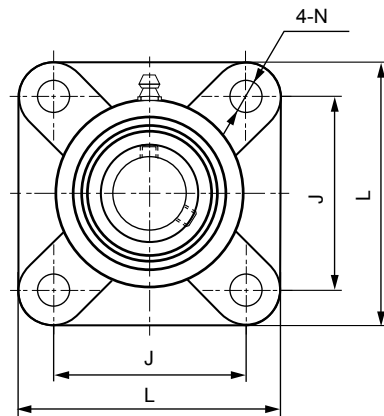
HLU Unit No.	Shaft Diameter		Dimensions (in./mm)									Tapped Holes	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	L	J	A	H1	H2	F	S	B	2-N			
SBPA204-12G SBPA204G	3/4	20	1.3110 33.3	2.8740 73	2.0000 50.8	1.4961 38	0.4331 11	2.5591 65	1/2 13	0.2756 7	0.9842 25	3/8 - 16UNC	SB204-12G SB204G	PA204	1.10
SBPA205-14G SBPA205-15G SBPA205G SBPA205-16G	7/8 1 1/16 1	25	1.4370 36.5	2.9921 76	2.0000 50.8	1.4961 38	0.4724 12	2.7953 71	1/2 13	0.2953 7.5	1.0630 27	3/8 - 16UNC	SB205-14G SB205-15G SB205G SB205-16G	PA205	1.45
SBPA206-17G SBPA206-18G SBPA206G SBPA206-19G SBPA206-20G	1 1/16 1 1/8 1 3/16 1 1/4	30	1.6890 42.9	4.0157 102	3.0000 76.2	1.4961 38	0.4724 12	3.4252 87	5/8 16	0.3150 8	1.1811 30	7/16 - 14UNC	SB206-17G SB206-18G SB206G SB206-19G SB206-20G	PA206	2.45
SBPA207-20G SBPA207-21G SBPA207-22G SBPA207G SBPA207-23G	1 1/4 1 5/16 1 3/8 1 7/16	35	1.8740 47.6	4.2520 108	3.2480 82.5	1.8898 48	0.4724 12	3.7402 95	3/4 19	0.3346 8.5	1.2598 32	1/2 - 13UNC	SB207-20G SB207-21G SB207-22G SB207G SB207-23G	PA207	3.35
SBPA208-24G SBPA208-25G SBPA208G	1 1/2 1 9/16	40	1.9370 49.2	4.6260 117.5	3.5000 88.9	1.8898 48	0.4724 12	3.9370 100	3/4 19	0.3543 9	1.3386 34	1/2 - 13UNC	SB208-24G SB208-25G SB208G	PA208	3.70
SBPA209-26G SBPA209-27G SBPA209-28G SBPA209G	1 5/8 1 11/16 1 3/4	45	2.1260 54	5.0000 127	3.7520 95.3	2.0079 51	0.4724 12	4.2520 108	3/4 19	0.4016 10.2	1.6220 41.2	1/2 - 13UNC	SB209-26G SB209-27G SB209-28G SB209G	PA209	5.20
SBPA210-30G SBPA210-31G SBPA210G SBPA210-32G	1 7/8 1 15/16 2	50	2.2500 57.15	5.5118 140	4.0000 101.6	2.0079 51	0.5512 14	4.6260 117.5	31/32 25	0.4291 10.9	1.7126 43.5	5/8 - 11UNC	SB210-30G SB210-31G SB210G SB210-32G	PA210	6.30

Normally supplied as relube with "G" suffix.
Non-relube units available. Please specify non-relube.

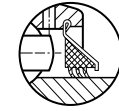


HLU Unit No.	Shaft Diameter		Dimensions (in./mm)									Tapped Holes	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	L	J	A	H1	H2	F	S	B				
SAPA204-12G SAPA204G	3/4	20	1.3110 33.3	2.8740 73	2.0000 50.8	1.4961 38	0.4331 11	2.5591 65	1/2 13	0.2953 7.5	0.8465 21.5	3/8 - 16UNC	SA204-12G SA204G	PA204	1.30
SAPA205-14G SAPA205-15G SAPA205G SAPA205-16G	7/8 15/16 1	25	1.4370 36.5	2.9921 76	2.0000 50.8	1.4961 38	0.4724 12	2.7953 71	1/2 13	0.2953 7.5	1.2205 31	3/8 - 16UNC	SA205-14G SA205-15G SA205G SA205-16G	PA205	1.50
SAPA206-17G SAPA206-18G SAPA206G SAPA206-19G SAPA206-20G	1 1/16 1 1/8 1 3/16 1 1/4	30	1.6890 42.9	4.0157 102	3.0000 76.2	1.4961 38	0.4724 12	3.4252 87	5/8 16	0.3543 9.0	1.4055 35.7	7/16 - 14UNC	SA206-17G SA206-18G SA206G SA206-19G SA206-20G	PA206	2.60
SAPA207-20G SAPA207-21G SAPA207-22G SAPA207G SAPA207-23G	1 1/4 1 5/16 1 3/8 1 7/16	35	1.8740 47.6	4.2520 108	3.2480 82.5	1.8898 48	0.4724 12	3.7402 95	3/4 19	0.3740 9.5	1.5313 38.9	1/2 - 13UNC	SA207-20G SA207-21G SA207-22G SA207G SA207-23G	PA207	3.55
SAPA208-24G SAPA208-25G SAPA208G	1 1/2 1 5/8	40	1.9370 49.2	4.6260 117.5	3.5000 88.9	1.8898 48	0.4724 12	3.9370 100	3/4 19	0.4331 11.0	1.7205 43.7	1/2 - 13UNC	SA208-24G SA208-25G SA208G	PA208	4.20
SAPA209-26G SAPA209-27G SAPA209-28G SAPA209G	1 5/8 1 11/16 1 3/4	45	2.1260 54	5.0000 127	3.7520 95.3	2.0079 51	0.4724 12	4.2520 108	3/4 19	0.4331 11.0	1.7205 43.7	1/2 - 13UNC	SA209-26G SA209-27G SA209-28G SA209G	PA209	5.00
SAPA210-30G SAPA210-31G SAPA210G SAPA210-32G	1 7/8 1 15/16 2	50	2.2500 57.15	5.5118 140	4.0000 101.6	2.0079 51	0.5512 14	4.6260 117.5	31/32 25	0.4331 11.0	1.7205 43.7	5/8 - 11UNC	SA210-30G SA210-31G SA210G SA210-32G	PA210	6.10

Normally supplied as relube with "G" suffix.
Non-relube units available. Please specify non-relube.

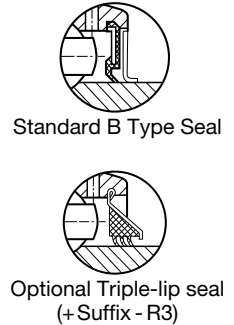
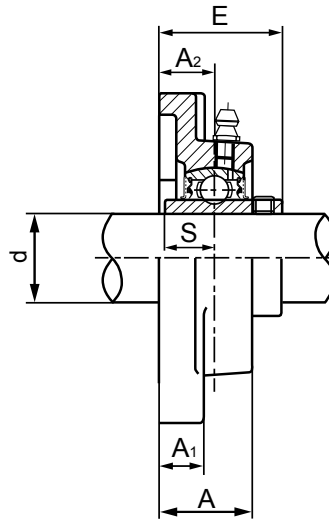
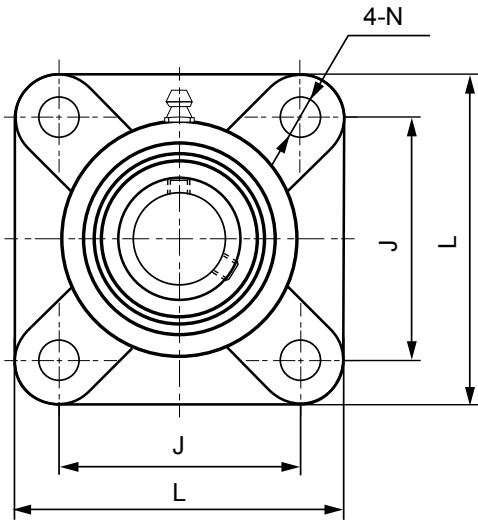


Standard B Type Seal

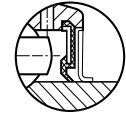
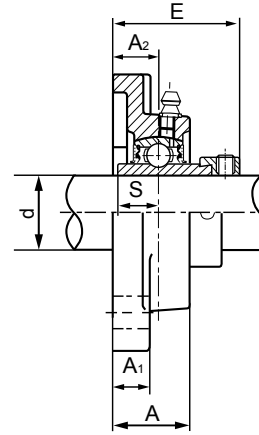
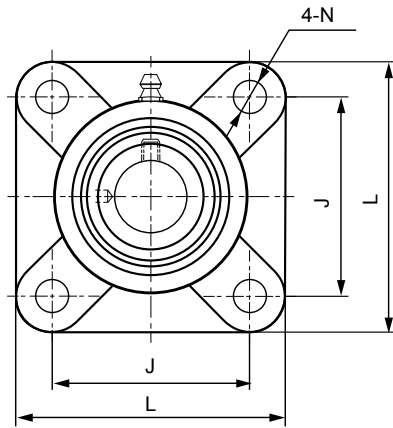


Optional Triple-lip seal
(+Suffix - R3)

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)								Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	L	J	A2	A1	A	E	N	S				
UCF201-08 UCF202 UCF202-10 UCF203	1/2 5/8	15 17	2.9921 76	2.1260 54	0.6693 17	0.5118 13	0.9843 25	1.2953 32.9	0.4055 10.3	0.4528 11.5	3/8 10	UC201-08 UC202 UC202-10 UC203	F203	.90
UCF204-08 UCF204-10 UCF204-12 UCF204	1/2 5/8 3/4	20	3.3858 86	2.5197 64	0.5906 15	0.4724 12	1.0039 25.5	1.3110 33.3	0.4528 11.5	0.5000 12.7	7/16 11	UC204-08 UC204-10 UC204-12 UC204	F204	1.25
UCF205-14 UCF205-15 UCF205 UCF205-16	7/8 15/16	25	3.7402 95	2.7559 70	0.6299 16	0.5118 13	1.0630 27	1.4094 35.8	0.4528 11.5	0.5630 14.3	7/16 11	UC205-14 UC205-15 UC205 UC205-16	F205	1.70
UCF206-17 UCF206-18 UCF206 UCF206-19 UCF206-20	1 1/16 1 1/8	30	4.2520 108	3.2677 83	0.7087 18	0.5630 14.3	1.2205 31	1.5827 40.2	0.4528 11.5	0.6260 15.9	7/16 11	UC206-17 UC206-18 UC206 UC206-19 UC206-20	F206	2.40
UCF207-20 UCF207-21 UCF207-22 UCF207 UCF207-23	1 1/4 1 5/16 1 3/8	35	4.6063 117	3.6220 92	0.7480 19	0.6102 15.5	1.3386 34	1.7480 44.4	0.5118 13	0.6890 17.5	1/2 12	UC207-20 UC207-21 UC207-22 UC207 UC207-23	F207	3.30
UCF208-24 UCF208-25 UCF208	1 1/2 1 9/16	40	5.1181 130	4.0157 102	0.8268 21	0.6102 15.5	1.4173 36	2.0157 51.2	0.5512 14	0.7480 19	1/2 12	UC208-24 UC208-25 UC208	F208	3.90
UCF209-26 UCF209-27 UCF209-28 UCF209	1 5/8 1 11/16 1 3/4	45	5.3937 137	4.1339 105	0.8661 22	0.6890 17.5	1.4961 38	2.0551 52.2	0.6299 16	0.7480 19	9/16 14	UC209-26 UC209-27 UC209-28 UC209	F209	4.75
UCF210-30 UCF210-31 UCF210 UCF210-32	1 7/8 1 15/16	50	5.6299 143	4.3701 111	0.8661 22	0.6890 17.5	1.5748 40	2.1496 54.6	0.6299 16	0.7480 19	5/8 16	UC210-30 UC210-31 UC210 UC210-32	F210	5.20
UCF211-32 UCF211-34 UCF211 UCF211-35	2 2 1/8	55	6.3780 162	5.1181 130	0.9843 25	0.7677 19.5	1.6929 43	2.2992 58.4	0.6693 17	0.8740 22.2	5/8 16	UC211-32 UC211-34 UC211 UC211-35	F211	7.60
UCF212-36 UCF212 UCF212-38 UCF212-39	2 1/4 2 3/8 2 7/16	60	6.8898 175	5.6299 143	1.1417 29	0.7677 19.5	1.8898 48	2.7047 68.7	0.6693 17	1.0000 25.4	5/8 16	UC212-36 UC212 UC212-38 UC212-39	F212	9.30
UCF213-40 UCF213	2 1/2	65	7.3622 187	5.8661 149	1.1811 30	0.9055 23	1.9685 50	2.7441 69.7	0.6693 17	1.0000 25.4	5/8 16	UC213-40 UC213	F213	11.70
UCF214-44 UCF214	2 3/4	70	7.5984 193	5.9843 152	1.2205 31	0.9055 23	2.1260 54	2.9685 75.4	0.7480 19	1.1890 30.2	5/8 16	UC214-44 UC214	F214	12.75
UCF215 UCF215-47 UCF215-48	2 15/16 3	75	7.8740 200	6.2598 159	1.3386 34	0.9055 23	2.2047 56	3.0906 78.5	0.7480 19	1.3110 33.3	5/8 16	UC215 UC215-47 UC215-48	F215	13.30



HLU Unit No.	Shaft Diameter		Dimensions (in.) (mm)								Bolt Used (in.) (mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	L	J	A2	A1	A	N	E	S				
UCFX05 UCFX05-16	1	25	4.2520 108	3.2450 82.5	0.7087 18	.5000 12.7	1.1811 30	.4528 11.5	1.5827 40.2	.6260 15.9	7/16 11	UCX05 UCX05-16	FX05	2.38
UCFX06 UCFX06-19 UCFX06-20	1 3/16 1 1/4	30	4.6063 117	3.6260 92.1	.7480 19	.5630 14.3	1.3386 34	.5118 13	1.7480 44.4	.6890 17.5	1/2 12	UCX06 UCX06-19 UC207-20	FX06	3.04
UCFX07 UCFX07-22 UCFX07-23	1 3/8 1 7/16	35	5.1181 130	4.000 101.6	.8268 21	.5630 14.3	1.4961 38	.5118 13	2.0157 51.2	.7480 19.0	1/2 12	UCX07 UCX07-22 UCX07-23	FX07	3.88
UCFX08 UCFX08-24	1 1/2	40	5.3937 137	4.1260 104.8	.08661 22	.5630 14.3	1.5748 40	.5118 13	2.0551 52.2	.7480 19.0	1/2 12	UCX08 UCX08-24	FX08	4.15
UCFX09 UCFX09-27 UCFX09-28	1 11/16 1 3/4	45	5.6300 143	4.3740 111.1	.9055 23	.5630 14.3	1.5748 40	.6299 16	2.1890 55.6	.7480 19.0	5/8 16	UCX09 UCX09-27 UCX09-28	FX09	5.53
UCFX10 UCFX10-31 UCFX10-32	1 15/16 2	50	6.3780 162	5.1260 130.2	1.02362 26	.7795 19.8	1.7323 44	.6693 17	2.3386 59.4	.8742 22.2	5/8 16	UCX10 UCX10-31 UC211-32	FX10	8.14
UCFX11 UCFX11-35 UCFX11-36	2 3/16 2 1/4	55	6.8898 175	5.6260 142.9	1.1417 29	.7795 19.8	1.9291 49	.6693 17	2.7047 68.7	1.0 25.4	5/8 16	UCX11 UCX11-35 UC212-36	FX11	9.94
UCFX12 UCFX12-39	2 7/16	60	7.3622 187	5.8740 149.2	1.3386 34	.8110 20.6	2.3228 59	.6417 16.3	2.9016 73.7	1.0 25.4	5/8 16	UCX12 UCX12-39	FX12	11.46
UCFX13 UCFX13-40	2 1/2	65	7.3622 187	5.8740 149.2	1.3386 34	.8110 20.6	2.3228 59	.6441 16.36	3.0866 78.4	1.1890 30.2	5/8 16	UCX13 UCX13-40	FX13	11.91
UCFX14 UCFX14-43	2 11/16	70	7.7560 197	6.000 152.4	1.4567 37	.9370 23.8	2.3622 60	.7795 19.8	3.2087 81.5	1.3110 33.3	3/4 20	UCX14 UCX14-43	FX14	16.58
UCFX15 UCFX15-47 UCFX15-48	2 15/16 3	75	7.7560 197	6.000 152.4	1.5748 40	.9370 23.8	2.6772 68	.7795 19.8	3.5157 89.3	1.3110 33.3	3/4 20	UCX15 UCX15-47 UCX15-48	FX15	17.22
UCFX17 UCFX17-55 UCFX17-56	3 7/16 3 1/2	85	8.4252 214	6.7520 171.5	1.5748 40	.9370 23.8	2.7560 70	.7795 19.8	3.7913 96.3	1.5630 39.7	3/4 20	UCX17 UCX17-55 UCX17-56	FX17	22.36
UCFX20 UCFX20-63 UCFX20-64	3 15/16 4	100	10.5512 268	8.3071 211	2.3228 59	1.2205 31	3.8189 97	1.0945 27.8	5.012 127.3	1.9370 49.2	1 27	UCX20 UCX20-63 UCX20-64	FX20	37.41

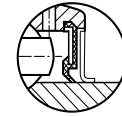
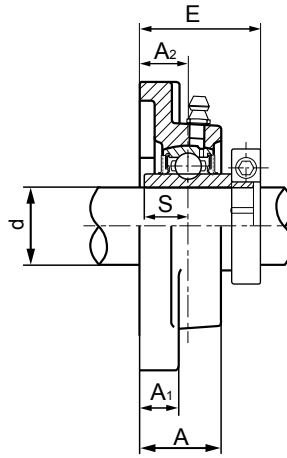
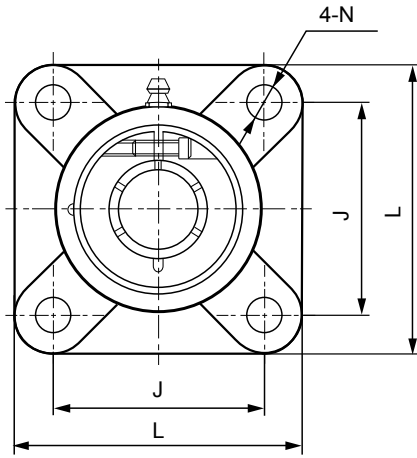


Standard B Type Seal

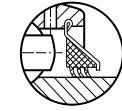


Optional Triple-lip seal
(+Suffix - R3)

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)								Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	L	J	A2	A1	A	E	N	S				
NANF201-08	1/2	15	2.9921	2.1260	0.6693	0.5118	0.9843	1.5906	1.5789	0.5472	3/8 10	NA201-08 NA202 NA202-10 NA203	F203	1.15
NANF202	5/8	17	76	54	17	13	25	40.4	10.3	13.9				
NANF202-10 NANF203														
NANF204-10	5/8	20	3.3858	2.5000	0.7480	0.5906	1.1614	1.7953	0.4528	0.6732	7/16 11	NA204-10 NA204-12 NA204	NF204	1.65
NANF204-12 NANF204	3/4		86	63.5	19	15	29.5	45.6	11.5	17.1				
NANF205-14	7/8	25	3.6614	2.7559	0.7480	0.5906	1.1811	1.8071	0.4528	0.6890	7/16 11	NA205-14 NA205-15 NA205 NA205-16	NF205	1.80
NANF205-15 NANF205	15/16		93	70	19	15	30	45.9	11.5	17.5				
NANF205-16	1													
NANF206-17	1 1/16	30	4.1732	3.2480	0.7874	0.6299	1.2795	1.9724	0.4528	0.7205	7/16 11	NA206-17 NA206-18 NA206 NA206-19 NA206-20	NF206	2.55
NANF206-18	1 1/8		106	82.5	20	16	32.5	50.1	11.5	18.3				
NANF206	1 3/16													
NANF206-19	1 1/4													
NANF206-20														
NANF207-20	1 1/4	35	4.5669	3.6220	0.8268	0.6693	1.3780	2.0984	0.5118	0.7402	1/2 12	NA207-20 NA207-21 NA207-22 NA207 NA207-23	NF207	3.60
NANF207-21	1 5/16		116	92	21	17	35	53.3	13	18.8				
NANF207-22	1 3/8													
NANF207														
NANF207-23	1 7/16													
NANF208-24	1 1/2	40	5.0787	3.9961	0.9449	0.6693	1.5354	2.3189	0.5512	0.8425	1/2 12	NA208-24 NA208-25 NA208	NF208	4.25
NANF208-25	1 5/16		129	101.5	24	17	39	58.9	14	21.4				
NANF208														
NANF209-26	1 5/8	45	5.3150	4.1339	0.9449	0.7087	1.5748	2.3189	0.6299	0.8425	9/16 14	NA209-26 NA209-27 NA209-28 NA209	NF209	5.00
NANF209-27	1 11/16		135	105	24	18	40	58.9	16	21.4				
NANF209-28	1 3/4													
NANF209														
NANF210-30	1 7/8	50	5.6299	4.3701	1.1024	0.7874	1.7717	2.6024	0.6299	0.9685	9/16 14	NA210-30 NA210-31 NA210 NA210-32	NF210	6.65
NANF210-31	1 15/16		143	111	28	20	45	66.1	16	24.6				
NANF210														
NANF210-32	2													
NANF211-32	2	55	6.3780	5.1181	1.2598	0.8268	1.9291	2.9764	0.6693	1.0945	5/8 16	NA211-32 NA211-34 NA211 NA211-35	NF211	8.10
NANF211-34	2 1/8		162	130	32	21	49	75.6	17	27.8				
NANF211	2 3/16													
NANF211-35														
NANF212-36	2 1/4	60	6.8898	5.6299	1.3386	0.8661	2.1063	3.1811	0.6693	1.2205	5/8 16	NA212-36 NA212 NA212-38 NA212-39	NF212	10.00
NANF212	2 1/2		175	143	34	22	53.5	80.8	17	31				
NANF212-38	2 3/8													
NANF212-39	2 7/16													
NANF213-40	2 1/2	65	7.2441	5.8661	1.4961	0.8661	2.2835	3.5276	0.7087	1.3425	5/8 16	NA213-40 NA213	NF213	12.65
NANF213	2 3/4		184	149	38	22	58	89.6	18	34.1				
NANF214-44	2 3/4	70	7.4016	5.9843	1.4961	0.9055	2.3622	3.5276	0.7087	1.3425	5/8 16	NA214-44 NA214	NF214	14.00
NANF214	2 3/4		188	152	38	23	60	89.6	18	34.1				
NANF215	2 15/16	75	7.8740	6.0000	1.6142	0.9449	2.4409	3.7717	0.7874	1.4685	3/4 19	NA215 NA215-47 NA215-48	NF215	16.00
NANF215-47	3		200	152.4	41	24	62	95.8	20	37.3				
NANF215-48														



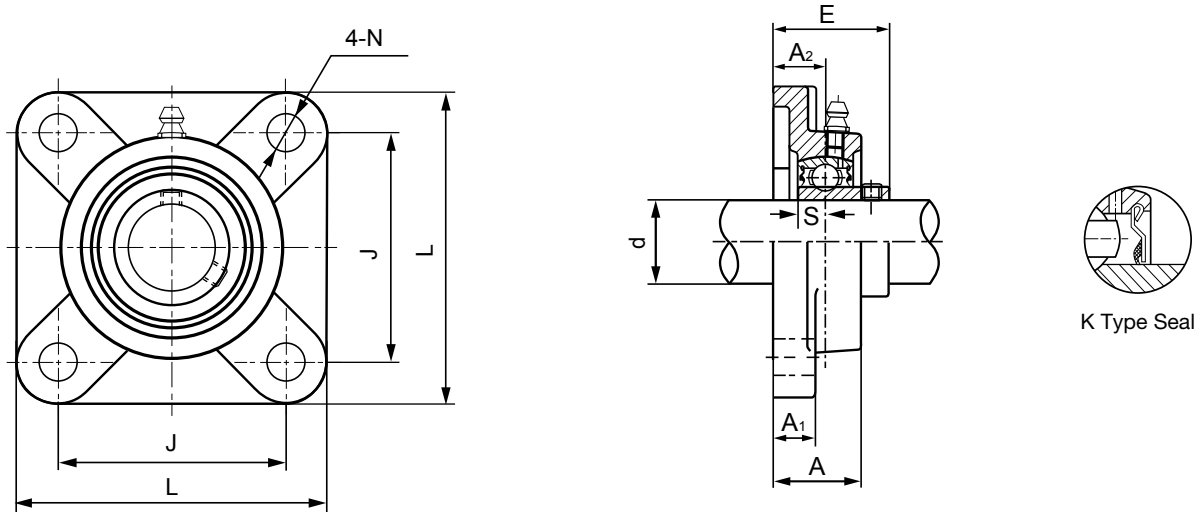
Standard B Type Seal



Optional Triple-lip seal
(+ Suffix - R3)

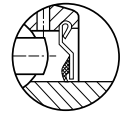
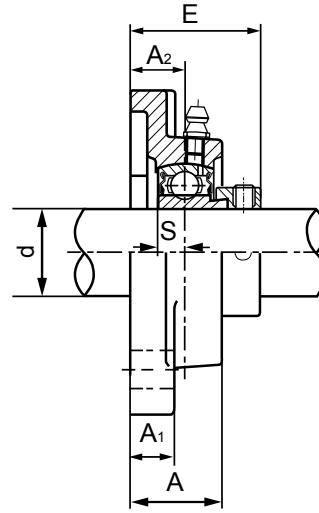
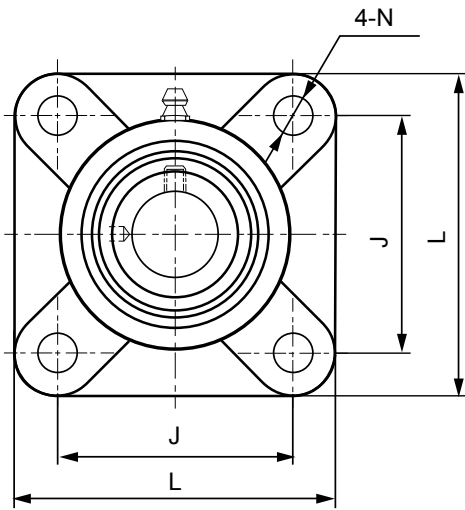
HLU Unit No.	Shaft Diameter in.	Dimensions (in./mm)								Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
		L	J	A2	A1	A	E	N	S				
HLF204-12	3/4	3.3858 86	2.5197 64	0.5906 15	0.4724 12	1.0039 25.5	1.2795 32.5	0.4528 11.5	0.5000 12.7	7/16 11	HL204-12	F204	1.38
HLF205-15 HLF205-16	15/16 1	3.7402 95	2.7559 70	0.6299 16	0.5118 13	1.0630 27	1.4370 36.5	0.4528 11.5	0.5630 14.3	7/16 11	HL205-15 HL205-16	F205	2.10
HLF206-18 HLF206-19 HLF206-20	1 1/8 1 3/16 1 1/4	4.2520 108	3.2677 83	0.7087 18	0.5630 14.3	1.2205 31	1.5630 39.7	0.4528 11.5	0.6260 15.9	7/16 11	HL206-18 HL206-19 HL206-20	F206	2.85
HLF207-20 HLF207-22 HLF207-23	1 1/4 1 3/8 1 7/16	4.6063 117	3.6220 92	0.7480 19	0.6102 15.5	1.3386 34	1.7913 45.5	0.5118 13	0.6890 17.5	1/2 12	HL207-20 HL207-22 HL207-23	F207	3.80
HLF208-24	1 1/2	5.1181 130	4.0157 102	0.8268 21	0.6102 15.5	1.4173 36	2.0000 50.8	0.5512 14	0.7480 19	1/2 12	HL208-24 HL208	F208	4.25
HLF209-26 HLF209-27 HLF209-28	1 5/8 1 11/16 1 3/4	5.3937 137	4.1339 105	0.8661 22	0.6890 17.5	1.4961 38	2.0000 50.8	0.6299 16	0.7480 19	5/16 14	HL209-26 HL209-27 HL209-28	F209	5.05
HLF210-31 HLF210-32	1 15/16 2	5.6299 143	4.3701 111	0.8661 22	0.6890 17.5	1.5748 40	2.0945 53.2	0.6299 16	0.7480 19	5/8 16	HL210-31 HL210-32	F210	5.95
HLF211-32 HLF211-34 HLF211-35	2 2 1/8 2 3/16	6.3780 162	5.1181 130	0.9843 25	0.7677 19.5	1.6929 43	2.2520 57.2	0.6693 17	0.8740 22.2	5/8 16	HL211-32 HL211-34 HL211-35	F211	7.90
HLF212-36 HLF212-38 HLF212-39	2 1/4 2 3/8 2 7/16	6.8898 175	5.6299 143	1.1417 29	0.7677 19.5	1.8898 48	2.6260 66.7	0.6693 17	1.0000 25.4	5/8 16	HL212-36 HL212-38 HL212-39	F212	10.50

Refer to recommended cap screw tightening torque table for proper tightening torques.



HLU Unit No.	Shaft Diameter		Dimensions (in./mm)								Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs									
	in.	mm	L	J	A2	A1	A	N	E	S													
SBF201-08G	1/2	15	3.0709	2.1260	0.3740	0.4331	0.7087	0.3937	1.0039	0.2362	3/8	SB201-08G	F203S	.95									
SBF202G	5/8	17	78	54	9.5	11	18	10	25.5	6	10	SB202G											
SBF202-10G SBF203G												SB203G											
SBF204-12G	3/4	20	3.3858	2.5197	0.5906	0.4724	1.0039	0.4528	1.2992	0.2756	7/16	SB204-12G	F204	1.20									
SBF204G			86	64	15	12	25.5	11.5	33	7	11	SB204G											
SBF205-14G	7/8	25	3.7402	2.7559	0.6299	0.5118	1.0630	0.4528	1.3976	0.2953	7/16	SB205-14G	F205	1.65									
SBF205-15G	15/16											95			70	16	13	27	11.5	35.5	7.5	11	SB205-15G
SBF205G																							SB205G
SBF205-16G	1											SB205-16G											
SBF206-18G	1 1/8	30	4.2520	3.2677	0.7087	0.5630	1.2205	0.4528	1.5748	0.3150	7/16	SB206-18G	F206	2.30									
SBF206G	1 3/16											108			83	18	14.3	31	11.5	40	8	11	SB206G
SBF206-19G																							SB206-19G
SBF206-20G	1 1/4											SB206-20G											
SBF207-20G	1 1/4	35	4.6063	3.6220	0.7480	0.6102	1.3386	0.5118	1.6732	0.3346	1/2	SB207-20G	F207	3.05									
SBF207-21G	1 5/16											117			92	19	15.5	34	13	42.5	8.5	12	SB207-21G
SBF207-22G	1 3/8																						SB207-22G
SBF207G																							SB207G
SBF207-23G	1 7/16											SB207-23G											
SBF208-24G	1 1/2	40	5.1181	4.0157	0.8268	0.6102	1.4173	0.5512	1.8110	0.3543	1/2	SB208-24G	F208	3.50									
SBF208G												130			102	21	15.5	36	14	46	9	12	SB208G
SBF209-26G	1 5/8	45	5.3937	4.1339	0.8661	0.6890	1.4961	0.6299	2.0866	0.4016	9/16	SB209-26G	F209	4.50									
SBF209-27G	1 11/16											137			105	22	17.5	38	16	53	10.2	14	SB209-27G
SBF209-28G	1 3/4																						SB209-28G
SBF209G												SB209G											
SBF210-30G	1 7/8	50	5.6299	4.3701	0.8661	0.6890	1.5748	0.6299	2.1496	0.4291	5/8	SB210-30G	F210	4.85									
SBF210-31G	1 15/16											143			111	22	17.5	40	16	54.6	10.9	16	SB210-31G
SBF210G																							SB210G
SBF210-32G	2																						SB210-32G

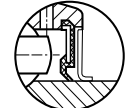
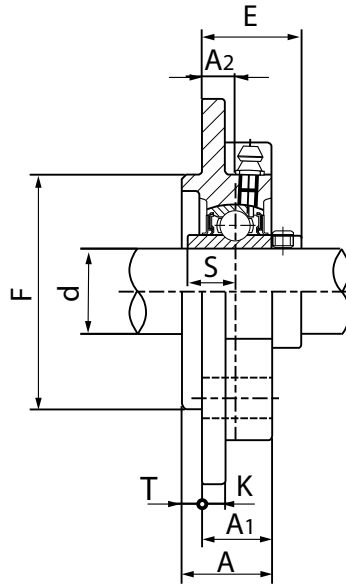
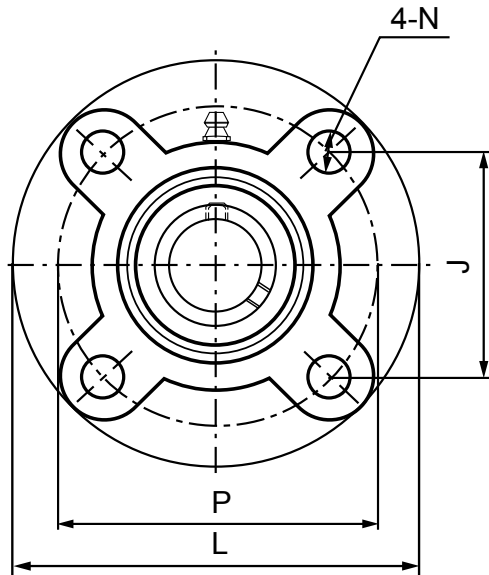
Normally supplied as relube with "G" suffix.
Non-relube units available. Please specify non-relube.



K Type Seal

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)								Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	L	J	A2	A1	A	N	E	S				
SAF201-08G SAF202G SAF202-10G SAF203G	1/2 5/8	15 17	3.0709 78	2.1260 54	0.3740 9.5	0.4331 11	0.7087 18	0.3937 10	1.2441 31.6	0.2559 6.5	3/8 10	SA201-08G SA202G SA202-10G SA203G	F203S	1.00
SAF204-12G SAF204G	3/4	20	3.3858 86	2.5197 64	0.5906 15	0.4724 12	1.0040 25.5	0.4528 11.5	1.5157 38.5	0.2953 7.5	7/16 11	SA204-12G SA204G	F204	1.30
SAF205-14G SAF205-15G SAF205G SAF205-16G	7/8 15/16 1	25	3.7402 95	2.7559 70	0.6299 16	0.5118 13	1.0630 27	0.4528 11.5	1.5551 39.5	0.2953 7.5	7/16 11	SA205-14G SA205-15G SA205G SA205-16G	F205	1.70
SAF206-18G SAF206G SAF206-19G SAF206-20G	1 1/8 1 3/16 1 1/4	30	4.2520 108	3.2677 83	0.7087 18	0.5630 14.3	1.2205 31	0.4528 11.5	1.7598 44.7	0.3543 9	7/16 11	SA206-18G SA206G SA206-19G SA206-20G	F206	2.50
SAF207-20G SAF207-21G SAF207-22G SAF207G SAF207-23G	1 1/4 1 5/16 1 3/8 1 7/16	35	4.6063 117	3.6220 92	0.7480 19	0.6102 15.5	1.3386 34	0.5118 13	1.9055 48.4	0.3740 9.5	1/2 12	SA207-20G SA207-21G SA207-22G SA207G SA207-23G	F207	3.25
SAF208-24G SAF208G	1 1/2	40	5.1181 130	4.0157 102	0.8268 21	0.6102 15.5	1.4173 36	0.5512 14	2.1142 53.7	0.4331 11	1/2 12	SA208-24G SA208G	F208	3.90
SAF209-26G SAF209-27G SAF209-28G SAF209G	1 5/8 1 11/16 1 3/4	45	5.3937 137	4.1339 105	0.8661 22	0.6890 17.5	1.4961 38	0.6299 16	2.1535 54.7	0.4331 11	9/16 14	SA209-26G SA209-27G SA209-28G SA209G	F209	4.70
SAF210-30G SAF210-31G SAF210G SAF210-32G	1 7/8 1 15/16 2	50	5.6299 143	4.3701 111	0.8661 22	0.6890 17.5	1.5748 40	0.6299 16	2.1535 54.7	0.4331 11	5/8 16	SA210-30G SA210-31G SA210G SA210-32G	F210	5.25
SAF211-32G SAF211G SAF211-35G	2 2 3/16	55	6.3780 162	5.1181 130	0.9843 25	0.7677 19.5	1.6929 43	0.6693 17	2.4173 61.4	0.4724 12	5/8 16	SA211-32G SA211G SA211-35G	F211	7.60

Normally supplied as relube with "G" suffix.
Non-relube units available. Please specify non-relube.

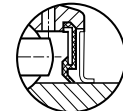
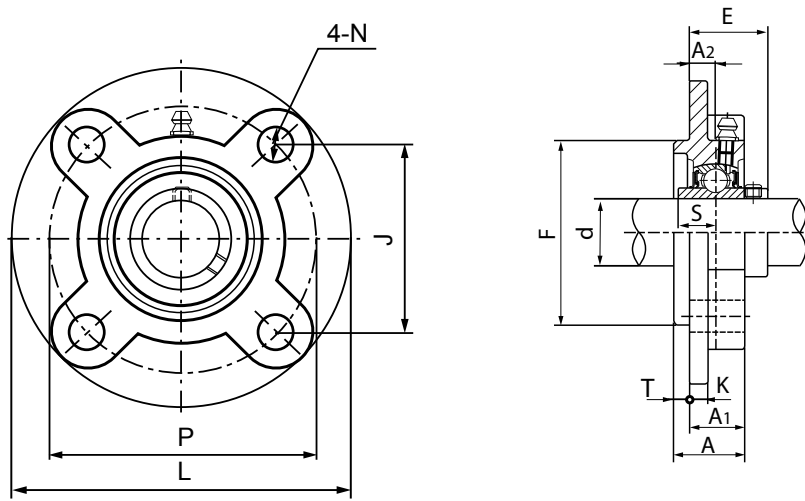


Standard B Type Seal

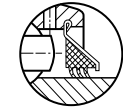


Optional Triple-lip seal
(+ Suffix - R3)

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)												Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	L	P	J	A2	A1	A	T	K	F	N	E	S				
UCFCF205-14 UCFCF205-15 UCFCF205 UCFCF205-16	7/8 15/16 1	25	4.3701 111	3.6260 92.1	2.5630 65.1	0.4331 11	0.8661 22	1.1024 28	0.2362 6	0.3937 10	3.0000 76.2	0.4055 10.3	1.2126 30.8	0.5630 14.3	5/16 8	UC205-14 UC205-15 UC205 UC205-16	FCF205	2.10
UCFCF206-17 UCFCF206-18 UCFCF206 UCFCF206-19 UCFCF206-20	1 1/16 1 1/8 1 3/16 1 1/4	30	5.0000 127	4.1260 104.8	2.9173 74.1	0.2953 7.5	0.7874 20	1.2205 31	0.4331 11	0.3937 10	3.3740 85.7	0.4724 12	1.1693 29.7	0.6260 15.9	3/8 10	UC206-17 UC206-18 UC206 UC206-19 UC206-20	FCF206	3.00
UCFCF207-20 UCFCF207-21 UCFCF207-22 UCFCF207 UCFCF207-23	1 1/4 1 5/16 1 3/8	35	5.2362 133	4.3740 111.1	3.0945 78.6	0.2795 7.1	0.8661 22	1.3386 34	0.4724 12	0.4724 12	3.6260 92.1	0.4724 12	1.2795 32.5	0.6890 17.5	3/8 10	UC207-20 UC207-21 UC207-22 UC207 UC207-23	FCF207	3.80
UCFCF208-24 UCFCF208-25 UCFCF208	1 1/2 1 9/16	40	5.2362 133	4.3740 111.1	3.0945 78.6	0.3740 9.5	1.0236 26	1.4961 38	0.4724 12	0.4724 12	3.6260 92.1	0.4724 12	1.5630 39.7	0.7480 19	3/8 10	UC208-24 UC208-25 UC208	FCF208	4.10
UCFCF209-26 UCFCF209-27 UCFCF209-28 UCFCF209	1 5/8 1 11/16 1 3/4	45	6.1417 156	5.1260 130.2	3.6260 92.1	0.2165 5.5	0.8661 22	1.3386 34	0.4724 12	0.4724 12	4.2520 108	0.5315 13.5	1.4055 35.7	0.7480 19	7/16 11	UC209-26 UC209-27 UC209-28 UC209	FCF209	5.25
UCFCF210-30 UCFCF210-31 UCFCF210 UCFCF210-32	1 7/8 1 15/16 2	50	6.3780 162	5.3740 136.5	3.7992 96.5	0.3425 8.7	1.0630 27	1.6929 43	0.6299 16	0.4724 12	4.5000 114.3	0.5315 13.5	1.6260 41.3	0.7480 19	7/16 11	UC210-30 UC210-31 UC210 UC210-32	FCF210	6.10
UCFCF211-32 UCFCF211-34 UCFCF211 UCFCF211-35	2 2 1/8 2 3/16	55	7.1260 181	6.0000 152.4	4.2441 107.8	0.2165 5.5	0.8858 22.5	1.7520 44.5	0.8661 22	0.4724 12	5.0000 127	0.5906 15	1.5315 38.9	0.8740 22.2	1/2 12	UC211-32 UC211-34 UC211 UC211-35	FCF211	8.10
UCFCF212-36 UCFCF212 UCFCF212-38 UCFCF212-39	2 1/4 2 3/8 2 7/16	60	7.6378 194	6.5000 165.1	4.5945 116.7	0.3543 9	1.0039 25.5	1.8701 47.5	0.8661 22	0.6299 16	5.5000 139.7	0.6575 16.7	1.9173 48.7	1.0000 25.4	5/8 16	UC212-36 UC212 UC212-38 UC212-39	FCF212	10.80

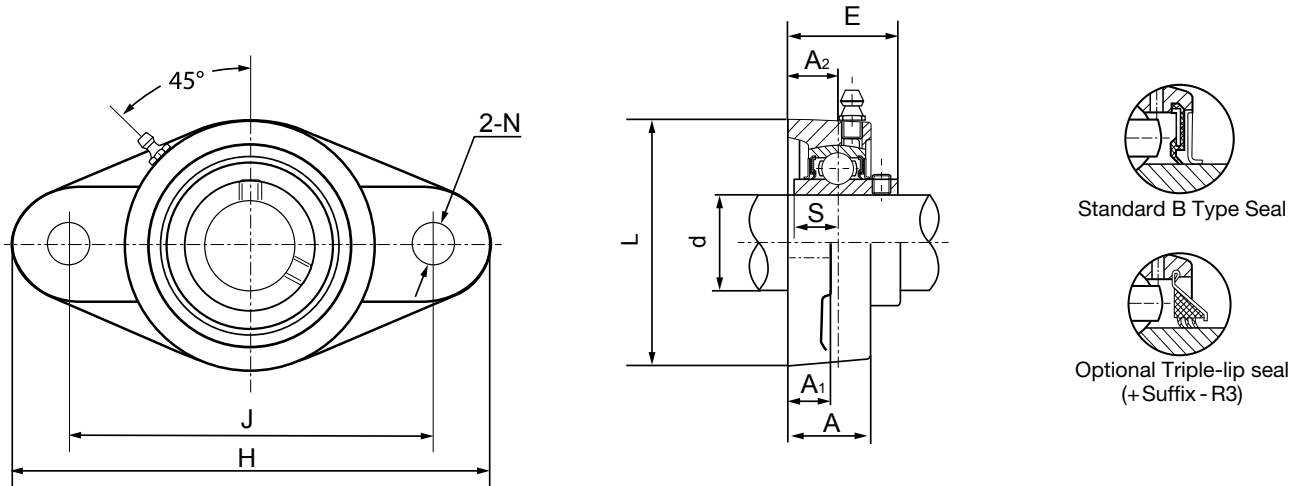


Standard B Type Seal

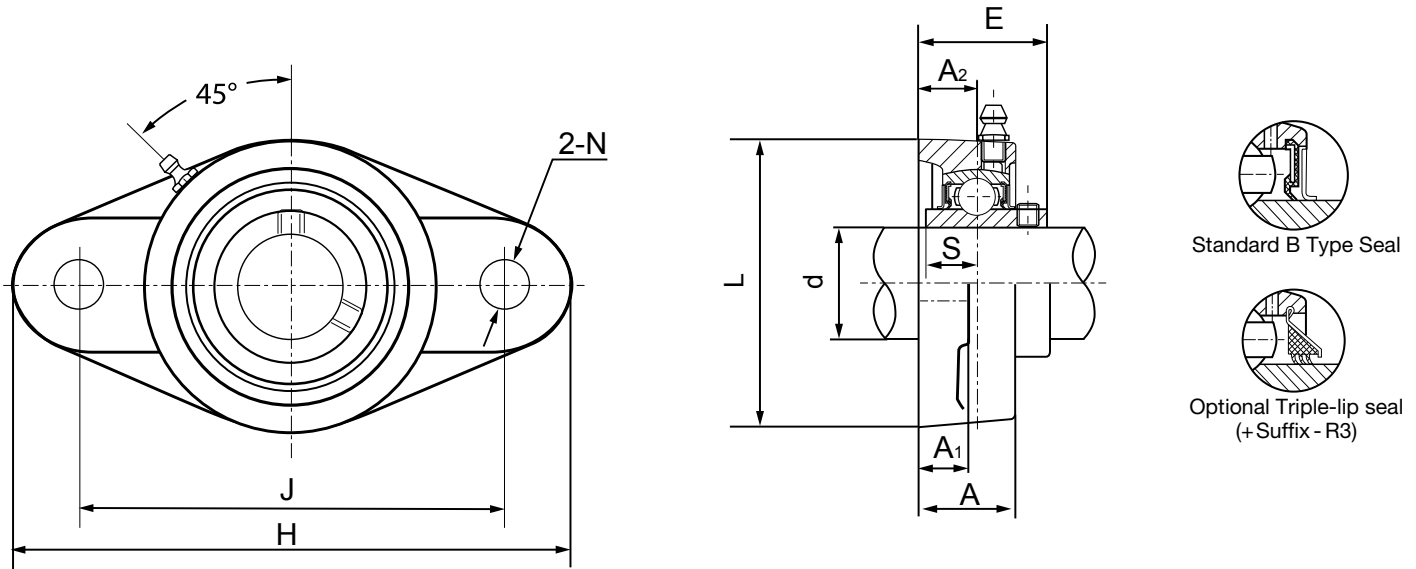


Optional Triple-lip seal
(+ Suffix - R3)

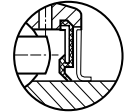
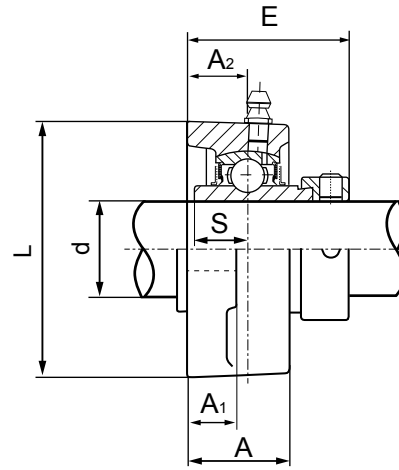
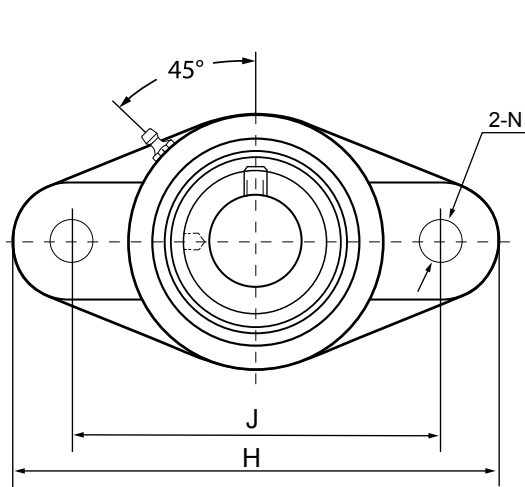
HLU Unit No.	Shaft Diameter		Dimensions (in./mm)												Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	L	P	J	A ₂	A ₁	A	T	K	F	N	E	S				
UCFCX05 UCFCX05-16	1	25	4.3701 111	3.6250 92.1	2.5630 65.1	0.3937 10	0.9449 24	1.1811 30	0.2362 6	0.3740 9.5	3.0000 76.2	0.3740 9.5	1.2677 32.2	0.6260 15.9	5/16 8	UCX05 UCX05-16	FCX05	2.40
UCFCX06 UCFCX06-19 UCFCX06-20	1 3/16 1 1/4	30	5.0000 127	4.1250 104.8	2.9173 74.1	0.3150 8	0.8858 22.5	1.2598 32	0.3740 9.5	0.3740 9.5	3.3750 85.7	0.4724 12	1.3150 33.4	0.6890 17.5	3/8 10	UCX06 UCX06-19 UC207-20	FCX06	3.20
UCFCX07 UCFCX07-22 UCFCX07-23	1 5/8 1 7/16	35	5.2362 133	4.3750 111.1	3.0945 78.6	0.3543 9	1.0236 26	1.4567 37	0.4331 11	0.4331 11	3.6250 92.1	0.4724 12	1.5433 39.2	0.7480 19.0	3/8 10	UCX07 UCX07-22 UCX07-23	FCF208	4.15
UCFCX08 UCFCX08-24	1 1/2	40	5.2362 133	4.3750 111.1	3.0945 78.6	0.3543 9	1.0236 26	1.4567 37	0.4331 11	0.4331 11	3.6250 92.1	0.4724 12	1.5433 39.2	0.7480 19.0	3/8 10	UCX08 UCX08-24	FCX08	4.35
UCFCX09 UCFCX09-27 UCFCX09-28	1 11/16 1 3/4	45	6.1024 155	5.1250 130.2	3.6260 92.1	0.3150 8	0.9843 25	1.4567 37	0.4724 12	0.4331 11	4.2500 108.0	0.5512 14	1.5984 40.6	0.7480 19.0	7/16 11	UCX09 UCX09-27 UCX09-28	FCX09	5.90
UCFCX10 UCFCX10-31 UCFCX10-32	1 15/16 2	50	6.3780 162	5.3750 136.5	3.7992 96.5	0.2756 7	0.9843 25	1.6142 41	0.6299 16	0.4331 11	4.5000 114.3	0.5512 14	1.5906 40.4	0.8740 22.2	7/16 11	UCX10 UCX10-31 UC211-32	FCX10	6.40
UCFCX11 UCFCX11-35 UCFCX11-36	2 3/16 2 1/4	55	7.0866 180	6.0000 152.4	4.2441 107.8	0.1575 4	1.0236 26	1.8898 48	0.8661 22	0.5118 13	5.0000 127	0.5315 13.5	1.7205 43.7	1.0000 25.4	1/2 12	UCX11 UCX11-35 UC212-36	FCX11	9.00
UCFCX12 UCFCX12-39	2 7/16	60	7.6378 194	6.5000 165.1	4.5945 116.7	0.4331 11	1.2992 33	2.0866 53	0.7874 20	0.5512 14	5.5000 139.7	0.6299 16	1.9961 50.7	1.0000 25.4	1/2 12	UCX12 UCX12-39	FCX12	10.90
UCFCX13 UCFCX13-40	2 1/2	65	7.6378 194	6.5000 165.1	4.5945 116.7	0.4331 11	1.2992 33	2.0866 53	0.7874 20	0.5512 14	5.5000 139.7	0.6299 16	2.1811 55.4	1.1890 30.2	1/2 12	UCX13 UCX13-40	FCX13	12.20
UCFCX14 UCFCX14-43	2 11/16	70	8.7402 222	7.5000 190.5	5.3031 134.7	0.5512 14	1.4173 36	2.2047 56	0.7874 20	0.5512 14	6.3750 161.9	0.7480 19	2.3031 58.5	1.3110 33.3	5/8 16	UCX14 UCX14-43	FCX14	15.90
UCFCX15 UCFCX15-47 UCFCX15-48	2 15/16 3	75	8.7402 222	7.5000 190.5	5.3031 134.7	0.4724 12	1.3780 35	2.2441 57	0.8661 22	0.6299 16	6.3750 161.9	0.7480 19	2.4134 61.3	1.3110 33.3	5/8 16	UCX15 UCX15-47 UCX15-48	FCX15	16.60
UCFCX17 UCFCX17-55 UCFCX17-56	3 7/16 3 1/2	85	10.2362 260	8.6250 219.1	6.0988 154.91	0.3937 10	1.4173 36	2.4016 61	0.9843 25	0.7480 19	7.3750 187.3	0.9055 23	2.6102 66.3	1.5630 39.7	3/4 20	UCX17 UCX17-55 UCX17-56	FCX17	25.30
UCFCX20 UCFCX20-63 UCFCX20-64	3 15/16 4	100	10.8661 276	9.3750 238.1	6.6260 168.3	0.8661 22	2.5984 66	3.7008 94	1.1024 28	0.8661 22	8.1250 206.4	0.9055 23	3.5551 90.3	1.9370 49.2	3/4 20	UCX20 UCX20-63 UCX20-64	FCX20	40.00



HLU Unit No.	Shaft Diameter		Dimensions (in./mm)									Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	J	L	A ₂	A ₁	A	N	E	S				
UCFL201-08 UCFL202 UCFL202-10 UCFL203	1/2 5/8	15 17	3.8976 99	3.0118 76.5	2.2441 57	0.5906 15	0.4331 11	1.0039 25.5	0.3937 10	1.2165 30.9	0.4528 11.5	3/8 10	UC201-08 UC202 UC202-10 UC203	FL203	.85
UCFL204-08 UCFL204-10 UCFL204-12 UCFL204	1/2 5/8 3/4	20	4.4488 113	3.5433 90	2.3622 60	0.5906 15	0.4528 11.5	1.0039 25.5	0.3937 10	1.3110 33.3	0.5000 12.7	3/8 10	UC204-08 UC204-10 UC204-12 UC204	FL204	1.00
UCFL205-14 UCFL205-15 UCFL205 UCFL205-16	7/8 1 1/16	25	5.1181 130	3.8976 99	2.6772 68	0.6299 16	0.5118 13	1.0630 27	0.4528 11.5	1.4094 35.8	0.5630 14.3	7/16 11	UC205-14 UC205-15 UC205 UC205-16	FL205	1.35
UCFL206-17 UCFL206-18 UCFL206 UCFL206-19 UCFL206-20	1 1/16 1 1/8	30	5.8268 148	4.6063 117	3.1496 80	0.7087 18	0.5118 13	1.2205 31	0.4528 11.5	1.5827 40.2	0.6260 15.9	7/16 11	UC206-17 UC206-18 UC206 UC206-19 UC206-20	FL206	1.90
UCFL207-20 UCFL207-21 UCFL207-22 UCFL207 UCFL207-23	1 1/4 1 3/16	35	6.3386 161	5.1181 130	3.5433 90	0.7480 19	0.5906 15	1.3386 34	0.5118 13	1.7480 44.4	0.6890 17.5	1/2 12	UC207-20 UC207-21 UC207-22 UC207 UC207-23	FL207	2.60
UCFL208-24 UCFL208-25 UCFL208	1 1/2 1 5/8	40	6.8898 175	5.6693 144	3.9370 100	0.8268 21	0.5906 15	1.4173 36	0.5118 13	2.0157 51.2	0.7480 19	1/2 12	UC208-24 UC208-25 UC208	FL208	3.40
UCFL209-26 UCFL209-27 UCFL209-28 UCFL209	1 5/8 1 11/16	45	7.4016 188	5.8268 148	4.2520 108	0.8661 22	0.6299 16	1.4961 38	0.5906 15	2.0551 52.2	0.7480 19	9/16 14	UC209-26 UC209-27 UC209-28 UC209	FL209	4.00
UCFL210-30 UCFL210-31 UCFL210 UCFL210-32	1 7/8 1 5/8	50	7.7559 197	6.1811 157	4.5276 115	0.8661 22	0.6299 16	1.5748 40	0.5906 15	2.1496 54.6	0.7480 19	9/16 14	UC210-30 UC210-31 UC210 UC210-32	FL210	4.50
UCFL211-32 UCFL211-34 UCFL211 UCFL211-35	2 2 1/8	55	8.8189 224	7.2441 184	5.1181 130	0.9842 25	0.7087 18	1.6929 43	0.6496 16.5	2.2992 58.4	0.8740 22.2	5/8 16	UC211-32 UC211-34 UC211 UC211-35	FL211	6.80
UCFL212-36 UCFL212 UCFL212-38 UCFL212-39	2 1/4 2 3/8	60	9.8425 250	7.9528 202	5.5118 140	1.1417 29	0.7087 18	1.8898 48	0.6496 16.5	2.7047 68.7	1.0000 25.4	5/8 16	UC212-36 UC212 UC212-38 UC212-39	FL212	8.10
UCFL215-47 UCFL215 UCFL215-48	2 1/16 3	75	10.8268 275	8.8583 225	6.4961 165	1.3386 34	0.8661 22	2.2047 56	0.7480 19	3.0906 78.5	1.3110 33.3	5/8 16	UC215-47 UC215 UC215-48	FL215	12.35



HLU Unit No.	Shaft Diameter		Dimensions ^(in.) / _(mm)									Bolt Used ^(in.) / _(mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	J	L	A2	A1	A	N	E	S				
UCFLX05 UCFLX05-16	1	25	5.8268 148	4.6063 117	3.1496 80	0.7087 18	0.5118 13	1.2205 31	0.4528 11.5	1.5827 40.2	0.6260 15.9	7/16 11	UCX05 UCX05-16	FL206	2.00
UCFLX06 UCFLX06-19 UCFLX06-20	1 3/16 1 1/4	30	6.3386 161	5.1181 130	3.5433 90	0.7480 19	0.5906 15	1.3386 34	0.5118 13	1.7480 44.4	0.6890 17.5	1/2 12	UCX06 UCX06-19 UC207-20	FL207	2.75
UCFLX07-22 UCFLX07 UCFLX07-23	1 3/8 1 7/16	35	6.8898 175	5.6693 144	3.9370 100	0.8268 21	0.5906 15	1.4173 36	0.5118 13	2.0157 51.2	0.7480 19.0	1/2 12	UCX07-22 UCX07 UCX07-23	FL208	3.50
UCFLX08-24 UCFLX08	1 1/2	40	7.4016 188	5.8268 148	4.2520 108	0.8661 22	0.6299 16	1.4961 38	0.5906 15	2.0551 52.2	0.7480 19.0	9/16 14	UCX08-24 UCX08	FL209	4.35
UCFLX09-27 UCFLX09-28 UCFLX09	1 11/16 1 3/4	45	7.7559 197	6.1811 157	4.5276 115	0.8661 22	0.6299 16	1.5748 40	0.5906 15	2.1496 54.6	0.7480 19.0	9/16 14	UCX09-27 UCX09-28 UCX09	FL210	5.35
UCFLX10-31 UCFLX10 UCFLX10-32	1 15/16 2	50	8.8189 224	7.2441 184	5.1181 130	0.9842 25	0.7087 18	1.6929 43	0.6496 16.5	2.2992 58.4	0.8740 22.2	5/8 16	UCX10-31 UCX10 UC211-32	FL211	6.90
UCFLX11 UCFLX11-35 UCFLX11-36	2 3/16 2 1/4	55	9.8425 250	7.9528 202	5.5118 140	1.1417 29	0.7087 18	1.8898 48	0.6496 16.5	2.7047 68.7	1.0000 25.4	5/8 16	UCX11 UCX11-35 UC212-36	FL212	8.85

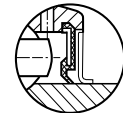
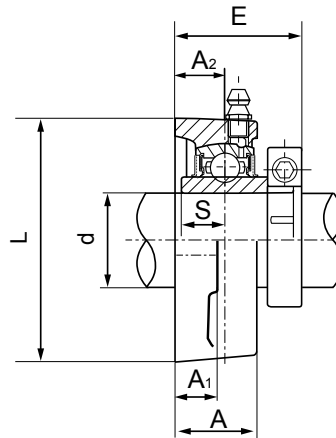
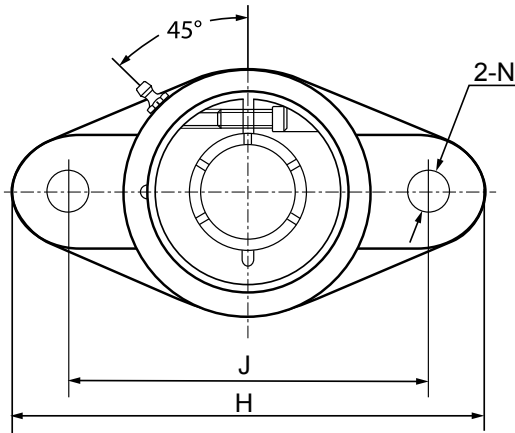


Standard B Type Seal

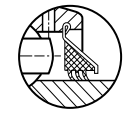


Optional Triple-lip seal
(+ Suffix - R3)

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)									Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	J	L	A2	A1	A	N	E	S				
NANFL201-08 NANFL202-10 NANFL203	1/2 5/8	17	3.8976 99	3.0118 76.5	2.2441 57	0.5906 15	0.4331 11	1.0039 25.5	0.3937 10	1.5118 38.4	0.5472 13.9	5/8 10	NA201-08 NA202-10 NA203	FL203	1.10
NANFL204-10 NANFL204-12 NANFL204	5/8 3/4	20	4.4291 112.5	3.5315 89.7	2.3819 60.5	0.7480 19	0.5906 15	1.1417 29	0.3937 10	1.7953 45.6	0.6732 17.1	5/8 10	NA204-10 NA204-12 NA204	NFL204	1.20
NANFL205-14 NANFL205-15 NANFL205 NANFL205-16	7/8 1 1/16	25	4.8819 124	3.8976 99	2.7559 70	0.7480 19	0.5906 15	1.2008 30.5	0.4528 11.5	1.8071 45.9	0.6890 17.5	5/8 10	NA205-14 NA205-15 NA205 NA205-16	NFL205	1.55
NANFL206-17 NANFL206-18 NANFL206 NANFL206-19 NANFL206-20	1 1/16 1 1/8	30	5.5906 142	4.5945 116.7	3.2677 83	0.7874 20	0.6299 16	1.3189 33.5	0.4528 11.5	1.9724 50.1	0.7205 18.3	5/8 10	NA206-17 NA206-18 NA206 NA206-19 NA206-20	NFL206	2.40
NANFL207-20 NANFL207-21 NANFL207-22 NANFL207 NANFL207-23	1 1/4 1 3/16 1 1/2	35	6.3386 161	5.1260 130.2	3.5433 90	0.8465 21.5	0.5512 14	1.4370 36.5	0.5118 13	2.1181 53.8	0.7402 18.8	1/2 12	NA207-20 NA207-21 NA207-22 NA207 NA207-23	NFL207	3.15
NANFL208-24 NANFL208-25 NANFL208	1 1/2 1 3/16	40	6.7323 171	5.6575 143.7	3.9764 101	0.9449 24	0.6496 16.5	1.5354 39	0.5118 13	2.3189 58.9	0.8425 21.4	1/2 12	NA208-24 NA208-25 NA208	NFL208	3.70
NANFL209-26 NANFL209-27 NANFL209-28 NANFL209	1 5/8 1 11/16 1 3/4	45	7.0472 179	5.8465 148.5	4.3701 111	0.9449 24	0.6496 16.5	1.5748 40	0.5906 15	2.3189 58.9	0.8425 21.4	5/8 14	NA209-26 NA209-27 NA209-28 NA209	NFL209	4.45
NANFL210-30 NANFL210-31 NANFL210 NANFL210-32	1 7/8 1 15/16	50	7.4409 189	6.1890 157.2	4.5669 116	1.1024 28	0.8031 20.4	1.7717 45	0.5906 15	2.6024 66.1	0.9685 24.6	5/8 14	NA210-30 NA210-31 NA210 NA210-32	NFL210	5.30
NANFL211-32 NANFL211-34 NANFL211 NANFL211-35	2 2 1/8 2 3/16	55	8.5039 216	7.2480 184.1	5.2362 133	1.2205 31	0.8031 20.4	1.8898 48	0.6496 16.5	2.9370 74.6	1.0945 27.8	5/8 16	NA211-32 NA211-34 NA211 NA211-35	NFL211	8.00
NANFL212-36 NANFL212 NANFL212-38 NANFL212-39	2 1/4 2 3/8 2 7/16	60	9.3307 237	7.9528 202	5.4331 138	1.3386 34	0.8268 21	2.0866 53	0.6496 16.5	3.1811 80.8	1.2205 31	5/8 16	NA212-36 NA212 NA212-38 NA212-39	NFL212	8.85



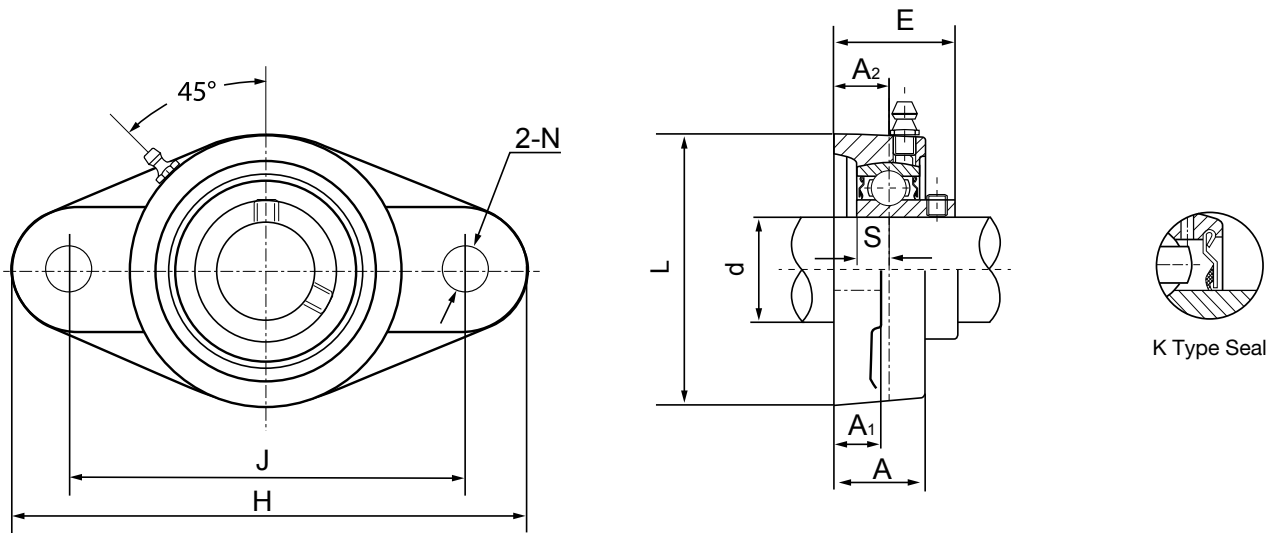
Standard B Type Seal



Optional Triple-lip seal
(+ Suffix - R3)

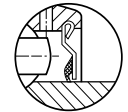
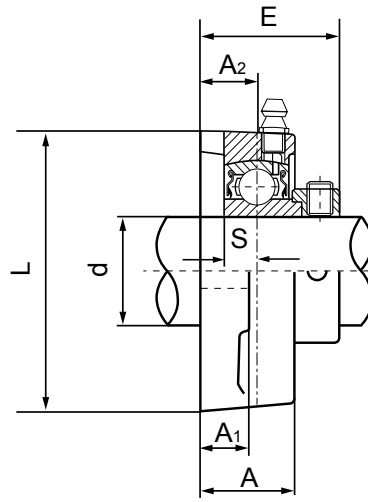
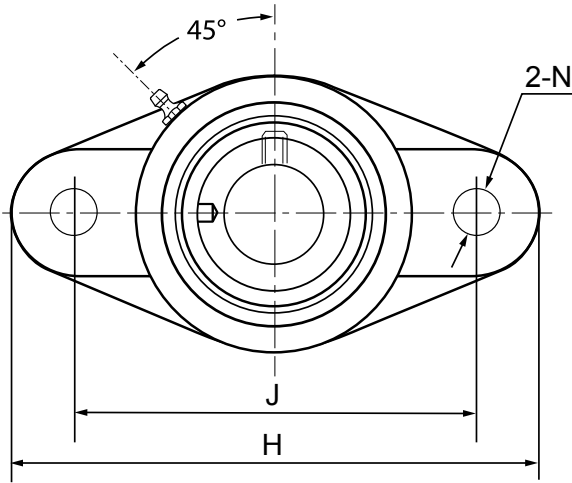
HLU Unit No.	Shaft Diameter in.	Dimensions (in./mm)									Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
		H	J	L	A ₂	A ₁	A	N	E	S				
HLFL204-12	3/4	4.4488 113	3.5433 90	2.3622 60	0.5906 15	0.4528 11.5	1.0039 25.5	0.3937 10	1.2795 32.5	0.5000 12.7	3/8 10	HL204-12	FL204	1.15
HLFL205-15 HLFL205-16	15/16 1	5.1181 130	3.8976 99	2.6772 68	0.6299 16	0.5118 13	1.0630 27	0.4528 11.5	1.4370 36.5	0.5630 14.3	7/16 11	HL205-15 HL205-16	FL205	1.72
HLFL206-18 HLFL206-19 HLFL206-20	1 1/8 1 3/16 1 1/4	5.8268 148	4.6063 117	3.1496 80	0.7087 18	0.5118 13	1.2205 31	0.4528 11.5	1.5630 39.7	0.6260 15.9	7/16 11	HL206-18 HL206-19 HL206-20	FL206	2.35
HLFL207-20 HLFL207-22 HLFL207-23	1 1/4 1 3/8 1 7/16	6.3386 161	5.1181 130	3.5433 90	0.7480 19	0.5906 15	1.3386 34	0.5118 13	1.7913 45.5	0.6890 17.5	1/2 12	HL207-20 HL207-22 HL207-23	FL207	3.05
HLFL208-24	1 1/2	6.8898 175	5.6693 144	3.9370 100	0.8268 21	0.5906 15	1.4173 36	0.5118 13	2.0000 50.8	0.7480 19	1/2 12	HL208-24	FL208	3.75
HLFL209-26 HLFL209-27 HLFL209-28	1 5/8 1 11/16 1 3/4	7.4016 188	5.8268 148	4.2520 108	0.8661 22	0.6299 16	1.4961 38	0.5906 15	2.0000 50.8	0.7480 19	9/16 14	HL209-26 HL209-27 HL209-28	FL209	4.30
HLFL210-31 HLFL210-32	1 15/16 2	7.7559 197	6.1811 157	4.5276 115	0.8661 22	0.6299 16	1.5748 40	0.5906 15	2.0945 53.2	0.7480 19	9/16 14	HL210-31 HL210-32	FL210	5.25
HLFL211-32 HLFL211-34 HLFL211-35	2 2 1/8 2 3/16	8.8189 224	7.2441 184	5.1181 130	0.9842 25	0.7087 18	1.6929 43	0.6496 16.5	2.2520 57.2	0.8740 22.2	5/8 16	HL211-32 HL211-34 HL211-35	FL211	6.20
HLFL212-36 HLFL212-38 HLFL212-39	2 1/4 2 3/8 2 7/16	9.8425 250	7.9528 202	5.5118 140	1.1417 29	0.7087 18	1.8898 48	0.6496 16.5	2.6260 66.7	1.0000 25.4	5/8 16	HL212-36 HL212-38 HL212-39	FL212	9.30

Refer to recommended cap screw tightening torque table for proper tightening torques.



HLU Unit No.	Shaft Diameter		Dimensions (in./mm)									Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	J	L	A2	A1	A	N	E	S				
SBFL201-08G	1/2												SB201-08G		
SBFL202G		15	3.8583	3.0000	2.1260	0.4370	0.3748	0.7205	0.3937	1.0670	0.2362	3/8	SB202G	FL203S	.60
SBFL202-10G	5/8		98	76.2	54	11.1	9.52	18.3	10	27.1	6	9	SB202-10G		
SBFL203G		17											SB203G		
SBFL204-12G	3/4		4.4488	3.5433	2.3622	0.5906	0.4528	1.0039	0.3937	1.2992	0.2756	3/8	SB204-12G	FL204	.90
SBFL204G		20	113	90	60	15	11.5	25.5	10	33	7	9	SB204G		
SBFL205-14G	7/8		5.1181	3.8976	2.6772	0.6299	0.5118	1.0630	0.4528	1.3976	0.2953	7/16	SB205-14G		
SBFL205-15G	15/16		130	99	68	16	13	27	11.5	35.5	7.5	10	SB205-15G	FL205	1.30
SBFL205G		25											SB205G		
SBFL205-16G	1												SB205-16G		
SBFL206-17G	1 1/16		5.8268	4.6063	3.1496	0.7087	0.5118	1.2205	0.4528	1.5748	0.3150	7/16	SB206-17G		
SBFL206-18G	1 1/8		148	117	80	18	13	31	11.5	40	8	10	SB206-18G	FL206	1.75
SBFL206G		30											SB206G		
SBFL206-19G	1 3/16		6.3386	5.1181	3.5433	0.7480	0.5906	1.3386	0.5118	1.6732	0.3346	1/2	SB206-19G		
SBFL206-20G	1 1/4		161	130	90	19	15	34	13	42.5	8.5	12	SB206-20G	FL207	2.45
SBFL207-20G	1 1/4												SB207-20G		
SBFL207-21G	1 5/16		6.3386	5.1181	3.5433	0.7480	0.5906	1.3386	0.5118	1.6732	0.3346	1/2	SB207-21G		
SBFL207-22G	1 3/8		161	130	90	19	15	34	13	42.5	8.5	12	SB207-22G	FL207	2.45
SBFL207G		35											SB207G		
SBFL207-23G	1 7/16												SB207-23G		
SBFL208-24G	1 1/2		6.8898	5.6693	3.9370	0.8268	0.5906	1.4173	0.5118	1.8110	0.3543	1/2	SB208-24G		
SBFL208-25G	1 9/16		175	144	100	21	15	36	13	46	9	12	SB208-25G	FL208	3.05
SBFL208G		40											SB208G		
SBFL209-26G	1 5/8		7.4016	5.8268	4.2520	0.8661	0.6299	1.4961	0.5906	2.0866	0.4016	5/16	SB209-26G		
SBFL209-27G	1 11/16		188	148	108	22	16	38	15	53	10.2	14	SB209-27G	FL209	3.65
SBFL209-28G	1 3/4												SB209-28G		
SBFL209G		45											SB209G		
SBFL210-30G	1 7/8		7.7559	6.1811	4.5276	0.8661	0.6299	1.5748	0.5906	2.1496	0.4291	5/16	SB210-30G		
SBFL210-31G	1 15/16		197	157	115	22	16	40	15	54.6	10.9	14	SB210-31G	FL210	4.55
SBFL210G		50											SB210G		
SBFL210-32G	2												SB210-32G		

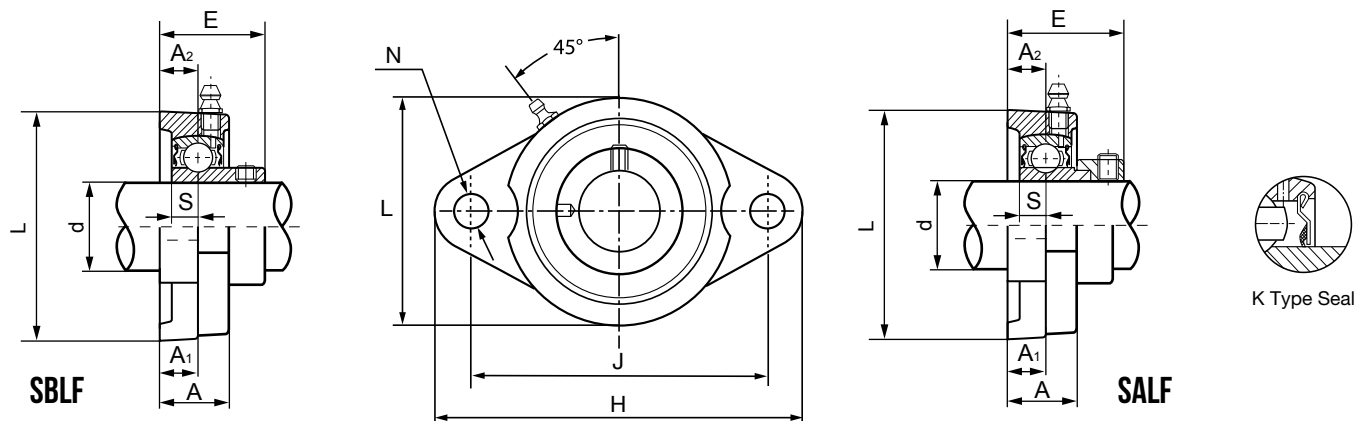
Normally supplied as relube with "G" suffix.
Non-relube units available. Please specify non-relube.



K Type Seal

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)									Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	J	L	A2	A1	A	N	E	S				
SAFL201-08G SAFL202G SAFL202-10G SAFL203G	1/2 5/8	15 17	3.8583 98	3.0000 76.2	2.1260 54	0.4370 11.1	0.3748 9.52	0.7205 18.3	0.3937 10	1.3071 33.2	.2559 6.5	3/8 9	SA201-08G SA202G SA202-10G SA203G	FL203S	.75
SAFL204-12G SAFL204G	3/4	20	4.4488 113	3.5433 90	2.3622 60	0.5906 15	0.4528 11.5	1.0039 25.5	0.3937 10	1.5157 38.5	0.2953 7.5	3/8 9	SA204-12G SA204G	FL204	1.00
SAFL205-14G SAFL205-15G SAFL205G SAFL205-16G	7/8 1 1/16 1	25	5.1181 130	3.8976 99	2.6772 68	0.6299 16	0.5118 13	1.0630 27	0.4528 11.5	1.5551 39.5	0.2953 7.5	7/16 10	SA205-14G SA205-15G SA205G SA205-16G	FL205	1.35
SAFL206-17G SAFL206-18G SAFL206G SAFL206-19G SAFL206-20G	1 1/16 1 1/8 1 3/16 1 1/4	30	5.8268 148	4.6063 117	3.1496 80	0.7087 18	0.5118 13	1.2205 31	0.4528 11.5	1.7598 44.7	0.3543 9.0	7/16 10	SA206-17G SA206-18G SA206G SA206-19G SA206-20G	FL206	1.95
SAFL207-20G SAFL207-21G SAFL207-22G SAFL207G SAFL207-23G	1 1/4 1 5/16 1 3/8 1 7/16	35	6.3386 161	5.1181 130	3.5433 90	0.7480 19	0.5906 15	1.3386 34	0.5118 13	1.9055 48.4	0.3740 9.5	1/2 12	SA207-20G SA207-21G SA207-22G SA207G SA207-23G	FL207	2.60
SAFL208-24G SAFL208-25G SAFL208G	1 1/2 1 5/8	40	6.8898 175	5.6693 144	3.9370 100	0.8268 21	0.5906 15	1.4173 36	0.5118 13	2.1142 53.7	0.4331 11.0	1/2 12	SA208-24G SA208-25G SA208G	FL208	3.50
SAFL209-26G SAFL209-27G SAFL209-28G SAFL209G	1 5/8 1 11/16 1 3/4	45	7.4016 188	5.8268 148	4.2520 108	0.8661 22	0.6299 16	1.4961 38	0.5906 15	2.1535 54.7	0.4331 11.0	9/16 14	SA209-26G SA209-27G SA209-28G SA209G	FL209	3.90
SAFL210-30G SAFL210-31G SAFL210G SAFL210-32G	1 7/8 1 15/16 2	50	7.7559 197	6.1811 157	4.5276 115	0.8661 22	0.6299 16	1.5748 40	0.5906 15	2.1535 54.7	0.4331 11.0	9/16 14	SA210-30G SA210-31G SA210G SA210-32G	FL210	4.70
SAFL211-32G SAFL211G SAFL211-35G	2 2 3/16	55	8.8189 224	7.2441 184	5.1181 130	0.9842 25	0.7087 18	1.6929 43	0.6496 16.5	2.4173 61.4	0.4721 12.0	5/8 16	SA211-32G SA211G SA211-35G	FL211	6.55

Normally supplied as relube with "G" suffix.
Non-relube units available. Please specify non-relube.



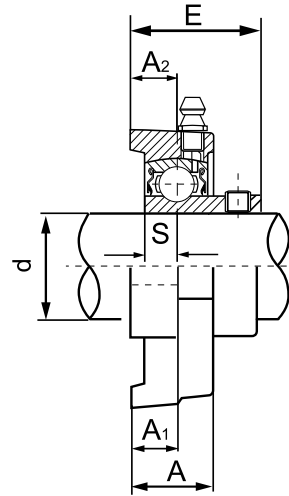
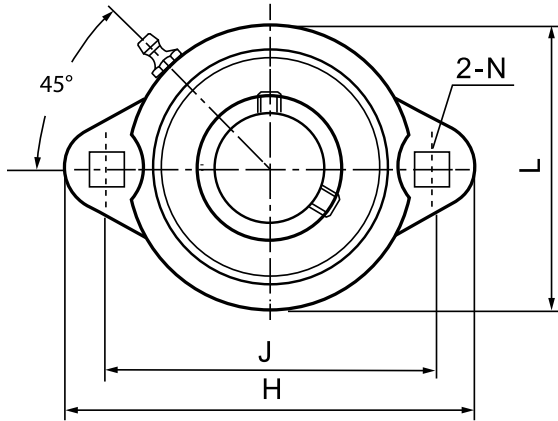
SBLF - Set Screw Locking

HLU Unit No.	Shaft Diameter		Dimensions (in.) (mm)									Bolt Used (in.) (mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	J	L	A ₂	A ₁	A	N	E	S				
SBLF201-08G SBLF202G SBLF202-10G SBLF203G	1/2 5/8	15 17	3.1890 81	2.5000 63.5	2.2205 56.4	0.3740 9.5	0.3740 9.5	0.7087 18	0.3150 8	1.0039 25.5	0.2362 6	1/4 6	SB201-08G SB202G SB202-10G SB203G	LF203	.60
SBLF204-12G SBLF204G	3/4	20	3.5433 90	2.8110 71.4	2.4016 61	0.4331 11	0.4331 11	0.7874 20	0.3937 10	1.1417 29	0.2756 7	5/16 8	SB204-12G SB204G	LF204	.70
SBLF205-14G SBLF205-15G SBLF205G SBLF205-16G	7/8 15/16 1	25	3.7402 95	2.9921 76	2.5197 64	0.4331 11	0.4331 11	0.7874 20	0.3937 10	1.2008 30.5	0.2953 7.5	5/16 8	SB205-14G SB205-15G SB205G SB205-16G	LF205	.80
SBLF206-18G SBLF206G SBLF206-19G SBLF206-20G	1 1/8 1 3/16 1 1/4	30	4.4488 113	3.5630 90.5	2.9921 76	0.4724 12	0.4724 12	0.8661 22	0.4724 12	1.3386 34	0.3150 8	3/8 10	SB206-18G SB206G SB206-19G SB206-20G	LF206	1.15
SBLF207-20G SBLF207-21G SBLF207-22G SBLF207G SBLF207-23G	1 1/4 1 5/16 1 3/8 1 7/16	35	4.8031 122	3.9370 100	3.5039 89	0.5118 13	0.5118 13	0.9449 24	0.4724 12	1.4370 36.5	0.3346 8.5	3/8 10	SB207-20G SB207-21G SB207-22G SB207G SB207-23G	LF207	1.75

SALF - Eccentric Locking Collar

HLU Unit No.	Shaft Diameter		Dimensions (in.) (mm)									Bolt Used (in.) (mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	J	L	A ₂	A ₁	A	N	E	S				
SALF201-08G SALF202G SALF202-10G SALF203G	1/2 5/8	15 17	3.1890 81	2.5000 63.5	2.2205 56.4	0.3740 9.5	0.3740 9.5	0.7087 18	0.3150 8	1.2441 31.6	0.2559 6.5	1/4 6	SA201-08G SA202G SA202-10G SA203G	LF203	.70
SALF204-12G SALF204G	3/4	20	3.5433 90	2.8110 71.4	2.4016 61	0.4331 11	0.4331 11	0.7874 20	0.3937 10	1.3583 34.5	0.2953 7.5	5/16 8	SA204-12G SA204G	LF204	.80
SALF205-14G SALF205-15G SALF205G SALF205-16G	7/8 15/16 1	25	3.7402 95	2.9921 76	2.5197 64	0.4331 11	0.4331 11	0.7874 20	0.3937 10	1.3583 34.5	0.2953 7.5	5/16 8	SA205-14G SA205-15G SA205G SA205-16G	LF205	.80
SALF206-17G SALF206-18G SALF206G SALF206-19G SALF206-20G	1 1/16 1 1/8 1 3/16 1 1/4	30	4.4488 113	3.5630 90.5	2.9921 76	0.4724 12	0.4724 12	0.8661 22	0.4724 12	1.5236 38.7	0.3543 9	3/8 10	SA206-17G SA206-18G SA206G SA206-19G SA206-20G	LF206	1.30
SALF207-20G SALF207-21G SALF207-22G SALF207G SALF207-23G	1 1/4 1 5/16 1 3/8 1 7/16	35	4.8031 122	3.9370 100	3.5039 89	0.5118 13	0.5118 13	0.9449 24	0.4724 12	1.6693 42.4	0.3740 9.5	3/8 10	SA207-20G SA207-21G SA207-22G SA207G SA207-23G	LF207	1.95

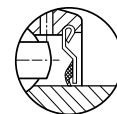
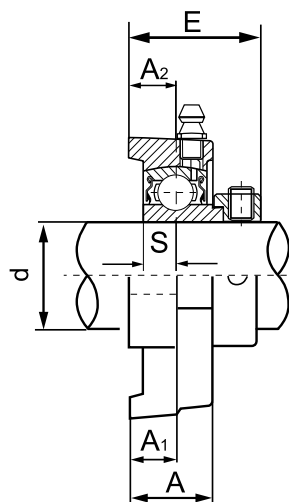
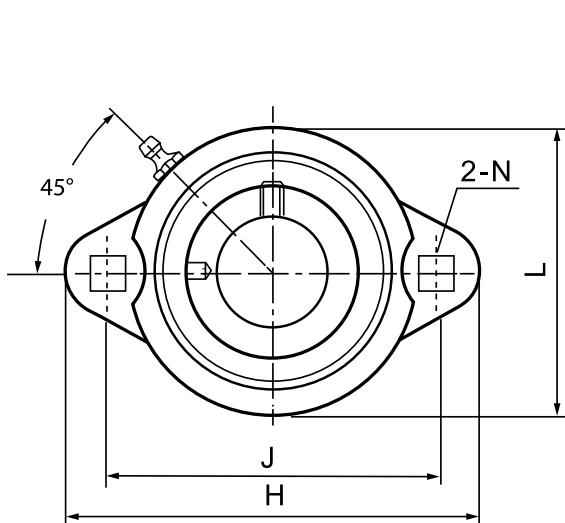
Normally supplied as relube with "G" suffix. Non-relube units available. Please specify non-relube.



K Type Seal

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)									Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	J	L	A2	A1	A	N	E	S				
SBPFTD201-08G SBPFTD202G SBPFTD202-10G SBPFTD203G	1/2 5/8	15 17	3.1890 81	2.5000 63.5	2.2047 56	0.3740 9.5	0.3740 9.5	0.7087 18	9/32 7.1	1.0039 25.5	0.2362 6	1/4 6	SB201-08G SB202G SB202-10G SB203G	PFTD203	.50
SBPFTD204-12G SBPFTD204G	3/4	20	3.5630 90.5	2.8110 71.4	2.3740 60.3	0.4331 11	0.4331 11	0.7795 19.8	11/32 8.73	1.1417 29	0.2756 7	5/16 8	SB204-12G SB204G	PFTD204	.70
SBPFTD205-14G SBPFTD205-15G SBPFTD205G SBPFTD205-16G	7/8 15/16 1	25	3.7520 95.3	3.0000 76.2	2.6378 67	0.4882 12.4	0.4409 11.2	0.8504 21.6	11/32 8.73	1.2559 31.9	0.2953 7.5	5/16 8	SB205-14G SB205-15G SB205G SB205-16G	PFTD205	.85
SBPFTD206-17G SBPFTD206-18G SBPFTD206G SBPFTD206-19G SBPFTD206-20G	1 1/16 1 1/8 1 3/16 1 1/4	30	4.4370 112.7	3.5630 90.5	3.0945 78.6	0.5630 14.3	0.4724 12	0.9370 23.8	13/32 10.3	1.4291 36.3	0.3150 8	3/8 10	SB206-17G SB206-18G SB206G SB206-19G SB206-20G	PFTD206	1.20
SBPFTD207-20G SBPFTD207-21G SBPFTD207-22G SBPFTD207G SBPFTD207-23G	1 1/4 1 5/16 1 3/8 1 7/16	35	4.8110 122.2	3.9370 100	3.5039 89	0.5630 14.3	0.5000 12.7	1.0630 27	13/32 10.3	1.4882 37.8	0.3346 8.5	3/8 10	SB207-20G SB207-21G SB207-22G SB207G SB207-23G	PFTD207	1.65

Normally supplied as relube with "G" suffix.
Non-relube units available. Please specify non-relube.

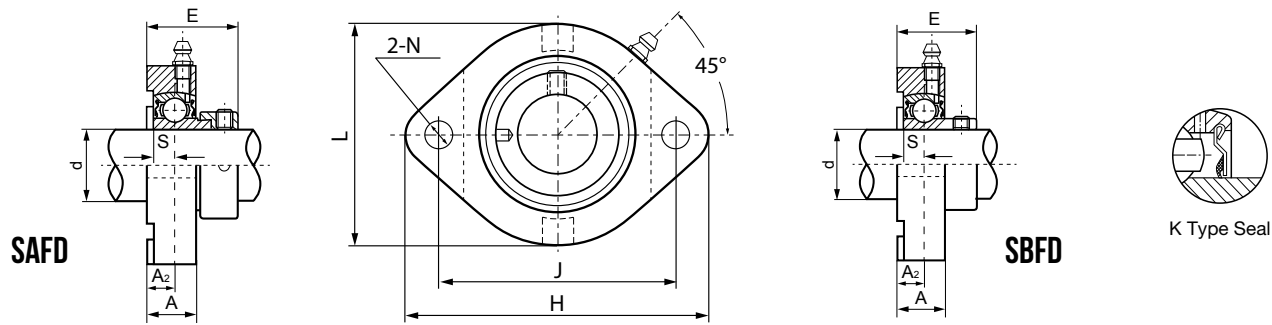


K Type Seal

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)									Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	J	L	A2	A1	A	N	E	S				
SAPFTD201-08G	1/2		3.1890	2.5000	2.2047	0.3740	0.3740	0.7087	9/32	1.2441	0.2559	1/4	SA201-08G	PFTD203	.60
SAPFTD202G		15	81	63.5	56	9.5	9.5	18	7.1	31.6	6.5	6	SA202G		
SAPFTD202-10G	5/8												SA202-10G		
SAPFTD203G		17											SA203G		
SAPFTD204-12G	3/4		3.5630	2.8110	2.3740	0.4331	0.4331	0.7795	11/32	1.3583	0.2953	5/16	SA204-12G	PFTD204	.80
SAPFTD204G		20	90.5	71.4	60.3	11	11	19.8	8.73	34.5	7.5	8	SA204G		
SAPFTD205-14G	7/8		3.7520	3.0000	2.6378	0.4882	0.4409	0.8504	11/32	1.4134	0.2953	5/16	SA205-14G	PFTD205	.85
SAPFTD205-15G	15/16		95.3	76.2	67	12.4	11.2	21.6	8.73	35.9	7.5	8	SA205-15G		
SAPFTD205G		25											SA205G		
SAPFTD205-16G	1												SA205-16G		
SAPFTD206-17G	1 1/16		4.4370	3.5630	3.0945	0.5630	0.4724	0.9370	13/32	1.6142	0.3543	3/8	SA206-17G	PFTD206	1.35
SAPFTD206-18G	1 1/8		112.7	90.5	78.6	14.3	12	23.8	10.3	41	9	10	SA206-18G		
SAPFTD206G		30											SA206G		
SAPFTD206-19G	1 3/16												SA206-19G		
SAPFTD206-20G	1 1/4												SA206-20G		
SAPFTD207-20G	1 1/4		4.8110	3.9370	3.5039	0.5630	0.5000	1.0630	13/32	1.7205	0.3740	3/8	SA207-20G	PFTD207	1.80
SAPFTD207-21G	1 5/16		122.2	100	89	14.3	12.7	27	10.3	43.7	9.5	10	SA207-21G		
SAPFTD207-22G	1 3/8												SA207-22G		
SAPFTD207G		35											SA207G		
SAPFTD207-23G	1 7/16												SA207-23G		

Normally supplied as relube with "G" suffix.

Non-relube units available. Please specify non-relube.



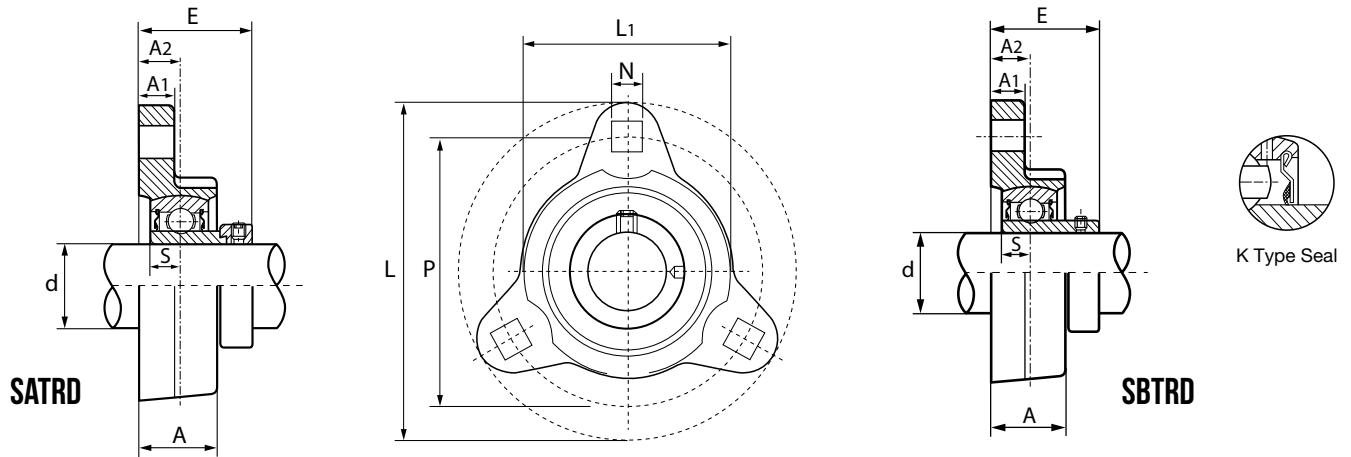
SAFD - Eccentric Locking Collar

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)								Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs		
	in.	mm	H	J	L	A2	A	N	E	S						
SAFD201-08G	1/2															
SAFD202G		15	3.1890	2.5000	2.3228	0.2953	0.5906	0.2756	1.1654	0.2559	1/4	SA201-08G				
SAFD202-10G	5/8		81	63.5	59	7.5	15	7	29.6	6.5	M6	SA202G	FD203		.75	
SAFD203G		17										SA202-10G				
												SA203G				
SAFD204-12G	3/4		3.5827	2.8110	2.6378	0.3740	0.6299	0.3740	1.2992	0.2953	5/16	SA204-12G				
SAFD204G		20	91	71.4	67	9.5	16	9.5	33.0	7.5	M8	SA204G	FD204		.95	
SAFD205-14G	7/8											SA205-14G				
SAFD205-15G	15/16		3.7402	3.0000	2.7953	0.3543	0.6693	0.3740	1.2795	0.2953	5/16	SA205-15G				
SAFD205G		25	95	76.2	71	9.0	17	9.5	32.5	7.5	M8	SA205G	FD205		1.20	
SAFD205-16G	1											SA205-16G				
SAFD206-17G	1 1/16											SA206-17G				
SAFD206-18G	1 1/8		4.4488	3.5630	3.3071	0.3740	0.7874	0.4331	1.4252	0.3543	3/8	SA206-18G				
SAFD206G		30	113	90.5	84	9.5	20	11	36.2	9.0	M10	SA206G	FD206		1.90	
SAFD206-19G	1 3/16											SA206-19G				
SAFD206-20G	1 1/4											SA206-20G				
SAFD207-20G	1 1/4											SA207-20G				
SAFD207-21G	1 5/16		4.9213	3.9370	3.7008	0.3937	0.8661	0.4331	1.5512	0.3740	3/8	SA207-21G				
SAFD207-22G	1 3/8		125	100	94	10	22	11	39.4	9.5	M10	SA207-22G	FD207		2.65	
SAFD207G		35										SA207G				
SAFD207-23G	1 7/16											SA207-23G				

SBFD - Set Screw Locking

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)								Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs		
	in.	mm	H	J	L	A2	A	N	E	S						
SBFD201-08G	1/2															
SBFD202G		15	3.1890	2.5000	2.3228	0.2953	0.5906	0.2756	0.9252	0.2362	1/4	SB201-08G				
SBFD202-10G	5/8		81	63.5	59	7.5	15	7	23.5	6.0	M6	SB202G	FD203		0.70	
SBFD203G		17										SB202-10G				
												SB203G				
SBFD204-12G	3/4		3.5827	2.8110	2.6378	0.3740	0.6299	0.3740	1.0827	0.2756	5/16	SB204-12G				
SBFD204G		20	91	71.4	67	9.5	16	9.5	27.5	7.0	M8	SB204G	FD204		0.90	
SBFD205-14G	7/8											SB205-14G				
SBFD205-15G	15/16		3.7402	3.0000	2.7953	0.3543	0.6693	0.3740	1.1220	0.2953	5/16	SB205-15G				
SBFD205G		25	95	76.2	71	9.0	17	9.5	28.5	7.5	M8	SB205G	FD205		1.12	
SBFD205-16G	1											SB205-16G				
SBFD206-17G	1 1/16											SB206-17G				
SBFD206-18G	1 1/8		4.4488	3.5630	3.3071	0.3740	0.7874	0.4331	1.2402	0.3150	3/8	SB206-18G				
SBFD206G		30	113	90.5	84	9.5	20	11	31.5	8.0	M10	SB206G	FD206		1.75	
SBFD206-19G	1 3/16											SB206-19G				
SBFD206-20G	1 1/4											SB206-20G				
SBFD207-20G	1 1/4											SB207-20G				
SBFD207-21G	1 5/16		4.9213	3.9370	3.7008	0.3937	0.8661	0.4331	1.3189	0.3346	3/8	SB207-21G				
SBFD207-22G	1 3/8		125	100	94	10	22	11	33.5	8.5	M10	SB207-22G	FD207		2.35	
SBFD207G		35										SB207G				
SBFD207-23G	1 7/16											SB207-23G				

Normally supplied as relube with "G" suffix.
Non-relube units available. Please specify non-relube.



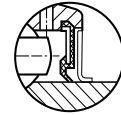
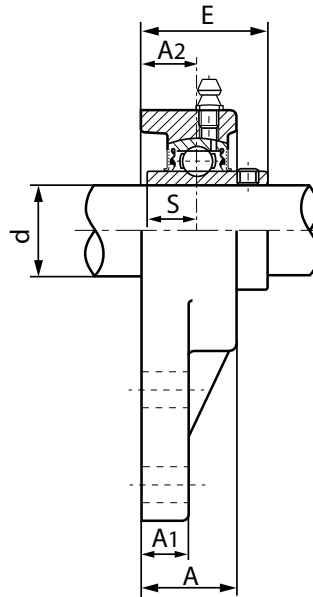
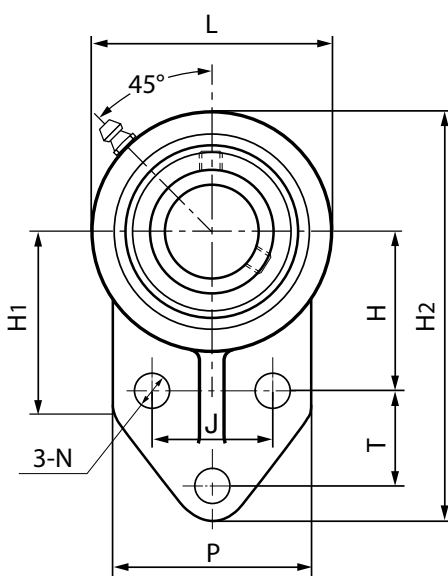
SATRD - Eccentric Locking Collar

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)									Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	L	P	L1	A2	A1	A	N	E	S				
SATRD204-12G SATRD204G	3/4	20	3.5433 90	2.8110 71.4	2.6378 67	0.4488 11.4	0.4431 11	0.7874 20	0.3425 8.7	1.3740 34.9	0.2953 7.5	5/16 8	SA204-12G SA204G	TRD204	0.90
SATRD205-14G SATRD205-15G SATRD205G SATRD205-16G	7/8 15/16 1	25	3.7480 95.2	3.0000 76.2	2.5984 66	0.4921 12.5	0.4431 11	0.8661 22	0.3425 8.7	1.4173 36	0.2953 7.5	5/16 8	SA205-14G SA205-15G SA205G SA205-16G	TRD205	0.90
SATRD206-17G SATRD206-18G SATRD206G SATRD206-19G SATRD206-20G	1 1/16 1 1/8 1 3/16 1 1/4	30	4.4370 112.7	3.5630 90.5	3.2283 82	0.5630 14.3	0.4724 12	1.0000 25.4	0.4055 10.3	1.6142 41	0.3543 9.0	3/8 10	SA206-17G SA206-18G SA206G SA206-19G SA206-20G	TRD206	1.35
SATRD207-20G SATRD207-21G SATRD207-22G SATRD207G SATRD207-23G	1 1/4 1 5/16 1 3/8 1 7/16	35	4.8031 122	3.9370 100	3.4646 88	0.5118 13	0.5118 13	0.9449 24	0.4055 10.3	1.6693 42.4	0.3740 9.5	3/8 10	SA207-20G SA207-21G SA207-22G SA207G SA207-23G	TRD207	1.95

SBTRD - Set Screw Locking

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)									Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	L	P	L1	A2	A1	A	N	E	S				
SBTRD204-12G SBTRD204G	3/4	20	3.5433 90	2.8110 71.4	2.6378 67	0.4488 11.4	0.4431 11	0.7874 20	0.3425 8.7	1.1575 29.4	0.2756 7	5/16 8	SB204-12G SB204G	TRD204	0.80
SBTRD205-14G SBTRD205-15G SBTRD205G SBTRD205-16G	7/8 15/16 1	25	3.7480 95.2	3.0000 76.2	2.5984 66	0.4921 12.5	0.4431 11	0.8661 22	0.3425 8.7	1.2598 32	0.2953 7.5	5/16 8	SB205-14G SB205-15G SB205G SB205-16G	TRD205	0.80
SBTRD206-17G SBTRD206-18G SBTRD206G SBTRD206-19G SBTRD206-20G	1 1/16 1 1/8 1 3/16 1 1/4	30	4.4370 112.7	3.5630 90.5	3.2283 82	0.5630 14.3	0.4724 12	1.0000 25.4	0.4055 10.3	1.4291 36.3	0.3150 8	3/8 10	SB206-17G SB206-18G SB206G SB206-19G SB206-20G	TRD206	1.20
SBTRD207-20G SBTRD207-21G SBTRD207-22G SBTRD207G SBTRD207-23G	1 1/4 1 5/16 1 3/8 1 7/16	35	4.8031 122	3.9370 100	3.4646 88	0.5118 13	0.5118 13	0.9449 24	0.4055 10.3	1.4370 36.5	0.3346 8.5	3/8 10	SB207-20G SB207-21G SB207-22G SB207G SB207-23G	TRD207	1.75

Normally supplied as relube with "G" suffix.
Non-relube units available. Please specify non-relube.

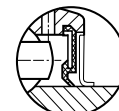
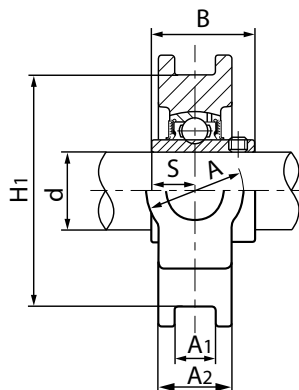
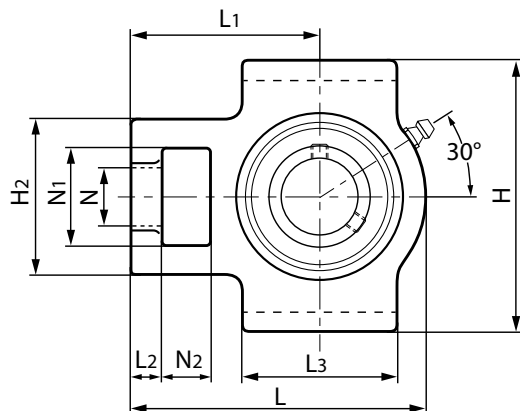


Standard B Type Seal

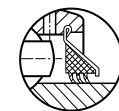


Optional Triple-lip seal
(+ Suffix - R3)

HLU Unit No.	Shaft Diameter		Dimensions ⁽ⁱⁿ⁾ _(mm)												Bolt used ^(in.) _(mm)	Bearing No.	Housing No.	Weight lbs																	
	in.	mm	H2	L	P	H	J	T	H1	A2	A1	A	N	E					S																
UCFB204-08	1/2																																		
UCFB204-10	5/8		4.2520	2.5197	2.3622	1.6890	1.5000	0.8740	2.0472	0.6299	0.3150	0.9843	0.3898	1.3504	0.500	5/16	UC204-08																		
UCFB204-12	3/4		108	64	60	42.9	38.1	22.2	52	16	8	25	9.9	34.3	12.7	8	UC204-10	FB204														1.46			
UCFB204		20																																	
UCFB205-14	7/8																																		
UCFB205-15	15/16		4.7638	2.7559	2.5197	1.8110	1.6260	1.1260	2.2047	0.6693	0.3740	1.1417	0.3898	1.4488	0.5630	5/16	UC205-14																		
UCFB205		25	121	70	64	46	41.3	28.6	56	17	9.5	29	9.9	36.8	14.3	8	UC205-15	FB205															1.92		
UCFB205-16	1																																		
UCFB206-17	1 1/16																																		
UCFB206-18	1 1/8																																		
UCFB206		30	5.3937	3.2677	2.7559	2.0630	1.8740	1.2520	2.5591	0.7480	0.3740	1.2598	0.3898	1.6220	0.6260	5/16	UC206-17																	2.45	
UCFB206-19	1 3/16		137	83	70	52.4	47.6	31.8	65	19	9.5	32	9.9	41.2	15.9	8	UC206-18	FB206																	
UCFB206-20	1 1/4																																		
UCFB207-20	1 1/4																																		
UCFB207-21	1 5/16																																		
UCFB207-22	1 3/8		6.1417	3.7402	3.2677	2.3740	2.0000	1.2520	2.7559	0.8268	0.5118	1.4567	0.5157	1.8268	0.6890	7/16	UC207-20																		
UCFB207		35	156	95	83	60.3	50.8	31.8	70	21	13	37	13.1	46.4	17.5	11	UC207-21	FB207																2.80	
UCFB207-23	1 7/16																																		
UCFB210-30	1 7/8																																		
UCFB210-31	1 15/16		7.5197	4.6457	4.0157	2.9370	2.7520	1.6260	3.5433	0.8268	0.5118	1.4961	0.5157	2.1102	0.7480	7/16	UC210-30																		
UCFB210		50	191	118	102	74.6	69.9	41.3	90	21	13	38	13.1	53.6	19	11	UC210-31	FB210																	5.25
UCFB210-32	2																																		

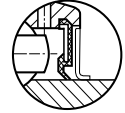
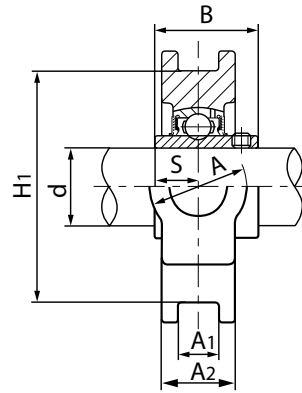
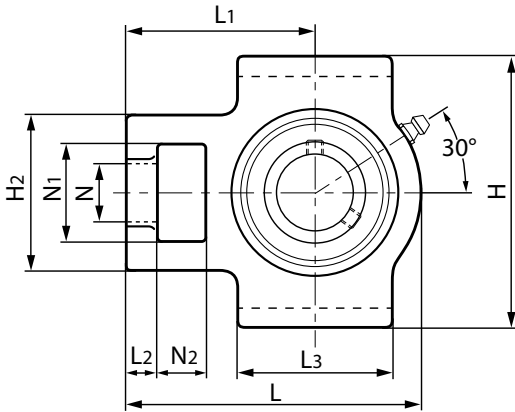


Standard B Type Seal



Optional Triple-lip seal
(+Suffix - R3)

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)														Bearing No.	Housing No.	Weight lbs	
	in.	mm	L	L1	L2	L3	N	N1	N2	H	H1	H2	A	A1	A2	S				B
UCT204-08	1/2		3.7008	2.4016	0.3937	2.0079	0.7480	1.2598	0.6299	3.5039	2.9921	2.0079	1.2598	0.5315	0.8268	0.500	1.2205	UC204-08 UC204-10 UC204-12 UC204	T204	1.85
UCT204-10	5/8		94	61	10	51	19	32	16	89	76	51	32	13.5	21	12.7	31			1.80
UCT204-12	3/4																			1.80
UCT204		20																		1.75
UCT205-14	7/8		3.8189	2.4409	0.3937	2.0079	0.7480	1.2598	0.6299	3.5039	2.9921	2.0079	1.2598	0.5315	0.9449	0.5630	1.3425	UC205-14 UC205-15 UC205 UC205-16	T205	1.85
UCT205-15	15/16		97	62	10	51	19	32	16	89	76	51	32	13.5	24	14.3	34.1			1.85
UCT205		25																		1.80
UCT205-16	1																			1.75
UCT206-17	1 1/16		4.4488	2.7559	0.3937	2.2441	0.8661	1.4567	0.6299	4.0157	3.5039	2.2047	1.4567	0.5315	1.1024	0.6260	1.5000	UC206-17 UC206-18 UC206 UC206-19 UC206-20	T206	2.75
UCT206-18	1 1/8		113	70	10	57	22	37	16	102	89	56	37	13.5	28	15.9	38.1			2.65
UCT206	1 3/16																			2.65
UCT206-19	1 1/4																			2.65
UCT206-20	1 1/2																			2.60
UCT207-20	1 1/4		5.0787	3.0709	0.5118	2.5197	0.8661	1.4567	0.6299	4.0157	3.5039	2.5197	1.4567	0.5315	1.1811	0.6890	1.6890	UC207-20 UC207-21 UC207-22 UC207 UC207-23	T207	3.60
UCT207-21	1 5/8		129	78	13	64	22	37	16	102	89	64	37	13.5	30	17.5	42.9			3.55
UCT207-22	1 3/4																			3.50
UCT207	1 7/8																			3.45
UCT207-23	2																			3.45
UCT208-24	1 1/2		5.6693	3.4646	0.6299	3.2677	1.1417	1.9291	0.7480	4.4882	3.9764	3.2677	1.9291	0.6890	1.2992	0.7480	1.9370	UC208-24 UC208-25 UC208	T208	5.15
UCT208-25	1 5/8		144	88	16	83	29	49	19	114	101	83	49	17.5	33	19	49.2			5.10
UCT208		40																		5.00
UCT209-26	1 5/8		5.6693	3.4252	0.6299	3.2677	1.1417	1.9291	0.7480	4.6063	3.9764	3.2677	1.9291	0.6890	1.3780	0.7480	1.9370	UC209-26 UC209-27 UC209-28 UC209	T209	5.25
UCT209-27	1 11/16		144	87	16	83	29	49	19	117	101	83	49	17.5	35	19	49.2			5.30
UCT209-28	1 3/4																			5.20
UCT209		45																		5.05
UCT210-30	1 7/8		5.8661	3.5433	0.6299	3.3858	1.1417	1.9291	0.7480	4.6063	3.9764	3.2677	1.9291	0.6890	1.4567	0.7480	2.0315	UC210-30 UC210-31 UC210 UC210-32	T210	5.55
UCT210-31	1 15/16		149	90	16	86	29	49	19	117	101	83	49	17.5	37	19	51.6			5.50
UCT210		50																		5.40
UCT210-32	2																			5.35
UCT211-32	2		6.7323	4.1732	0.7480	3.7405	1.3780	2.5197	0.9843	5.7480	5.1181	4.0157	2.5197	1.0630	1.4961	0.8740	2.1890	UC211-32 UC211-34 UC211 UC211-35	T211	8.50
UCT211-34	2 1/8		171	106	19	95	35	64	25	146	130	102	64	27	38	22.2	55.6			8.35
UCT211	2 1/4																			8.20
UCT211-35	2 3/8																			8.20
UCT212-36	2 1/4		7.6378	4.6850	0.7480	4.0157	1.3780	2.5197	1.2598	5.7480	5.1181	4.0157	2.5197	1.0630	1.6535	1.0000	2.5630	UC212-36 UC212 UC212-38 UC212-39	T212	10.35
UCT212	2 3/8		194	119	19	102	35	64	32	146	130	102	64	27	42	25.4	65.1			10.10
UCT212-38	2 7/8																			9.95
UCT212-39	3																			9.85
UCT215		75	9.1339	5.5118	0.8268	4.7638	1.6142	2.7559	1.2598	6.5748	5.9449	4.3701	2.7559	1.0630	1.8898	1.3110	3.0630	UC215 UC215-47 UC215-48	T215	16.15
UCT215-47	2 15/16		232	140	21	121	41	70	32	167	151	111	70	27	48	33.3	77.8			16.25
UCT215-48	3																			15.40

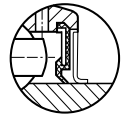
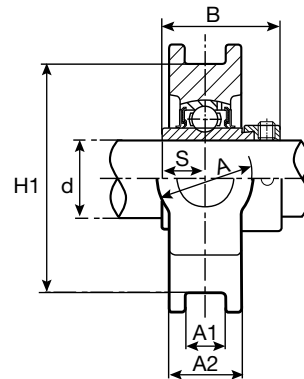
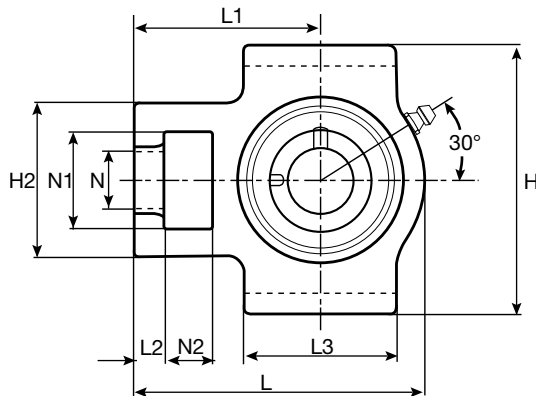


Standard B Type Seal



Optional Triple-lip seal (+ Suffix - R3)

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)														Bearing No.	Housing No.	Weight lbs	
	in.	mm	L	L1	L2	L3	N	N1	N2	H	H1	H2	A	A1	A2	S				B
UCTX05 UCTX05-16	1	25	4.4488 113	2.7559 70	0.3937 10	2.2441 57	0.8661 22	1.4567 37	0.6299 16	4.0157 102	3.5039 89	2.2047 56	1.4567 37	0.5315 13.5	1.1024 28	0.6260 15.9	1.5000 38.1	UCX05 UCTX05-16	T206	2.7
UCTX06 UCTX06-19 UCTX06-20	1 3/16 1 1/4	30	5.0787 129	3.0709 78	0.5118 13	2.5197 64	0.8661 22	1.4567 37	0.6299 16	4.0157 102	3.5039 89	2.5197 64	1.4567 37	0.5315 13.5	1.1811 30	0.6890 17.5	1.6890 42.9	UCX06 UCTX06-19 UCT207-20	T207	3.7
UCTX07-22 UCTX07 UCTX07-23	1 1/8 1 7/16	35	5.6693 144	3.4646 88	0.6299 16	3.2677 83	1.1417 29	1.9291 49	0.7480 19	4.4882 114	3.9764 101	3.2677 83	1.9291 49	0.6890 17.5	1.2992 33	0.7480 19	1.9370 49.2	UCX07-22 UCTX07 UCTX07-23	T208	5.2
UCTX08-24 UCTX08	1 1/2	40	5.6693 144	3.4252 87	0.6299 16	3.2677 83	1.1417 29	1.9291 49	0.7480 19	4.6063 117	3.9764 101	3.2677 83	1.9291 49	0.6890 17.5	1.3780 35	0.7480 19	1.9370 49.2	UCX08-24 UCTX08	T209	5.6
UCTX09-27 UCTX09-28 UCTX09	1 1/16 1 1/4	45	5.8661 149	3.5433 90	0.6299 16	3.3858 86	1.1417 29	1.9291 49	0.7480 19	4.6063 117	3.9764 101	3.2677 83	1.9291 49	0.6890 17.5	1.4567 37	0.7480 19	2.0315 51.6	UCX09-27 UCTX09-28 UCTX09	T210	6.0
UCTX10-31 UCTX10 UCTX10-32	1 1/16 2	50	6.7323 171	4.1732 106	0.7480 19	3.7402 95	1.3780 35	2.5197 64	0.9843 25	5.7480 146	5.1181 130	4.0157 102	2.5197 64	1.0630 27	1.4961 38	0.8740 22.2	2.1890 55.6	UCX10-31 UCTX10 UCT211-32	T211	8.8
UCTX11 UCTX11-35 UCTX11-36	2 3/16 2 1/4	55	7.6378 194	4.6850 119	0.7480 19	4.0157 102	1.3780 35	2.5197 64	1.2598 32	5.7480 146	5.1181 130	4.0157 102	2.5197 64	1.0630 27	1.6535 42	1.0000 25.4	2.5630 65.1	UCX11 UCTX11-35 UCT212-36	T212	10.5
UCTX12 UCTX12-39	2 7/16	60	8.8190 224	5.3937 137	0.8268 21	4.7638 121	1.6142 41	2.7559 70	1.2598 32	6.5748 167	5.9449 151	4.3701 111	2.7559 70	1.0630 27	1.7323 44	1.0000 25.4	2.5630 65.1	UCX12 UCTX12-39	T213	16.7
UCTX13-40 UCTX13	2 1/2	65	8.8190 224	5.3937 137	0.8268 21	4.7638 121	1.6142 41	2.7559 70	1.2598 32	6.5748 167	5.9449 151	4.3701 111	2.7559 70	1.0630 27	1.8110 46	1.1890 30.2	2.9370 74.6	UCX13-40 UCTX13	T214	17.5
UCTX14-43 UCTX14	2 11/16	70	9.1339 232	5.5118 140	0.8268 21	4.7638 121	1.6142 41	2.7559 70	1.2598 32	6.5748 167	5.9449 151	4.3701 111	2.7559 70	1.0630 27	1.8898 48	1.3110 33.3	3.0630 77.8	UCX14-43 UCTX14	T215	16.4
UCTX15-47 UCTX15 UCTX15-48	2 15/16 3	75	9.2520 235	5.5118 140	0.8268 21	4.7638 121	1.6142 41	2.7559 70	1.2598 32	7.2441 184	6.4961 165	4.3701 111	2.7559 70	1.0630 27	2.0079 51	1.3110 33.3	3.2520 82.6	UCX15-47 UCTX15 UCTX15-48	TX15	19.0
UCTX17 UCTX17-55 UCTX17-56	3 3/16 3 1/2	85	10.2362 260	6.3780 162	1.1024 28	6.1811 157	1.8898 48	2.8740 73	1.4961 38	7.7953 198	6.8110 173	4.8819 124	2.8740 73	1.1024 28	2.1260 54	1.5630 39.7	3.7795 96	UCX17 UCTX17-55 UCTX17-56	TX17	26.3

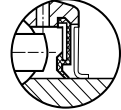
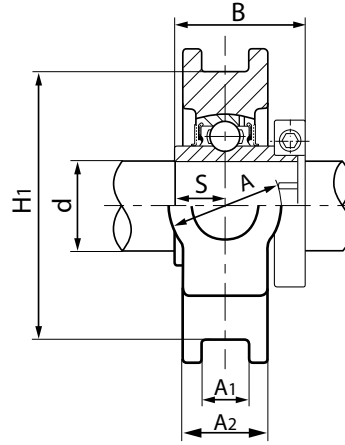
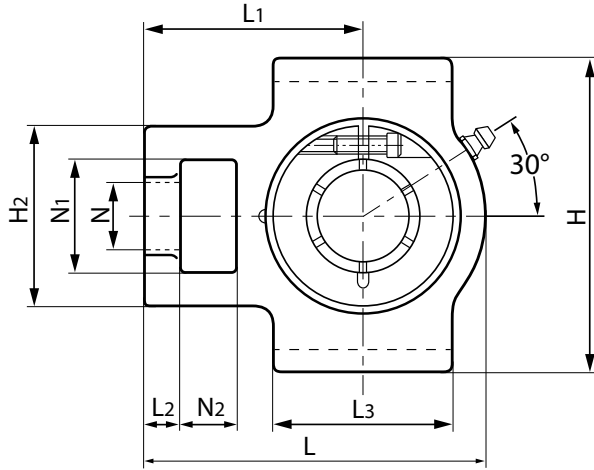


Standard B Type Seal



Optional Triple-lip seal
(+ Suffix - R3)

HLU Unit Number	Shaft Diameter		Dimensions (in./mm)														Bearing No.	Housing No.	Weight lbs	
	in.	mm	L	L1	L2	L3	N	N1	N2	H	H1	H2	A	A1	A2	S				B
NAT204-08 NAT204-10 NAT204-12 NAT204	1/2 5/8 3/4	20	3.7008 94	2.4016 61	0.3937 10	2.0079 51	0.7480 19	1.2598 32	0.6299 16	3.5039 89	2.9921 76	2.0079 51	1.2598 32	0.5315 13.5	0.8268 21	0.6732 17.1	1.7205 43.7	NA204-08 NA204-10 NA204-12 NA204	T204	1.95
NAT205-14 NAT205-15 NAT205 NAT205-16	7/8 15/16 1	25	3.8189 97	2.4409 62	0.3937 10	2.0079 51	0.7480 19	1.2598 32	0.6299 16	3.5039 89	2.9921 76	2.0079 51	1.2598 32	0.5315 13.5	0.9449 24	0.6890 17.5	1.7480 44.4	NA205-14 NA205-15 NA205 NA205-16	T205	1.90
NAT206-17 NAT206-18 NAT206 NAT206-19 NAT206-20	1 1/16 1 1/8 1 3/16 1 1/4	30	4.4488 113	2.7559 70	0.3937 10	2.2441 57	0.8661 22	1.4567 37	0.6299 16	4.0157 102	3.5039 89	2.2047 56	1.4567 37	0.5315 13.5	1.1024 28	0.7205 18.3	1.9055 48.4	NA206-17 NA206-18 NA206 NA206-19 NA206-20	T206	2.80
NAT207-20 NAT207-21 NAT207-22 NAT207 NAT207-23	1 1/4 1 5/16 1 3/8 1 7/16	35	5.0787 129	3.0709 78	0.5118 13	2.5197 64	0.8661 22	1.4567 37	0.6299 16	4.0157 102	3.5039 89	2.5197 64	1.4567 37	0.5315 13.5	1.1811 30	0.7402 18.8	2.0018 51.1	NA207-20 NA207-21 NA207-22 NA207 NA207-23	T207	3.90
NAT208-24 NAT208-25 NAT208	1 1/2 1 9/16	40	5.6693 144	3.4646 88	0.6299 16	3.2677 83	1.1417 29	1.9291 49	0.7480 19	4.4882 114	3.9764 101	3.2677 83	1.9291 49	0.6890 17.5	1.2992 33	0.8425 21.4	2.2165 56.3	NA208-24 NA208-25 NA208	T208	5.45
NAT209-26 NAT209-27 NAT209-28 NAT209	1 5/8 1 11/16 1 3/4	45	5.6693 144	3.4252 87	0.6299 16	3.2677 83	1.1417 29	1.9291 49	0.7480 19	4.6063 117	3.9764 101	3.2677 83	1.9291 49	0.6890 17.5	1.3780 35	0.8425 21.4	2.2165 56.3	NA209-26 NA209-27 NA209-28 NA209	T209	5.40
NAT210-30 NAT210-31 NAT210 NAT210-32	1 7/8 1 15/16 2	50	5.8661 149	3.5433 90	0.6299 16	3.3858 86	1.1417 29	1.9291 49	0.7480 19	4.6063 117	3.9764 101	3.2677 83	1.9291 49	0.6890 17.5	1.4567 37	0.9685 24.6	2.4685 62.7	NA210-30 NA210-31 NA210 NA210-32	T210	5.90
NAT211-32 NAT211-34 NAT211 NAT211-35	2 2 1/8 2 1/4 2 3/16	55	6.7323 171	4.1732 106	0.7480 19	3.7405 95	1.3780 35	2.5197 64	0.9843 25	5.7480 146	5.1181 130	4.0157 102	2.5197 64	1.0630 27	1.4961 38	1.0817 27.8	2.8110 71.4	NA211-32 NA211-34 NA211 NA211-35	T211	9.20
NAT212-36 NAT212 NAT212-38 NAT212-39	2 1/4 2 3/8 2 7/16	60	7.6378 194	4.6850 119	0.7480 19	4.0157 102	1.3780 35	2.5197 64	1.2598 32	5.7480 146	5.1181 130	4.0157 102	2.5197 64	1.0630 27	1.6535 42	1.2205 31	3.0630 77.8	NA212-36 NA212 NA212-38 NA212-39	T212	10.65
NAT215 NAT215-47 NAT215-48	2 15/16 3	75	9.1339 232	5.5118 140	0.8268 21	4.7638 121	1.6142 41	2.7559 70	1.2598 32	6.5748 167	5.9449 151	4.3701 111	2.7559 70	1.0630 27	1.8898 48	1.4685 37.3	3.6260 92.1	NA215 NA215-47 NA215-48	T215	17.15



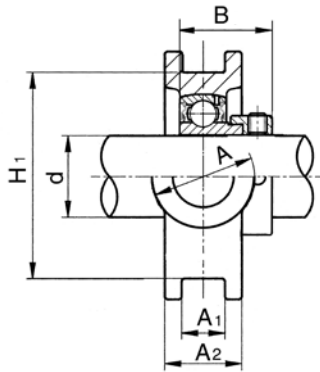
Standard B Type Seal



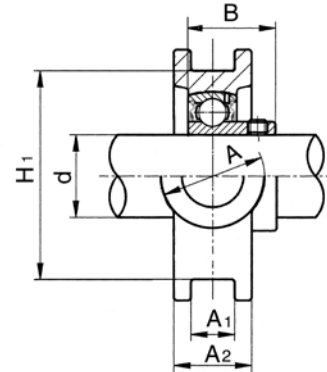
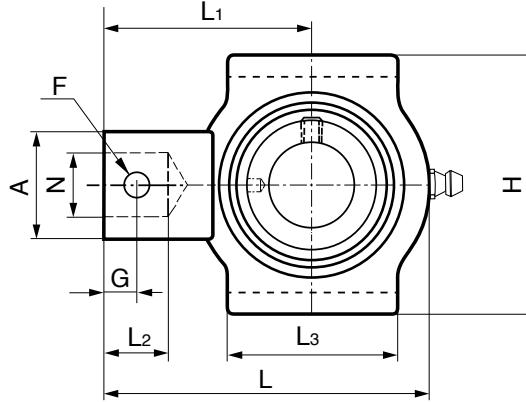
Optional Triple-lip seal
(+ Suffix - R3)

HLU Unit No.	Shaft Diameter in.	Dimensions (in./mm)														Bearing No.	Housing No.	Weight lbs	
		L	L1	L2	L3	N	N1	N2	H	H1	H2	A	A1	A2	S				B
HLT204-12	3/8	3.7008 94	2.4016 61	0.3937 10	2.0079 51	0.7480 19	1.2598 32	0.6299 16	3.5039 89	2.9921 76	2.0079 51	1.2598 32	0.5315 13.5	0.8268 21	0.500 12.7	1.2795 32.5	HL204-12	T204	1.93
HLT205-15 HLT205-16	1/8 1	3.8189 97	2.4409 62	0.3937 10	2.0079 51	0.7480 19	1.2598 32	0.6299 16	3.5039 89	2.9921 76	2.0079 51	1.2598 32	0.5315 13.5	0.9449 24	0.5630 14.3	1.4370 36.5	HL205-15 HL205-16	T205	2.20
HLT206-18 HLT206-19 HLT206-20	1 1/8 1 3/16 1 1/4	4.4488 113	2.7559 70	0.3937 10	2.2441 57	0.8661 22	1.4567 37	0.6299 16	4.0157 102	3.5039 89	2.2047 56	1.4567 37	0.5315 13.5	1.1024 28	0.6260 15.9	1.5630 39.7	HL206-18 HL206-19 HL206-20	T206	3.10
HLT207-20 HLT207-22 HLT207-23	1 1/4 1 3/8 1 7/16	5.0787 129	3.0709 78	0.5118 13	2.5197 64	0.8661 22	1.4567 37	0.6299 16	4.0157 102	3.5039 89	2.5197 64	1.4567 37	0.5315 13.5	1.1811 30	0.6890 17.5	1.7913 45.5	HL207-20 HL207-22 HL207-23	T207	4.00
HLT208-24	1 1/2	5.6693 144	3.4646 88	0.6299 16	3.2677 83	1.1417 29	1.9291 49	0.7480 19	4.4882 114	3.9764 101	3.2677 83	1.9291 49	0.6890 17.5	1.2992 33	0.7480 19	2.0000 50.8	HL208-24	T208	5.50
HLT209-26 HLT209-27 HLT209-28	1 5/8 1 11/16 1 3/4	5.6693 144	3.4252 87	0.6299 16	3.2677 83	1.1417 29	1.9291 49	0.7480 19	4.6063 117	3.9764 101	3.2677 83	1.9291 49	0.6890 17.5	1.3780 35	0.7480 19	2.0000 50.8	HL209-26 HL209-27 HL209-28	T209	5.55
HLT210-31 HLT210-32	1 15/16 2	5.8661 149	3.5433 90	0.6299 16	3.3858 86	1.1417 29	1.9291 49	0.7480 19	4.6063 117	3.9764 101	3.2677 83	1.9291 49	0.6890 17.5	1.4567 37	0.7480 19	2.0945 53.2	HL210-31 HL210-32	T210	6.24
HLT211-32 HLT211-34 HLT211-35	2 2 1/8 2 3/16	6.7323 171	4.1732 106	0.7480 19	3.7405 95	1.3780 35	2.5197 64	0.9843 25	5.7480 146	5.1181 130	4.0157 102	2.5197 64	1.0630 27	1.4961 38	0.8740 22.2	2.2520 57.2	HL211-32 HL211-34 HL211-35	T211	8.80
HLT212-36 HLT212-38 HLT212-39	2 1/4 2 3/8 2 7/16	7.6378 194	4.6850 119	0.7480 19	4.0157 102	1.3780 35	2.5197 64	1.2598 32	5.7480 146	5.1181 130	4.0157 102	2.5197 64	1.0630 27	1.6535 42	1.0000 25.4	2.6260 66.7	HL212-36 HL212-38 HL212-39	T212	11.00

Refer to recommended cap screw tightening torque table for proper tightening torques.



SATRS-H



SBTRS-H



K Type Seal

SATRS-H - Eccentric Locking Collar

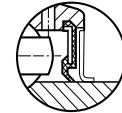
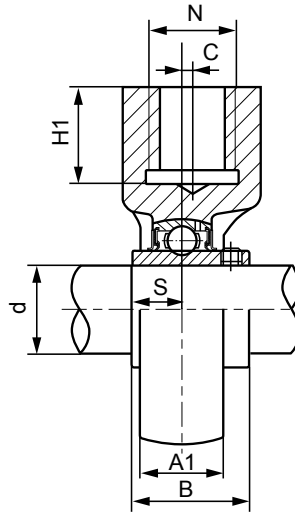
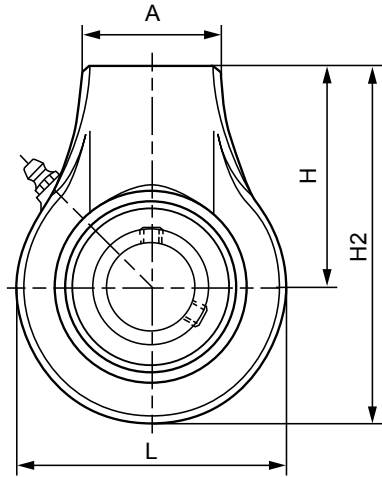
HLU Unit No.	Shaft Diameter		Dimensions (in./mm)													Bearing No.	Housing No.	Weight lbs
	in.	mm	L	L1	L2	L3	H	H1	A	A1	A2	G	F	N	B			
SATRS205H-14G	7/8	25	3.5630	2.1890	0.8740	1.5000	3.1260	2.6260	1.3780	0.2520	0.8661	0.4370	0.3110	0.7677	1.2205	SA205-14G	TRS205H	1.35
SATRS205H-15G	15/16															SA205-15G		
SATRS205HG	1															SA205G		
SATRS205H-16G	1															SA205-16G		
SATRS206H-17G	1 1/16	30	4.3110	2.6890	0.9370	2.5000	4.1339	3.5000	1.3780	0.2520	0.9685	0.5000	0.3110	0.7677	1.4055	SA206-17G	TRS206H	2.55
SATRS206H-18G	1 1/8															SA206-18G		
SATRS206HG	1 1/8															SA206G		
SATRS206H-19G	1 3/16															SA206-19G		
SATRS206H-20G	1 1/4															SA206-20G		

SBTRS-H - Set Screw Locking

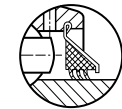
HLU Unit No.	Shaft Diameter		Dimensions (in./mm)													Bearing No.	Housing No.	Weight lbs
	in.	mm	L	L1	L2	L3	H	H1	A	A1	A2	G	F	N	B			
SBTRS205H-14G	7/8	25	3.5630	2.1890	0.8740	1.5000	3.1260	2.6260	1.3780	0.2520	0.8661	0.4370	0.3110	0.7677	1.0630	SB205-14G	TRS205H	1.30
SBTRS205H-15G	15/16															SB205-15G		
SBTRS205HG	1															SB205G		
SBTRS205H-16G	1															SB205-16G		
SBTRS206H-17G	1 1/16	30	4.3110	2.6890	0.9370	2.5000	4.1339	3.5000	1.3780	0.2520	0.9685	0.5000	0.3110	0.7677	1.1811	SB206-17G	TRS206H	2.40
SBTRS206H-18G	1 1/8															SB206-18G		
SBTRS206HG	1 1/8															SB206G		
SBTRS206H-19G	1 3/16															SB206-19G		
SBTRS206H-20G	1 1/4															SB206-20G		

Normally supplied as relube with "G" suffix.

Non-relube units available. Please specify non-relube.



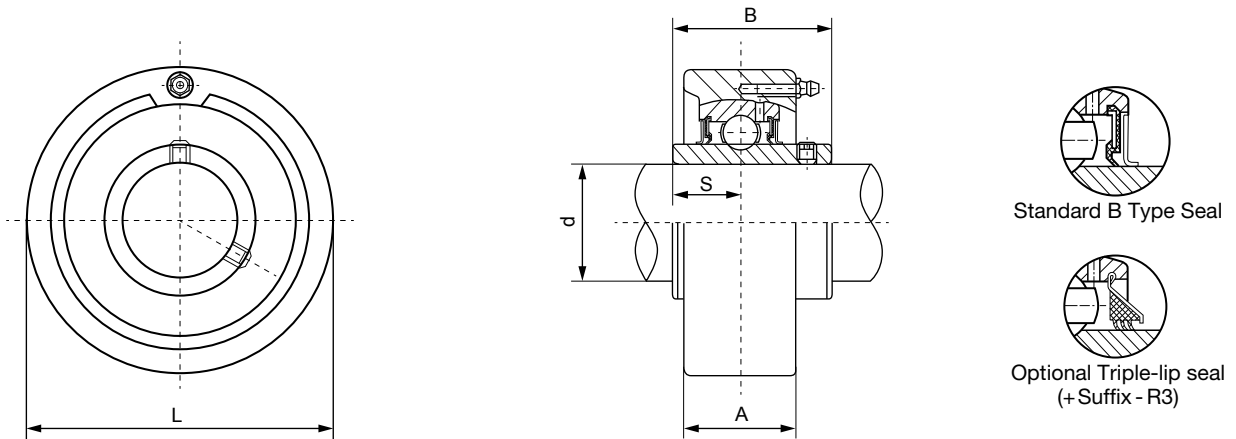
Standard B Type Seal



Optional Triple-lip seal
(+ Suffix - R3)

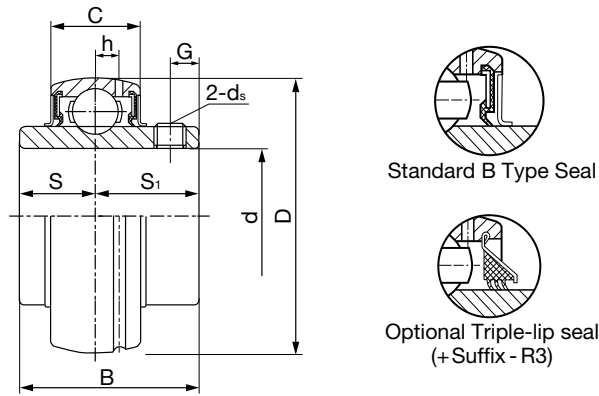
HLU Unit No.	Shaft Diameter		Dimensions (in) (mm)										Bearing No.	Housing No.	Weight lbs
	in.	mm	L	H	H2	H1	C	A	A1	B	S	*N (JIS PF)			
UCHA204-08 UCHA204-10 UCHA204-12 UCHA204	1/2 5/8 3/4	20	2.5197 64	2.5197 64	3.7795 96	0.7520 19.1	0.0000 0	1.5748 40	0.8268 21	1.2205 31	0.500 12.7	3/4-14	UC204-08 UC204-10 UC204-12 UC204	HA204	1.40
UCHA205-14 UCHA205-15 UCHA205 UCHA205-16	7/8 15/16 1	25	3.0709 78	2.5197 64	4.0551 103	0.7520 19.1	0.0000 0	1.5748 40	0.9449 24	1.3425 34.1	0.5630 14.3	3/4-14	UC205-14 UC205-15 UC205 UC205-16	HA205	1.70
UCHA206-17 UCHA206-18 UCHA206 UCHA206-19 UCHA206-20	1 1/16 1 1/8 1 3/16 1 1/4	30	3.1496 80	2.5197 64	4.0945 104	0.7520 19.1	0.0000 0	1.5748 40	1.0630 27	1.5000 38.1	0.6260 15.9	3/4-14	UC206-17 UC206-18 UC206 UC206-19 UC206-20	HA206	1.80
UCHA207-20 UCHA207-21 UCHA207-22 UCHA207 UCHA207-23	1 1/4 1 5/16 1 3/8 1 7/16	35	3.6220 92	2.7559 70	4.5669 116	0.7520 19.1	0.0000 0	1.5748 40	1.1811 30	1.6890 42.9	0.6890 17.5	3/4-14	UC207-20 UC207-21 UC207-22 UC207 UC207-23	HA207	2.60
UCHA208-24 UCHA208-25 UCHA208	1 1/2 1 9/16	40	3.9370 100	2.8740 73	4.8425 123	0.7520 19.1	0.0787 2	1.5748 40	1.2598 32	1.9370 49.2	0.7480 19	3/4-14	UC208-24 UC208-25 UC208	HA208	3.00
UCHA209-26 UCHA209-27 UCHA209-28 UCHA209	1 5/8 1 11/16 1 3/4	45	4.2520 108	3.2283 82	5.3543 136	0.8268 21	0.2047 5.2	1.8898 48	1.3386 34	1.9370 49.2	0.7480 19	1-11	UC209-26 UC209-27 UC209-28 UC209	HA209	3.75
UCHA210-30 UCHA210-31 UCHA210 UCHA210-32	1 7/8 1 15/16 2	50	4.6457 118	3.2677 83	5.5906 142	0.8268 21	0.2047 5.2	1.8898 48	1.4173 36	2.0315 51.6	0.7480 19	1-11	UC210-30 UC210-31 UC210 UC210-32	HA210	4.50

*PF-Series Pipe Thread (Japanese Pipe Parallel) is equal to G-Series Pipe Thread (British Standard Pipe Parallel) ISO 228. Was BSPP and BSPPF. Other threads available by special order.

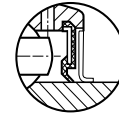
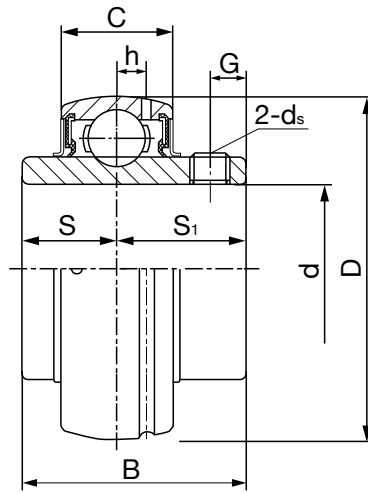


HLU Unit No.	Shaft Diameter		Dimensions (in./mm)				Bearing No.	Housing No.	Weight lbs
	in.	mm	L	A	B	S			
UCC204-08 UCC204-10	1/2 5/8		2.8346 72	0.7874 20	1.2205 31	0.5000 12.7	UC204-08 UC204-10	C204	1.12
UCC204-12 UCC204	3/4	20	2.8346 72	0.7874 20	1.2205 31	0.5000 12.7	UC204-12 UC204	C204	1.08
UCC205-14 UCC205-15 UCC205 UCC205-16	7/8 1 1/16	25	3.1496 80	0.8661 22	1.3425 34.1	0.5630 14.3	UC205-14 UC205-15 UC205 UC205-16	C205	1.52
UCC206-17 UCC206-18 UCC206 UCC206-19 UCC206-20	1 1/16 1 1/8	30	3.3465 85	1.0630 27	1.5000 38.1	0.6260 15.9	UC206-17 UC206-18 UC206 UC206-19 UC206-20	C206	1.95
UCC207-20 UCC207-21 UCC207-22 UCC207 UCC207-23	1 1/4 1 5/16 1 3/8	35	3.5433 90	1.1024 28	1.6890 42.9	0.6890 17.5	UC207-20 UC207-21 UC207-22 UC207 UC207-23	C207	2.15
UCC208-24 UCC208-25 UCC208	1 1/2 1 9/16	40	3.9370 100	1.1811 30	1.9370 49.2	0.7480 19	UC208-24 UC208-25 UC208	C208	2.80
UCC209-26 UCC209-27 UCC209-28 UCC209	1 5/8 1 11/16 1 3/4	45	4.3307 110	1.2205 31	1.9370 49.2	0.7480 19	UC209-26 UC209-27 UC209-28 UC209	C209	3.95
UCC210-30 UCC210-31 UCC210 UCC210-32	1 7/8 1 15/16	50	4.7244 120	1.2992 33	2.0315 51.6	0.7480 19	UC210-30 UC210-31 UC210 UC210-32	C210	4.35
UCC211-32 UCC211-34 UCC211 UCC211-35	2 2 1/8	55	4.9212 125	1.3780 35	2.1890 55.6	0.8740 22.2	UC211-32 UC211-34 UC211 UC211-35	C211	5.12
UCC212-36 UCC212 UCC212-38 UCC212-39	2 3/16 2 1/4	60	5.1181 130	1.4961 38	2.5630 65.1	1.0000 25.4	UC212-36 UC212 UC212-38 UC212-39	C212	6.60
UCC213 UCC213-40	2 1/2	65	5.5118 140	1.5748 40	2.5630 65.1	1.0000 25.4	UC213 UC213-40	C213	7.80

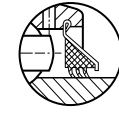
Available by Special Order.



HLU Bearing No.	Bore Diameter d		Dimensions (in./mm)								Load Ratings lbs		Weight lbs
	in.	mm	D	B	C	S	S1	G	h	ds	Dynamic Cr	Static Cor	
UC201-08	1/2	15	1.5748	1.0787	0.5512	0.4528	0.6260	0.1772	0.1378	10 - 32UNF	2151	1056	0.26
UC202	5/8		40	27.4	14	11.5	15.9	4.5	3.5	M5 X 0.8			0.24
UC202-10	3/4		17										0.24
UC203													0.22
UC204-08	1/2	20	1.8504	1.2205	0.6693	0.500	0.7205	0.1850	0.1575	1/4 - 28UNF	2886	1650	0.44
UC204-10	5/8		47	31	17	12.7	18.3	4.7	4.0	M6 X 0.75			0.42
UC204-12	3/4												0.35
UC204													0.35
UC205-14	7/8	25	2.0472	1.3425	0.6693	0.5630	0.7795	0.1969	0.1654	1/4 - 28UNF	3150	1771	0.49
UC205-15	15/16		52	34.1	17	14.3	19.8	5	4.2	M6 X 0.75			0.44
UC205													0.42
UC205-16	1												0.42
UC206-17	1 1/16	30	2.4409	1.5000	0.7480	0.6260	0.8740	0.1969	0.1969	1/4 - 28UNF	4375	2542	0.79
UC206-18	1 1/8		62	38.1	19	15.9	22.2	5	5.0	M6 X 0.75			0.75
UC206													0.68
UC206-19	1 3/16												0.71
UC206-20	1 1/4									0.68			
UC207-20	1 1/4	35	2.8346	1.6890	0.7874	0.6890	1.0000	0.2362	0.2244	5/16 - 24UNF	5770	3440	1.15
UC207-21	1 5/16		72	42.9	20	17.5	25.4	6	5.7	M8 X 1			1.10
UC207-22	1 3/8												1.06
UC207													1.01
UC207-23	1 7/16									1.01			
UC208-24	1 1/2	40	3.1496	1.9370	0.8268	0.7480	1.1890	0.3150	0.2480	5/16 - 24UNF	6636	4078	1.50
UC208-25	1 5/8		80	49.2	21	19	30.2	8	6.3	M8 X 1			1.41
UC208													1.39
UC209-26	1 5/8	45	3.3465	1.9370	0.8661	0.7480	1.1890	0.150	0.2480	5/16 - 24UNF	7120	4650	1.72
UC209-27	1 11/16		85	49.2	22	19	30.2	8	6.3	M8 X 1			1.63
UC209-28	1 3/4												1.54
UC209													1.54
UC210-30	1 7/8	50	3.5433	2.0315	0.9449	0.7480	1.2835	0.3937	0.2598	3/8 - 24UNF	7884	5210	1.87
UC210-31	1 15/16		90	51.6	24	19	32.6	10	6.6	M10 X 1.25			1.76
UC210													1.72
UC210-32	2												1.72
UC211-32	2	55	3.9370	2.1890	0.9843	0.8740	1.3150	0.3937	0.2756	3/8 - 24UNF	9752	6569	2.69
UC211-34	2 1/8		100	55.6	25	22.2	33.4	10	7	M10 X 1.25			2.43
UC211													2.36
UC211-35	2 3/16												2.31
UC212-36	2 1/4	60	4.3307	2.5630	1.0630	1.0000	1.5630	0.3937	0.2992	3/8 - 24UNF	10736	7403	3.64
UC212			110	65.1	27	25.4	39.7	10	7.6	M10 X 1.25			3.35
UC212-38	2 3/8												3.28
UC212-39	2 7/16												3.13
UC213-40	2 1/2	65	4.7244	2.5630	1.1024	1.0000	1.5630	0.3937	0.3504	3/8 - 24UNF	12861	8992	4.14
UC213			120	65.1	28	25.4	39.7	10	8.9	M10 X 1.25			3.97
UC214-44	2 3/4	70	4.9213	2.9370	1.1811	1.1890	1.7480	0.4724	0.3504	7/16 - 20UNF	13675	10123	4.56
UC214			125	74.6	30	30.2	44.4	12	8.9	M12 X 1.50			4.54
UC215		75	5.1181	3.0630	1.2598	1.3110	1.7520	0.4724	0.3504	7/16 - 20UNF	14862	11128	4.83
UC215-47	2 15/16		130	77.8	32	33.3	44.5	12	8.9	M12 X 1.50			4.87
UC215-48	3												4.65



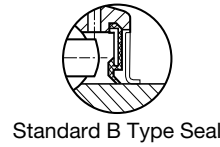
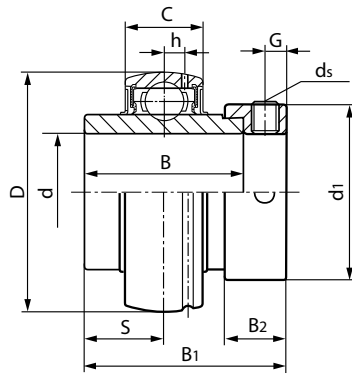
Standard B Type Seal



Triple-lip seal
(+Suffix - R3)

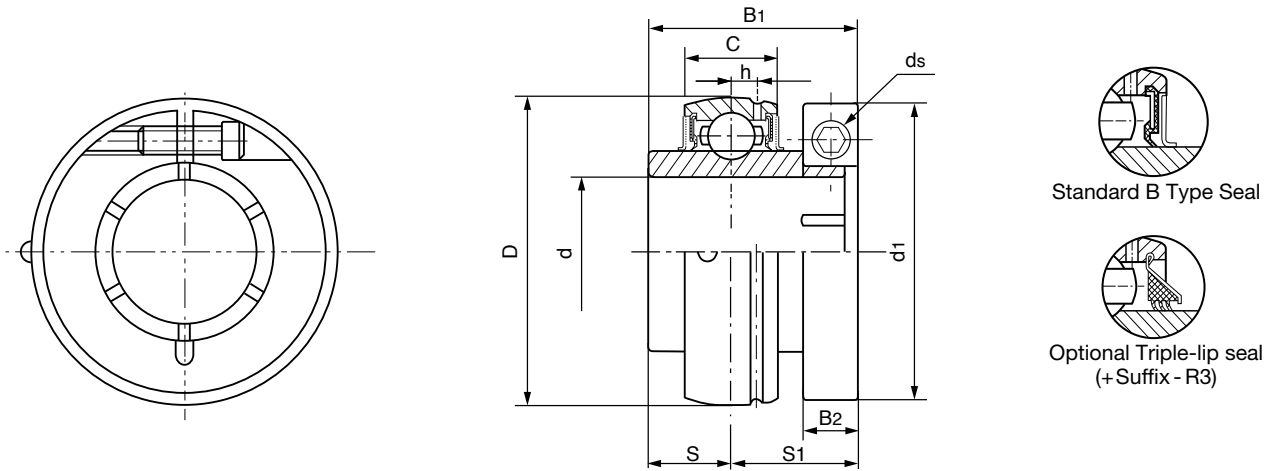
HLU Bearing No.	Bore Diameter d		Dimensions (in./mm)								Load Ratings lbs		Weight lbs
	in.	mm	D	B	C	S	S ₁	h	G	ds	Dynamic Cr	Static Cor	
UCX05 UCX05-16	1	25	2.4409 62	1.5000 38.1	0.7480 19	0.6260 15.9	0.8740 22.2	0.1969 5.0	0.1969 5.0	1/4-28UNF M6x0.75	4375	2542	0.77 0.75
UCX06 UCX06-19 UC207-20*	1 3/16 1 1/4	30	2.8346 72	1.6890 42.9	0.7874 20	0.6890 17.5	1.0000 25.4	0.2244 5.7	0.2362 6.0	5/16-24UNF M8x1.0	5771	3439	1.19 1.19 1.17
UCX07-22 UCX07	1 3/8	35	3.1496 80	1.9370 49.2	0.8268 21	0.7480 19.0	1.1890 30.2	0.2480 6.3	.3150 8.0	5/16-24UNF M8x1.0	6636	4078	1.54 1.54 1.48
UCX07-23	1 7/16												
UCX08-24 UCX08	1 1/2	40	3.3465 85	1.9370 49.2	0.8661 22	0.7480 19.0	1.1890 30.2	0.2480 6.3	.3150 8.0	5/16-24UNF M8x1.0	7120	4650	2.03 1.94
UCX09-27 UCX09-28 UCX09	1 11/16 1 3/4	45	3.5433 90	2.0315 51.6	0.9449 24	0.7480 19.0	1.2835 32.6	0.2598 6.6	0.3937 10	3/8-24UNF M10x1.25	7884	5210	2.40 2.31 2.27
UCX10-31 UCX10 UC211-32*	1 15/16 2	50	3.9370 100	2.1890 55.6	0.9842 25	0.8740 22.2	1.3150 33.4	0.2756 7.0	0.3937 10	3/8-24UNF M10x1.25	9752	6569	2.89 2.82 2.80
UCX11 UCX11-35 UC212-36*	2 3/16 2 1/4	55	4.3307 110	2.5630 65.1	1.0630 27	1.0000 25.4	1.5630 39.7	0.2992 7.6	0.3937 10	3/8-24UNF M10x1.25	10736	7403	3.81 3.75 3.68
UCX12 UCX12-39	2 7/16	60	4.7244 120	2.5630 65.1	1.1024 28	1.0000 25.4	1.5630 39.7	0.3504 8.9	0.3937 10	3/8-24UNF M10x1.25	12860	8992	4.12 3.92
UCX13-40 UCX13	2 1/2	65	4.9213 125	2.9370 74.6	1.1811 30	1.1890 30.2	1.7480 44.4	0.3504 8.9	0.4724 12	7/16-20UNF M12x1.5	13675	10123	5.11 4.92
UCX14-43 UCX14	2 11/16	70	5.1181 130	3.0630 77.8	1.2598 32	1.3110 33.3	1.7520 44.5	0.3622 9.2	0.4724 12	7/16-20UNF M12x1.5	14862	11128	5.51 5.27
UCX15-47 UCX15 UCX15-48	2 15/16 3	75	5.5118 140	3.2520 82.6	1.2992 33	1.3110 33.3	1.9409 49.3	0.3780 9.6	0.5512 14	7/16-20UNF M12x1.5	16298	11914	7.41 7.34 7.12
UCX17 UCX17-55 UCX17-56	3 7/16 3 1/2	85	6.2992 160	3.7795 96.0	1.4567 37	1.5630 39.7	2.2165 56.3	0.4409 11.2	0.5906 15	1/2-20UNF M12x1.5	21581	16073	10.52 10.10 10.19
UCX20 UCX20-63 UCX20-64	3 15/16 4	100	7.4803 190	4.6260 117.5	1.7323 44	1.9370 49.2	2.6890 68.3	0.5394 13.7	0.6299 16	1/2-20UNF M12x1.5	29898	23604	18.90 18.60 18.40

*Standard duty inserts listed identical to Medium Duty dimensions



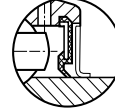
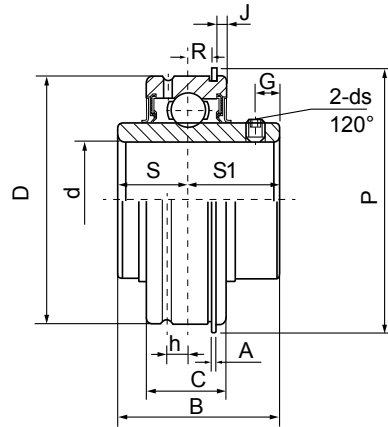
HLU Bearing No.	Bore Diameter d		Dimensions (in./mm)									Load Ratings lbs		Weight lbs		
	in.	mm	D	B	B1	C	S	B2	d1	h	G	ds	Dynamic Cr		Static Cor	
NA201-08	1/2	15	1.5748	1.0945	1.4685	0.5512	0.5472	0.5315	1.1260	0.1378	0.1969	1/4 - 28UNF	2151	1056	0.35	
NA202	5/8	17	40	27.8	37.3	14	13.9	13.5	28.6	3.5	5	M6 X 0.75			0.31	
NA202-10															0.31	
NA203		17													0.29	
NA204-08	1/2	20	1.8504	1.3465	1.7205	0.6693	0.6732	0.5315	1.3110	0.1475	0.1969	1/4 - 28UNF	2886	1650	0.60	
NA204-10	5/8		47	34.2	43.7	17	17.1	13.5	33.3	4.0	5	M6 X 0.75			0.54	
NA204-12	3/4														0.51	
NA204															0.49	
NA205-14	7/8	25	2.0472	1.3740	1.7480	0.6693	0.6890	0.5315	1.5000	0.1654	0.1969	1/4 - 28UNF	3150	1771	0.62	
NA205-15	15/16		52	34.9	44.4	17	17.5	13.5	38.1	4.2	5	M6 X 0.75			0.58	
NA205															0.55	
NA205-16	1														0.53	
NA206-17	1 1/16	30	2.4409	1.4370	1.9055	0.7480	0.7205	0.6260	1.7520	0.1969	0.2362	5/16 - 24UNF	4375	2542	0.99	
NA206-18	1 1/8		62	36.5	48.4	19	18.3	15.9	44.5	5.0	6	M8 X 1			0.91	
NA206															0.90	
NA206-19	1 3/16														0.85	
NA206-20	1 1/4												0.78			
NA207-20	1 1/4	35	2.8346	1.4803	2.0018	0.7874	0.7402	0.6890	2.1890	0.2244	0.2559	5/16 - 24UNF	5770	3440	1.46	
NA207-21	1 5/16		72	37.6	51.1	20	18.8	17.5	55.6	5.7	6.5	M8 X 1			1.41	
NA207-22	1 3/8														1.33	
NA207															1.30	
NA207-23	1 7/16												1.26			
NA208-24	1 1/2	40	3.1496	1.6850	2.2165	0.8268	0.8425	0.7205	2.3740	0.2480	0.2559	5/16 - 24UNF	6636	4078	1.79	
NA208-25	1 5/8		80	42.8	56.3	21	21.4	18.3	60.3	6.3	6.5	M8 X 1			1.70	
NA208															1.63	
NA209-26	1 5/8	45	3.3465	1.6850	2.2165	0.8661	0.8425	0.7205	2.5000	0.2480	0.2559	5/16 - 24UNF	7120	4650	2.06	
NA209-27	1 11/16		85	42.8	56.3	22	21.4	18.3	63.5	6.3	6.5	M8 X 1			1.94	
NA209-28	1 3/4														1.84	
NA209															1.81	
NA210-30	1 7/8	50	3.5433	1.9370	2.4685	0.9449	0.9685	0.7205	2.7520	0.2598	0.2559	5/16 - 24UNF	7884	5210	2.33	
NA210-31	1 15/16		90	49.2	62.7	24	24.6	18.3	69.9	6.6	6.5	M8 X 1			2.20	
NA210															2.10	
NA210-32	2														2.06	
NA211-32	2	55	3.9370	2.1850	2.8110	0.9843	1.0817	0.8150	3.000	0.2756	0.3150	3/8 - 24UNF	9752	6569	3.31	
NA211-34	2 1/8		100	55.5	71.4	25	27.8	20.7	76.2	7.0	8	M10 x 1.25			3.02	
NA211															3.09	
NA211-35	2 3/16														2.84	
NA212-36	2 1/4	60	4.3307	2.4370	3.0630	1.0630	1.2205	0.8780	3.3150	0.2992	0.3150	3/8 - 24UNF	10736	7403	4.48	
NA212			110	61.9	77.8	27	31	22.3	84.2	7.6	8	M10 x 1.25			4.12	
NA212-38	2 3/8														3.89	
NA212-39	2 7/16														3.68	
NA213-40	2 1/2	65	4.7244	2.6850	3.3740	1.1024	1.3425	0.9252	3.3858	0.3504	0.3346	3/8 - 24UNF	12861	8992	5.01	
NA213			120	68.2	85.7	28	34.1	23.5	86	8.9	8.5	M10 x 1.25			5.00	
NA214-44	2 3/4	70	4.9213	2.6850	3.3740	1.1811	1.3425	0.9252	3.5433	0.3505	0.3346	3/8 - 24UNF	13675	10123	5.69	
NA214			125	68.2	85.7	30	34.1	23.5	90	8.9	8.5	M10 x 1.25			5.67	
NA215		75	5.1181	2.9370	3.6260	1.2598	1.4685	0.9252	4.0157	0.3504	0.3346	3/8 - 24UNF	14862	11128	6.04	
NA215-47	2 15/16		130	74.6	92.1	32	37.3	23.5	102	8.9	8.5	M10 x 1.25			6.28	
NA215-48	3														6.02	

Also available in Non-Relube. Add "N" suffix.



HLU Bearing No.	Bore Diameter d in.	Dimensions (in./mm)									Load Ratings lbs		Weight lbs
		D	B1	C	S	S1	B2	h	d1	ds	Dynamic Cr	Static Cor	
HL204-12	3/4	1.8504 47	1.2795 32.5	0.6299 16	0.5000 12.7	0.7795 19.8	0.3740 9.5	0.1575 4	1.7520 44.5	8-32X5/8 UNC	2886	1650	0.48
HL205-15 HL205-16	15/16 1	2.0472 52	1.4370 36.5	0.6693 17	0.5630 14.3	0.8740 22.2	0.4370 11.1	0.1654 4.2	1.9370 49.2	10-32x3/4 UNF	3150	1771	0.80
HL206-18 HL206-19 HL206-20	1 1/8 1 3/16 1 1/4	2.4409 62	1.5630 39.7	0.7480 19	0.6260 15.9	0.9370 23.8	0.4370 11.1	0.1969 5.0	2.1890 55.6	10-32x3/4 UNF	4375	2542	1.15
HL207-20 HL207-22 HL207-23	1 1/4 1 3/8 1 7/16	2.8346 72	1.7913 45.5	0.7874 20	0.6890 17.5	1.1024 28	0.5630 14.3	0.2244 5.7	2.6890 68.3	1/4-28x3/4 UNF	5770	3440	1.55
HL208-24	1 1/2	3.1496 80	2.0000 50.8	0.8268 21	0.7180 19	1.2520 31.8	0.5630 14.3	0.2362 6.0	2.7795 70.6	1/4-28x3/4 UNF	6636	4078	1.85
HL209-26 HL209-27 HL209-28	1 5/8 1 11/16 1 3/4	3.3464 85	2.0000 50.8	0.8661 22	0.7480 19	1.2520 31.8	0.5630 14.3	0.2480 6.3	3.0630 77.8	1/4-28x3/4 UNF	7120	4650	1.90
HL210-31 HL210-32	1 15/16 2	3.5433 90	2.0945 53.2	0.9449 24	0.7480 19	1.3465 34.2	0.5630 14.3	0.2598 6.6	3.3740 85.7	1/4-28x3/4 UNF	7884	5210	2.50
HL211-32 HL211-34 HL211-35	2 2 1/8 2 3/16	3.9370 100	2.2520 57.2	0.9843 25	0.8740 22.2	1.3740 34.9	0.6890 17.5	0.2756 7.0	3.6890 93.7	5/16-24x1 UNF	9752	6569	3.00
HL212-36 HL212-38 HL212-39	2 1/4 2 3/8 2 7/16	4.3307 110	2.6260 66.7	1.0630 27	1.0000 25.4	1.6260 41.3	0.6890 17.5	0.2992 7.6	4.1102 104.4	5/16-24x1 UNF	10736	7403	4.30

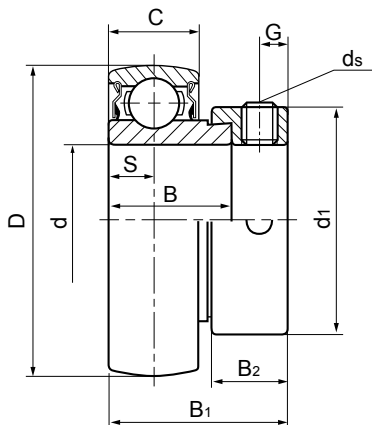
Refer to recommended cap screw tightening torque table for proper tightening torques.



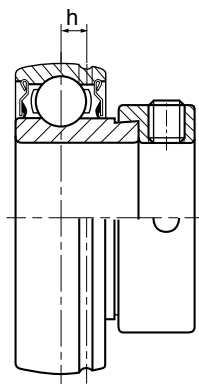
Standard B Type Seal

HLU Bearing No.	Bore Diameter d		Dimensions (in./mm)											Load Ratings lbs		Weight lbs	
	in.	mm	D	B	C	S	S1	h	P	R	J	A	G	ds	Dynamic Cr		Static Cor
SER201-08	1/2	15															
SER202	5/16	17	1.8504	1.2205	0.6300	0.5000	0.7206	0.1575	2.0748	0.1783	0.0945	0.0421	0.1969	1/4-28UNF	2886	1495	.60
SER202-10	3/8	20	47	31	16	12.7	18.3	4	52.7	4.53	2.4	1.07	5	M6x0.75			.55
SER203																	.53
SER204-12																	.51
SER204																	.49
SER205-14	7/8	25	2.0472	1.3425	0.7480	0.5630	0.7795	0.1693	2.2795	0.2374	0.0945	0.0421	0.1969	1/4-28UNF	3152	1771	.49
SER205-15	15/16		52	34.1	19	14.3	19.8	4.3	57.9	6.03	2.4	1.07	5	M6x0.75			.46
SER205	1																.44
SER205-16																	
SER205-16BO*	1		2.0472	1.3740	0.7480	0.5157	0.8583	0.1772	2.2657	0.2374	0.0945	0.0421	0.2165	1/4-28UNF	3152	1771	.47
			52	34.9	19	13.1	21.8	4.5	57.55	6.03	2.4	1.07	5.5	M6x0.75			
SER206-17	1 1/16	30	2.4409	1.5000	0.8661	0.6260	0.8740	0.2165	2.6654	0.2421	0.1260	0.0650	0.1969	1/4-28UNF	4375	2542	.84
SER206-18	1 1/8		62	38.1	22	15.9	22.2	5.5	67.7	6.15	3.2	1.65	5	M6x0.75			.82
SER206	1 3/16																.77
SER206-19	1 1/4																.77
SER206-20																	.77
SER207-20	1 1/4	35	2.8346	1.6890	0.9449	0.6890	1.0000	0.2362	3.0906	0.2815	0.1260	0.0650	0.2362	5/16-24UNF	5771	3439	1.23
SER207-21	1 5/16		72	42.9	24	17.5	25.4	6	78.4	7.15	3.2	1.65	6	M8x1			1.19
SER207-22	1 3/8																1.15
SER207	1 7/16																1.12
SER207-23																	1.06
SER208-24	1 1/2	40	3.1496	1.9370	1.1024	0.7480	1.1890	0.2953	3.4094	0.3602	0.1260	0.0650	0.3150	5/16-24UNF	6636	4078	1.59
SER208-25	1 5/16		80	49.2	28	19	30.2	7.5	86.6	9.15	3.2	1.65	8	M8x1			1.50
SER208																	1.59
SER209-26	1 5/8	45	3.3465	1.9370	1.1024	0.7480	1.1890	0.2953	3.6063	0.3602	0.1260	0.0650	0.3150	5/16-24UNF	7119	4649	1.98
SER209-27	1 11/16		85	49.2	28	19	30.2	7.5	91.6	9.15	3.2	1.65	8	M8x1			1.76
SER209-28	1 3/4																1.81
SER209																	1.79
SER210-30	1 7/8	50	3.5433	2.0315	1.1024	0.7480	1.2835	0.2953	3.7992	0.3303	0.1260	0.0949	0.3543	3/8-24UNF	7884	5211	2.03
SER210-31	1 15/16		90	51.6	28	19	32.6	7.5	96.5	8.39	3.2	2.41	9	M10x1.25			1.92
SER210	2																1.90
SER210-32																	1.87
SER211-32	2	55	3.9370	2.1890	1.1811	0.8740	1.3150	0.3150	4.1929	0.3697	0.1260	0.0949	0.3543	3/8-24UNF	9752	6569	2.82
SER211-34	2 1/8		100	55.6	30	22.2	33.4	8	106.5	9.39	3.2	2.41	9	M10x1.25			2.60
SER211	2 3/16																2.54
SER211-35																	2.47
SER212-36	2 1/4	60	4.3307	2.5630	1.2598	1.0000	1.5630	0.3346	4.5906	0.4091	0.1260	0.0949	0.3937	3/8-24UNF	10736	7403	3.75
SER212	2 3/8		110	65.1	32	25.4	39.7	8.5	116.6	10.39	3.2	2.41	10	M10x1.25			3.48
SER212-38	2 7/16																3.44
SER212-39																	3.26
SER215	2 15/16	75	5.1181	3.0630	1.4961	1.3110	1.7520	0.4016	5.5000	0.4815	0.1575	0.1091	0.4724	7/16-20UNF	14862	11128	6.31
SER215-47	3		130	77.8	38	33.3	44.5	10.2	139.7	12.23	4	2.77	12	M12x1.5			
SER215-48																	

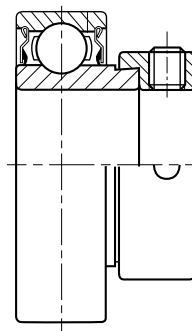
*Bearing has Black Oxide Finish.
All sizes furnished with Snap Ring.



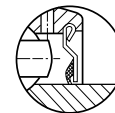
SA2
Spherical OD
Non-Regreasable



SA2 G
Spherical OD
Regreasable



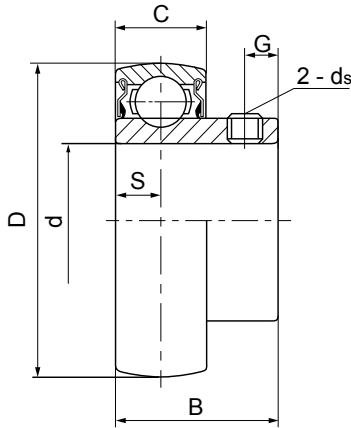
CSA 2
Cylindrical OD
Non-Regreasable



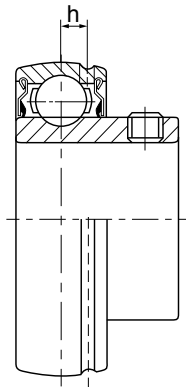
K Type Seal

HLU Bearing No.	Bore Diameter d		Dimensions (in./mm)										Load Ratings lbs		Weight lbs
	in.	mm	D	B1	B	C	S	d1	B2	h	G	ds	Dynamic Cr	Static Cor	
SA201-08	1/2	15	1.5748	1.1260	0.7520	0.5118	0.2559	1.1260	0.5315	0.1339	0.1969	1/4 - 28UNF	2151	1056	0.31
SA202	5/8	17	40	28.6	19.1	13	6.5	28.6	13.5	3.4	5.0	M6 X 0.75			0.24
SA202-10 SA203															0.29
SA204-12	3/4	20	1.8504	1.2205	0.8465	0.5906	0.2953	1.3110	0.5315	0.1575	0.1969	1/4 - 28UNF	2886	1650	0.35
SA204			47	31.0	21.5	15	7.5	33.3	13.5	4.0	5.0	M6 X 0.75			0.33
SA205-14	7/8	25	2.0472	1.2205	0.8465	0.5906	0.2953	1.5000	0.5315	0.1654	0.1969	1/4 - 28UNF	3150	1771	0.46
SA205-15	15/16		52	31.0	21.5	15	7.5	38.1	13.5	4.2	5.0	M6 X 0.75			0.42
SA205															
SA205-16	1														0.40
SA206-17	1 1/16	30	2.4409	1.4055	0.9370	0.7087	0.3543	1.7520	0.6260	0.1969	0.2362	5/16 - 24UNF	4375	2542	0.75
SA206-18	1 1/8		62	35.7	23.8	18	9.0	44.5	15.9	5.0	6.0	M8 X 1			0.71
SA206															
SA206-19	1 3/16	1 1/4	62	35.7	23.8	18	9.0	44.5	15.9	5.0	6.0	5/16 - 24UNF	5770	3440	0.66
SA206-20	1 1/4														0.64
SA207-20	1 1/4	35	2.8346	1.5313	1.0000	0.7490	0.3740	2.1890	0.6890	0.2244	0.2559	5/16 - 24UNF	6636	4078	1.21
SA207-21	1 5/16		72	38.9	25.4	19	9.5	55.6	17.5	5.7	6.5	M8 X 1			1.17
SA207-22	1 3/8														
SA207															1.10
SA207-23	1 7/16														1.04
SA208-24	1 1/2	40	3.1496	1.7205	1.1890	0.8661	0.4331	2.3740	0.7205	0.2362	0.2559	5/16 - 24UNF	7120	4650	1.48
SA208-25	1 5/8		80	43.7	30.2	22	11.0	60.3	18.3	6.0	6.5	M8 X 1			1.43
SA208															
SA209-26	1 5/8	45	3.3465	1.7205	1.1890	0.8661	0.4331	2.5000	0.7205	0.2480	0.2559	5/16 - 24UNF	7884	5210	1.63
SA209-27	1 11/16		85	43.7	30.2	22	11.0	63.5	18.3	6.3	6.5	M8 X 1			1.59
SA209-28	1 3/4														
SA209															1.46
SA210-30	1 7/8	50	3.5433	1.7205	1.1890	0.8661	0.4331	2.752	0.7205	0.2598	0.2559	5/16 - 24UNF	9752	6569	1.90
SA210-31	1 15/16		90	43.7	30.2	22	11.0	69.9	18.3	6.6	6.5	M8 X 1			1.83
SA210															
SA210-32	2														1.74
SA211-32	2	55	3.9370	1.9055	1.2795	0.9449	0.4721	3.000	0.8150	0.2756	0.3150	3/8 - 24UNF	9752	6569	2.09
SA211-34	2 1/8		100	48.4	32.5	24	12.0	76.2	20.7	7.0	8.0	M10 X 1.25			1.90
SA211															
SA211-35	2 3/16														1.79

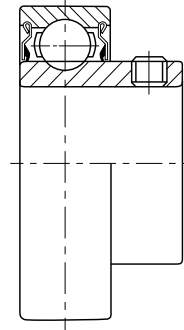
Add suffix "G" for regreasable bearing.
Prefix "C" with cylindrical outside diameter.



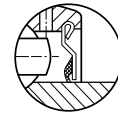
SB2
Spherical OD
Non-Regreasable



SB2 G
Spherical OD
Regreasable



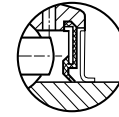
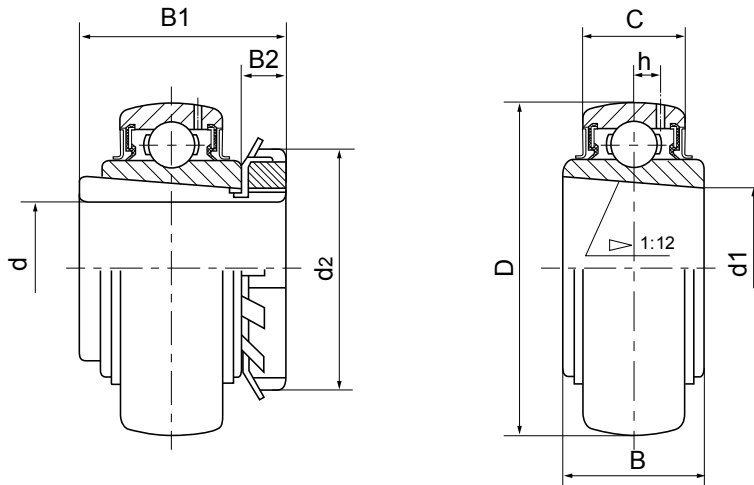
CSB 2
Cylindrical OD
Non-Regreasable



K Type Seal

HLU Bearing No.	Bore Diameter d		Dimensions (in./mm)							Load Ratings lbs		Weight lbs							
			D	B	C	S	h	G	ds	Dynamic Cr	Static Cor								
SB201-08	1/2	15	1.5748	0.8661	0.4724	0.2362	0.1378	0.1772	10-32UNF	2151	1056	.22							
SB202			40	22	12	6	3.5	4.5	M5X0.8			.20							
SB202-10	5/8	17										.20							
SB203												.18							
SB204-12	3/4	20	1.8504	0.9842	0.5512	0.2756	0.1575	0.1772	1/4-28UNF	2886	1650	.29							
SB204			47	25	14	7	4	4.5	M6X0.75			.27							
SB205-14	7/8	25	2.0472	1.0630	0.5906	0.2953	0.1654	0.1969	1/4-28UNF	3150	1771	.40							
SB205-15	15/16											52	27	15	7.5	4.2	5	M6X0.75	.37
SB205																			.37
SB205-16	1											.35							
SB206-17	1 1/16	30	2.4409	1.1811	0.6299	0.3150	0.1969	0.2165	1/4-28UNF	4375	2542	.62							
SB206-18	1 1/8											62	30	16	8	5	5.5	M6X0.75	.57
SB206																			.55
SB206-19	1 3/16																		.55
SB206-20	1 1/4											.51							
SB207-20	1 1/4	35	2.8346	1.2598	0.6693	0.3346	0.2244	0.2362	5/16-24UNF	5770	3440	.90							
SB207-21	1 5/16											72	32	17	8.5	5.7	6	M8X1	.86
SB207-22	1 3/8																		.82
SB207																			.82
SB207-23	1 7/16																		.77
SB208-24	1 1/2	40	3.1496	1.3386	0.7087	0.3543	0.2362	0.3150	5/16-24UNF	6636	4078	1.06							
SB208-25	1 9/16											80	34	18	9	6	8	M8X1	0.99
SB208																			0.99
SB209-27	1 11/16	45	3.346	1.6220	0.7480	0.4016	0.2480	0.3150	5/16-24UNF	7120	4650	1.76							
SB209-28	1 3/4											85	41.2	19	10.2	6.3	8	M8X1	
SB209																			
SB210-31	1 15/16	50	3.5433	1.7126	0.7874	0.4291	0.2598	0.3543	5/16-24UNF	7884	5210	1.92							
SB210												90	43.5	20	10.9	6.6	9	M8X1	
SB210-32	2																		

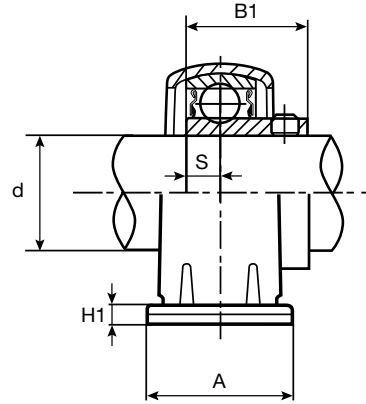
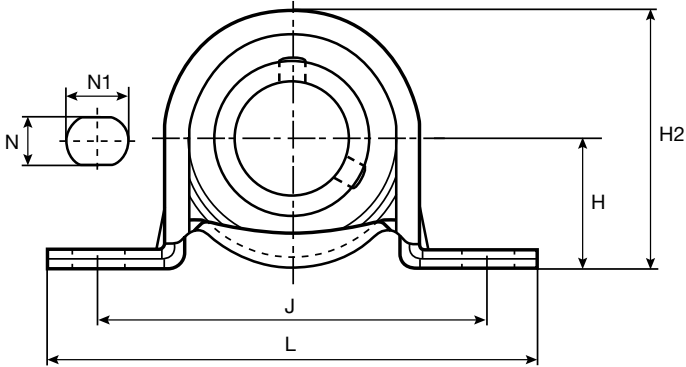
Add suffix "G" for regreasable bearing.
Prefix "C" with cylindrical outside diameter



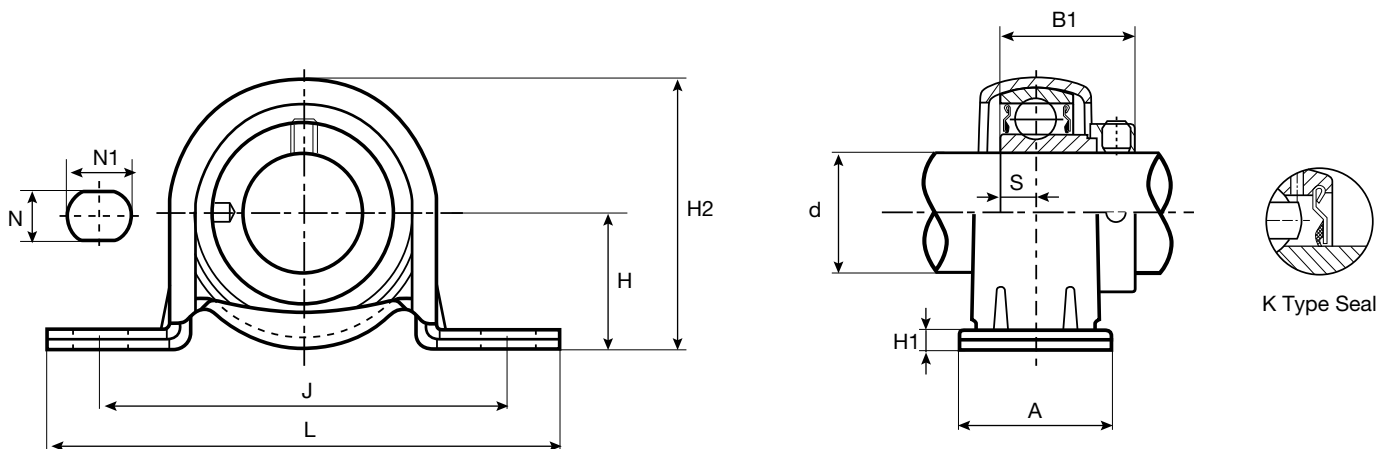
Standard B Type Seal

HLU Bearing No.	Bore Diameter d		Dimensions (in./mm)								Load Ratings lbs		Weight lbs
	in.	mm	D	B1	d1	B	C	h	B2	d2	Dynamic Cr	Static Cor	
UK205+HE2305 UK205+H2305	3/4	20	2.0472 52	1.3780 35	0.9843 25	0.9055 23	0.6693 17	0.1771 4.5	0.3150 8	1.4961 38	3152	1771	0.55 0.53
UK206+HS2306 UK206+HA2306 UK206+H2306 UK206+HE2306	7/8 15/16 1	25	2.4409 62	1.4961 38	1.1811 30	1.0236 26	0.7480 19	0.2008 5.1	0.3150 8	1.7717 45	4375	2542	0.93 0.90 0.88 0.82
UK207+HS2307 UK207+H2307 UK207+HA2307	1 1/8 1 1/16	30	2.8346 72	1.6929 43	1.3780 35	1.0630 27	0.7874 20	0.2283 5.8	0.3543 9	2.0472 52	5771	3439	1.26 1.21 1.21
UK208+HE2308 UK208+HA2308 UK208+HS2308 UK208+H2308	1 1/4 1 5/16 1 3/8	35	3.1496 80	1.8110 46	1.5748 40	1.1417 29	0.8268 21	0.2441 6.2	0.3937 10	2.2835 58	6636	4078	1.72 1.65 1.59 1.59
UK209+HA2309 UK209+HE2309 UK209+H2309 UK209+HS2309	1 7/16 1 1/2 1 5/8	40	3.3465 85	1.9685 50	1.7717 45	1.1811 30	0.8661 22	0.2559 6.5	0.4331 11	2.5591 65	7119	4649	1.96 1.85 1.76 1.70
UK210+HA2310 UK210+HE2310 UK210+H2310	1 11/16 1 3/4	45	3.5433 90	2.1654 55	1.9685 50	1.2205 31	0.9449 24	0.2559 6.5	0.4724 12	2.7559 70	7884	5211	2.16 2.09 2.05
UK211+HS2311 UK211+HA2311 UK211+H2311 UK211+HE2311	1 7/8 1 15/16 2	50	3.9730 100	2.3228 59	2.1654 55	1.2992 33	0.9843 25	0.2874 7.3	0.4724 12	2.9528 75	9752	6569	2.82 2.69 2.62 2.58
UK212+HS2312 UK212+H2312	2 1/8	55	4.3307 110	2.4409 62	2.3622 60	1.4173 36	1.0630 27	0.3031 7.7	0.5118 13	3.1496 80	10736	7403	3.44 3.35
UK213+HA2313 UK213+HE2313 UK213+H2313 UK213+HS2313	2 3/16 2 1/4 2 3/8	60	4.7244 120	2.5591 65	2.5591 65	1.4961 38	1.1024 28	0.3268 8.3	0.5512 14	3.3465 85	12861	8992	4.63 4.50 4.21 4.17
UK215+HA2315 UK215+HE2315 UK215+H2315	2 7/16 2 1/2	65	5.1181 130	2.8740 73	2.9528 75	1.6142 41	1.2598 32	0.3622 9.2	0.5906 15	3.8583 98	14862	11128	5.85 5.84 5.64
UK216+HA2316 UK216+HE2316 UK216+H2316	2 11/16 2 3/4	70	5.5118 140	3.0709 78	3.1496 80	1.7323 44	1.2992 33	0.3780 9.6	0.6693 17	4.1339 105	16298	11914	7.15 7.14 7.12
UK217+H2317 UK217+HA2317 UK217+HE2317	2 15/16 3	75	5.9055 150	3.2283 82	3.3465 85	1.8110 46	1.3780 35	0.4133 10.5	0.7087 18	4.3307 110	18771	14387	8.20 8.50 8.47
UK218+HS2318 UK218+H2318	3 1/8	80	6.2992 160	3.3858 86	3.5433 90	1.9291 49	1.4567 37	0.4370 11.1	0.7087 18	4.7244 120	21581	16073	10.58 10.47

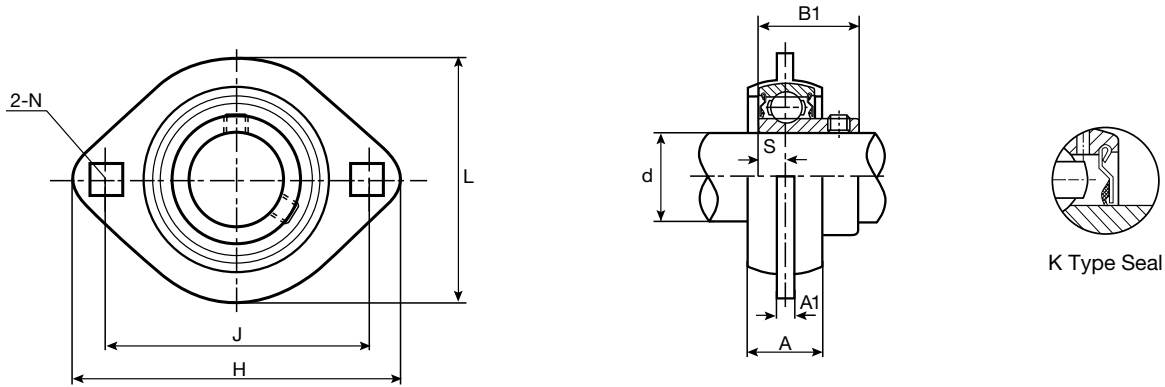
Available by special order.


K Type Seal

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)										Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	L	J	A	N	N1	H1	H2	S	B1				
SBPB201-08 SBPB202 SBPB202-10 SBPB203	1/2 5/8	15 17	0.8740 22.2	3.4252 87	2.6772 68	0.9842 25	0.3543 9	0.5000 12.7	0.1260 3.2	1.7244 43.8	0.2362 6	0.8661 22	5/16 M8	SB201-08 SB202 SB202-10 SB203	40PBST	.35
SBPB204-12 SBPB204	3/4	20	1.0000 25.4	3.8976 99	2.9921 76	1.2598 32	0.4055 10.3	0.5000 12.7	0.1260 3.2	1.9882 50.5	0.2756 7	0.9842 25	3/8 M10	SB204-12 SB204	47PBST	.50
SBPB205-14 SBPB205-15 SBPB205 SBPB205-16	7/8 15/16 1	25	1.1260 28.6	4.2913 109	3.3858 86	1.2598 32	0.4055 10.3	0.5630 14.3	0.1575 4	2.2283 56.6	0.2953 7.5	1.0630 27	3/8 M10	SB205-14 SB205-15 SB205 SB205-16	52PBST	.65
SBPB206-17 SBPB206-18 SBPB206 SBPB206-19 SBPB206-20	1 1/16 1 1/8 1 3/16 1 1/4	30	1.3110 33.3	4.6850 119	3.7402 95	1.4961 38	0.4055 10.3	0.5630 14.3	0.1575 4	2.6024 66.1	0.3150 8	1.1811 30	3/8 M10	SB206-17 SB206-18 SB206 SB206-19 SB206-20	62PBST	.92
SBPB207-20 SBPB207-21 SBPB207-22 SBPB207 SBPB207-23	1 1/4 1 5/16 1 3/8 1 7/16	35	1.5630 39.7	5.1181 130	4.1732 106	1.6535 42	0.5315 13.5	0.7520 19.1	0.1811 4.6	3.0709 78	0.3346 8.5	1.2598 32	1/2 M12	SB207-20 SB207-21 SB207-22 SB207 SB207-23	72PBST	1.40

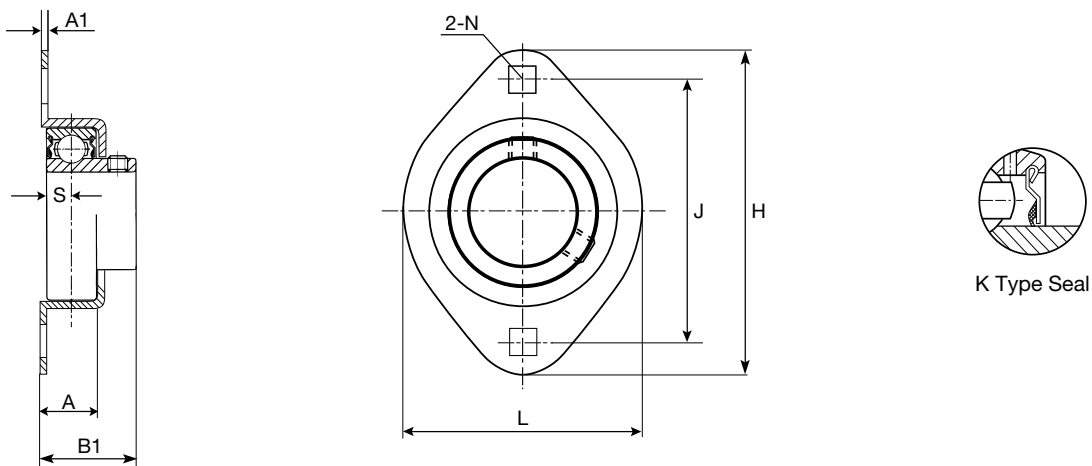


HLU Unit No.	Shaft Diameter		Dimensions (in./mm)										Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
			H	L	J	A	N	N1	H1	H2	S	B1				
SAPB201-08 SAPB202 SAPB202-10 SAPB203	1/2 5/8	15 17	0.8740 22.2	3.4252 87	2.6772 68	0.9842 25	0.3543 9	0.5000 12.7	0.1260 3.2	1.7244 43.8	0.2559 6.5	1.1260 28.6	5/16 M8	SA201-08 SA202 SA202-10 SA203	40PBST	.43
SAPB204-12 SAPB204	3/4	20	1.0000 25.4	3.8976 99	2.9921 76	1.2598 32	0.4055 10.3	0.5000 12.7	0.1260 3.2	1.9882 50.5	0.2953 7.5	1.2205 31	3/8 M10	SA204-12 SA204	47PBST	.61
SAPB205-14 SAPB205-15 SAPB205 SAPB205-16	7/8 15/16	25	1.1260 28.6	4.2913 109	3.3858 86	1.2598 32	0.4055 10.3	0.5630 14.3	0.1575 4	2.2283 56.6	0.2953 7.5	1.2205 31	3/8 M10	SA205-14 SA205-15 SA205 SA205-16	52PBST	.68
SAPB206-17 SAPB206-18 SAPB206 SAPB206-19 SAPB206-20	1 1/16 1 1/8	30	1.3110 33.3	4.6850 119	3.7402 95	1.4961 38	0.4055 10.3	0.5630 14.3	0.1575 4	2.6024 66.1	0.3543 9	1.4055 35.7	3/8 M10	SA206-17 SA206-18 SA206 SA206-19 SA206-20	62PBST	1.10
SAPB207-20 SAPB207-21 SAPB207-22 SAPB207 SAPB207-23	1 1/4 1 5/16 1 3/8	35	1.5630 39.7	5.1181 130	4.1732 106	1.6535 42	0.5315 13.5	0.7520 19.1	0.1811 4.6	3.0709 78	0.3740 9.5	1.5315 38.9	1/2 M12	SA207-20 SA207-21 SA207-22 SA207 SA207-23	72PBST	1.60



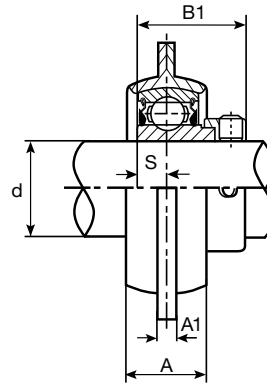
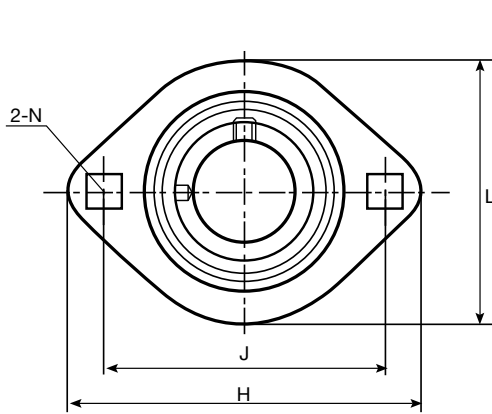
SBMST - 2-Piece Housing • Self-Aligning Unit

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)								Bolt Used (in./mm)	Bearing No.	Housing No. (pair)	Weight lbs
	in.	mm	H	J	A	A1	N	L	B1	S				
SBMST201-08 SBMST202 SBMST202-10 SBMST203	1/2	15	3.2283 82	2.5000 63.5	0.5406 15	0.1772 4.5	0.2795 7.1	2.3622 60	0.8661 22	0.2362 6	1/4 M6	SB201-08 SB202 SB202-10 SB203	40MSTZP	.38
SBMST204-12 SBMST204	3/4	20	3.5827 91	2.8150 71.5	0.6693 17	0.1772 4.5	0.3543 9	2.6772 68	0.9842 25	0.2756 7	5/16 M8	SB204-12 SB204	47MSTZP	.50
SBMST205-14 SBMST205-15 SBMST205	7/8	25	3.7795 96	2.9921 76	0.7480 19	0.1772 4.5	0.3543 9	2.8346 72	1.0630 27	0.2953 7.5	5/16 M8	SB205-14 SB205-15 SB205	52MSTZP	.57
SBMST205-16	1											SB205-16		
SBMST206-17 SBMST206-18 SBMST206	1 1/16	30	4.4882 114	3.5630 90.5	0.7874 20	0.2165 5.5	0.4331 11	3.3465 85	1.1811 30	0.3150 8	3/8 M10	SB206-17 SB206-18 SB206	62MSTZP	.90
SBMST206-19 SBMST206-20	1 3/16											SB206-19 SB206-20		
SBMST207-20 SBMST207-21 SBMST207-22 SBMST207	1 1/4	35	5.0000 127	3.9370 100	0.9055 23	0.2165 5.5	0.4331 11	3.7402 95	1.2598 32	0.3346 8.5	3/8 M10	SB207-20 SB207-21 SB207-22 SB207	72MSTZP	1.32
SBMST207-23	1 7/16											SB207-23		



CSBCFM - 1-Piece Housing • Non Self-Aligning Unit • Flush Mount

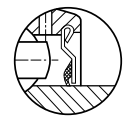
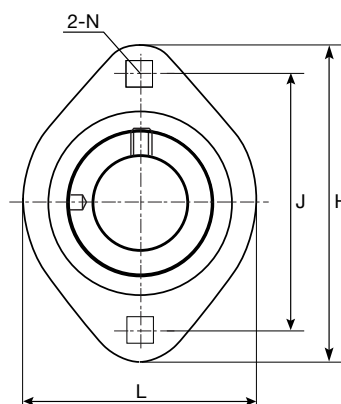
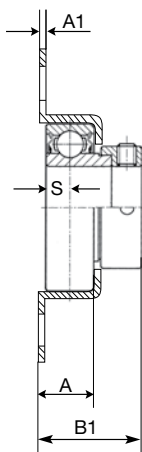
HLU Unit No.	Shaft Diameter		Dimensions (in./mm)								Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	J	A	A1	N	L	B1	S				
CSBCFM204-12 CSBCFM204	3/4	20	3.5433 90	2.8110 71.4	0.6063 15.4	0.0787 2.0	0.344 8.73	2.6260 66.7	1.0394 26.4	0.2756 7.0	5/16 8	CSB204-12 CSB204	47-CFM	.47



K Type Seal

SAMST - 2-Piece Housing • Self-Aligning Unit

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)								Bolt Used (in./mm)	Bearing No.	Housing No. (pair)	Weight lbs
	in.	mm	H	J	A	A1	N	L	B1	S				
SAMST201-08 SAMST202 SAMST202-10 SAMST203	1/2	15	3.2283 82	2.5000 63.5	0.5906 15	0.1772 4.5	0.2795 7.1	2.3622 60	1.1260 28.6	0.2559 6.5	1/4 M6	SA201-08 SA202 SA202-10 SA203	40MSTZP	.48
SAMST204-12 SAMST204	3/4	20	3.5827 91	2.8150 71.5	0.6693 17	0.1772 4.5	0.3543 9	2.6772 68	1.2205 31	0.2953 7.5	5/16 M8	SA204-12 SA204	47MSTZP	.60
SAMST205-14 SAMST205-15 SAMST205 SAMST205-16	7/8 1 1/16	25	3.7795 96	2.9921 76	0.7480 19	0.1772 4.5	0.3543 9	2.8346 72	1.2205 31	0.2953 7.5	5/16 M8	SA205-14 SA205-15 SA205 SA205-16	52MSTZP	.62
SAMST206-17 SAMST206-18 SAMST206 SAMST206-19 SAMST206-20	1 1/16 1 1/8	30	4.4882 114	3.5630 90.5	0.7874 20	0.2165 5.5	0.4331 11	3.3465 85	1.4055 35.7	0.3543 9	3/8 M10	SA206-17 SA206-18 SA206 SA206-19 SA206-20	62MSTZP	1.06
SAMST207-20 SAMST207-21 SAMST207-22 SAMST207 SAMST207-23	1 1/4 1 5/16 1 3/8	35	5.0000 127	3.9370 100	0.9055 23	0.2165 5.5	0.4331 11	3.7402 95	1.5315 38.9	0.3740 9.5	3/8 M10	SA207-20 SA207-21 SA207-22 SA207 SA207-23	72MSTZP	1.47

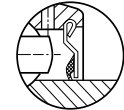
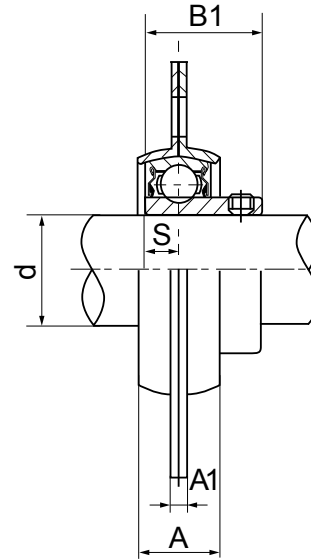
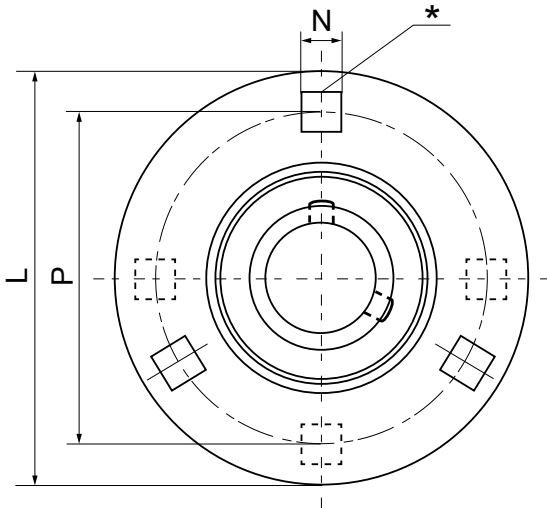


K Type Seal

CSACFM - 1-Piece Housing • Non Self-Aligning Unit • Flush Mount

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)								Bolt Used (in./mm)	Bearing No.	Housing No.	Weight lbs
	in.	mm	H	J	A	A1	N	L	B1	S				
CSACFM204-12 CSACFM204	3/4	20	3.5433 90	2.8110 71.4	0.6063 15.4	0.0787 2.0	0.344 8.73	2.6260 66.7	1.2362 31.4	0.2756 7.0	5/16 8	CSA204-12* CSA204	47-CFM	.55

*CSA204-12 with 14mm outer ring width used

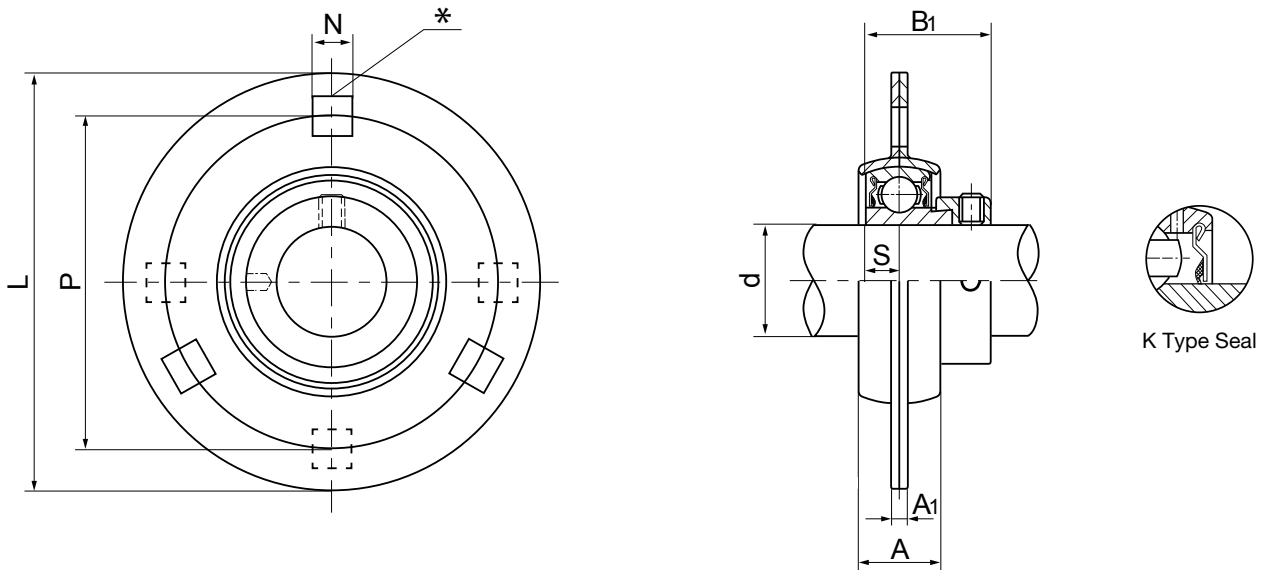


K Type Seal

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)							Bolt Used (in./mm)	Bearing No.	Housing No. (pair)	Weight lbs
	in.	mm	L	P	A1	N	A	B1	S				
SBMS201-08	1/2	15	3.1890	2.5000	0.1575	0.2795	0.5512	0.8661	0.2362	1/4	SB201-08	40MSZP	.50
SBMS202	5/8	17	81	63.5	4	7.1	14	22	6	M6	SB202		
SBMS202-10 SBMS203	3/4	20	3.5433	2.8150	0.1575	0.3543	0.6299	0.9843	0.2756	5/16	SB202-10 SB203		
SBMS204-12 SBMS204	7/8	25	3.7402	2.9921	0.1575	0.3543	0.6693	1.0630	0.2953	5/16	SB204-12	47MSZP	.65
SBMS205-14 SBMS205-15 SBMS205	1 1/16	30	4.4488	3.5630	0.1969	0.4331	0.6693	1.1811	0.3150	3/8	SB205-14 SB205-15 SB205		
SBMS205-16	1	35	4.8031	3.9370	0.1969	0.4331	0.7874	1.2598	0.3346	3/8	SB205-16	62MSZP	1.17
SBMS206-17 SBMS206-18 SBMS206	1 1/8	40	5.8268	4.6850	0.2756	0.5315	0.9055	1.3386	0.3543	1/2	SB206-17 SB206-18 SB206		
SBMS206-19 SBMS206-20	1 3/16	45	5.9055	4.7441	0.2756	0.5315	0.9055	1.6220	0.4016	1/2	SB206-19 SB206-20		
SBMS207-20 SBMS207-21 SBMS207-22 SBMS207	1 1/4	50	6.1811	5.0000	0.3150	0.5315	0.9843	1.7126	0.4291	1/2	SB207-20 SB207-21 SB207-22 SB207	72MSZP	1.64
SBMS207-23	1 5/16	55	6.4811	5.3150	0.3500	0.5660	1.0190	1.8066	0.4581	1/2	SB207-23		
SBMS208-24 SBMS208-25 SBMS208	1 3/8	60	6.4811	5.3150	0.3500	0.5660	1.0190	1.8066	0.4581	1/2	SB208-24 SB208-25 SB208	80MSZP	2.60
SBMS209-26 SBMS209-27 SBMS209-28 SBMS209	1 7/8	65	6.8111	5.6450	0.3850	0.5910	1.0540	1.8416	0.4871	1/2	SB209-26 SB209-27 SB209-28 SB209		
SBMS210-30 SBMS210-31 SBMS210	1 15/16	70	7.1411	5.9790	0.4200	0.6160	1.0890	1.8766	0.5161	1/2	SB210-30 SB210-31 SB210		
SBMS210-32	2	75	7.4711	6.3130	0.4550	0.6410	1.1240	1.9116	0.5451	1/2	SB210-32	90MSZP	3.85

*201 thru 207 Outer Ring sizes - 3holes @120°

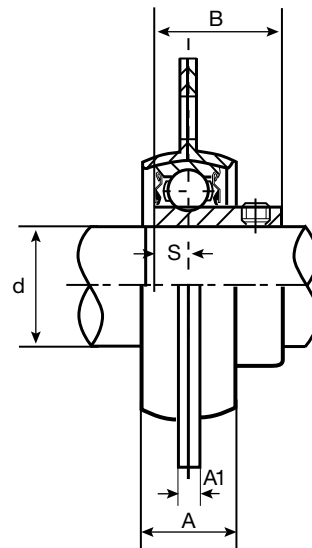
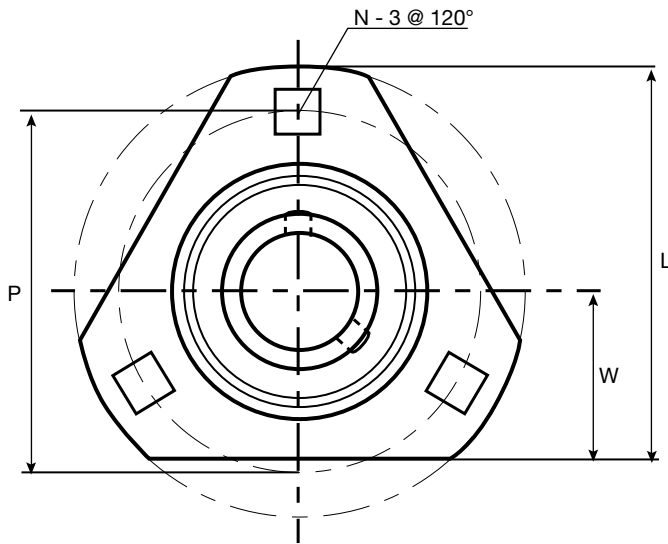
*208 thru 210 Outer Ring sizes - 4 holes @ 90°



HLU Unit No.	Shaft Diameter		Dimensions (in./mm)							Bolt Used (in./mm)	Bearing No.	Housing No. (pair)	Weight lbs
	in.	mm	L	P	A1	N	A	B1	S				
SAMS201-08 SAMS202 SAMS202-10 SAMS203	1/2 5/8	15 17	3.1890 81	2.5000 63.5	0.1575 4	0.2795 7.1	0.5512 14	1.1260 28.6	0.2559 6.5	1/4 M6	SA201-08 SA202 SA202-10 SA203	40MSZP	.60
SAMS204-12 SAMS204	3/4	20	3.5433 90	2.8150 71.5	0.1575 4	0.3543 9	0.6299 16	1.2205 31	0.2953 7.5	5/16 M8	SA204-12 SA204	47MSZP	.76
SAMS205-14 SAMS205-15 SAMS205 SAMS205-16	7/8 15/16 1	25	3.7402 95	2.9921 76	0.1575 4	0.3543 9	0.6693 17	1.2205 31	0.2953 7.5	5/16 M8	SA205-14 SA205-15 SA205 SA205-16	52SMZP	.78
SAMS206-17 SAMS206-18 SAMS206 SAMS206-19 SAMS206-20	1 1/16 1 1/8 1 3/16 1 1/4	30	4.4488 113	3.5630 90.5	0.1969 5	0.4331 11	0.6693 17	1.4055 35.7	0.3543 9	3/8 M10	SA206-17 SA206-18 SA206 SA206-19 SA206-20	62MSZP	1.32
SAMS207-20 SAMS207-21 SAMS207-22 SAMS207 SAMS207-23	1 1/4 1 5/16 1 3/8 1 7/16	35	4.8031 122	3.9370 100	0.1969 5	0.4331 11	0.7874 20	1.5315 38.9	0.3740 9.5	3/8 M10	SA207-20 SA207-21 SA207-22 SA207 SA207-23	72MSZP	1.80
SAMS208-24 SAMS208-25 SAMS208	1 1/2 1 3/4	40	5.8268 148	4.6850 119	0.2756 7	0.5315 13.5	0.9055 23	1.7205 43.7	0.4331 11	1/2 M12	SA208-24 SA208-25 SA208	80MSZP	3.05
SAMS209-26 SAMS209-27 SAMS209-28 SAMS209	1 5/8 1 11/16 1 3/4	45	5.9055 150	4.7441 120.5	0.2756 7	0.5315 13.5	0.9055 23	1.7205 43.7	0.4331 11	1/2 M12	SA209-26 SA209-27 SA209-28 SA209	85MSZP	3.10
SAMS210-30 SAMS210-31 SAMS210 SAMS210-32	1 7/8 1 15/16 2	50	6.1811 157	5.0000 127	0.3150 8	0.5315 13.5	0.9843 25	1.7205 43.7	0.4331 11	1/2 M12	SA210-30 SA210-31 SA210 SA210-32	90MSZP	3.62
SAMS211-32 SAMS211-34 SAMS211 SAMS211-35	2 2 1/8 2 3/16	55	6.6142 168	5.4331 138	0.3150 8	0.5315 13.5	1.0236 26	1.9055 48.4	0.4721 12	1/2 M12	SA211-32 SA211-34 SA211 SA211-35	100MSZP	5.65

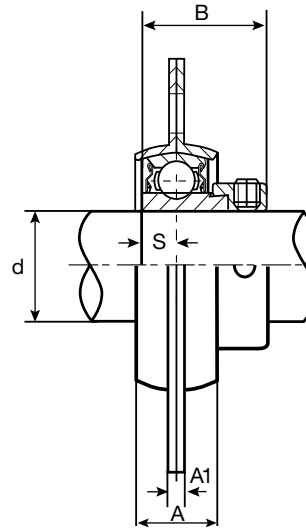
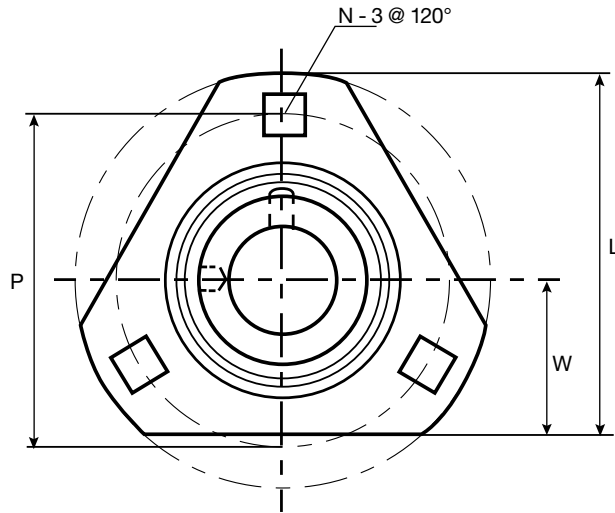
*201 thru 207 Outer Ring sizes - 3 holes @ 120°

*208 thru 210 Outer Ring sizes - 4 holes @ 90°



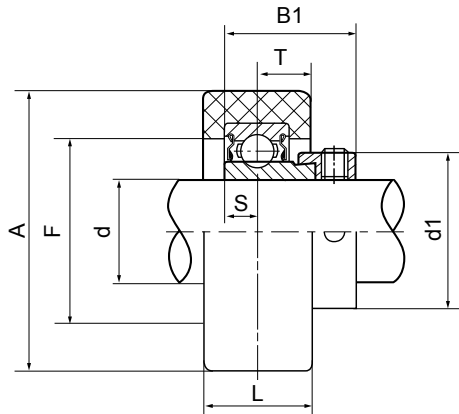
K Type Seal

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)								Bolt Used (in./mm)	Bearing No.	Housing No. (pair)	Weight lbs
	in.	mm	L	P	A	A1	N	W	S	B				
SBMSTR201-08	1/2	15	2.7362	2.5000	0.5512	0.1575	0.2795	1.1417	0.2362	0.8661	1/4	SB201-08	40MSTRZP	.40
SBMSTR202	5/8	17	69.5	63.5	14	4	7.1	29	6	22	M6	SB202		
SBMSTR202-10 SBMSTR203												SB202-10 SB203		
SBMSTR204-12 SBMSTR204	3/4	20	3.0669	2.8150	0.6299	0.1575	0.3543	1.2992	0.2756	0.9842	5/16 M8	SB204-12 SB204	47MSTRZP	.53
SBMSTR205-14 SBMSTR205	7/8	25	3.1693	3.0000	0.6890	0.1575	0.3425	1.3740	0.2953	1.0630	5/16 M8	SB205-14 SB205	52MSTRZP	.61
SBMSTR205-15 SBMSTR205-16	1 1/16 1		80.5	76.2	17.5	4	8.7	34.9	7.5	27		SB205-15 SB205-16		
SBMSTR206-17 SBMSTR206-18 SBMSTR206	1 1/16 1 1/8 1 3/16 1 1/4	30	3.7874	3.5630	0.7480	0.1969	0.4331	1.4961	0.3150	1.1811	3/8 M10	SB206-17 SB206-18 SB206		
SBMSTR206-19 SBMSTR206-20			96.2	90.5	19	5	11	38	8	30		SB206-19 SB206-20	62MSTRZP	.95
SBMSTR207-20 SBMSTR207-21 SBMSTR207-22 SBMSTR207	1 1/4 1 5/16 1 3/8	35	4.1457	3.9370	0.7480	0.1969	0.4055	1.7480	0.3346	1.2598	3/8 M10	SB207-20 SB207-21 SB207-22 SB207	72MSTRZP	1.38
SBMSTR207-23	1 7/16		105.3	100	19	5	10.3	44.4	8.5	32		SB207-23		

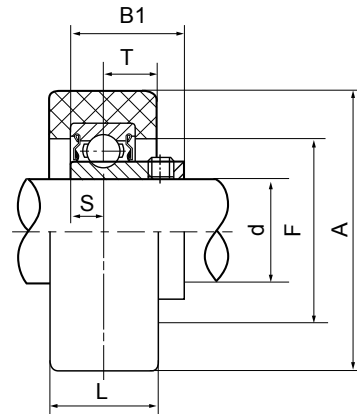


K Type Seal

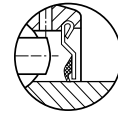
HLU Unit No.	Shaft Diameter		Dimensions (in./mm)								Bolt Used (in./mm)	Bearing No.	Housing No. (pair)	Weight lbs
	in.	mm	L	P	A	A1	N	W	S	B				
SAMSTR201-08	1/2	15	2.7362	2.5000	0.5512	0.1575	0.2795	1.1417	0.2559	1.1260	1/4	SA201-08	40MSTRZP	.50
SAMSTR202	5/8	15	69.5	63.5	14	4	7.1	29	6.5	28.6	M6	SA202		
SAMSTR202-10 SAMSTR203	1	17										SA202-10 SA203		
SAMSTR204-12 SAMSTR204	3/4	20	3.0669	2.8150	0.6299	0.1575	0.3543	1.2992	0.2953	1.2205	5/16 M8	SA204-12 SA204	47MSTRZP	.64
SAMSTR205-14 SAMSTR205-15 SAMSTR205	7/8 1 1/16	25	3.1693	3.0000	0.6890	0.1575	0.3425	1.3740	0.2953	1.2205	5/16 M8	SA205-14 SA205-15 SA205	52MSTRZP	.66
SAMSTR205-16	1											SA205-16		
SAMSTR206-17 SAMSTR206-18 SAMSTR206	1 1/16 1 1/8	30	3.7874	3.5630	0.7480	0.1969	0.4331	1.4961	0.3543	1.4055	3/8 M10	SA206-17 SA206-18 SA206	62MSTRZP	1.10
SAMSTR206-19 SAMSTR206-20	1 3/16 1 1/4		96.2	90.5	19	5	11	38	9	35.7		SA206-19 SA206-20		
SAMSTR207-20 SAMSTR207-21 SAMSTR207-22 SAMSTR207	1 1/4 1 5/16 1 3/8	35	4.1457	3.9370	0.7480	0.1969	0.4055	1.7480	0.3740	1.5315	3/8 M10	SA207-20 SA207-21 SA207-22 SA207	72MSTRZP	1.55
SAMSTR207-23	1 7/16											SA207-23		



RCSM - EL



RCSM - SS



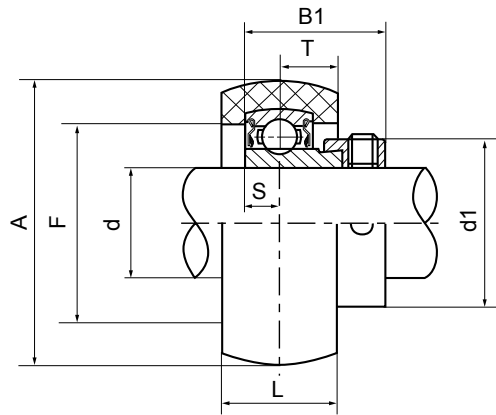
K Type Seal

RCSM-EL - Eccentric Locking Collar

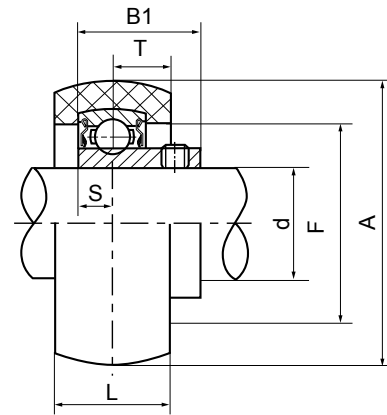
HLU Unit No.	Shaft Diameter		Dimensions (in./mm)							Bearing No.	Rubber Housing No.	Radial Load Rating lbs	Weight lbs
	in.	mm	A	F	L	B1	S	T	d1				
RCSM-08EL	1/2	15	2.5315	1.3740	1.0000	1.1260	0.2559	0.5000	1.1260	CSA201-08	RCSM203	202	0.50
RCSM-15MMEL	5/8	17	64.3	34.9	25.4	28.6	6.5	12.7	28.6	CSA202			
RCSM-10EL										CSA202-10			
RCSM-17MMEL										CSA203			
RCSM-12EL	3/4	20	2.5315	1.6024	1.0000	1.2205	0.2953	0.5000	1.3110	CSA204-12	RCSM204	270	0.51
RCSM-20MMEL			64.3	40.7	25.4	31	7.5	12.7	33.3	CSA204			
RCSM-14EL	7/8	25	2.5315	1.7795	1.0000	1.2205	0.2953	0.5000	1.5000	CSA205-14	RCSM205	315	0.57
RCSM-15EL	1 1/16		64.3	45.2	25.4	31	7.5	12.7	38.1	CSA205-15			
RCSM-25MMEL										CSA205			
RCSM-16EL	1									CSA205-16			
RCSM-17EL	1 1/16	30	3.0945	2.0945	1.1890	1.4055	0.3543	0.5945	1.7520	CSA206-17	RCSM206	445	0.92
RCSM-18EL	1 1/8		78.6	53.2	30.2	35.7	9	15.1	44.5	CSA206-18			
RCSM-30MMEL										CSA206			
RCSM-19EL	1 3/16									CSA206-19			
RCSM-20EL	1 1/4									CSA206-20			

RCSM-SS - Set Screw Locking

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)							Bearing No.	Rubber Housing No.	Radial Load Rating lbs	Weight lbs
	in.	mm	A	F	L	B1	S	T	d1				
RCSM-08SS	1/2	15	2.5315	1.3740	1.0000	0.8661	0.2362	0.5000	-	CSB201-08	RCSM203	202	.44
RCSM-15MMSS	5/8	17	64.3	34.9	25.4	22	6	12.7	-	CSB202			
RCSM-10SS										CSB202-10			
RCSM-17MMSS										CSB203			
RCSM-12SS	3/4	20	2.5315	1.6024	1.0000	0.9842	0.2756	0.5000	-	CSB204-12	RCSM204	270	0.46
RCSM-20MMSS			64.3	40.7	25.4	25	7	12.7	-	CSB204			
RCSM-14SS	7/8	25	2.5315	1.7795	1.0000	1.0630	0.2953	0.5000	-	CSB205-14	RCSM205	315	0.51
RCSM-15SS	1 1/16		64.3	45.2	25.4	27	7.5	12.7	-	CSB205-15			
RCSM-25MMSS										CSB205			
RCSM-16SS	1									CSB205-16			
RCSM-17SS	1 1/16	30	3.0945	2.0945	1.1890	1.1811	0.3150	0.5945	-	CSB206-17	RCSM206	445	0.84
RCSM-18SS	1 1/8		78.6	53.2	30.2	30	8	15.1	-	CSB206-18			
RCSM-30MMSS										CSB206			
RCSM-19SS	1 3/16									CSB206-19			
RCSM-20SS	1 1/4									CSB206-20			



SABR



SBBR



K Type Seal

SABR - Eccentric Locking Collar

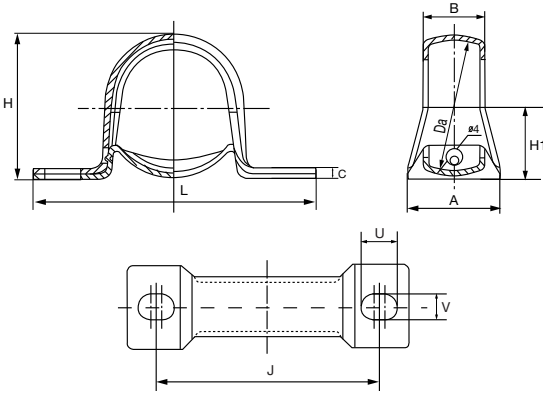
HLU Unit No.	Shaft Diameter		Dimensions (in./mm)							Bearing No.	Rubber Housing No.	Radial Load Rating lbs	Weight lbs
	in.	mm	A	F	L	B1	S	T	d1				
SABR201-08 SABR202 SABR202-10 SABR203	1/2 5/8	15 17	1.8740 47.6	1.3740 34.9	0.6890 17.5	1.1260 28.6	0.2559 6.5	0.3425 8.7	1.1260 28.6	SA201-08 SA202 SA202-10 SA203	R-4	202	0.32
SABR204-12 SABR204	3/4	20	2.0630 52.4	1.6024 40.7	0.6890 17.5	1.2205 31.0	0.2953 7.5	0.3425 8.7	1.3110 33.3	SA204-12 SA204	R-5	270	0.37
SABR205-14 SABR205-15 SABR205 SABR205-16	7/8 1 1/16 1	25	2.4567 62.4	1.7795 45.2	0.7795 19.8	1.2205 31.0	0.2953 7.5	0.3898 9.9	1.5000 38.1	SA205-14 SA205-15 SA205 SA205-16	R-6	315	0.53
SABR206-17 SABR206-18 SABR206 SABR206-19 SABR206-20	1 1/16 1 1/8 1 3/16 1 1/4	30	2.8425 72.2	2.1654 55	0.9055 23	1.4055 35.7	0.3543 9.0	0.4055 10.3	1.7520 44.5	SA206-17 SA206-18 SA206 SA206-19 SA206-20	R-7	445	0.80

SBBR - Set Screw Locking

HLU Unit No.	Shaft Diameter		Dimensions (in./mm)							Bearing No.	Rubber Housing No.	Radial Load Rating lbs	Weight lbs
	in.	mm	A	F	L	B1	S	T	d1				
SBBR201-08 SBBR202 SBBR202-10 SBBR203	1/2 5/8	15 17	1.8740 47.6	1.3740 34.9	0.6890 17.5	0.8661 22	0.2362 6.0	0.3425 8.7	-	SB201-08 SB202 SB202-10 SB203	R-4	202	0.25
SBBR204-12 SBBR204	3/4	20	2.0630 52.4	1.6024 40.7	0.6890 17.5	0.9842 25	0.2756 7.0	0.3425 8.7	-	SB204-12 SB204	R-5	270	0.33
SBBR205-14 SBBR205-15 SBBR205 SBBR205-16	7/8 1 1/16 1	25	2.4567 62.4	1.7795 45.2	0.7795 19.8	1.0630 27	0.2953 7.5	0.3898 9.9	-	SB205-14 SB205-15 SB205 SB205-16	R-6	315	0.46
SBBR206-17 SBBR206-18 SBBR206 SBBR206-19 SBBR206-20	1 1/16 1 1/8 1 3/16 1 1/4	30	2.8425 72.2	2.1654 55	0.9055 23	1.1811 30	0.3150 8.0	0.4055 10.3	-	SB206-17 SB206-18 SB206 SB206-19 SB206-20	R-7	445	0.70

Hi-Light USA Stamped Steel Flanges are made from CRS1010 steel and then zinc plated to a bright finish. We then package and label them for easy identification. These stampings are typically used with spherical outer ring bearings such as the SB and SA inserts and Agricultural Disc Harrow Bearings.

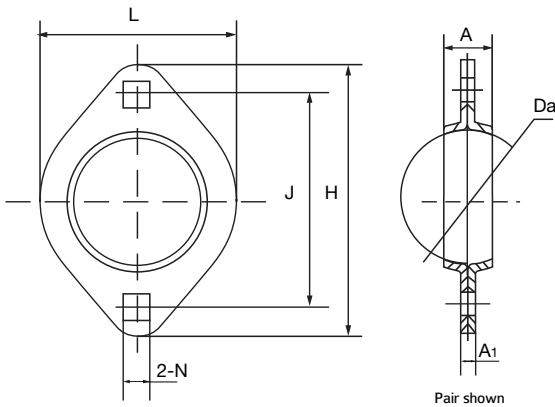
PBST PILLOW BLOCK FLANGES - Snap Together Type • Non-relube



HLU Stamping No.	Dimensions (in./mm)										Weight lbs
	Da	L	J±0.4	H	H1±0.25	A	B	C	U±0.3	V±0.3	
40PBST	1.5748 40	3.4252 87	2.6772 68	1.7244 43.8	0.8740 22.2	0.9843 25	0.7244 18.4	0.1260 3.2	0.5000 12.7	0.3543 9	.13
47PBST	1.8504 47	3.8976 99	2.9921 76	1.9882 50.5	1.0000 25.4	1.2598 32	0.8780 22.3	0.1260 3.2	0.5000 12.7	0.4055 10.3	.21
52PBST	2.0472 52	4.2913 109	3.3858 86	2.2283 56.6	1.1260 28.6	1.2598 32	0.9252 23.5	0.1575 4	0.5630 14.3	0.4055 10.3	.28
62PBST	2.4409 62	4.6850 119	3.7402 95	2.6024 66.1	1.3110 33.3	1.4961 38	1.0433 26.5	0.1575 4	0.5630 14.3	0.4055 10.3	.37
72PBST	2.8346 72	5.1181 130	4.1732 106	3.0709 78	1.5630 39.7	1.6535 42	1.1024 28	0.1811 4.6	0.7520 19.1	0.5315 13.5	.55

Each piece consists of a top and bottom that snaps together to hold the bearing in place.

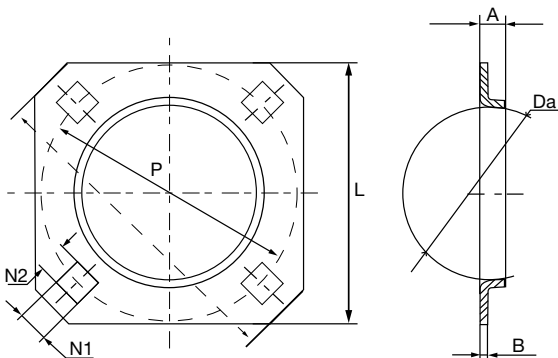
MSTZP 2 BOLT FLANGES - Non-relube



HLU Stamping No.	Dimensions (in./mm)							Weight lbs
	Da	L	J±0.4	H	A	A1	N	
40MSTZP	1.5748 40	2.3622 60	2.5 63.5	3.2283 82	0.5906 15	0.1772 4.5	0.2795 7.1	.09
47MSTZP	1.8504 47	2.6772 68	2.8150 71.5	3.5827 91	0.6693 17	0.1772 4.5	0.3543 9	.10
52MSTZP	2.0472 52	2.8346 72	2.9921 76	3.7795 96	0.7480 19	0.1772 4.5	0.3543 9	.11
62MSTZP	2.4409 62	3.3465 85	3.5630 90.5	4.4882 114	0.7874 20	0.2165 5.5	0.4330 11	.18
72MSTZP	2.8346 72	3.7402 95	3.9370 100	5 127	0.9055 23	0.2165 5.5	0.4330 11	.21

Sold per each. Two pieces required per bearing.

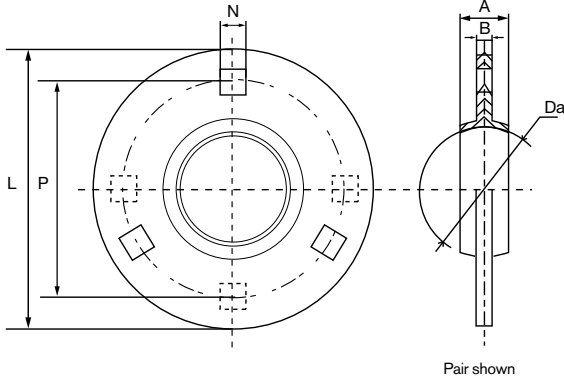
MSZP-SQ 4-BOLT SQUARE FLANGES - Non-relube



HLU Stamping No.	Dimensions (in./mm)							Weight lbs
	Da	L	P	A	B	N1	N2	
80MSZP-SQ	3.1496 80	4.7480 120.6	4.6874 119.06	0.5827 14.8	0.1378 3.5	0.5197 13.2	0.5433 13.8	.62
87MSZP-SQ	3.4374 87.31	4.7244 120	4.7500 120.65	0.6563 16.67	0.1378 3.5	0.5315 13.5	0.5787 14.7	.61

Sold per each. Two pieces required per bearing.

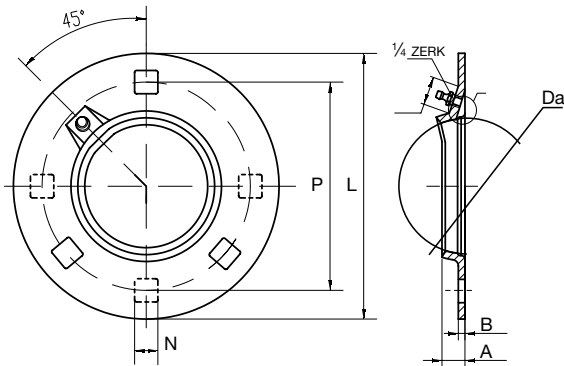
MSZP 3 & 4-BOLT ROUND FLANGES - Non-relube



HLU Stamping No.	Dimensions (in.) (mm)						Number of Bolt holes	Weight lbs
	Da	L	P	A	B	N		
40MSZP	1.5748 40	3.1890 81	2.5000 63.5	0.5512 14	0.1575 4	0.2795 7.1	3@120°	.15
47MSZP	1.8504 47	3.5433 90	2.8150 71.5	0.6299 16	0.1575 4	0.3543 9	3@120°	.18
52MSZP	2.0472 52	3.7402 95	2.9921 76	0.6693 17	0.1575 4	0.3543 9	3@120°	.19
62MSZP	2.4409 62	4.4488 113	3.5630 90.5	0.6693 17	0.1969 5	0.4331 11	3@120°	.31
72MSZP	2.8346 72	4.8031 122	3.9370 100	0.7874 20	0.1969 5	0.4331 11	3@120°	.37
80MSZP	3.1496 80	5.8268 148	4.6850 119	0.9055 23	0.2756 7	0.5315 13.5	4@90°	.76
85MSZP	3.3465 85	5.9055 150	4.7441 120.5	0.9055 23	0.2756 7	0.5315 13.5	4@90°	.77
90MSZP	3.5433 90	6.1811 157	5.000 127	0.9843 25	0.3150 8	0.5315 13.5	4@90°	.96
100MSZP	3.9370 100	6.6142 168	5.4331 138	1.0236 26	0.3150 8	0.5315 13.5	4@90°	1.55

Sold per each. Two pieces required per bearing.

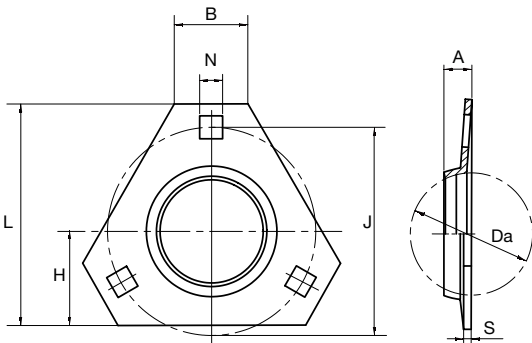
MSZPG 3 & 4-BOLT ROUND FLANGES - Relube



HLU Stamping No.	Dimensions (in.) (mm)						Number of Bolt holes	Weight lbs
	Da	L	P	A	B	N		
52MSZPG	2.0472 52	3.7500 95.25	3.0000 76.2	0.3425 8.7	0.0787 2	0.3437 8.73	3@120°	.20
62MSZPG	2.4409 62	4.4370 112.7	3.5630 90.5	0.3543 9	0.0984 2.5	0.4055 10.3	3@120°	.34
72MSZPG	2.8346 72	4.8110 122.2	3.9370 100	0.4331 11	0.1378 3.5	0.4055 10.3	3@120°	.51
80MSZPG	3.1496 80	5.8110 147.6	4.6874 119.06	0.6260 15.9	0.1378 3.5	0.5315 13.5	4@90°	.81
85MSZPG	3.3465 85	5.8740 149.2	4.7480 120.6	0.6260 15.9	0.1378 3.5	0.5315 13.5	4@90°	.83
90MSZPG	3.5433 90	6.1811 157	5.0000 127	0.4921 12.5	0.1575 4	0.5315 13.5	4@90°	.96
100MSZPG	3.9370 100	6.5630 166.7	5.4370 138.1	0.6575 16.7	0.1575 4	0.5315 13.5	4@90°	2.00

Sold per each. Order one relube and one non-relube to make a set.

MSTRZP 3-BOLT TRIANGULAR FLANGES - Non-relube



HLU Stamping No.	Dimensions (in.) (mm)								Number of Bolt holes	Weight lbs
	Da	L	J	H	B	A	N	S		
40MSTRZP	1.5748 40	2.7362 69.5	2.5000 63.5	1.1417 29	0.8622 21.9	0.2756 7	0.2795 7.1	0.0787 2	3@120°	.10
47MSTRZP	1.8504 47	3.0669 77.9	2.8150 71.5	1.2992 33	1.0433 26.5	0.3150 8	0.3543 9	0.0787 2	3@120°	.12
52MSTRZP	2.0472 52	3.1693 80.5	3.0000 76.2	1.3740 34.9	1.0945 27.8	0.3445 8.75	0.3425 8.7	0.0787 2	3@120°	.13
62MSTRZP	2.4409 62	3.7874 96.2	3.5630 90.5	1.4960 38	0.9488 24	0.3740 9.5	0.4331 11	0.0984 2.5	3@120°	.20
72MSTRZP	2.8346 72	4.1457 105.3	3.9370 100	1.7480 44.4	1.2677 32.2	0.3740 9.5	0.4055 10.3	0.0984 2.5	3@120°	.24

Sold per each. Two pieces required per bearing.



Hi-Light USA

MANUFACTURERS OF HIGH-QUALITY BALL BEARINGS AND POWER TRANSMISSION PARTS

Agricultural Bearings



Heavy Duty Disc Harrow Bearings

The Hi-Light USA Disc bearing is produced from the highest quality 52100 vacuum degassed bearing steel. High grade steel balls and NLGI #2 lithium based grease with operating temperatures of -4°F to 248°F provide long bearing life in severe conditions.

Hi-Light Disc Harrow bearings are equipped with triple lip seals that are molded to a heavy gauge steel shroud cap. The seal is pressed into the outer ring groove and the triple lip seals make contact to the precision ground inner ring.

The Hi-Light seal design offers optimum protection in applications such as Disc Harrows, Tillers, and other agricultural implements.

The Hi-Light Disc Harrow bearings are available in: Square Bore Regreasable, Square Bore Non-Regreasable, Round Bore Regreasable, and Round Bore Non-Regreasable.

We provide spherical and cylindrical outer ring bearings for a variety of applications.

ST Disc Harrow Units

The Hi-Light ST Series are Mounted Disc Bearing assemblies that provide the same features and design as our unmounted Disc bearings. These units are produced with two heavy gauge zinc plated steel stampings that are riveted together to form the one piece unit. We install two o-rings to provide precise regreasing and eliminate contaminants. We machine the bearings and housings to provide the following features:

- +/- 3° Dynamic Alignment
- Positive Relubrication
- Flanged zerk fitting tube that mates with a recessed area on bearing outer ring preventing outer ring rotation.

Agricultural Radial Special Bearings

Hi-Light USA produces an extensive line of Ag Radial ball bearings for a wide variety of applications.

Some special features include:

- Special Double or Triple Lip seal designs to substantially reduce internal contamination for extended performance
- Specially machined raceways provide four point contact (gothic arch) limiting axial movement while providing optimum radial load capabilities
- Non-standard dimensional characteristics for specific original equipment requirements

Water Pump Bearings

Hi-Light USA Water Pump bearings are designed for the most severe agricultural conditions.

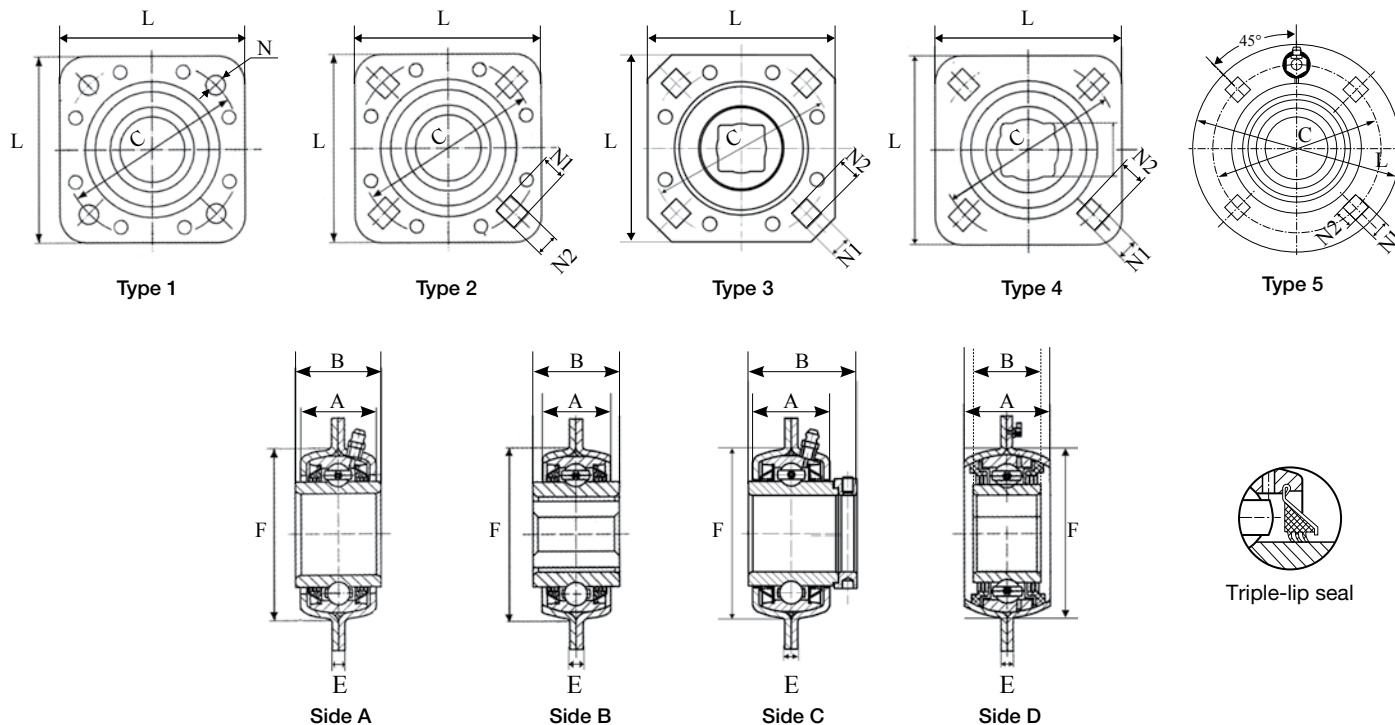
The HLU single stem bearings are designed with double lip seals with metal shroud on the stem side for optimum sealing performance and a heavy gauge steel cap opposite the stem for full closure positive sealing. The double stem bearings are designed with double lip seals on both sides. Many of our competitors only use single lip seals with no shroud protection.

Other features include:

- 52100 vacuum degassed steel
- ABEC-1 precision machining
- Excellent sealing configuration
- Special dimensional characteristics for original equipment requirements.

ST SERIES DISC HARROW BEARINGS

Stamped Steel Flanged Units • Zinc Plated Housing • Triple Lip Seals



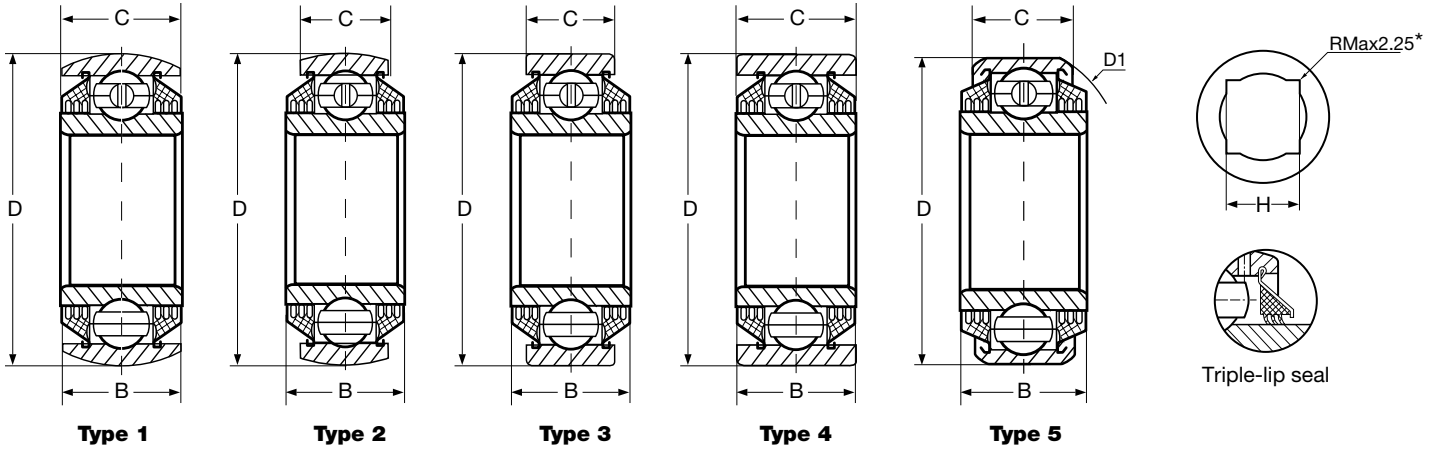
HLU Unit No.	Type		Shaft Size	Dimensions (in.)									Load Rating lbs		Weight lbs
				A	B	C	E	F	L	N	N1	N2	Dymanic Cr	Static Cor	
208 SERIES	Front	Side	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.			
ST208-1N*	3	B	1 SQ.	1.378	1.503	4.687	0.276	3.570	4.764	-	0.531	0.531	7328	4450	3.05
ST208-1 42LTB	3	B	1 SQ.	1.378	1.654	4.687	0.276	3.570	4.764	-	0.531	0.531	7328	4450	3.20
ST208-1 1/8	3	B	1 1/8 SQ.	1.378	1.503	4.687	0.276	3.570	4.764	-	0.531	0.531	7328	4450	2.90
ST208-1 1/8N*	3	B	1 1/8 SQ.	1.378	1.503	4.687	0.276	3.570	4.764	-	0.531	0.531	7328	4450	2.90
209 SERIES															
ST209-1 1/8	4	B	1 1/8 SQ.	1.654	1.685	5.000	0.276	3.859	5.000	-	0.531	0.687	7350	4608	3.80
ST209-1 1/4	4	B	1 1/4 SQ.	1.654	1.685	5.000	0.276	3.859	5.000	-	0.531	0.687	7350	4608	3.75
ST491B	2	A	1 1/2 RD.	1.654	1.685	5.000	0.276	3.859	5.000	-	0.531	0.687	7350	4608	3.70
ST491A	1	A	1 3/4 RD.	1.654	1.685	5.000	0.276	3.859	5.000	0.531	-	-	7350	4608	3.35
ST209-1 1/2 JD KIT**	5	D	1 1/2 RD.	1.945	1.438	4.748	0.331	3.680	5.866	-	0.528	0.528	8092	4602	4.20
ST209-1 3/4 JD KIT**	5	D	1 3/4 RD.	1.945	1.438	4.748	0.331	3.680	5.866	-	0.528	0.528	8092	4602	4.20
211 SERIES															
ST211-1 1/2	4	B	1 1/2 SQ	1.827	2.000	5.500	0.354	4.469	5.500	-	0.531	0.594	9756	6564	5.65
ST211-1 3/4	1	A	1 3/4 RD.	1.827	2.189	5.500	0.354	4.469	5.500	0.531	-	-	9756	6564	5.85
ST211-1 15/16	1	C	1 15/16 RD.	1.827	2.752	5.500	0.354	4.469	5.500	0.531	-	-	9756	6564	5.50
ST211-2 3/16	1	A	2 3/16RD.	1.750	2.189	5.500	0.354	4.469	5.500	0.531	-	-	9756	6564	5.00
ST211-2 3/16JD KIT**	5	D	2 3/16RD.	2.220	1.563	5.433	0.411	4.375	6.575	-	0.528	0.528	9756	6510	6.10

* N suffix indicates non-regreasable.

** Replacement bearings, stamping, gaskets and bolts available for ST209-1 1/2 JD KIT, ST209 1 1/4 JD Kit and ST211 2 3/16 JD KIT.

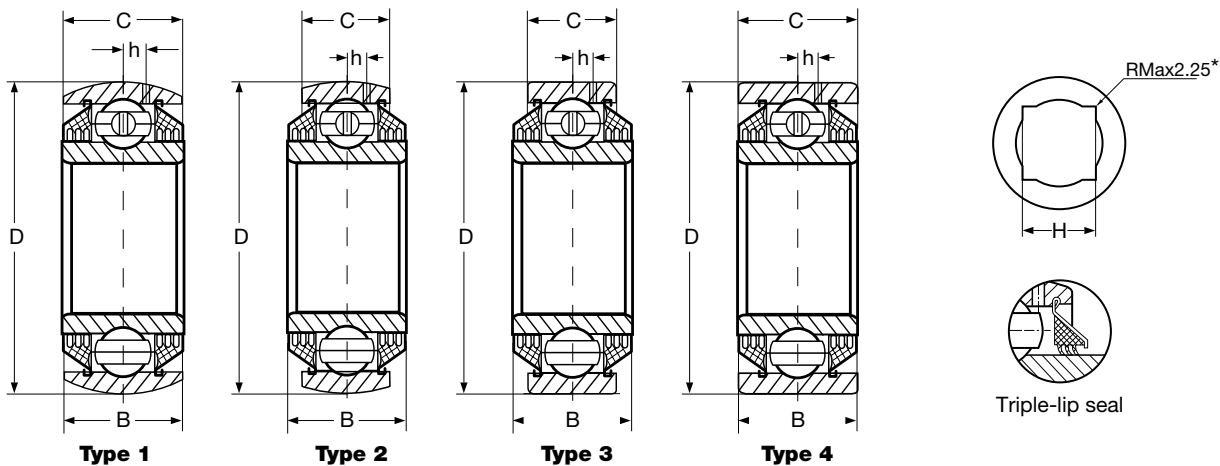
DISC HARROW BEARINGS

Square Bore • Non-Regreasable • Triple Lips Seals



HLU Bearing No.	Type	Shaft Size in.	Dimensions (in./mm)							Load Ratings lbs		Weight lbs
			H		D Outer Diameter	D1 + 0 to minus Outer Tolerance	C Outer Ring	B Inner Ring	Dynamic Cr	Static Cor		
			Bore Nominal	Bore Tolerance								
W208PP5	3	1 1/8	1.1800 29.97	± .005 ± .127	3.1496 80	.0005 .013	-	.7087 18	1.4380 36.525	8093	4456	1.35
W208PPB5	2	1 1/8	1.1800 29.97	± .005 ± .127	3.1496 80	.0005 .013	-	.7087 18	1.4380 36.525	8093	4456	1.33
W208PP6	3	1	1.0236 26	± .005 ± .127	3.1496 80	.0005 .013	-	.7087 18	1.4380 36.525	8093	4456	1.50
W208PPB6	2	1	1.0236 26	± .005 ± .127	3.1496 80	.0005 .013	-	.7087 18	1.4380 36.525	8093	4456	1.48
W208PP8	3	1 1/8	1.1800 29.97	± .005 ± .127	3.1496 80	.0005 .013	-	1.1880 30.175	1.4380 36.525	8093	4456	1.61
W208PPB8	2	1 1/8	1.1800 29.97	± .005 ± .127	3.1496 80	.0005 .013	-	1.1880 30.175	1.4380 36.525	8093	4456	1.46
W208PPB11	5	7/8	0.9043 22.97	± .005 ± .127	3.3760 85.75	.0006 .015	3.4429 87.45	1.1880 30.175	1.4380 36.525	8093	4456	2.20
W208PPB12	5	1 1/8	1.1800 29.97	± .005 ± .127	3.3760 85.75	.0005 .013	3.4429 87.45	1.1880 30.175	1.4375 36.512	8093	4456	1.95
W208PPB13	2	7/8	0.9043 22.97	± .005 ± .127	3.1496 80	.0005 .013	-	.7087 18	1.4380 36.525	8093	4456	1.56
W209PPB5	2	1 1/4	1.2992 33	± .005 ± .127	3.3465 85	.0006 .015	-	1.1880 30.175	1.4380 36.525	8093	4602	1.69
W210PP4	4	1 1/8	1.1800 29.97	± .005 ± .127	3.5433 90	.0006 .015	-	1.1880 30.175	1.1880 30.175	8835	5215	2.00
W210PPB4	1	1 1/8	1.1800 29.97	± .005 ± .127	3.5433 90	.0006 .015	-	1.1880 30.175	1.1880 30.175	8835	5215	1.89
W210PPB6	2	1 1/8	1.1800 29.97	± .005 ± .127	3.5433 90	.0006 .015	-	1.1880 30.175	1.4380 36.525	8835	5215	2.12
W211PP3	4	1 1/2	1.5311 38.89	± .005 ± .127	3.9370 100	.0006 .015	-	1.3120 33.325	1.3120 33.325	9756	6571	2.50
W211PPB3	1	1 1/2	1.5311 38.89	± .005 ± .127	3.9370 100	.0006 .015	-	1.3120 33.325	1.3120 33.325	9756	6571	2.32
W211PP5	3	1 1/2	1.5311 38.89	± .005 ± .127	4.0000 101.6	.0006 .015	-	1.4380 36.525	1.7500 44.45	9756	6571	3.13
W211PPB6	5	1 1/2	1.5311 38.89	± .005 ± .127	4.0772 103.56	.0010 .030	4.1299 104.9	1.4380 36.525	1.7500 44.45	9756	6571	3.25

* For outer ring sizes through 212.



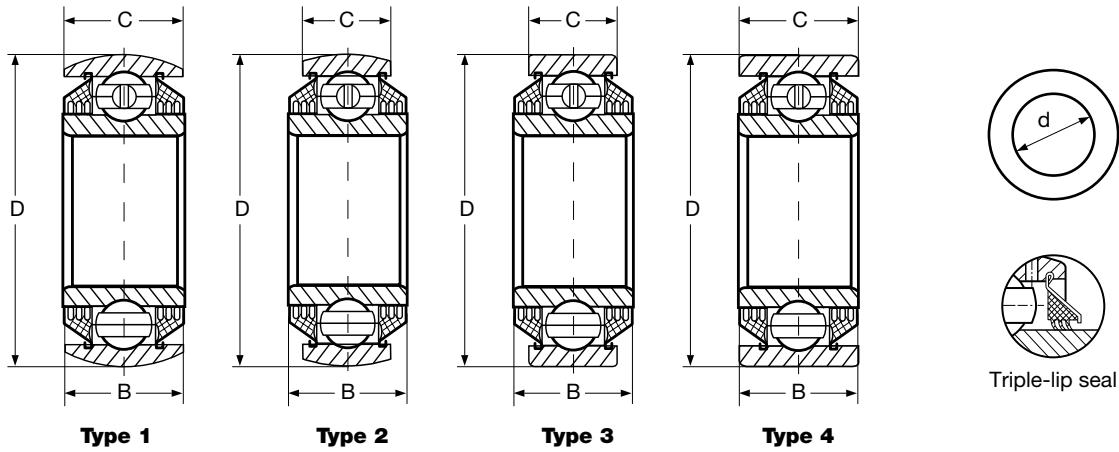
HLU Bearing No.	Type	Shaft Size in.	Dimensions (in.) (mm)							Load Ratings lbs		Weight lbs
			H		D		h	C	B	Dynamic Cr	Static Cor	
			Bore Nominal	Bore Tolerance	Outer Diameter	+ 0 to minus Outer Tolerance	Relube Hole Location	Outer Ring	Inner Ring			
GW208PPB5	2	1 1/8	1.1799 29.97	± .005 ± .127	3.1496 80	.0005 .013	0.2638 6.70	0.8268 21	1.4380 36.525	8093	4456	1.38
GW208PPB8	2	1 1/8	1.1799 29.97	± .005 ± .127	3.1496 80	.0005 .013	0.2650 6.73	1.1880 30.175	1.4380 36.525	8093	4456	1.47
GW208PP17	3	1 1/8	1.1799 29.97	± .005 ± .127	3.3755 85.738	.0005 .013	0.2681 6.81	1.1880 30.175	1.4380 36.525	8093	4456	1.95
GW209PPB5	2	1 1/4	1.2992 33	± .005 ± .127	3.3465 85	.0006 .015	0.2480 6.30	1.1880 30.175	1.4380 36.525	8093	4602	1.66
GW209PPB8	2	1 1/4	1.2992 33	± .005 ± .127	3.3465 85	.0006 .015	0.2539 6.45	0.8661 22	1.4380 36.525	8093	4602	1.58
GW210PP4	4	1 1/8	1.1799 29.97	± .005 ± .127	3.5433 90	.0006 .015	0.2390 6.07	1.1880 30.175	1.1880 30.175	8835	5212	2.00
GW210PPB4	1	1 1/8	1.1799 29.97	± .005 ± .127	3.5433 90	.0006 .015	0.2390 6.07	1.1880 30.175	1.1880 30.175	8835	5212	1.87
GW211PP3	4	1 1/2	1.5311 38.89	± .005 ± .127	3.9370 100	.0006 .015	0.2638 6.70	1.3120 33.325	1.3120 33.325	9756	6571	2.44
GW211PPB3	1	1 1/2	1.5311 38.89	± .005 ± .127	3.9370 100	.0006 .015	0.2638 6.70	1.3120 33.325	1.3120 33.325	9756	6571	2.33
GW211PP17	3	1 1/2	1.5311 38.89	± .005 ± .127	3.9370 100	.0006 .015	0.2638 6.70	1.3120 33.325	1.7500 44.45	9756	6571	2.98
GW211PPB23	2	1 1/2	1.5311 38.89	± .005 ± .127	3.9370 100	.0006 .015	0.2638 6.70	1.3120 33.325	1.7500 44.45	9756	6571	2.75
DC212TTR	3	1 3/4	1.7913 45.50	± .005 ± .130	4.3307 110	.0006 .015	0.2992 7.60	1.5059 38.25	2.0000 50.8	10723	7440	3.77
GW216PP2	3	2 1/4	2.2913 58.2	± .0098 ± .250	5.5118 140	.0008 .020	0.3504 8.90	1.1811 30	2.5000 63.50	16082	12213	7.28
GW216PPB2	2	2 1/4	2.2913 58.2	± .0098 ± .250	5.5118 140	.0008 .020	0.3504 8.90	1.1811 30	2.5000 63.50	16082	12213	7.05

* For outer ring sizes through 212.

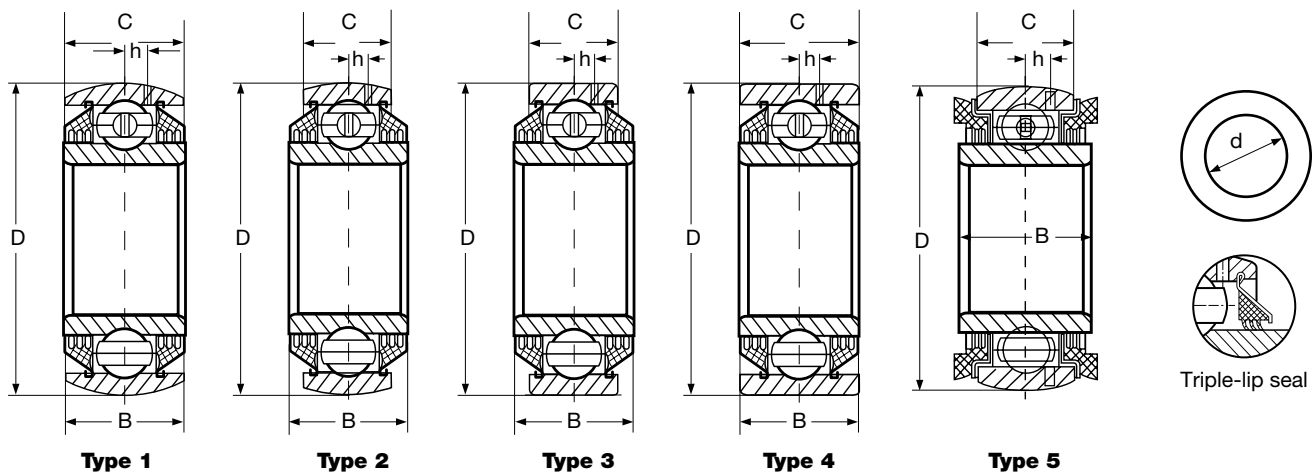


DISC HARROW BEARINGS

Round Bore • Non-Regreasable • Triple Lip Seals



HLU Bearing No.	Type	Shaft Size in.	Dimensions (in./mm)						Load Ratings lbs		Weight lbs
			d + 0 to minus Bore Nominal Tolerance	D + 0 to minus Outer Diameter Tolerance	C Outer Ring	B Inner Ring	Dynamic Cr	Static Cor			
W208PPB2	2	1 1/2	1.5005 38.113	.0005 .013	3.1496 80	.0005 .013	0.7087 18	1.6880 42.875	8093	4456	1.33
W208PPB7	2	1 3/16	1.1880 30.175	.0005 .013	3.1496 80	.0005 .013	0.7087 18	1.1880 30.175	8093	4456	1.30
W209PPB2	1	1 3/4	1.7717 45	.0005 .013	3.3465 85	.0006 .015	1.1880 30.175	1.1880 30.175	8093	4602	1.23
W209PPB4	1	1 1/2	1.5354 39	.0098 .250	3.3465 85	.0006 .015	1.1880 30.175	1.1880 30.175	8093	4602	1.47
W210PP2	4	1 15/16	1.9380 49.225	.0005 .013	3.5433 90	.0006 .015	1.1880 30.175	1.1880 30.175	8835	5215	1.50
W210PPB2	1	1 15/16	1.9380 49.225	.0005 .013	3.5433 90	.0006 .015	1.1880 30.175	1.1880 30.175	8835	5215	1.37
W210PPB9	2	1 15/16	1.9448 49.400	.007 .178	3.5433 90	.0006 .015	0.9055 23	1.4382 36.530	8835	5215	1.37
W211PP2	4	2 3/16	2.1880 55.575	.0006 .015	3.9370 100	.0006 .015	1.3120 33.325	1.3120 33.325	9756	6571	1.95
W211PPB2	1	2 3/16	2.1880 55.575	.0006 .015	3.9370 100	.0006 .015	1.3120 33.325	1.3120 33.325	9756	6571	1.86

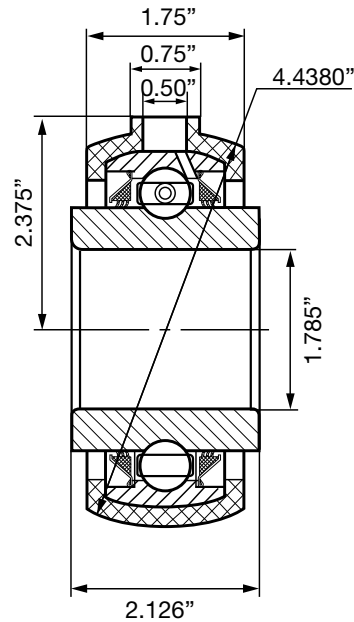


HLU Bearing No.	Type	Shaft Size in.	Dimensions (in./mm)							Load Ratings lbs		Weight lbs
			d		D		h	C	B	Dynamic Cr	Static Cor	
			Bore Nominal	+ 0 to minus Bore Tolerance	Outer Diameter	+ 0 to minus Outer Tolerance	Relube Hole Location	Outer Ring	Inner Ring			
GW209PPB2	1	1 3/4	1.7717 45.00	.0005 .013	3.3465 85	.0006 .015	.2480 6.30	1.1880 30.175	1.1880 30.175	8093	4602	1.22
GW209PPB4	1	1 1/2	1.535 39.00	.0100 .250	3.3465 85	.0006 .015	.2480 6.30	1.1880 30.175	1.1880 30.175	8093	4602	1.47
GW209PPB11	2	1 3/4	1.7811 45.24	.0100 .250	3.3465 85	.0006 .015	.2539 6.45	.8661 22	1.4380 36.525	8093	4602	1.28
ST209-1 1/2JD	5	1 1/2	1.5300 38.86	.0100 .250	3.3465 85	.0006 .015	.2594 6.59	1.1880 30.18	1.4380 36.53	8093	4602	1.80
ST209-1 3/4JD	5	1 3/4	1.7811 45.24	.0100 .250	3.3465 85	.0006 .015	.2594 6.59	1.1880 30.18	1.4380 36.53	8093	4602	1.55
GW210PPB2	1	1 15/16	1.9380 49.225	.0006 .015	3.5433 90	.0006 .015	.2390 6.07	1.1880 30.175	1.1880 30.175	8835	5215	1.36
GW210PPB5	1	1 3/4	1.7850 45.339	.0100 .250	3.5433 90	.0006 .015	.2390 6.07	1.1880 30.175	1.1880 30.175	8835	5215	1.65
GW211PP2	4	2 3/16	2.1880 55.575	.0006 .015	3.9370 100	.0006 .015	.2638 6.70	1.3120 33.325	1.3120 33.325	9756	6571	1.95
GW211PPB2	1	2 3/16	2.1880 55.575	.0006 .015	3.9370 100	.0006 .015	.2638 6.70	1.3120 33.325	1.3120 33.325	9756	6571	1.85
GW211PPB9	2	2 3/16	2.1950 55.75	.0070 .180	3.9370 100	.0006 .015	.2756 7.00	.9843 25	1.5620 39.69	9756	6571	1.86
GW211PPB13	2	1 3/4	1.7850 45.339	.0100 .254	3.9370 100	.0006 .015	.2756 7.00	.9843 25	1.3120 33.325	9756	6571	2.16
ST211-2 3/16JD	5	2 3/16	2.2047 56.00	.0100 .250	3.9370 100	.0006 .015	.3020 7.67	1.3120 33.34	1.5630 39.70	9756	6571	2.26
DC214TTR2A	3	2 3/4	2.7657 70.25	.0020 .050	4.9213 125	.0007 .018	.3669 9.32	1.5590 39.6	1.9960 50.7	13980	9891	4.20



CDS211TTR23 - Rubber Mounted Disc Harrow Bearing • Round Bore • Regreasable

HLU Unit No.	Round Bore Diameter in.	Outer Boot Diameter		Ring Width			Load Ratings lbs		Weight lbs
		mm	inch	Inner Ring	Outer Ring		Dynamic Load Cr	Static Load Cor	
				inches	mm	inches			
CDS211TTR23	1.7850	112.7	4.4380	2.1260	45.50	1.7913	9456	6570	3.80



Replaces Great Plains #822-026C
 Replaces Krause #2410-11-0
 Stock Item

SPECIAL HOUSED DISC HARROW UNITS

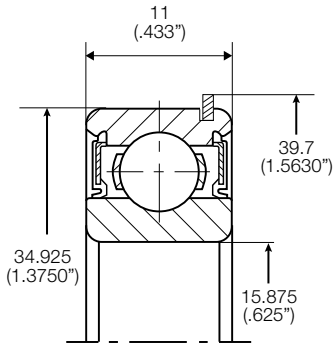
HLU Unit # PB216RA x 2 1/4"



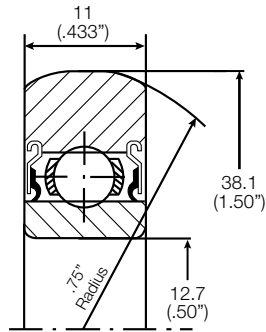
Replaces Kewanee #B2951

Trunnion Units

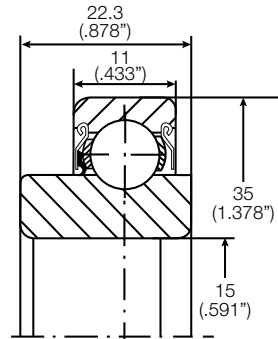




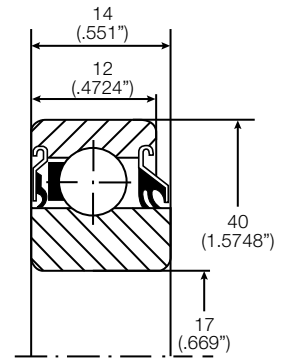
499502H
(with snap ring)
99502H
(without snap ring)



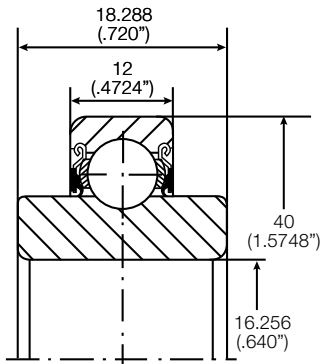
202NPP9



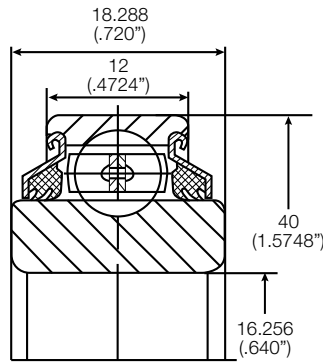
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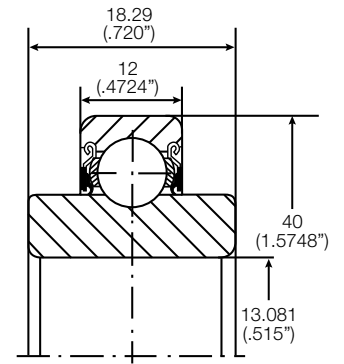
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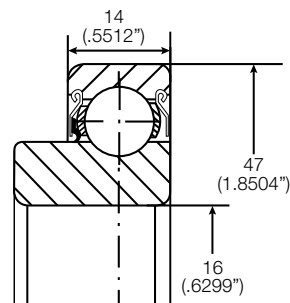
203KRR2



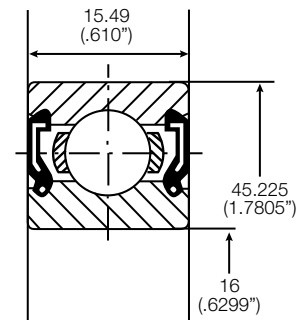
203KRR-2DG



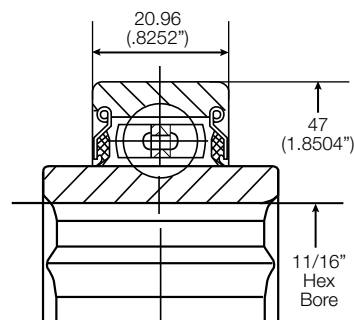
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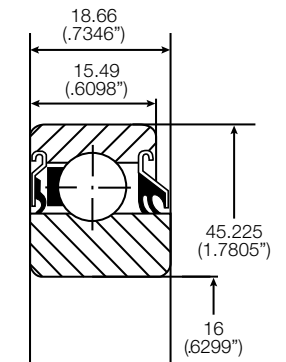
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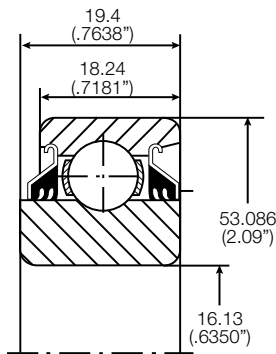
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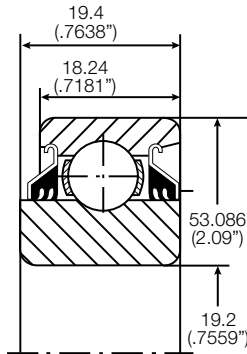
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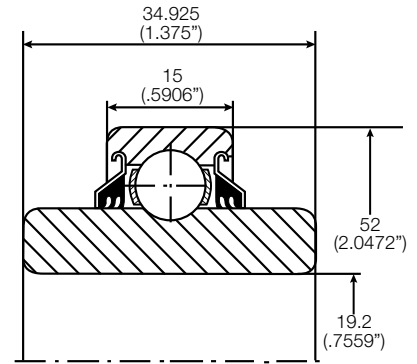
204RY2



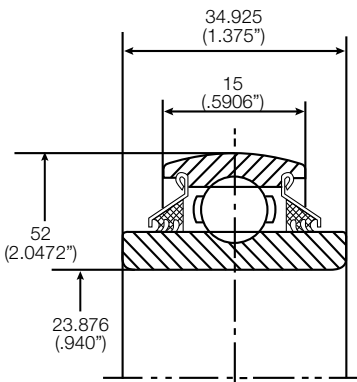
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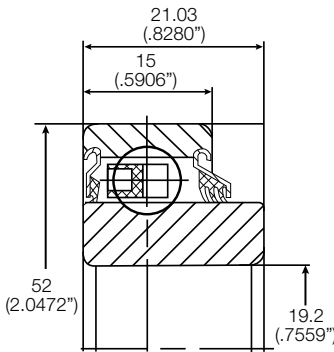
205DDS 3/4"



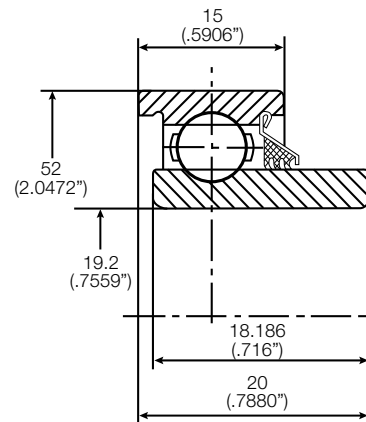
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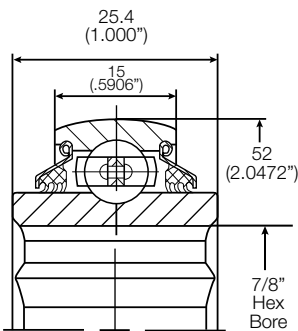
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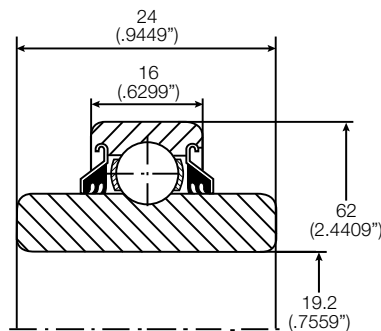
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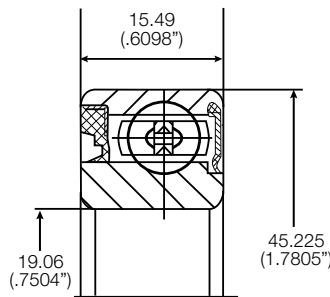
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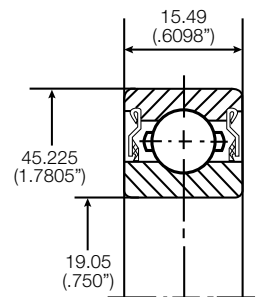
205KRRB2



206GGH

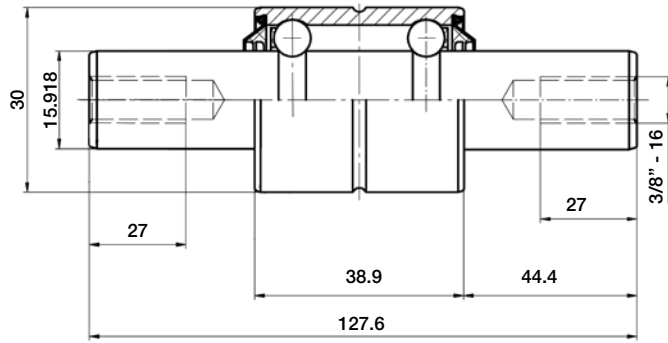


Z9504AB

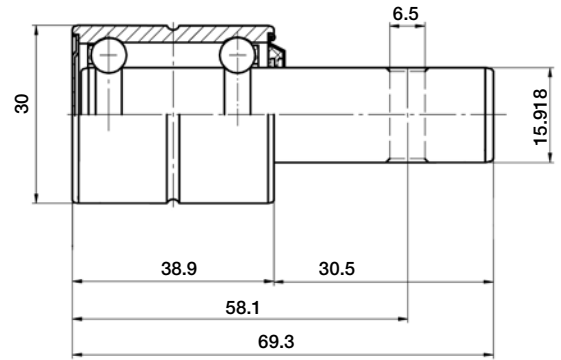


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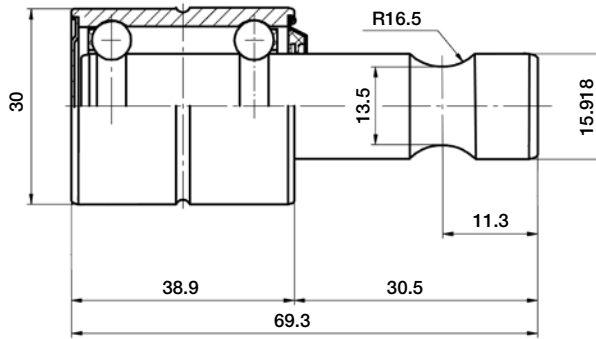
* Also available in relube 205PPB7G



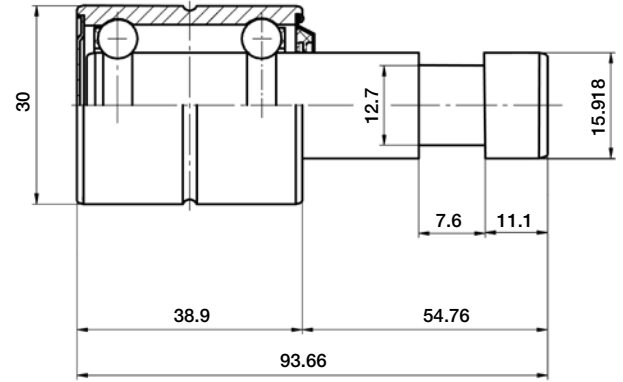
DC2207F



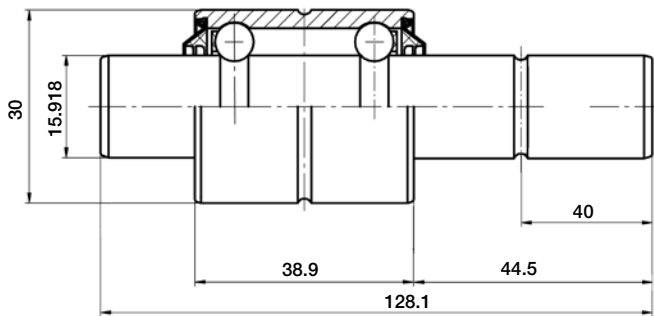
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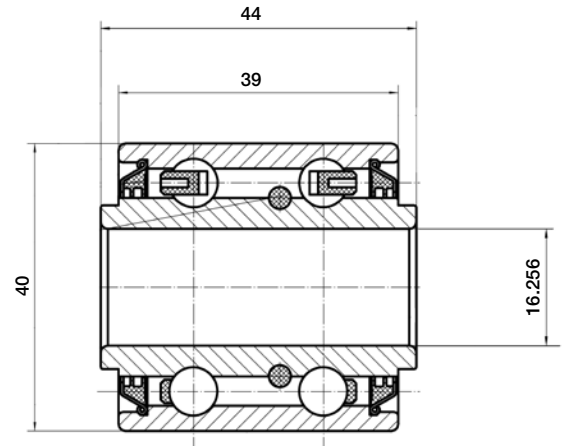
885154B



885151E



885118B



5203KYY-2

Dimensions in mm



Hi-Light USA

MANUFACTURERS OF HIGH-QUALITY BALL BEARINGS AND POWER TRANSMISSION PARTS

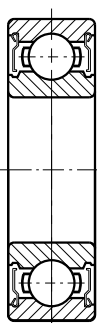
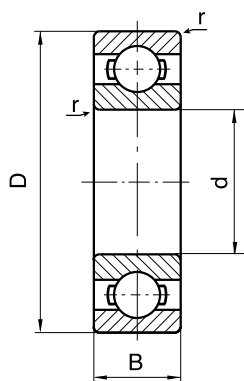
Radial Ball Bearings



Hi-Light USA manufactures a complete line of 1600, R, 6000, 6200 and 6300 Series of Radial Ball Bearings. Our bearings are made of 52100 High Chromium vacuum degassed steel and Grade 10 balls. We use a lithium based grease of NLGI#2 consistency and a working temperature of -22F to 248°F. Many other premium greases are available. Bearings conform to ABEC-1 standards. The HLU line of Radial Bearings have been approved and used in a multitude of Pump, Gear box, Conveyor and Agricultural applications. Refer to the engineering section for more information.

The majority of our bearings are C3 internal clearance fit which is adequate for most application and interference fits.

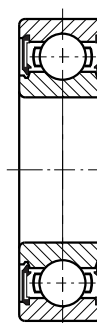
We carry certain sizes of Electric Motor Quality (EMQ) bearings as well. Other sizes available by special order.



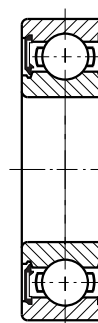
ZZ
Shielded
Both Sides



Z
Shielded
1 Side Only



2RS
Sealed
Both Sides



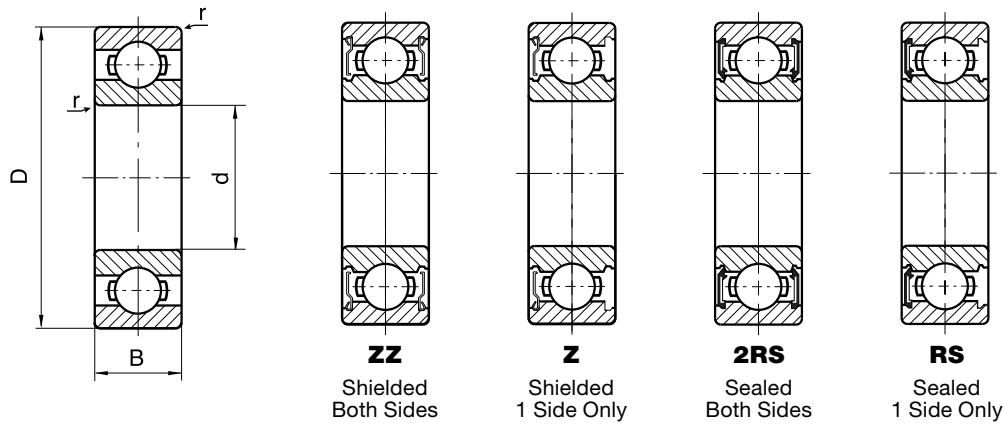
RS
Sealed
1 Side Only

HLU Bearing No.	Dimensions (inches)								Basic Load Ratings lbs		Weight lbs
	Bore d	Tolerance +.0000 to minus	OD D	Tolerance +.0000 to minus	Width B		Tolerance +.0000 to minus	Fillet Radius *r	Dynamic Cr	Static Cor	
					open/shielded	sealed					
1601	0.1875 3/16	.0005	0.6875 11/16	.0005	0.2500 1/4	0.3125 5/16	.0050	0.012	443	164	0.015
1602	0.2500 1/4	.0005	0.6875 11/16	.0005	0.2500 1/4	0.3125 5/16	.0050	0.012	443	164	0.014
1603	0.3125 5/16	.0005	0.8750 7/8	.0005	0.2813 9/32	0.3437 11/32	.0050	0.012	740	306	0.026
1604	0.3750 3/8	.0005	0.8750 7/8	.0005	0.2813 9/32	0.3437 11/32	.0050	0.016	749	317	0.023
1605	0.3125 5/16	.0005	0.9063 29/32	.0005	0.3125 5/16	0.3125 5/16	.0050	0.012	749	317	0.035
1606	0.3750 3/8	.0005	0.9063 29/32	.0005	0.3125 5/16	0.3125 5/16	.0050	0.016	749	317	0.033
1607	0.4375 7/16	.0005	0.9063 29/32	.0005	0.3125 5/16	0.3125 5/16	.0050	0.016	605	285	0.033
1614	0.3750 3/8	.0005	1.1250 1-1/8	.0005	0.3750 3/8	0.3750 3/8	.0050	0.024	1149	537	0.066
1615	0.4375 7/16	.0005	1.1250 1-1/8	.0005	0.3750 3/8	0.3750 3/8	.0050	0.024	1149	537	0.062
1616	0.5000 1/2	.0005	1.1250 1-1/8	.0005	0.3750 3/8	0.3750 3/8	.0050	0.024	1149	537	0.057
1620	0.4375 7/16	.0005	1.3750 1-3/8	.0005	0.4375 7/16	0.4375 7/16	.0050	0.024	1675	832	0.110
1621	0.5000 1/2	.0005	1.3750 1-3/8	.0005	0.4375 7/16	0.4375 7/16	.0050	0.024	1675	832	0.106
1622	0.5625 9/16	.0005	1.3750 1-3/8	.0005	0.4375 7/16	0.4375 7/16	.0050	0.024	1675	832	0.101
1623	0.6250 5/8	.0005	1.3750 1-3/8	.0005	0.4375 7/16	0.4375 7/16	.0050	0.024	1675	832	0.090
1628	0.6250 5/8	.0005	1.6250 1-5/8	.0005	0.5000 1/2	0.5000 1/2	.0050	0.024	2111	1128	0.159
1630	0.7500 3/4	.0005	1.6250 1-5/8	.0005	0.5000 1/2	0.5000 1/2	.0050	0.024	2111	1128	0.152
1633	0.6250 5/8	.0005	1.7500 1-3/4	.0005	0.5000 1/2	0.5000 1/2	.0050	0.024	2111	1128	0.203
1635	0.7500 3/4	.0005	1.7500 1-3/4	.0005	0.5000 1/2	0.5000 1/2	.0050	0.024	2111	1128	0.198
1638	0.7500 3/4	.0005	2.0000 2	.0006	0.5625 9/16	0.5625 9/16	.0050	0.035	2261	1317	0.320
1640	0.8750 7/8	.0005	2.0000 2	.0006	0.5625 9/16	0.5625 9/16	.0050	0.035	2261	1317	0.293
1641	1.0000 1	.0005	2.0000 2	.0006	0.5625 9/16	0.5625 9/16	.0050	0.035	2261	1317	0.267
1652	1.1250 1-1/8	.0005	2.5000 2-1/2	.0006	0.6250 5/8	0.6250 5/8	.0050	0.035	4375	2542	0.465
1654	1.2500 1-1/4	.0005	2.5000 2-1/2	.0006	0.6250 5/8	0.6250 5/8	.0050	0.035	4375	2542	0.425
1657	1.2500 1-1/4	.0005	2.5625 2-9/16	.0006	0.6875 11/16	0.6875 11/16	.0050	0.035	4375	2542	0.511
1658	1.3125 1-5/16	.0005	2.5625 2-9/16	.0006	0.6875 11/16	0.6875 11/16	.0050	0.035	4375	2542	0.463

*Maximum shaft or housing fillet radius that bearing corners will clear.
C3 internal clearance fit on standard stock items.

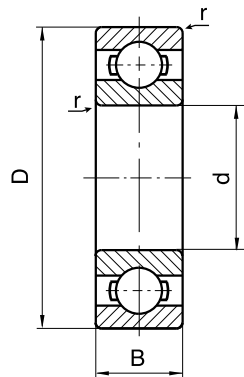
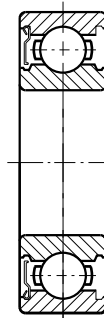
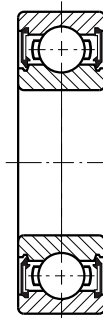
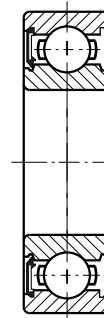
RADIAL BEARINGS - R SERIES

Deep Groove Ball Bearings • Inch Series • Abec 1 Precision



HLU Bearing No.	Dimensions (inches)							Basic Load Ratings lbs		Weight lbs	
	Bore d	Tolerance +.0000 to minus	OD D	Tolerance +.0000 to minus	Width B		Tolerance +.0000 to minus	Fillet Radius *r	Dynamic Cr		Static Cor
					open	shielded / sealed					
R2	0.1250 1/8	.0003	0.3750 3/8	.00030	0.1563 5/32	0.1563 5/32	.0050	0.012	144	51	0.003
R2A	0.1250 1/8	.0003	0.5000 1/2	.00030	0.1719 11/64	0.1719 11/64	.0050	0.012	144	51	0.007
R3	0.1875 3/16	.0003	0.5000 1/2	.00030	0.1563 5/32	0.1960	.0050	0.012	294	109	0.006
R4	0.2500 1/4	.0003	0.6250 5/8	.00030	0.1960	0.1960	.0050	0.012	330	135	0.010
R4A	0.2500 1/4	.0003	0.7500 3/4	.00035	0.2187 7/32	0.2813 9/32	.0050	0.016	542	205	0.022
R6	0.3750 3/8	.0003	0.8750 7/8	.00035	0.2187 7/32	0.2813 9/32	.0050	0.016	753	317	0.026
R8	0.5000 1/2	.0003	1.1250 1-1/8	.00035	0.2500 1/4	0.3125 5/16	.0050	0.016	1149	535	0.046
R10	0.6250 5/8	.0003	1.3750 1-3/8	.00045	0.2813 9/32	0.3437 11/32	.0050	0.032	1349	731	0.081
R12	0.7500 3/4	.0004	1.6250 1-5/8	.00045	0.3125 5/16	0.4375 7/16	.0050	0.032	1882	1016	0.139
R14	0.8750 7/8	.0004	1.8750 1-7/8	.00045	0.3750 3/8	0.5000 1/2	.0050	0.032	2261	1331	0.214
R16	1.0000 1	.0004	2.0000 2	.00050	0.3750 3/8	0.5000 1/2	.0050	0.032	2261	1331	0.236
R18	1.1250 1-1/8	.0004	2.1250 2-1/8	.00050	0.3750 3/8	0.5000 1/2	.0050	0.032	2675	1677	0.269
R20	1.2500 1-1/4	.0005	2.2500 2-1/4	.00050	0.3750 3/8	0.5000 1/2	.0050	0.032	2974	1866	0.276
R22	1.3750 1-3/8	.0005	2.5000 2-1/2	.00050	0.4375 7/16	0.5625 9/16	.0050	0.032	3644	2342	0.364
R24	1.5000 1-1/2	.0005	2.6250 2-5/8	.00050	0.4375 7/16	0.5625 9/16	.0050	0.032	3828	2630	0.379

*Maximum shaft or housing fillet radius that bearing corners will clear.
C3 internal clearance fit on standard stock items.


ZZ
Shielded
Both Sides

Z
Shielded
1 Side Only

2RS
Sealed
Both Sides

RS
Sealed
1 Side Only

HLU Bearing No.	Dimensions (in./mm)							Basic Load Ratings lbs		Weight lbs	Limiting Speed of Open Bearing rpm	
	Bore d	Tolerance +.0000 to minus	OD D	Tolerance +.0000 to minus	Width B	Tolerance +.0000 to minus	Fillet Radius *r	Dynamic Cr	Static Cor		grease	oil
**608	0.3150 8	.0003 .008	.8661 22	.0035 .009	0.2756 7	.0047 .12	0.012 0.3	740	306	0.024	26000	34000
6000	0.3937 10	.0003 .008	1.0236 26	.00035 .009	0.3150 8	.0047 .12	0.012 0.3	935	400	0.042	29000	34000
6001	0.4724 12	.0003 .008	1.1024 28	.00035 .009	0.3150 8	.0047 .12	0.012 0.3	1149	535	0.049	26000	30000
6002	0.5906 15	.0003 .008	1.2598 32	.00045 .011	0.3543 9	.0047 .12	0.012 0.3	1257	638	0.066	22000	26000
6003	0.6693 17	.0003 .008	1.3780 35	.00045 .011	0.3937 10	.0047 .12	0.012 0.3	1349	731	0.086	20000	24000
6004	0.7874 20	.0004 .010	1.6535 42	.00045 .011	0.4724 12	.0047 .12	0.0236 0.6	2113	1135	0.152	18000	21000
6005	0.9843 25	.0004 .010	1.8504 47	.00045 .011	0.4724 12	.0047 .12	0.0236 0.6	2270	1315	0.176	15000	18000
6006	1.1811 30	.0004 .010	2.1654 55	.0005 .013	0.5118 13	.0047 .12	0.0394 1.0	2967	1866	0.256	13000	15000
6007	1.3780 35	.0005 .012	2.4409 62	.0005 .013	0.5512 14	.0047 .12	0.0394 1.0	3597	2315	0.342	12000	14000
6008	1.5748 40	.0005 .012	2.6772 68	.0005 .013	0.5906 15	.0047 .12	0.0394 1.0	3777	2585	0.419	10000	12000
6009	1.7717 45	.0005 .012	2.9528 75	.0005 .013	0.6299 16	.0047 .12	0.0394 1.0	4721	3394	0.522	9200	11000
6010	1.9685 50	.0005 .012	3.1496 80	.0005 .013	0.6299 16	.0047 .12	0.0394 1.0	4901	3732	0.575	8400	9800
6011	2.1654 55	.0006 .015	3.5433 90	.0006 .015	0.7087 18	.006 .15	0.0433 1.1	6362	4766	0.855	7700	9000
6012	2.3622 60	.0006 .015	3.7402 95	.0006 .015	0.7087 18	.006 .15	0.0433 1.1	6632	5215	0.913	7000	8300
6013	2.5591 65	.0006 .015	3.9370 100	.0006 .015	0.7087 18	.006 .15	0.0433 1.1	6856	5665	0.928	6500	7700
6014	2.7559 70	.0006 .015	4.3307 110	.0006 .015	0.7874 20	.006 .15	0.0433 1.1	8542	6969	1.332	6100	7100
6015	2.9528 75	.0006 .015	4.5276 115	.0006 .015	0.7874 20	.006 .15	0.0433 1.1	8880	7531	1.431	5700	6700
6016	3.1496 80	.0006 .015	4.9213 125	.0007 .018	0.8661 22	.006 .15	0.0433 1.1	10678	8992	1.883	5300	6200
6017	3.3465 85	.0008 .020	5.1181 130	.0007 .018	0.8661 22	.008 .20	0.0433 1.1	11128	9666	1.962	5000	5900
6018	3.5433 90	.0008 .020	5.5118 140	.0007 .018	0.9449 24	.008 .20	0.0591 1.5	13038	11128	2.249	4700	5600
6019	3.7402 95	.0008 .020	5.7087 145	.0007 .018	0.9449 24	.008 .20	0.0591 1.5	13600	12139	2.381	4500	5300
6020	3.9370 100	.0008 .020	5.9055 150	.0007 .018	0.9449 24	.008 .20	0.0591 1.5	13488	12139	2.535	4200	5000

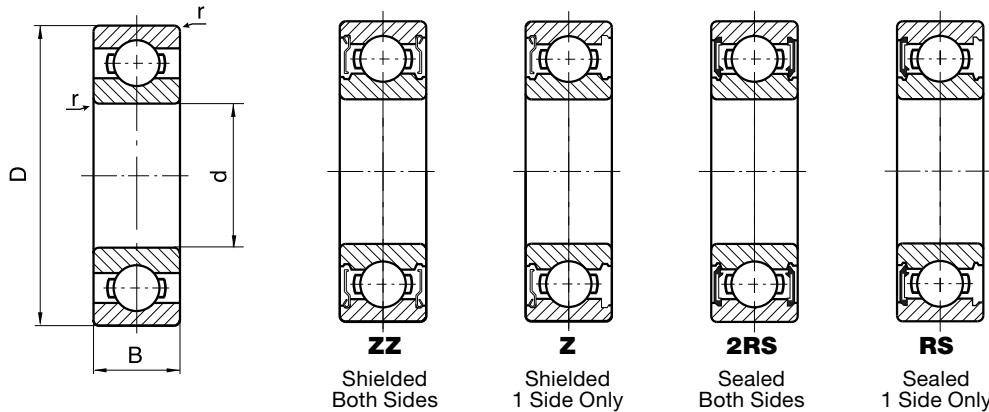
* Maximum shaft or housing fillet radius that bearing corners will clear.

C3 internal clearance fit on standard stock items.

** 608 is a 600 series miniature bearing.

RADIAL BEARINGS - 6200 SERIES

Deep Groove Ball Bearings • Single Row • Abec 1 Precision



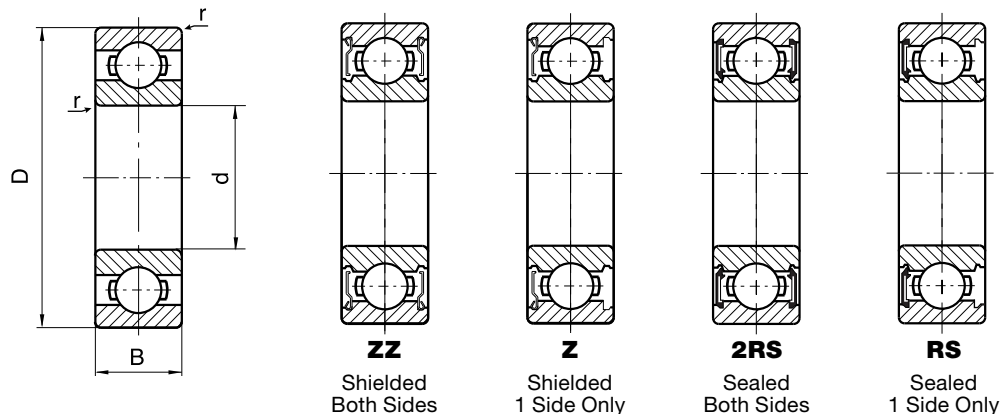
HLU Bearing No.	Dimensions (in./mm)							Basic Load Ratings lbs		Weight lbs	Limiting Speed of Open Bearing rpm	
	Bore d	Tolerance +.0000 to minus	OD D	Tolerance +.0000 to minus	Width B	Tolerance +.0000 to minus	Fillet Radius *r	Dynamic Cr	Static Cor		grease	oil
6200	0.3937 10	.0003 .008	1.1811 30	.00035 .009	0.3543 9	.0047 .12	0.024 .6	1149	535	0.071	25000	30000
6201	0.4724 12	.0003 .008	1.2598 32	.00045 .011	0.3937 10	.0047 .12	0.024 .6	1389	688	0.082	22000	26000
6202	0.5906 15	.0003 .008	1.3780 35	.00045 .011	0.4331 11	.0047 .12	0.024 .6	1675	832	0.099	20000	26000
6202 5/8"	0.6250 15.875	.0003 .008	1.3780 35	.00045 .011	0.4331 11	.0047 .12	0.024 .6	1675	832	0.093	20000	26000
6203 5/8"	0.6250 15.875	.0003 .008	1.5748 40	.00045 .011	0.4724 12	.0047 .12	0.024 .6	2158	1075	0.146	18000	21000
6203	0.6693 17	.0003 .008	1.5748 40	.00045 .011	0.4724 12	.0047 .12	0.024 .6	2158	1034	0.143	18000	21000
6203 3/4"	0.7500 19.05	.0003 .008	1.5748 40	.00045 .011	0.4724 12	.0047 .12	0.024 .6	2158	1075	0.128	18000	21000
6204 3/4"	0.7500 19.05	.0004 .010	1.8504 47	.00045 .011	0.5512 14	.0047 .12	0.039 1.0	2886	1495	0.243	16000	18000
6204	0.7874 20	.0004 .010	1.8504 47	.00045 .011	0.5512 14	.0047 .12	0.039 1.0	2877	1495	0.234	16000	18000
6205	0.9843 25	.0004 .010	2.0472 52	.0005 .013	0.5906 15	.0047 .12	0.039 1.0	3147	1765	0.282	13000	15000
6205 1"	1.0000 25.4	.0004 .010	2.0472 52	.0005 .013	0.5906 15	.0047 .12	0.039 1.0	3147	1765	0.291	13000	15000
6206	1.1811 30	.0004 .010	2.4409 62	.0005 .013	0.6299 16	.0047 .12	0.039 1.0	4384	2540	0.439	11000	13000
6207	1.3780 35	.00045 .012	2.8346 72	.0005 .013	0.6693 17	.0047 .12	0.043 1.1	5777	3439	0.635	9800	11000
6208	1.5748 40	.00045 .012	3.1496 80	.0005 .013	0.7087 18	.0047 .12	0.043 1.1	6542	4001	0.807	8700	10000
6209	1.7717 45	.00045 .012	3.3465 85	.0006 .015	0.7480 19	.0047 .12	0.043 1.1	7306	4586	0.877	7800	9200
6210	1.9685 50	.00045 .012	3.5433 90	.0006 .015	0.7874 20	.0047 .12	0.043 1.1	7868	5215	1.001	7100	8300
6211	2.1654 55	.0006 .015	3.9370 100	.0006 .015	0.8268 21	.006 .15	0.059 1.5	9779	6564	1.325	6400	7600
6212	2.3622 60	.0006 .015	4.3307 110	.0006 .015	0.8661 22	.006 .15	0.059 1.5	11802	8093	1.726	6000	7000
6213	2.5591 65	.0006 .015	4.7244 120	.0006 .015	0.9055 23	.006 .15	0.059 1.5	12926	8992	2.183	5500	6500
6214	2.7559 70	.0006 .015	4.9213 125	.0007 .018	0.9449 24	.006 .15	0.059 1.5	13938	9891	2.359	5100	6000
6215	2.9528 75	.0006 .015	5.1181 130	.0007 .018	0.9843 25	.006 .15	0.059 1.5	14837	11128	2.601	4800	5600
6216	3.1496 80	.0006 .015	5.5118 140	.0007 .018	1.0236 26	.006 .15	0.079 2	16298	11914	3.086	4500	5300
6217	3.3465 85	.0008 .020	5.9055 150	.0007 .018	1.1024 28	.008 .20	0.079 2	18771	14387	3.946	4200	5000
6218	3.5433 90	.0008 .020	6.2992 160	.0010 .025	1.1811 30	.008 .20	0.079 2	21581	16073	4.740	4000	4700
6219	3.7402 95	.0008 .020	6.6929 170	.0010 .025	1.2598 32	.008 .20	0.083 2.1	24503	18434	5.776	3700	4400
6220	3.9370 100	.0008 .020	7.0866 180	.0010 .025	1.3386 34	.008 .20	0.083 2.1	27426	20906	6.922	3500	4200

* Maximum shaft or housing fillet radius that bearing corners will clear.

C3 internal clearance fit on standard stock items.

RADIAL BEARINGS - 6300 SERIES

Deep Groove Ball Bearings • Single Row • Abec 1 Precision



HLU Bearing No.	Dimensions (in.) (mm)							Basic Load Ratings lbs		Weight lbs	Limiting Speed of Open Bearing rpm	
	Bore d	Tolerance +.0000 to minus	OD D	Tolerance +.0000 to minus	Width B	Tolerance +.0000 to minus	Fillet Radius *r	Dynamic Cr	Static Cor		grease	oil
6300	0.3937 10	.0003 .008	1.3780 35	.00045 .011	0.4331 11	.0047 .12	0.024 0.6	1717	780	0.117	23000	27000
6301	0.4724 12	.0003 .008	1.4567 37	.00045 .011	0.4724 12	.0047 .12	.039 1.0	2181	942	0.132	20000	24000
6302	0.5906 15	.0003 .008	1.6535 42	.00045 .011	0.5118 13	.0047 .12	0.039 1.0	2563	1221	0.181	17000	21000
6303	0.6693 17	.0003 .008	1.8504 47	.00045 .011	0.5512 14	.0047 .12	0.039 1.0	3035	1472	0.254	16000	19000
6304	0.7874 20	.0004 .010	2.0472 52	.0005 .013	0.5906 15	.0047 .12	0.043 1.1	3574	1776	0.317	14000	17000
6305	0.9843 25	.0004 .010	2.4409 62	.0005 .013	0.6693 17	.0047 .12	0.043 1.1	4766	2450	0.511	12000	14000
6306	1.1811 30	.0004 .010	2.8346 72	.0005 .013	0.7480 19	.0047 .12	0.043 1.1	6002	3372	0.794	10000	12000
6307	1.3780 35	.00045 .012	3.1496 80	.0005 .013	0.8268 21	.0047 .12	0.059 1.5	7531	4294	1.008	8800	10000
6308	1.5748 40	.00045 .012	3.5433 90	.0006 .015	0.9055 23	.0047 .12	0.059 1.5	9104	5395	1.396	7800	9200
6309	1.7717 45	.00045 .012	3.9370 100	.0006 .015	0.9843 25	.0047 .12	0.059 1.5	11914	7194	1.795	7000	8200
6310	1.9685 50	.00045 .012	4.3307 110	.0006 .015	1.0630 27	.0047 .12	0.079 2.0	13938	8655	2.359	6400	7500
6311	2.1654 55	.0006 .015	4.7244 120	.0006 .015	1.1417 29	.006 .15	0.079 2.0	16073	10116	3.020	5800	6800
6312	2.3622 60	.0006 .015	5.1181 130	.0007 .018	1.2205 31	.006 .15	0.083 2.1	18434	11690	3.814	5400	6300
6313	2.5591 65	.0006 .015	5.5118 140	.0007 .018	1.2992 33	.006 .15	0.083 2.1	20794	13488	4.586	4900	5800
6314	2.7559 70	.0006 .015	5.9055 150	.0007 .018	1.3780 35	.006 .15	0.083 2.1	23379	15286	5.556	4600	5400
6315	2.9528 75	.0006 .015	6.2992 160	.0010 .025	1.4567 37	.006 .15	0.083 2.1	25402	17310	6.658	4300	5000
6316	3.1496 80	.0006 .015	6.6929 170	.0010 .025	1.5354 39	.006 .15	0.083 2.1	27650	19445	7.915	4000	4700
6317	3.3465 85	.0008 .020	7.0866 180	.0010 .025	1.6142 41	.008 .20	0.118 3.0	29898	21806	9.325	3800	4500
6318	3.5433 90	.0008 .020	7.4803 190	.0012 .030	1.6929 43	.008 .20	0.118 3.0	32146	24054	10.825	3600	4200
6319	3.7402 95	.0008 .020	7.8740 200	.0012 .030	1.7717 45	.008 .20	0.118 3.0	34394	26751	12.500	3300	3900
6320	3.9370 100	.0008 .020	8.4646 215	.0012 .030	1.8504 47	.008 .20	0.118 3.0	38890	31697	15.432	3200	3700

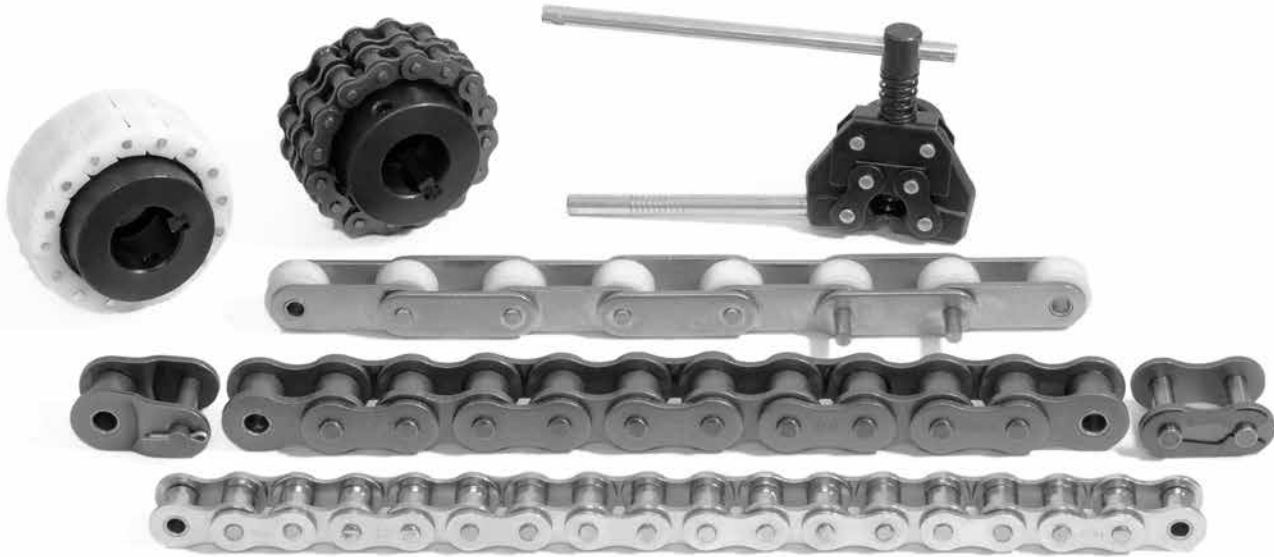
* Maximum shaft or housing fillet radius that bearing corners will clear.
C3 internal clearance fit on standard stock items.



Hi-Light USA

MANUFACTURERS OF HIGH-QUALITY BALL BEARINGS AND POWER TRANSMISSION PARTS

Roller Chain



Hi-Light USA is a leading supplier of ANSI roller chain. The HLU Enduroline series consists of the following chains:

- Drive Chains
- Small Pitch Conveyor Chains
- Double Pitch Conveyor Chains
- Engineered Class Chains
- Agricultural Chains
- 304 Stainless Steel Chains
- Nickel Plated and Highguard Coated Chains

Hi-Light USA Enduroline Series Roller Chain maintains ANSI B29.1 and B29.3 standards in design, dimensions and interchangeability.

HLU Enduroline Series Chain use high-quality steel manufactured with stringent production and quality control standards. Strict guidelines are used for the hardening of component parts. Rollers and side plates are shot peened to give chain greater fatigue strength. After the assembly process, the chain is preloaded through a series of sprockets under tension that prestresses the chain seating the chain components. This process minimizes initial stretch or elongation of the chain when put into operation.

The HLU Chain is then lubricated by dipping the chain in a heated grease. This process effectively lubricates the moving parts of the chain, increases chain life, and protects against corrosion. Working temperatures of our standard grease is -30°C to +120°C (-22°F to +248°F). It is important to setup a relubrication schedule with high quality oil to get the most service life from the chain.

A good grade of non-detergent based oil is recommended as heavy oils and greases are too thick to adequately relube the chain joints. The oil should be directed at the slack strand and applied inside the chain loop evenly across the chain width.

Recommended Oil at Various Temperatures

Lubricant Viscosity	
Temperature °F	Recommended Lubricant
20-40	SAE 20
40-100	SAE 30
100-120	SAE 40
120-140	SAE 50

ANSI Roller Chain Numbering System

The ANSI chain numbering system makes it easy to determine chain pitch. For example, take standard chain sizes 35, 41, 40, and 50. The far right digit of "0" for 40 and 50 denotes standard chain. The "1" for 41 chain denotes light weight chain and "5" in 35 chain indicates rollerless bushing chain. The left hand digit(s) gives you the pitch (pitch is the distance between joints or two rivet centers.) in eighths of an inch. #25 = 2/8", #35 = 3/8", #40 = 4/8" and so on. A letter H after the chain number denotes heavy side plates. The number of strands in multi-strand chain is denoted by a hyphenated number after the chain number, as in 50-2.

Cut to Length Chain

Hi-Light USA has the machinery to cut chain to length for you at the proper number of pitches that you require. When chain is cut to length, you start with an odd number of pitches. A connecting link is then added to give you an even number of pitches. If your total desired length is an odd number of pitches, a connecting link along with an offset link must be added. A slip fit connecting link is normally supplied with our chain and is adequate for most applications. However, a slip fit connecting link is 20% lower in fatigue strength. For high speed or heavy loads, we recommend press fit connecting links. Offset links have a 35% lower fatigue strength than the chain, while two pitch offset links are close to the original chain strength.

Stainless Steel Chains

Hi-Light USA uses the highest quality Stainless Steel that exceeds ANSI specifications. HLU stocks mainly 304 Stainless Steel Roller Chain due to its excellent corrosion resistance and wide operating temperature range of -38°C to +480°C (-36°F to +896°F). HLU Stainless Steel chain is solid roller and has 10% to 20% higher tensile strength than some other manufacturers. The link plates of 304 stainless can be slightly magnetic because of the cold rolling process. For magnetic free chain, we can offer 316 Stainless Steel chain which also has excellent corrosion resistance and a wide temperature range. HLU also offers a 600SS Series which has a 1.5x higher maximum working load than 304 stainless and greater wear resistance. Stainless steel chain is widely used in the food and chemical industry.

Nickel Plated Chains

Nickel Plate chains are used in environments where water accumulates or when appearance and cleanliness is a factor. Nickel plated chains are a good alternative to Stainless Steel chains in less corrosive environments because of their higher tensile strength and lower cost. Nickel Plated chain has about the same tensile strength as standard carbon steel chains.

Highguard Chain

New to the Hi-Light USA chain line is the HLU "Highguard" Roller Chain. This roller chain has a Dacromet plating that combines zinc and other elements to form our best anti-rust chain except for stainless steel.

Features

- Color: Light Gray
- Temperature tolerance: high temperature durability of the chain coat up to 250° C (482°F)
- Allowable load: same as normal chain (higher strength than stainless steel chain, no hydrogen brittleness like electroplate chain)
- Wearability: same as normal chain
- Plating process is environmentally friendly
- Highguard chain has better anti-rust protection than nickel plate chain. See salt fog test below.

CHAIN	ANTI-RUST METHOD	DURABLE TIME (HOUR)
Nickel Electroplate Chain	Salt Fog	48-96
Highguard Chain	Salt Fog	300-1000

Chain Terminology

Minimum Ultimate Tensile Strength: The minimum force at which an unused, undamaged chain could fail when subjected to a single tensile loading test. The minimum Ultimate Tensile Strength in this catalog are ANSI standards. HLU chain actual tensile strength tests greatly exceed these standards.

Average Tensile Strength: The average breaking point readings of actual tensile strength tests over a period of time.

Fatigue Strength: Fatigue is the tendency of material to break under repeated stress. Fatigue strength is the maximum load applied to the roller chain for a specified number of cycles without failure.

Chain Pull: The force or pull required to move the weight of the chain, material and frictional resistance of chain parts on a conveyor.

Chain Length: The actual chain length from joint centers measured from each end of the chain. Usually expressed in feet, inches or pitches.

Chain Pitch: The distance between chain joints or distance from one rivet center to the next.

How to Order:

Chain:

60 - 1 R NP 50

Packaged in 50' Reels

Designates plating. Use "NP" for Nickel Plate and "SS" for Stainless Steel

Riveted Roller Chain - Specify "C" for Cottered

Single Strand

#60 Roller Chain

Links:

60- 1 CL NP

Designates plating. Use "NP" for Nickel Plate and "SS" for Stainless Steel

Connecting Link - specify "OL" for offset link "RL" for Roller Link

Single Strand

#60 Chain

Roller Chain is sold by the foot in both 10' boxes and reels. Links are sold by each.

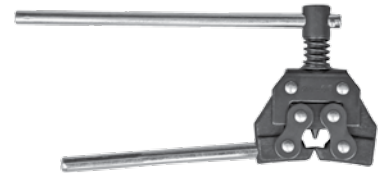
Number 25 - 80 Connecting Links are standard Spring Clip. Number 100 Connecting Links and larger are Cottered Type.

CHAIN PULLERS

CHAIN BREAKERS



CP25-60 FOR SMALL PITCH CHAIN (#25 THRU #60)



CB25-60 FOR SMALL PITCH CHAIN (#25 THRU #60)



CP60-100 FOR MEDIUM PITCH CHAIN (#60 THRU #100)



CB60-100 FOR MEDIUM PITCH CHAIN (#60 THRU #100)














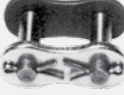

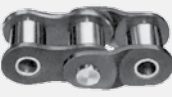
CP100-180 FOR LARGE PITCH CHAIN (#100 THRU #180)

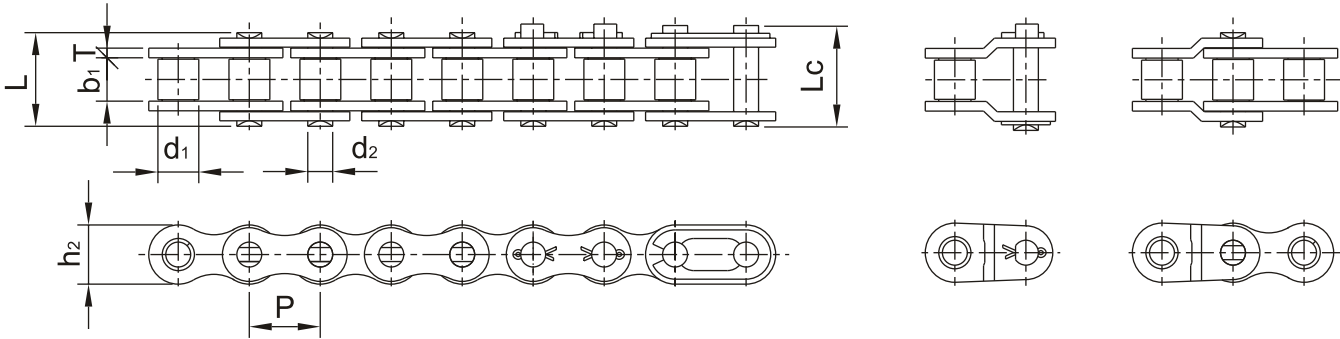


CB100-180 FOR LARGE PITCH CHAIN (#100 THRU #180)

Replacement Tips for Chain Breakers also available.

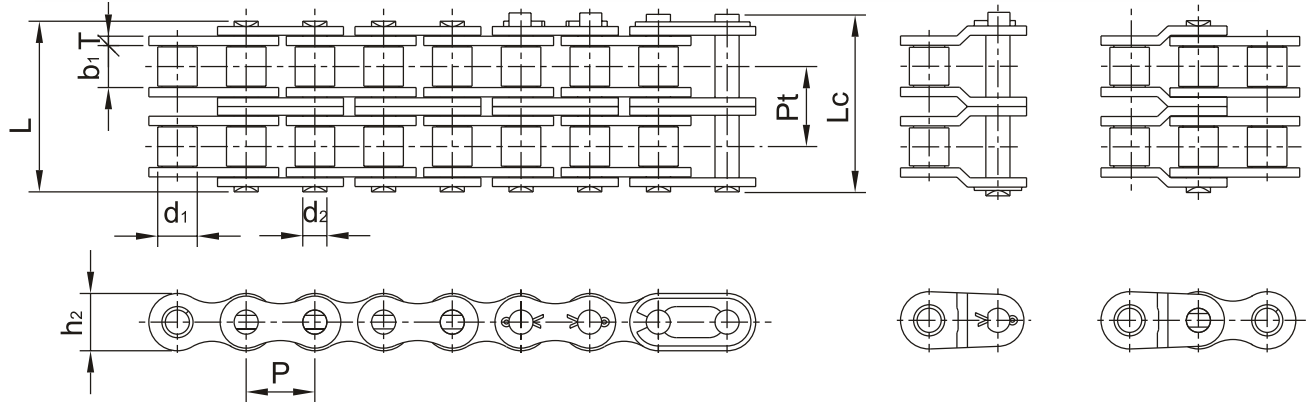


		Parts	Notes
Components		Pin Link (Riveted Type)	Plate fit tightly against 2 pins
		Pin Link (Cottered Type)	
		Roller Link	
Parts		Pin	
		Bushing	
		Roller	
		Pin Link Plate (Outer Link Plate)	
		Roller Link Plate (Inner Link Plate)	
Connecting Links		Connecting Link with 2 Cotter Pins	Standard on #100 chain and larger
		Connecting Link with A Spring Clip	Standard on #80 chain and smaller
		Connecting Link with 2 Cotter Pins (connecting plate tight fit against 2 pins)	Used for higher power
Offset Links		Offset Link	Not recommended for use with heavy loads and high speeds
		Offset Link with a Roller Link	



HLU ANSI Chain No.	Pitch	Roller Diameter	Width between Inner Plates	Pin Diameter	Pin Length		Inner Plate Depth	Plate Thickness	Minimum Ultimate Tensile Strength ANSI Std.	Average Tensile Strength	Weight
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T	lbs	lbs	lbs/ft
	in.	in.	in.	in.	in.	in.	in.	in.			
*25-1R	.2500	.1299	.1220	.0909	.3150	.3898	.2370	.0315	780	989	.09
*35-1R	.3750	0.2000	.1843	.1409	.4882	.5100	.3425	.0512	1760	2338	.22
41-1R	.5000	.3059	.2461	.1409	.5413	.6299	.3902	.0492	1500	2653	.27
40-1R	.5000	.3130	.3091	.1559	.6535	.7520	.4752	.0591	3125	4001	.42
50-1R	.6250	.4000	.3701	.2000	.8150	.9173	.5941	.0811	4880	6294	.70
60-1R	.7500	.4689	.4949	.2339	1.0197	1.1260	.7118	.0961	7030	8767	1.01
80-1R	1.0000	.6252	.6201	.3118	1.2874	1.4961	.9500	.1283	12500	16073	1.75
100-1R	1.2500	.7500	.7441	.3752	1.6181	1.7677	1.1882	.1575	19530	22930	2.63
120-1R	1.5000	.8752	.9929	.4370	2.0000	2.2087	1.4252	.1890	28125	35271	3.78
140-1R	1.7500	1.0000	.9929	.5000	2.1614	2.3937	1.6630	.2224	38280	47388	5.04
160-1R	2.0000	1.1252	1.2421	.5618	2.5787	2.8583	1.9000	.2539	50000	60629	6.79
180-1R	2.2500	1.4059	1.3969	.6874	2.8661	3.2677	2.1382	.2854	63280	73689	9.04
200-1R	2.5000	1.5622	1.4902	.7815	3.1614	3.5630	2.3752	.3150	78125	92168	10.85
240-1R	3.0000	1.8752	1.8642	.9374	3.7598	4.1732	2.8500	.3740	112500	131598	15.59

* Chain is rollerless. Bushing diameter shown.



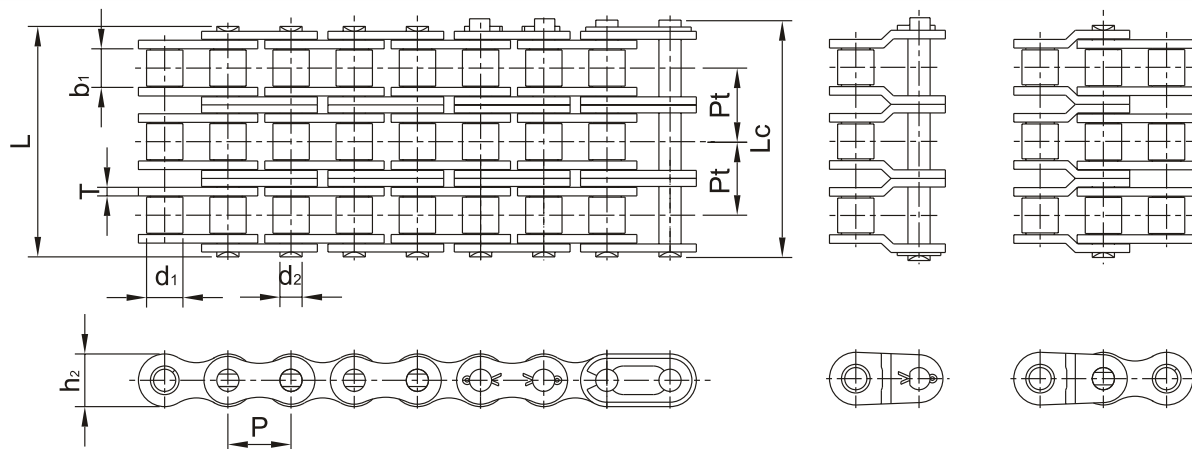
HLU ANSI Chain No.	Pitch	Roller Diameter	Width between Inner Plates	Pin Diameter	Pin Length		Inner Plate Depth	Transverse Pitch	Plate Thickness	Minimum Ultimate Tensile Strength ANSI Std.	Average Tensile Strength	Weight
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	Pt	T	lbs	lbs	lbs/ft
	in.	in.	in.	in.	in.	in.	in.	in.	in.			
*25-2R	.2500	.1299	.1220	.0909	.5709	.6496	.2370	.2520	.0315	1560	1978	.19
*35-2R	.3750	.2000	.1843	.1409	.8858	.9646	.3425	.3988	.0512	3520	4676	.42
40-2R	.5000	.3130	.3091	.1559	1.2205	1.3189	.4752	.5661	.05905	6250	8003	.75
50-2R	.6250	.4000	.3701	.2000	1.5315	1.6260	.5941	.7130	.0811	9760	12589	1.34
60-2R	.7500	.4689	.4949	.2339	1.9213	2.0276	.7118	.8969	.0961	14060	18524	1.96
80-2R	1.0000	.6252	.6201	.3118	2.4685	2.6417	.9500	1.1531	.1283	25000	32146	3.46
100-2R	1.2500	.7500	.7441	.3752	3.0079	3.2717	1.1882	1.4079	.1575	39060	45859	5.24
120-2R	1.5000	.8752	.9929	.4370	3.7913	4.0000	1.4252	1.7890	.1890	56250	70542	7.86
140-2R	1.7500	1.0000	.9929	.5000	4.0787	4.3071	1.6630	1.9240	.2224	76560	94798	10.17
160-2R	2.0000	1.1252	1.2421	.5618	4.8543	5.1260	1.9000	2.3051	.2539	100000	121257	13.53
180-2R	2.2500	1.4059	1.3969	.6874	5.4567	5.8465	2.1382	2.5921	.2854	126560	147401	19.63
200-2R	2.5000	1.5622	1.4902	.7815	5.9803	6.3583	2.3752	2.8169	.3150	156250	184336	21.66
240-2R	3.0000	1.8752	1.8642	.9374	7.2205	7.6339	2.8500	3.4579	.3740	225000	263196	30.39

* Chain is rollerless. Bushing diameter shown.



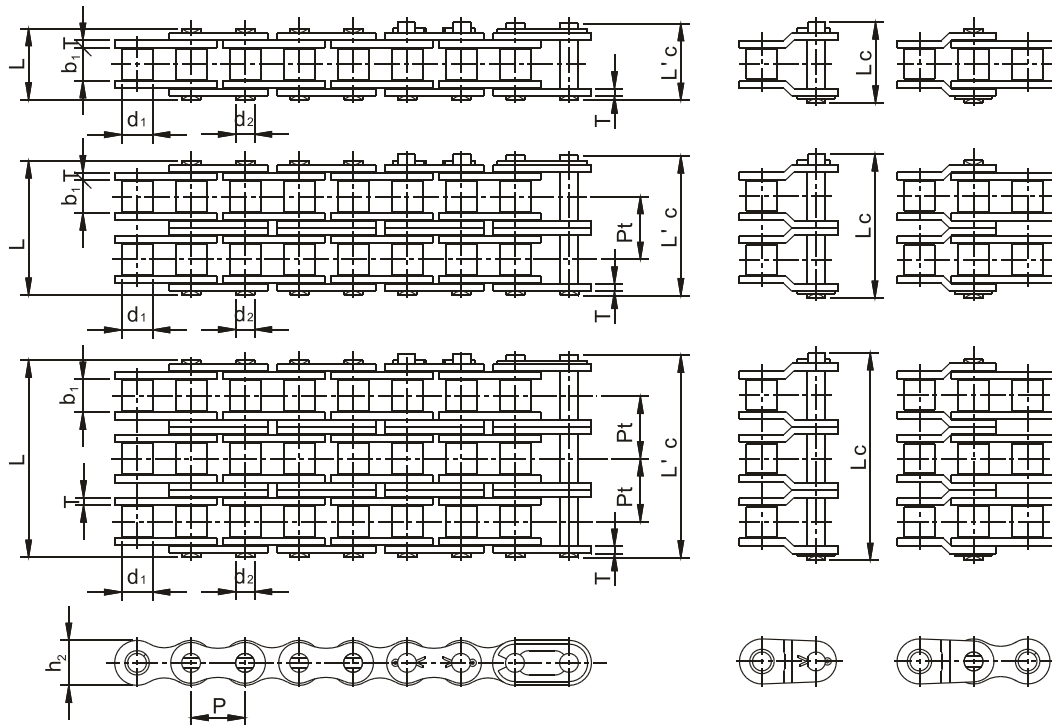
TRIPLE STRAND - RIVETED TYPE

Enduroline Series • ANSI Precision Roller Chain



HLU ANSI Chain No.	Pitch	Roller Diameter	Width between Inner Plates	Pin Diameter	Pin Length		Inner Plate Depth	Transverse Pitch	Plate Thickness	Minimum Ultimate Tensile Strength ANSI Std.	Average Tensile Strength	Weight
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	Pt	T	lbs	lbs	lbs/ft
	in.	in.	in.	in.	in.	in.	in.	in.	in.			
*35-3R	.3750	.2000	.1843	.1409	1.2874	1.3661	.3425	.3988	.0512	5280	6744	.71
40-3R	.5000	.3130	.3091	.1559	1.7874	1.8898	.4752	.5661	.0591	9375	11510	1.28
50-3R	.6250	.4000	.3701	.2000	2.2441	2.3543	.5941	.7130	.0811	14640	18434	2.08
60-3R	.7500	.4689	.4949	.2339	2.8150	2.9764	.7118	.8969	.0961	21090	25852	3.05
80-3R	1.0000	.6252	.6201	.3118	3.6102	3.8110	.9500	1.1531	.1283	37500	46758	5.30
100-3R	1.2500	.7500	.7441	.3752	4.4173	4.6142	1.1882	1.4079	.1575	58590	69688	7.91
120-3R	1.5000	.8752	.9929	.4370	5.5787	5.8386	1.4252	1.7890	.1890	84375	105813	11.78
140-3R	1.7500	1.0000	.9929	.5000	5.9921	6.2323	1.6630	1.9240	.2224	114840	142186	14.92
160-3R	2.0000	1.1252	1.2421	.5618	7.1575	7.4252	1.9000	2.3051	.2539	150000	181863	20.17
180-3R	2.2500	1.4059	1.3969	.6874	8.0472	8.4449	2.1382	2.5921	.2854	189840	221113	25.68
200-3R	2.5000	1.5622	1.4902	.7815	8.7992	9.1693	2.3752	2.8169	.3150	234375	276504	32.95
240-3R	3.0000	1.8752	1.8642	.9374	10.6811	11.0945	2.8500	3.4579	.3740	337500	394794	48.11

* Chain is rollerless. Bushing diameter shown.

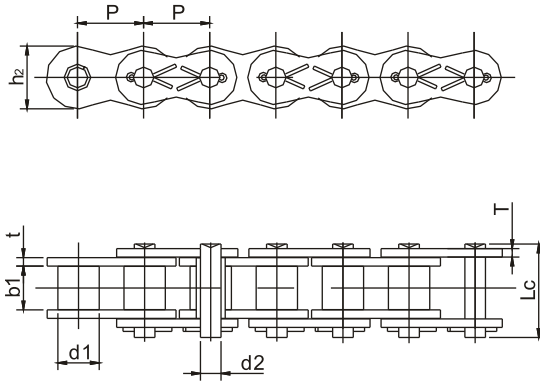


HLU ANSI Chain No.	Pitch	Roller Diameter	Width between Inner Plates	Pin Diameter	Pin Length		Inner Plate Depth	Transverse Pitch	Plate Thickness	Minimum Ultimate Tensile Strength	Average Tensile Strength	Weight
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	Pt	T	lbs	lbs	lbs/ft
	in.	in.	in.	in.	in.	in.	in.	in.	in.			
40H	.5000	.3130	.3091	.1559	.7165	0.7756	.4724	-	.0811	3125	4586	0.55
50H	.6250	.4000	.3701	.2000	.8701	0.9803	.5941	-	.0961	4880	6699	0.84
60H	.7500	.4689	.4949	.2339	1.1772	1.3583	.7118	-	.1283	7030	9217	1.26
80H	1.0000	.6252	.6201	.3118	1.4409	1.6535	.9500	-	.1575	12500	16208	2.08
100H	1.2500	.7500	.7441	.3752	1.7362	1.9764	1.1882	-	.1890	19530	23874	2.94
120H	1.5000	.8752	.9929	.4370	2.1181	2.3780	1.4252	-	.2224	28125	35226	4.43
140H	1.7500	1.0000	.9929	.5004	2.2795	2.4291	1.6622	-	.2539	38280	48849	5.58
160H	2.0000	1.1252	1.2421	.5626	2.6969	2.8543	1.9000	-	.2854	50000	64248	6.92
60H-2	.7500	.4689	.4949	.2339	2.2047	2.3858	.7118	1.0280	.1283	14060	19108	2.49
80H-2	1.0000	.6252	.6201	.3118	2.7244	2.9370	.9500	1.2831	.1575	25000	32416	4.13
100H-2	1.2500	.7500	.7441	.3752	3.2756	3.5079	1.1882	1.5390	.1890	39060	47748	5.83
120H-2	1.5000	.8752	.9929	.4370	4.0433	4.3031	1.4252	1.9240	.2224	56250	69800	8.82
60H-3	.7500	.4689	.4949	.2339	3.2323	3.4134	.7118	1.0280	.1283	21090	26976	3.72
80H-3	1.0000	.6252	.6201	.3118	4.0079	4.2205	.9500	1.2831	.1575	37500	47253	6.33
100H-3	1.2500	.7500	.7441	.3752	4.8150	5.0551	1.1882	1.5390	.1890	58590	71217	8.71
120H-3	1.5000	.8752	.9929	.4370	5.9646	6.2244	1.4252	1.9240	.2224	84375	103003	13.20

HI-LIGHT USA SINGLE STRAND - COTTERED TYPE

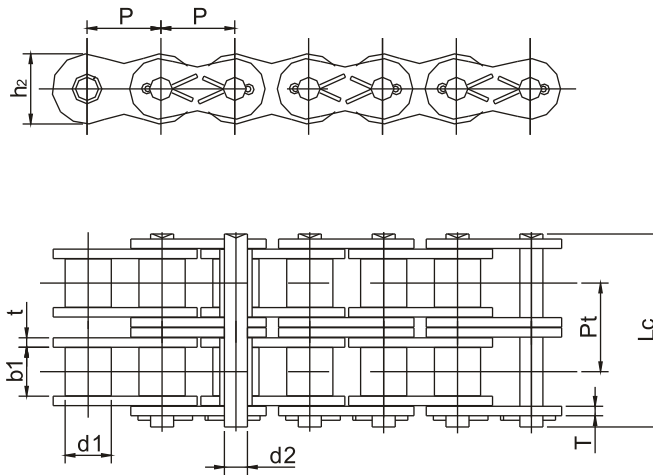
WWW.HILIGHTUSA.COM

Enduroline Series • ANSI Precision Roller Chain



HLU ANSI Chain No.	Pitch	Roller Diameter	Width between Inner Plates	Pin Diameter	Pin Length	Inner Plate Depth	Plate Thickness	Minimum Ultimate Tensile Strength*	Average Tensile Strength	Weight
	P	d1 max	b1 min	d2 max	Lc max	h2 max	t/T	lbs	lbs	lbs/ft
	in.	in.	in.	in.	in.	in.	in.			
50 -1C	.6250	.4000	.3701	.2004	.8894	.5941	.0787	4880	6609	0.69
60 -1C	.7500	.4689	.4949	.2346	1.0925	.7126	.0945	7030	9329	1.01
80 -1C	1.0000	.6252	.6201	.3126	1.4016	.9500	.1260	12500	16073	1.75
100 -1C	1.2500	.7500	.7441	.3756	1.6772	1.1878	.1575	19530	24548	2.63
120 -1C	1.5000	.8752	.9929	.4374	2.1067	1.4252	.1890	28125	35271	3.78
140 -1C	1.7500	1.0000	.9929	.5004	2.2917	1.6626	.2224	38280	47658	5.04
160 -1C	2.0000	1.1252	1.2421	.5626	2.7197	1.9000	.2539	50000	60629	6.79
180 -1C	2.2500	1.4059	1.3969	.6874	3.0886	2.1378	.2854	63280	73689	9.04
200 -1C	2.5000	1.5622	1.4902	.7815	3.3524	2.3752	.3150	78125	92168	10.85
240 -1C	3.0000	1.8752	1.8642	.9374	3.9650	2.8500	.3740	112500	131598	15.59

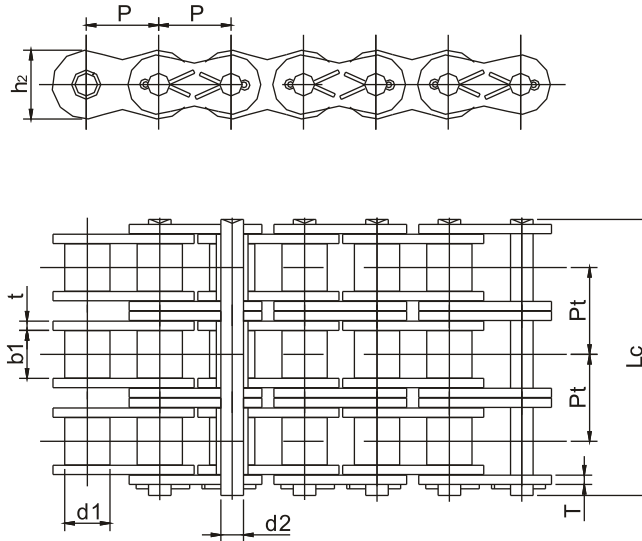
* Ultimate Tensile Strength for multiple strands equals min. ultimate strength multiplied by number of strands.



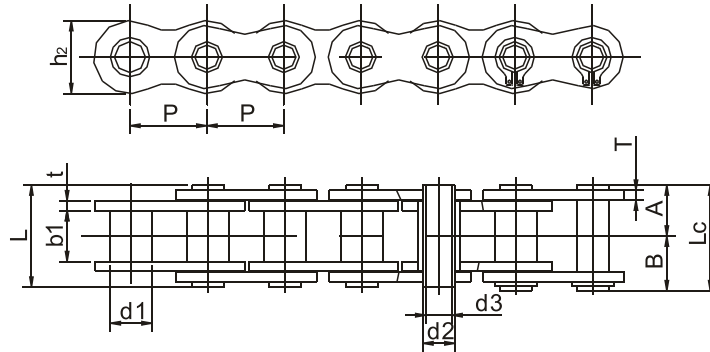
HLU ANSI Chain No.	Pitch	Roller Diameter	Width between Inner Plates	Pin Diameter	Pin Length	Inner Plate Depth	Transverse Pitch	Plate Thickness	Minimum Ultimate Tensile Strength	Average Tensile Strength	Weight
	P	d1 max	b1 min	d2 max	Lc max	h2 max	Pt	t/T	lbs	lbs	lbs/ft
	in.	in.	in.	in.	in.	in.	in.	in.			
50 - 2C	.6250	.4000	.3701	.2004	1.6024	.5941	.713	.0787	9760	12589	1.34
60 - 2C	.7500	.4689	.4949	.2346	1.9894	.7126	.897	.0945	14060	18524	1.96
80 - 2C	1.0000	.6252	.6201	.3126	2.5547	.9500	1.153	.1260	25000	32146	3.46
100 - 2C	1.2500	.7500	.7441	.3756	3.0850	1.1878	1.408	.1575	39060	45859	5.24
120 - 2C	1.5000	.8752	.9929	.4374	3.8957	1.4252	1.789	.1890	56250	70542	7.86
140 - 2C	1.7500	1.0000	.9929	.5004	4.2157	1.6626	1.924	.2224	76560	94798	10.17
160 - 2C	2.0000	1.1252	1.2421	.5626	5.0248	1.9000	2.305	.2539	100000	121257	13.53
180 - 2C	2.2500	1.4059	1.3969	.6874	5.6807	2.1378	2.592	.2854	126560	147401	19.63
200 - 2C	2.5000	1.5622	1.4902	.7815	6.1693	2.3752	2.817	.3150	156250	184336	21.66
240 - 2C	3.0000	1.8752	1.8642	.9374	7.4228	2.8500	3.458	.3740	225000	263196	30.39

TRIPLE STRAND - COTTERED TYPE

Enduroline Series • ANSI Precision Roller Chain

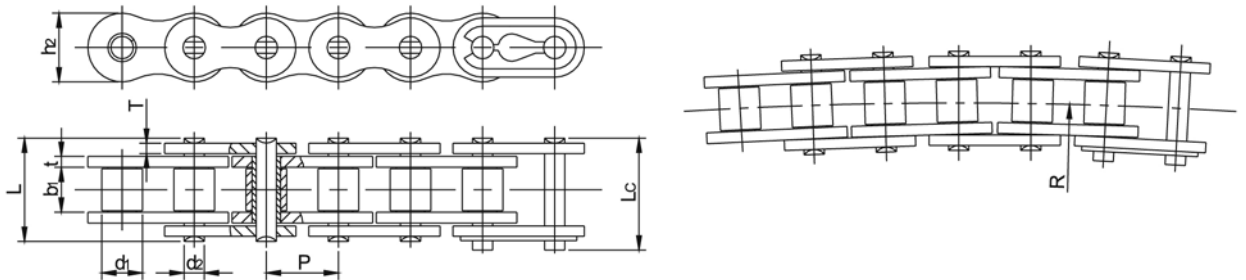


HLU ANSI Chain No.	Pitch	Roller Diameter	Width between Inner Plates	Pin Diameter	Pin Length	Inner Plate Depth	Transverse Pitch	Plate Thickness	Minimum Ultimate Tensile Strength	Average Tensile Strength	Weight
	P	d1 max	b1 min	d2 max	Lc max	h2 max	Pt	t/T	lbs	lbs	lbs/ft
	in.	in.	in.	in.	in.	in.	in.	in.			
50 - 3C	.6250	.4000	.3701	.2004	2.3154	.5941	.713	.0787	14640	18434	2.08
60 - 3C	.7500	.4689	.4949	.2346	2.8862	.7126	.897	.0945	21090	25852	3.05
80 - 3C	1.0000	.6252	.6201	.3126	3.7079	.9500	1.153	.1260	37500	46758	5.30
100 - 3C	1.2500	.7500	.7441	.3756	4.4929	1.1878	1.408	.1575	58590	69688	7.91
120 - 3C	1.5000	.8752	.9929	.4374	5.6846	1.4252	1.789	.1890	84375	105813	11.78
140 - 3C	1.7500	1.0000	.9929	.5004	6.1398	1.6626	1.924	.2224	114840	142186	14.92
160 - 3C	2.0000	1.1252	1.2421	.5626	7.3299	1.9000	2.305	.2539	150000	181863	20.17
180 - 3C	2.2500	1.4059	1.3969	.6874	8.2728	2.1378	2.592	.2854	189840	221113	25.68
200 - 3C	2.5000	1.5622	1.4902	.7815	8.9862	2.3752	2.817	.3150	234375	276504	32.95
240 - 3C	3.0000	1.8752	1.8642	.9374	10.8807	2.8500	3.458	.3740	337500	394794	48.11



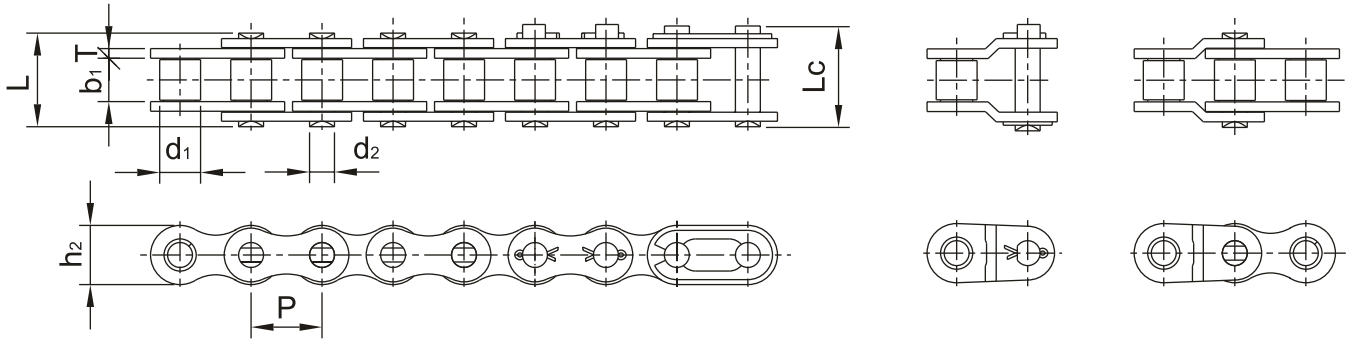
HOLLOW PIN CHAIN

HLU ANSI Chain No.	Pitch	Bush Diameter	Width Between Inner Plates	Pin Dimension						Plate Thickness	Inner Plate Depth	Minimum Ultimate Tensile Strength
	P	d1	b1 min	d2 max	d3 min	A	B	L (A+A)	Lc (A+B)	t/T	h2	lbs
	in.	in.	in.	in.	in.	in.	in.	in.	in.			
40HP	.5000	.3130	.3130	.2236	.1575	.3189	.3701	.6378	.6890	.0591	.4606	2967
50HP	.6250	.4000	.3752	.2850	.2016	.4055	.4606	.8110	.8661	.0787	.5748	4631
60HP	.7500	.4689	.5000	.3295	.2358	.5079	.5630	1.0157	1.0709	.0945	.6890	7059
80HP	1.0000	.6252	.6252	.4425	.3157	.6417	.7008	1.2835	1.3425	.1260	.9055	11914



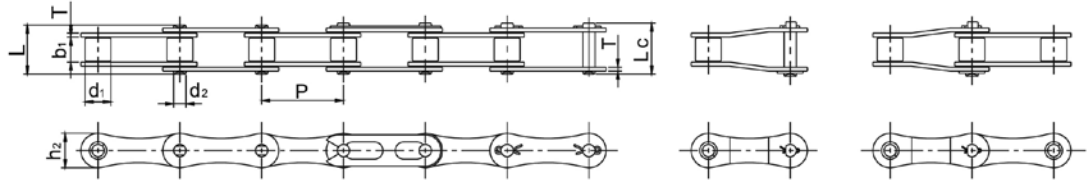
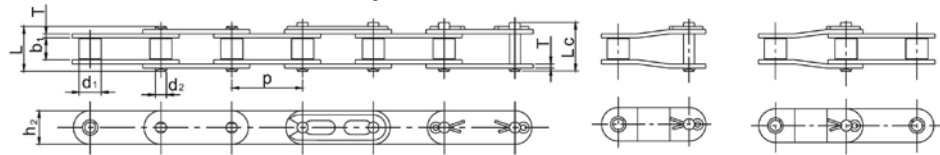
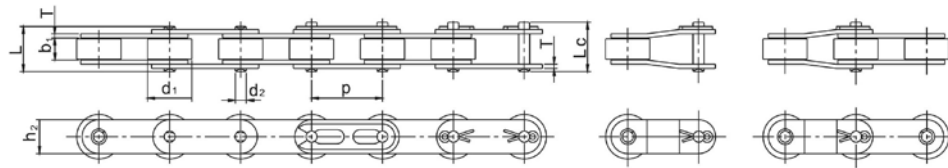
SIDE BOW CHAIN

HLU ANSI Chain No.	Pitch	Roller Diameter	Width Between Inner Plates	Pin Diameter	Pin Length		Inner Plate Depth	Plate Thickness	Side bow Radius	Minimum Ultimate Tensile Strength	Average Tensile Strength	Weight
	P	d1 max.	b1 min	d2 max.	L max.	Lc max.	h2 max.	T	R min.	lbs	lbs	lbs/ft
	in.	in.	in.	in.	in.	in.	in.	in.	in.			
40SB	.500	.313	.309	.156	.665	.713	.461	.059	13.78	3102	3415	.54
50SB	.625	.400	.370	.172	.815	.894	.594	.079	15.75	4630	5100	.73
60SB	.750	.469	.495	.210	1.047	1.118	.713	.094	19.69	5665	6295	.95
80SB	1.000	.625	.620	.283	1.3386	1.469	.945	.126	28.00	9194	9442	1.75

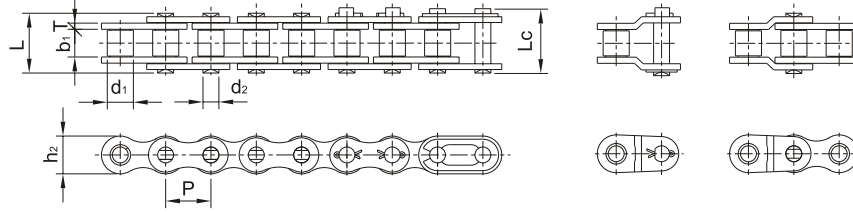
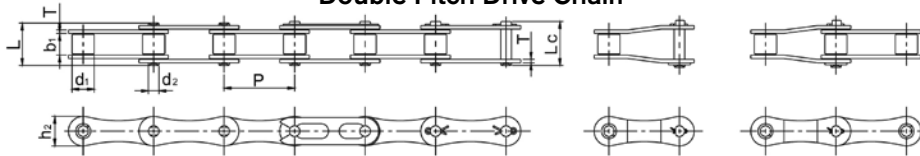
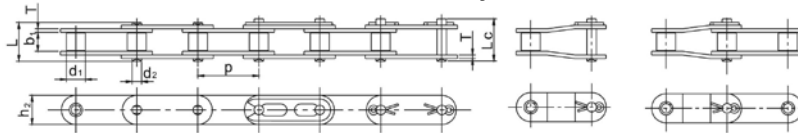


HLU ANSI Chain No.	Pitch	Roller Diameter	Width between Inner Plates	Pin Diameter	Pin Length		Inner Plate Depth	Plate Thickness	Ultimate Tensile Strength	Weight
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T	lbs	lbs/ft
	in.	in.	in.	in.	in.	in.	in.	in.		
*25-SS	.250	.130	.125	.091	.311	.331	.236	.030	624	.10
*35-SS	.375	.200	.188	.141	.488	.519	.354	.047	1373	.22
41-SS	.500	.306	.246	.141	.541	.591	.390	.047	1499	.28
40-SS	.500	.313	.309	.156	.654	.701	.472	.059	2398	.42
50-SS	.625	.400	.370	.200	.815	.874	.594	.079	3797	.69
60-SS	.750	.469	.495	.234	1.020	1.091	.709	.094	5420	1.01
80-SS	1.000	.625	.620	.312	1.287	1.378	.945	.118	9717	1.75
100-SS	1.250	.750	.744	.375	1.591	1.760	1.181	.157	14987	2.63
120-SS	1.500	.875	.993	.437	1.980	2.138	1.406	.189	22205	3.78
140-SS	1.750	1.000	.993	.500	2.142	2.323	1.614	.220	25837	5.04
160-SS	2.000	1.125	1.242	.562	2.551	2.740	1.882	.252	33990	6.79
180-SS	2.250	1.406	1.397	.687	2.866	3.094	2.110	.283	41992	9.04
200-SS	2.500	1.562	1.490	.781	3.161	3.433	2.362	.315	53023	10.85
240-SS	3.000	1.875	1.864	.937	3.760	4.055	2.850	.374	76477	15.59

* Chain is rollerless. Bushing diameter shown.

Drive Chain

Conveyor Chain Standard Roller

Conveyor Chain Oversize Roller


HLU ANSI Chain No.	Pitch	Roller Diameter	Width between Inner Plates	Pin Diameter	Pin Length		Inner Plate Depth	Plate Thickness	Minimum Ultimate Tensile Strength	Average Tensile Strength	Weight
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T	lbs	lbs	lbs/ft
	in.	in.	in.	in.	in.	in.	in.	in.			
Double Pitch Drive Chain											
A2040-SS	1.000	.313	.309	.156	.654	.701	.472	.059	2203	2698	.28
A2050-SS	1.250	.400	.370	.200	.807	.874	.591	.079	3642	4788	.49
A2060-SS	1.500	.469	.495	.234	.996	1.091	.709	.094	4721	5687	.69
A2080-SS	2.000	.625	.620	.312	1.287	1.398	.945	.118	8093	10273	1.14
Double Pitch Conveyor Chain Standard Roller											
C2040-SS	1.000	.313	.309	.156	.654	.701	.472	.059	2158	2698	.34
C2050-SS	1.250	.400	.370	.200	.815	.874	.591	.079	3417	4788	.52
C2060H-SS	1.500	.469	.495	.234	1.150	1.244	.709	.118	4878	6744	.97
C2080H-SS	2.000	.625	.620	.312	1.425	1.551	.945	.158	8745	8992	1.70
Double Pitch Conveyor Chain Oversize Roller											
C2042-SS	1.000	.625	.309	.156	.654	.701	.472	.059	2158	2698	.56
C2052-SS	1.250	.750	.370	.200	.815	.874	.591	.079	3417	4788	.85
C2062H-SS	1.500	.875	.495	.234	1.150	1.244	.709	.118	4878	6744	1.39
C2082H-SS	2.000	1.125	.620	.312	1.425	1.551	.945	.158	8745	8992	2.40

Standard Pitch Drive Chain

Double Pitch Drive Chain

Double Pitch Conveyor Chain


HLU ANSI Chain No.	Pitch	Roller Diameter	Width between Inner Plates	Pin Diameter	Pin Length		Inner Plate Depth	Plate Thickness	Minimum Ultimate Tensile Strength	Average Tensile Strength	Weight
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T	lbs	lbs	lbs/ft
	in.	in.	in.	in.	in.	in.	in.	in.			
Standard Pitch Drive Chain											
*35-NP	.3750	0.2000	.1843	.1409	.4882	.5100	.3425	.0512	1758	2338	.22
41-NP	.5000	.3059	.2461	.1409	.5413	.6299	.3902	.0492	1500	2653	.27
40-NP	.5000	.3130	.3091	.1559	.6535	.7520	.4752	.0591	3125	4001	.42
50-NP	.6250	.4000	.3701	.2000	.8150	.9173	.5941	.0811	4880	6294	.70
60-NP	.7500	.4689	.4949	.2339	1.0197	1.1260	.7118	.0961	7030	8767	1.01
80-NP	1.0000	.6252	.6201	.3118	1.2874	1.4961	.9500	.1283	12500	16073	1.75
Double Pitch Drive Chain											
A2040-NP	1.000	.313	.309	.156	.701	.854	.475	.059	3125	3844	.28
A2050-NP	1.250	.400	.370	.200	.858	1.020	.594	.081	4880	6294	.49
A2060-NP	1.500	.469	.495	.234	1.059	1.240	.712	.096	7030	8767	.69
Double Pitch Conveyor Chain											
C2040-NP	1.000	.313	.309	.156	.701	.854	.475	.059	3125	4001	.34
C2050-NP	1.250	.400	.370	.200	.858	1.020	.594	.081	4880	6294	.52
C2060H-NP	1.500	.469	.495	.234	1.177	1.358	.712	.128	7030	8767	.97
C2080H-NP	2.000	.625	.620	.312	1.441	1.654	.950	.158	12500	16073	1.70

* Chain is rollerless. Bushing diameter shown.



A-1 attachment



WSA-2 attachment



SA-2 attachment



K-1 attachment



D-1 attachment



SK-2 attachment



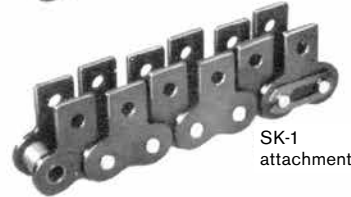
SA-1 attachment



D-3 attachment



GK-1 attachment



SK-1 attachment



A-2 attachment



D-1 attachment



WA-2 attachment



K-2 attachment



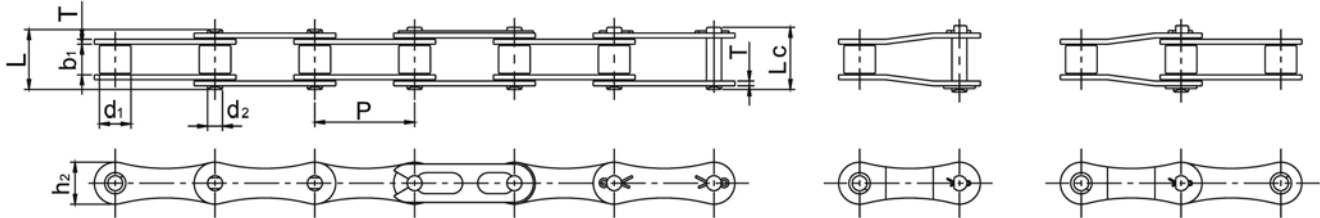
D-3 attachment

TYPE		DESCRIPTION
A	A-1 A-2	One-side bent lug on links. One hole in lug. Two holes in lug.
K	K-1 K-2	Both-side bent lug on links. One hole in lug. Two holes in lug.
SA	SA-1 SA-2	One-side vertical lug on links. One hole in lug. Two holes in lug.
SK	SK-1 SK-2	Both-side vertical lug on links. One hole in lug. Two holes in lug.
WA	WA-1 WA-2	One-side wide bent lug on links. One hole in lug. Two holes in lug.
WK	WK-1 WK-2	Both-side wide bent lug on links. One hole in lug. Two holes in lug.
WSA	WSA-1 WSA-2	One-side wide vertical lug on links. One hole in lug. Two holes in lug.
WSK	WSK-1 WSK-2	Both-side wide vertical lug on links. One hole in lug. Two holes in lug.
GK	GK-1 GK-2	Attachment hole in pin and roller link. One hole. Two holes.
D	D-1 D-3	One-side extended pins. One pin extended. Both pin extended.

HI-LIGHT USA DOUBLE PITCH DRIVE CHAIN

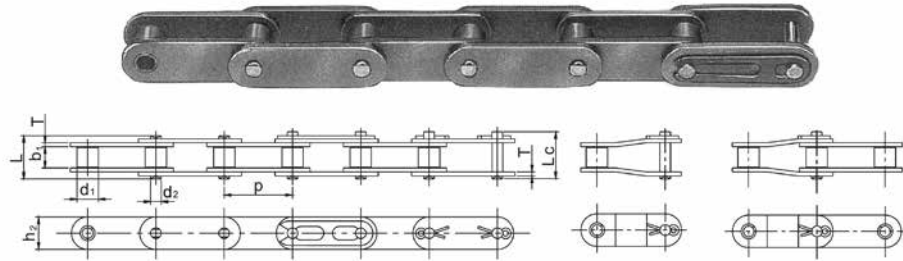
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Enduroline Series • ANSI Precision Roller Chain

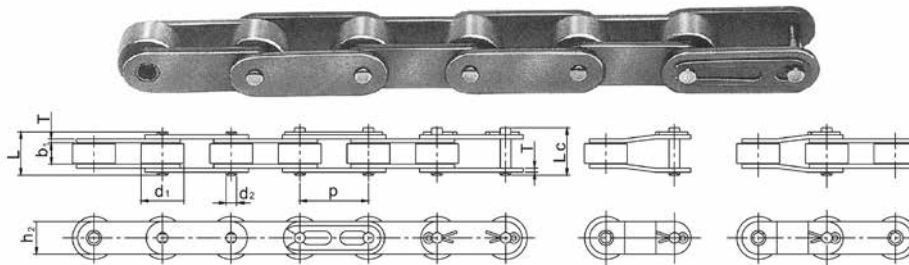


HLU ANSI Chain No.	Pitch	Roller Diameter	Width between Inner Plates	Pin Diameter	Pin Length		Inner Plate Depth	Plate Thickness	Minimum Ultimate Tensile Strength	Average Tensile Strength	Weight
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T	lbs	lbs	lbs/ft
	in.	in.	in.	in.	in.	in.	in.	in.			
A2040	1.000	.313	.309	.156	.701	.854	.475	.059	3125	3844	.28
A2050	1.250	.400	.370	.200	.858	1.020	.594	.081	4880	6294	.49
A2060	1.500	.469	.495	.234	1.059	1.240	.712	.096	7030	8767	.69
A2080	2.000	.625	.620	.312	1.319	1.531	.950	.128	12,500	16073	1.14
A2100	2.500	.750	.744	.375	1.618	1.858	1.188	.158	19,530	22930	1.71

Standard Roller Type



Oversized Roller Type



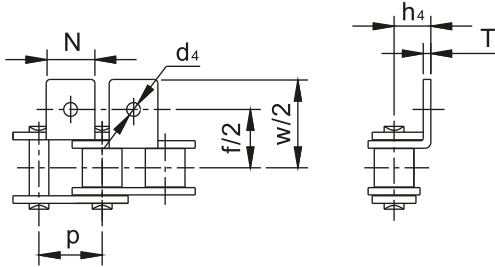
HLU ANSI Chain No.	Pitch	Roller Diameter	Width between Inner Plates	Pin Diameter	Pin Length		Inner Plate Depth	Plate Thickness	Minimum Ultimate Tensile Strength	Average Tensile Strength	Weight
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T	lbs	lbs	lbs/ft
	in.	in.	in.	in.	in.	in.	in.	in.			
C2040 C2042	1.0000	.3130 .6252	.3091	.1559	.7008	.8543	.4752	.0591	3125	4001	.34 .56
C2050 C2052	1.2500	.4000 .7500	.3701	.2000	.8583	1.0197	.5941	.0811	4880	6294	.49 .85
C2060 C2062	1.5000	.4689 .8752	.4949	.2339	1.0591	1.2402	.7118	.0961	7030	8767	.75 1.08
C2060H C2062H	1.5000	.4689 .8752	.4949	.2339	1.1772	1.3583	.7118	.1283	7030	8767	.97 1.39
C2080 C2082	2.0000	.6252 1.1252	.6201	.3118	1.3189	1.5315	.9500	.1283	12500	16073	1.40 2.10
C2080H C2082H	2.0000	.6252 1.1252	.6201	.3118	1.4409	1.6535	.9500	.1575	12500	16073	1.71 2.41
C2100 C2102	2.5000	.7500 1.5618	.7441	.3752	1.6299	1.8583	1.1882	.1575	19530	22930	2.02 3.25
C2100H C2102H	2.5000	.7500 1.5618	.7441	.3752	1.7362	1.9764	1.1882	.1890	19530	22930	2.39 3.62
C2120 C2122	3.0000	.8752 1.7500	.9929	.4370	1.9803	2.1378	1.4055	.1890	28125	35271	3.13 5.15
C2120H C2122H	3.0000	.8752 1.7500	.9929	.4370	2.1063	2.2638	1.4055	.2224	28125	35271	3.53 5.55
C2160 C2162	4.0000	1.1252 2.2500	1.2500	.5618	2.5512	2.7402	1.8819	.2539	50000	60629	5.48 8.74
C2160H C2162H	4.0000	1.1252 2.2500	1.2500	.5618	2.6850	2.8740	1.8819	.2854	50000	60629	6.09 8.58

Oversize Roller Type has a number "2" at the end of the part number.



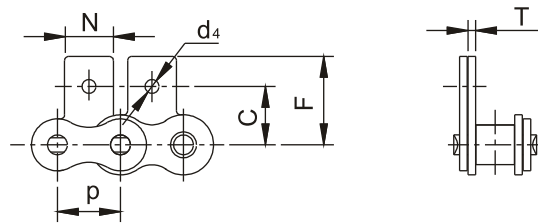
A-1

Bent, One Hole, One Side



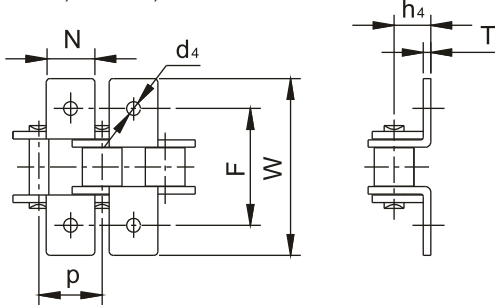
SA-1

Bent, One Hole, One Side



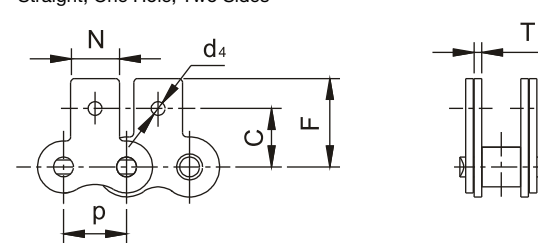
K-1

Bent, One Hole, Two Sides



SK-1

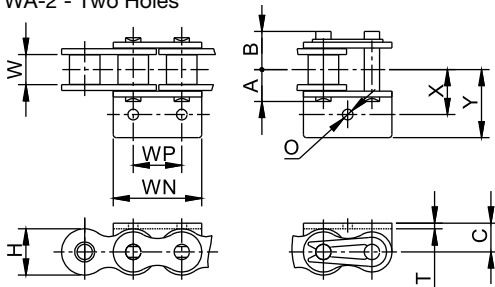
Straight, One Hole, Two Sides



HLU ANSI Chain No.	P	T	d4	f	W	h4	C	F	N
	in.	in.	in.	in.	in.	in.	in.	in.	in.
40	.5000	.0591	.1417	1.0000	1.3425	.3126	.5000	0.6811	.3740
50	.6250	.0811	.2126	1.2500	1.7520	.4055	.6260	0.8780	.5000
60	.7500	.0961	.2047	1.5000	2.1417	.4685	.7185	1.0354	.6260
80	1.0000	.1283	.2677	2.0000	2.7717	.6260	.9685	1.3465	.7520
100	1.2500	.1575	.3425	2.5000	3.5197	.7815	1.2500	1.7559	1.0000
120	1.5000	.1890	.4055	3.0000	4.1339	.9055	1.4390	2.0039	1.1260
140	1.7500	.2205	.4488	3.5000	4.8425	1.1260	1.7520	2.4409	1.3740
160	2.0000	.2520	.5157	4.0000	5.6220	1.2520	2.0000	2.3563	1.5000

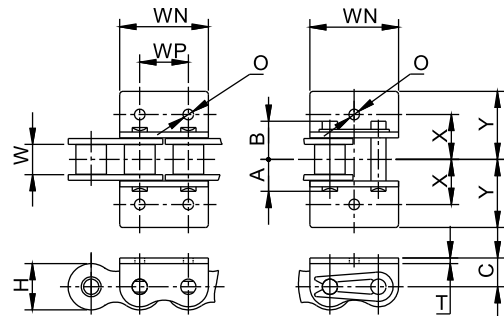
Bent, One Side

WA-1 - One Hole
WA-2 - Two Holes



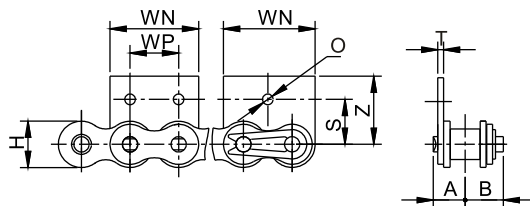
Bent, Two Sides

WK-1 - One Hole
WK-2 - Two Holes



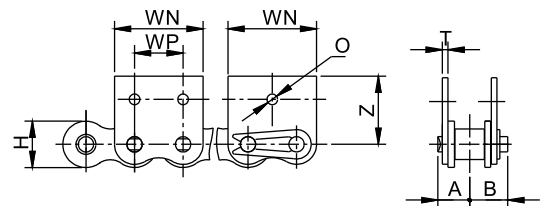
Straight, One Side

WSA-1 - One Hole
WSA-2 - Two Holes



Straight, One Side

WSK-1 - One Hole
WSK-2 - Two Holes



HLU ANSI Chain No.	Pitch	Width between Inner Plates	A of pin length	B of pin length	Plate Thickness	Inner plate Depth	Minimum Ultimate Tensile Strength
	P	b1 min	A max	B max	T	H max	lbs
	in.	in.	in.	in.	in.	in.	
35	.3750	.1843	.2421	.3209	.0512	.3425	1760
40	.5000	.3091	.3268	.3917	.0591	.4752	3125
50	.6250	.3701	.4035	.4795	.0811	.5941	4880
60	.7500	.4949	.5039	.5787	.0961	.7118	7030
C60H	.7500	.4949	.5748	.6496	.1283	.7118	7030
80	1.0000	.6201	.6476	.7067	.1283	.9500	12500
120	1.5000	.9929	1.0000	1.1063	.1890	1.4252	28125

HLU ANSI Chain No.	Dimension Chart							
	WN	WP	O	C	X	Y	S	Z
	in.	in.	in.	in.	in.	in.	in.	in.
35	.7142	-	.1339	-	-	-	.3740	.5433
40	.9606	.3740	.1772	.3110	.5000	.6850	.5000	.6811
*50	1.2008	.4685	.2165/.2598	.4055	.6260	.8772	-	-
60	1.4409	.5630	.2598	.4685	.7500	1.0709	-	-
C60H	1.4626	-	.3543	.5906	.8268	1.1417	-	-
80	1.9055	.7520	.3543	.6260	1.0000	1.3858	-	-
120	2.7236	-	.4055	.9055	1.5000	2.1969	-	-

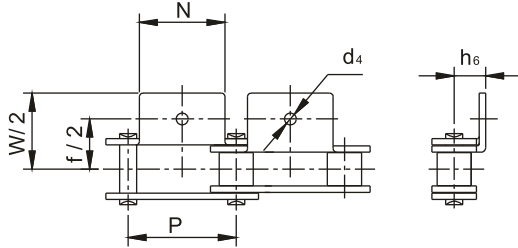
*Hole "O" diameter 0.2598 indicates only one hole.

HI-LIGHT USA DOUBLE PITCH ROLLER CHAIN ATTACHMENTS

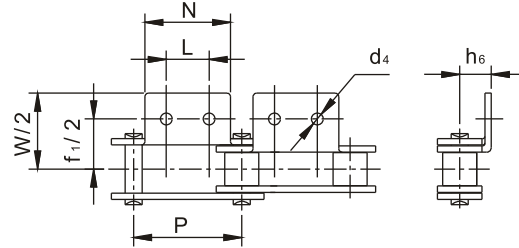
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Enduroline Series • ANSI Precision Roller Chain • Bent Lug

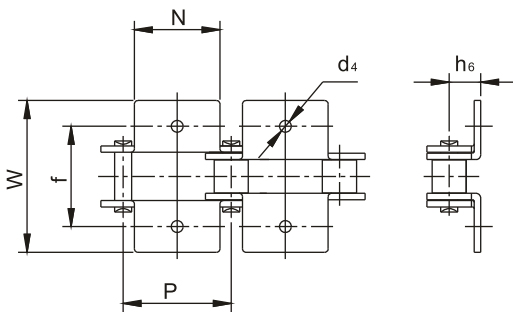
A-1
Bent, One Hole, One Side



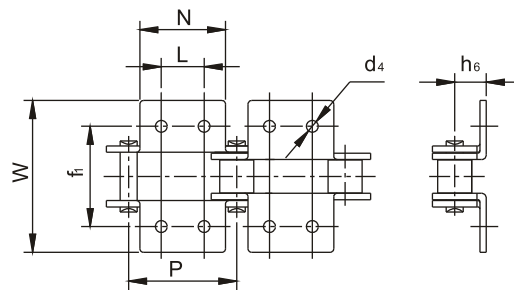
A-2
Bent, Two Holes, One Side



K-1
Bent, One Hole, Two Sides



K-2
Bent, Two Holes, Two Sides

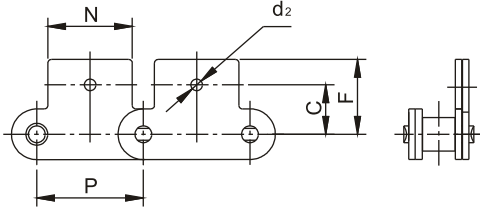


HLU ANSI Chain No.	P	f	f1	W	h6	d4	L	N
	in.	in.	in.	in.	in.	in.	in.	in.
C2040 C2042	1.0000	1.0000	1.0000	1.5039	.3583	.1417	.3740	.7520
C2050 C2052	1.2500	1.2520	1.2520	1.8819	.4370	.2047	.4685	.9370
C2060 C2062	1.5000	1.6890	1.6890	2.5118	.5787	.2165	.5630	1.1260
C2060H C2062H	1.5000	1.6890	1.6890	2.5118	.5787	.2047	.5610	1.1260
C2080 C2082	2.0000	2.1890	2.1890	3.4567	.7520	.2598	.7520	1.5000
C2080H C2082H	2.0000	2.1890	2.1890	3.4567	.7520	.2677	.7500	1.5000
C2100 C2102	2.5000	2.6220	2.6220	4.2323	.9213	.3307	.9370	1.8740
C2100H C2102H	2.5000	2.6220	2.6220	4.2323	.9213	.3307	.9370	1.8740
C2120H C2122H	3.0000	3.1220	3.1220	4.7795	1.0945	.4055	1.1260	2.2520



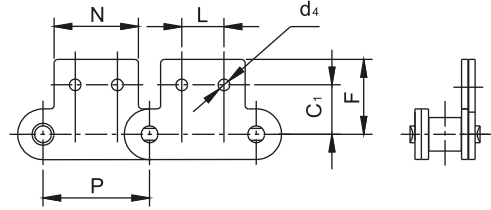
SA-1

Straight, One Hole, One Side



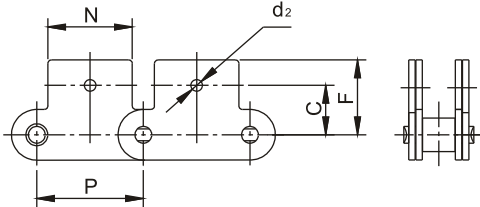
SA-2

Straight, Two Holes, One Side



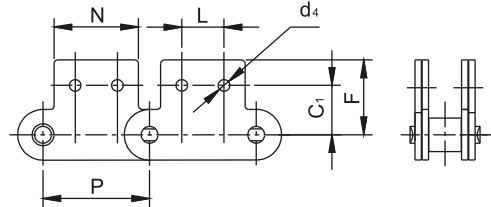
SK-1

Straight, One Hole, Two Sides



SK-2

Straight, Two Holes, Two Sides

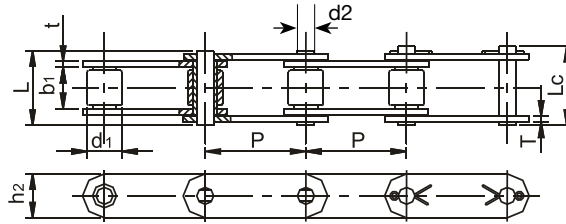


HLU ANSI Chain No.	P	C	C1	F	d2	d4	L	N
	in.	in.	in.	in.	in.	in.	in.	in.
C2040 C2042	1.0000	.4370	.5315	.7795	.2047	.1417	.3740	.7520
C2050 C2052	1.2500	.5610	.6260	.9488	.2677	.2047	.4685	.9370
C2060 C2062	1.5000	.6890	.7520	1.2953	.3622	.2165	.5630	1.1260
C2060H C2062H	1.5000	.6890	.7500	1.2421	.3425	.2047	.5610	1.1260
C2080 C2082	2.0000	.8740	1.0000	1.7126	.4331	.2598	.7520	1.5000
C2080H C2082H	2.0000	.8740	1.0000	1.5866	.4331	.2677	.7500	1.5000
C2100 C2102	2.5000	1.1260	1.2520	1.9843	.5118	.3307	.9370	1.8740
C2100H C2102H	2.5000	1.1260	1.2520	1.9843	.5118	.3307	.9370	1.8740



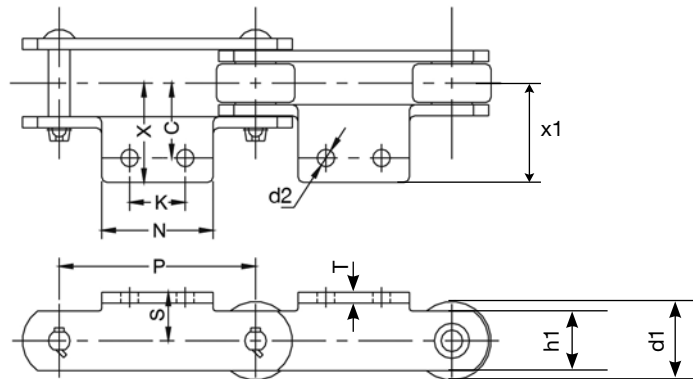
LUMBER CONVEYOR & MSR SERIES CHAIN

Enduroline Series • ANSI Precision Roller Chain



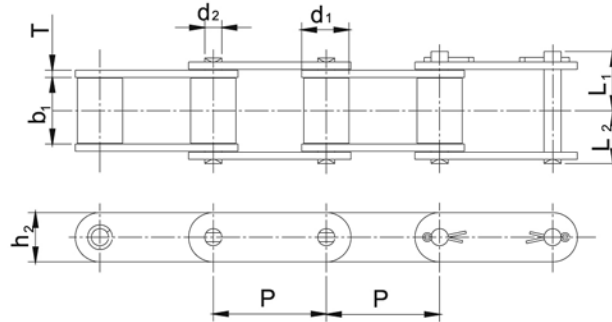
LUMBER CONVEYOR CHAIN

HLU ANSI Chain No.	Pitch	Roller Diameter	Width between Inner Plates	Pin diameter	Pin length		Inner Plate Depth	Plate Thickness		Minimum Ultimate Tensile Strength lbs	Average Tensile Strength lbs	Weight lbs/ft
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	t max	T max			
	in.	in.	in.	in.	in.	in.	in.	in.	in.			
81X	2.609	0.9055	1.063	.4370	1.9291	2.0472	1.1220	.1535	.1535	23986	28977	2.47
81XH	2.609	0.9055	1.063	.4370	2.3307	2.4488	1.2362	.2953	.2205	34170	41003	3.75
81XHH	2.609	0.9055	1.063	.4370	2.4882	2.6378	1.2362	.2953	.2953	41970	50364	4.15



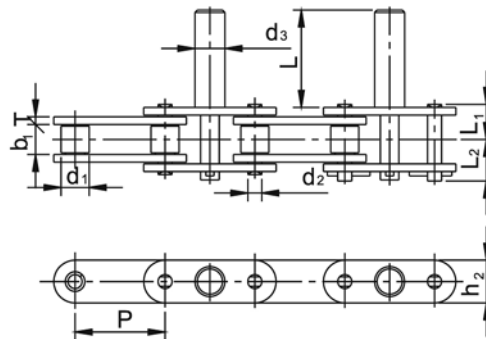
MSR SERIES CHAIN

HLU ANSI Chain No.	Pitch	Attachment Dimension										Average Ultimate Strength lbs	Maximum Working Load lbs	Weight lbs/ft
	P	S	C	d1	X	x1	h1	K	N	T	d2			
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.			
MSR6018 w/A2TH	6.00	1.25	2.00	2.00	2.53	2.50	1.25	2.00	3.00	.25	5/16-18 UNC	18000	2500	5.10



CONVEYOR CHAIN

HLU ANSI Chain No.	Pitch	Roller Diameter	Width Between Inner Plates	Pin Dimension			Plate Thickness	Inner Plate Depth	Minimum Ultimate Tensile Strength	Weight
	P	d1	b1	d2	L1	L2	T	h2	lbs	lbs/ft
	in.	in.	in.	in.	in.	in.	in.	in.		
CA550	1.6300	.6560	.7953	.2815	.8209	.6831	.1063	.7559	11244	1.31
CA557	1.6300	.7000	.7969	.3150	.8590	.7280	.1220	.9094	12500	1.75

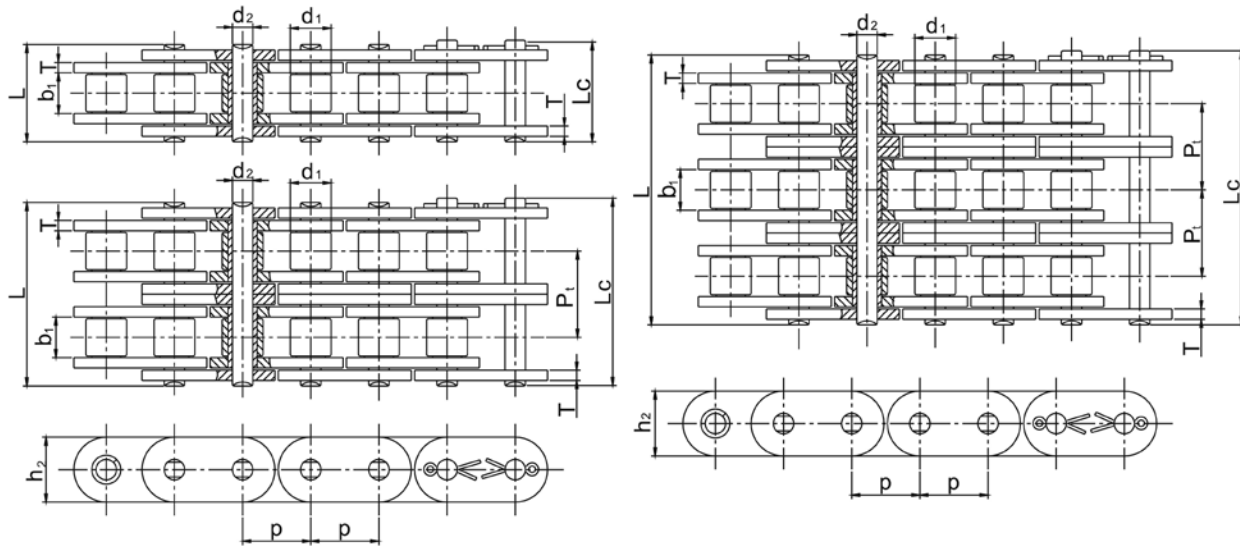


CHAINS FOR CITRUS HARVEST

HLU ANSI Chain No.	Pitch	Roller Diameter	Pin Diameter	Attachment Pin Diameter	Width Between Inner Plates	Plate Thickness	Inner Plate Depth	Attachment Pin Length	Pin Length	
	P	d1	d2	d3	b1	T	h2	L	L1	L2
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
C2060H w/D5 1/2"	1.5000	.4689	.2339	.5000	.4949	.1260	.7118	1.6220	.5886	.7697
C2060H w/D5 5/16"	1.5000	.4689	.2339	.5622	.4949	.1260	.7118	1.6220	.5886	.7697

STANDARD PITCH CHAIN - STRAIGHT SIDE PLATES

Enduroline Series • ANSI Precision Roller Chain



HLU ANSI Chain No.	Pitch	Roller Diameter	Width Between Inner Plates	Pin Diameter	Pin Length		Inner Plate Depth	Transverse Pitch	Plate Thickness	Minimum Ultimate Tensile Strength	Average Tensile Strength	Weight
	P	d1 max	b1 min	d2 max	L max	Lc max	h2 max	Pt	T	lbs	lbs	lbs/ft
	in.	in.	in.	in.	in.	in.	in.	in.	in.			
C40	.5000	.3130	.3091	.1559	.6535	.7402	.4724	-	.0591	3125	3822	.49
C50	.6250	.4000	.3701	.2000	.8150	.9173	.5941	-	.0811	4880	5935	.83
C60	.7500	.4689	.4949	.2339	1.0197	1.1142	.7087	-	.0961	7030	8722	1.20
C80	1.0000	.6252	.6201	.3118	1.2874	1.4370	0.9449	-	.1283	12500	14590	2.08
C100	1.2500	.7500	.7441	.3752	1.5906	1.7598	1.1811	-	.1575	19530	22885	3.06
C120	1.5000	.8752	.9929	.4370	1.9803	2.1378	1.4055	-	.1890	28125	33046	4.61
C140	1.7500	1.0000	.9929	.5000	2.1417	2.3228	1.6142	-	.2189	38280	44443	5.71
C160	2.0000	1.1252	1.2421	.5618	2.5512	2.7402	1.8819	-	.2539	50000	58493	7.73
C40-2	.5000	.3130	.3091	.1559	1.2205	1.3071	.4724	.5661	.0591	6250	7553	0.96
C50-2	.6250	.4000	.3701	.2000	1.5315	1.6299	.5941	.7130	.0811	9760	12454	1.63
C60-2	.7500	.4689	.4949	.2339	1.9213	2.0118	.7087	.8969	.0961	14060	18703	2.37
C80-2	1.0000	.6252	.6201	.3118	2.4685	2.5906	.9449	1.1531	.1283	25000	31472	4.11
C100-2	1.2500	.7500	.7441	.3752	3.0079	3.1693	1.1811	1.4079	.1575	39060	45612	6.10
C120-2	1.5000	.8752	.9929	.4370	3.7717	3.9252	1.4055	1.7890	.1890	56250	65507	9.14
C140-2	1.7500	1.0000	.9929	.5000	4.0669	4.2480	1.6142	1.9240	.2224	76560	88908	11.33
C160-2	2.0000	1.1252	1.2421	.5618	4.8543	5.0433	1.8819	2.3051	.2539	100000	116986	15.39
C40-3	.5000	.3130	.3091	.1559	1.7874	1.8740	.4724	.5661	.0591	9375	11240	1.44
C50-3	.6250	.4000	.3701	.2000	2.2441	2.3425	.5941	.7130	.0811	14640	17489	2.43
C60-3	.7500	.4689	.4949	.2339	2.8150	2.9094	.7087	.8969	.0961	21090	24975	3.55
C80-3	1.0000	.6252	.6201	.3118	3.6102	3.7441	.9449	1.1531	.1283	37500	44600	6.11
C100-3	1.2500	.7500	.7441	.3752	4.4173	4.5787	1.1811	1.4079	.1575	58590	69598	9.14
C120-3	1.5000	.8752	.9929	.4370	5.5669	5.7165	1.4055	1.7890	.1890	84375	98283	13.73
C140-3	1.7500	1.0000	.9929	.5000	5.9921	6.1732	1.6142	1.9240	.2189	114840	133374	16.95
C160-3	2.0000	1.1252	1.2421	.5618	7.1575	7.3465	1.8819	2.3051	.2539	150000	175479	22.97



Shaft Collars



Hi-Light USA offers a line of high quality Shaft collars in Solid, Single split and Double split design.

Our standard material is C1020 and 304 Stainless Steel. Other materials are available by special order.

The Solid collars feature a Zinc plated finish and black oxide knurled cup point set screw. Stainless Steel collars have a stainless steel set screw and the Split collars feature a black oxide finish and heavy duty cap screw.

All set screws and cap screws are grade 12.9.

We also offer replacement eccentric collars designed to fit our eccentric locking collar Insert Bearings.

We stock large quantities of all these collars in our Memphis, TN facility. Refer to the preceding pages for product dimensions.

Hi-Light USA can also build shaft collars and couplings to your design and finish. Please contact our sales staff for a quote.

SOLID SHAFT COLLARS

ZINC PLATED & STAINLESS STEEL

C1020 Steel Zinc Plated & 304 Stainless Steel • Grade 12.9 Set Screws


Zinc Plated



Stainless Steel

HLU Part No.		Dimensions (inches)				HLU Part No.		Dimensions (inches)			
Zinc Plated	Stainless Steel	Bore	OD	Width	Set Screw Size	Zinc Plated	Stainless Steel	Bore	OD	Width	Set Screw Size
SC002	SC002SS	1/8	0.355	0.250	6-32x1/8	SC112	SC112SS	1-3/4	2.720	0.875	1/2-13x1/2
SC003	SC003SS	3/16	0.418	0.250	8-32x1/8	SC113	SC113SS	1-13/16	2.720	0.875	1/2-13x1/2
SC004	SC004SS	1/4	0.480	0.281	10-32x1/8	SC114	SC114SS	1-7/8	2.720	0.875	1/2-13x1/2
SC005	SC005SS	5/16	0.605	0.313	10-32x1/8	SC115	SC115SS	1-15/16	2.975	0.875	1/2-13x1/2
SC006	SC006SS	3/8	0.730	0.375	1/4-20x3/16	SC200	SC200SS	2	2.975	0.875	1/2-13x1/2
SC007	SC007SS	7/16	0.855	0.437	1/4-20x1/4	SC202	SC202SS	2-1/8	2.975	0.875	1/2-13x1/2
SC008	SC008SS	1/2	0.980	0.437	1/4-20x1/4	SC203	SC203SS	2-3/16	3.225	0.937	1/2-13x1/2
SC009	SC009SS	9/16	0.980	0.437	1/4-20x1/4	SC204	SC204SS	2-1/4	3.225	0.937	1/2-13x1/2
SC010	SC010SS	5/8	1.105	0.500	5/16-18x1/4	SC205	SC205SS	2-5/16	3.225	0.937	1/2-13x1/2
SC011	SC011SS	11/16	1.230	0.562	5/16-18x1/4	SC206	SC206SS	2-3/8	3.225	0.937	1/2-13x1/2
SC012	SC012SS	3/4	1.230	0.562	5/16-18x1/4	SC207	SC207SS	2-7/16	3.470	1.000	1/2-13x1/2
SC013	SC013SS	13/16	1.480	0.562	5/16-18x1/4	SC208	SC208SS	2-1/2	3.470	1.000	1/2-13x1/2
SC014	SC014SS	7/8	1.480	0.562	5/16-18x5/16	SC209	SC209SS	2-9/16	3.720	1.125	1/2-13x9/16
SC015	SC015SS	15/16	1.605	0.562	5/16-18x5/16	SC210	SC210SS	2-5/8	3.720	1.125	1/2-13x9/16
SC100	SC100SS	1	1.605	0.625	5/16-18x5/16	SC211	SC211SS	2-11/16	3.970	1.125	1/2-13x5/8
SC101	SC101SS	1-1/16	1.730	0.625	5/16-18x5/16	SC212	SC212SS	2-3/4	3.970	1.125	1/2-13x5/8
SC102	SC102SS	1-1/8	1.730	0.625	5/16-18x5/16	SC213	SC213SS	2-13/16	3.970	1.125	1/2-13x5/8
SC103	SC103SS	1-3/16	1.975	0.687	3/8-16x3/8	SC214	SC214SS	2-7/8	4.220	1.125	1/2-13x5/8
SC104	SC104SS	1-1/4	1.975	0.687	3/8-16x3/8	SC215	SC215SS	2-15/16	4.220	1.125	1/2-13x5/8
SC105	SC105SS	1-5/16	2.100	0.687	3/8-16x3/8	SC300	SC300SS	3	4.220	1.125	1/2-13x5/8
SC106	SC106SS	1-3/8	2.100	0.750	3/8-16x3/8	SC303	SC303SS	3-3/16	4.220	1.125	1/2-13x5/8
SC107	SC107SS	1-7/16	2.225	0.750	3/8-16x3/8	SC307	SC307SS	3-7/16	4.470	1.125	1/2-13x5/8
SC108	SC108SS	1-1/2	2.225	0.813	3/8-16x3/8	SC315	SC315SS	3-15/16	4.970	1.125	1/2-13x5/8
SC109	SC109SS	1-9/16	2.480	0.813	3/8-16x3/8	SC407	SC407SS	4-7/16	5.970	1.375	5/8-11x3/4
SC110	SC110SS	1-5/8	2.480	0.813	3/8-16x3/8	SC415	SC415SS	4-15/16	6.400	1.375	5/8-11x3/4
SC111	SC111SS	1-11/16	2.480	0.813	3/8-16x3/8						

**SINGLE SPLIT & DOUBLE SPLIT SHAFT COLLARS****C1020 Steel • Black Oxide Finish • Grade 12.9 Cap Screws****Double Split****Single Split**

HLU Part No.		Dimensions (inches)				HLU Part No.		Dimensions (inches)			
Single Split	Double Split	Bore	OD	Width	Cap Screw Size	Single Split	Double Split	Bore	OD	Width	Cap Screw Size
SSC002	DSC002	1/8	1/2	1/4	4-40x3/8	SSC112	DSC112	1-3/4	2-3/4	11/16	5/16-24x7/8
SSC003	DSC003	3/16	5/8	5/16	4-40x3/8	SSC113	DSC113	1-13/16	2-7/8	11/16	5/16-24x7/8
SSC004	DSC004	1/4	11/16	5/16	4-40x3/8	SSC114	DSC114	1-7/8	2-7/8	11/16	5/16-24x7/8
SSC005	DSC005	5/16	11/16	5/16	4-40x3/8	SSC115	DSC115	1-15/16	3	11/16	5/16-24x7/8
SSC006	DSC006	3/8	7/8	11/32	6-32x3/8	SSC200	DSC200	2	3	11/16	5/16-24x7/8
SSC007	DSC007	7/16	15/16	3/8	6-32x3/8	SSC201	DSC201	2-1/16	3-1/8	3/4	5/16-24x7/8
SSC008	DSC008	1/2	1-1/8	13/32	8-32x1/2	SSC202	DSC202	2-1/8	3-1/4	3/4	5/16-24x7/8
SSC009	DSC009	9/16	1-1/4	7/16	10-32x1/2	SSC203	DSC203	2-3/16	3-1/4	3/4	5/16-24x7/8
SSC010	DSC010	5/8	1-5/16	7/16	10-32x1/2	SSC204	DSC204	2-1/4	3-1/4	3/4	5/16-24x7/8
SSC011	DSC011	11/16	1-3/8	7/16	10-32x1/2	SSC205	DSC205	2-5/16	3-3/8	3/4	5/16-24x7/8
SSC012	DSC012	3/4	1-1/2	1/2	1/4-28x5/8	SSC206	DSC206	2-3/8	3-1/2	3/4	5/16-24x7/8
SSC013	DSC013	13/16	1-5/8	1/2	1/4-28x5/8	SSC207	DSC207	2-7/16	3-1/2	3/4	5/16-24x7/8
SSC014	DSC014	7/8	1-5/8	1/2	1/4-28x5/8	SSC208	DSC208	2-1/2	3-3/4	7/8	3/8-24x7/8
SSC015	DSC015	15/16	1-3/4	1/2	1/4-28x5/8	SSC209	DSC209	2-9/16	3-7/8	7/8	3/8-24x7/8
SSC100	DSC100	1	1-3/4	1/2	1/4-28x5/8	SSC210	DSC210	2-5/8	3-7/8	7/8	3/8-24x7/8
SSC101	DSC101	1-1/16	1-7/8	1/2	1/4-28x5/8	SSC211	DSC211	2-11/16	4	7/8	3/8-24x7/8
SSC102	DSC102	1-1/8	1-7/8	1/2	1/4-28x5/8	SSC212	DSC212	2-3/4	4	7/8	3/8-24x7/8
SSC103	DSC103	1-3/16	2-1/16	1/2	1/4-28x5/8	SSC213	DSC213	2-13/16	4-1/4	7/8	3/8-24x7/8
SSC104	DSC104	1-1/4	2-1/16	1/2	1/4-28x5/8	SSC214	DSC214	2-7/8	4-1/4	7/8	3/8-24x7/8
SSC105	DSC105	1-5/16	2-1/8	9/16	1/4-28x5/8	SSC215	DSC215	2-15/16	4-1/4	7/8	3/8-24x7/8
SSC106	DSC106	1-3/8	2-1/4	9/16	1/4-28x5/8	SSC300	DSC300	3	4-1/4	7/8	3/8-24x7/8
SSC107	DSC107	1-7/16	2-1/4	9/16	1/4-28x5/8	SSC303	DSC303	3-3/16	4-1/2	7/8	3/8-24x7/8
SSC108	DSC108	1-1/2	2-3/8	9/16	1/4-28x5/8	SSC307	DSC307	3-7/16	4-3/4	7/8	3/8-24x7/8
SSC109	DSC109	1-9/16	2-3/8	9/16	1/4-28x5/8	SSC308	DSC308	3-1/2	4-3/4	7/8	3/8-24x7/8
SSC110	DSC110	1-5/8	2-5/8	11/16	5/16-24x7/8	SSC313	DSC313	3-13/16	5-1/16	7/8	3/8-24x7/8
SSC111	DSC111	1-11/16	2-3/4	11/16	5/16-24x7/8	SSC315	DSC315	3-15/16	5-1/4	7/8	3/8-24x7/8



Hi-Light USA

MANUFACTURERS OF HIGH-QUALITY BALL BEARINGS AND POWER TRANSMISSION PARTS

Other HLU Products Available from Stock



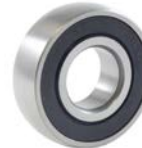
NAA204-12 3/4" & NAA207-20 1 1/4" Insert Bearings
Flat OD, Non-Relube



6203-2RS & 6205-2RS Electric Motor Quality Radial Ball Bearings



Stainless Steel Inserts SSA205-16G & SSB205-16HG
Regreasable, 1" Bore



SC203-2RS 17mm Bore Ball Bearing-Spherical OD



H-Series Pillow Block Units
Interchanges dimensionally with Dodge SC



Eccentric Locking Collars for Inserts



SB200-HG Insert
Interchanges dimensionally with Dodge SC



Garage Door Roller Chain & Parts for #41 & #65 Chains



Tapered Roller Bearings



Zerk Fittings • Plastic & Metal Housing Plugs
1/4-28 UNF & 5/16-24 UNF Square Head Bolts • Set Screws



Flush Mount 2-Bolt Flange Units 3/4" Bore
Eccentric or Set Screw Locking

Other HLU Products Available by Special Order



Spherical Roller Bearings



Polyurethane Wheels



Nickel Plated Housings



Stainless Steel Flanges



Needle Bearings



Special Housings



Steel Balls



Engineering Data

TIGHTENING TORQUE

Recommended tightening torque for set screws

Set Screw Size (inch)	Set Screw Size (metric)	Torque (inch - lbs.)		HEX Cap Size
		Recommended	maximum	
10 - 32 UNF	M5 X 0.8	36	44	3/32
1/4 - 28 UNF	M6 X 0.75	65	75	1/8
5/16 - 24 UNF	M8 X 1.0	148	177	5/32
3/8 - 24 UNF	M10 X 1.25	269	350	3/16
7/16 - 20 UNF	M12 X 1.5	354	460	7/32
1/2 - 20 UNF	-	479	575	1/4

Recommendations are for grade 9.8 knurled cup point set screws supplied by HLU and used in HLU bearings.

Recommended tightening torque for cap screws on H-Locking Collar Units

Cap Screw Size (inch)	Torque (inch - lbs.)	HEX Cap Size
	Recommended	
8-32 UNC	70	9/64
10-32 UNF	90	5/32
1/4-28 UNF	180	3/16
5/16-24 UNF	400	1/4

Recommendations are for grade 12.9 cap screws supplied by HLU.

Recommended tightening torque for Adapter sleeve (UK type)

Bore	mm	20	25	30	35	40	45	50	55	60	65	70	75
		inch	3/4	7/8	1 1/8	1 1/4	1 7/16	1 11/16	1 7/8	2 1/8	2 3/16	2 7/16	2 11/16
Torque	Nm	25	30	40	50	60	75	100	130	150	170	200	230
	lbf inch	220	265	355	440	530	660	885	1150	1325	1500	1770	2030

BEARING LOAD RATINGS AND LIFE CALCULATIONS

Bearing Life

The life of an individual rolling bearing is the number of revolutions in which one of the bearing rings raceway makes in relation to the other rings raceway before the first evidence of material fatigue develops in one ring or rolling elements.

The L_{10} or "rating Life" of a group of identical bearings is defined as the number of revolutions (or hours at a given constant speed) that 90% of the group of bearings will complete or exceed before the first evidence of fatigue develops.

Basic Dynamic radial load rating- Constant stationary radial load which a rolling bearing can theoretically endure for a basic rating life of one million revolutions. Pure radial load for radial bearings is expressed as "Cr", which can be found in the bearing catalog pages. The equations below define the relationship between basic rating life, basic dynamic load rating, and the bearing load to calculate the L_{10} life.

$$\text{For Ball Bearings } L_{10} = \left(\frac{C_r}{P}\right)^3$$

Life can be calculated in hours if the rotational speeds are constant by the following formula:

$$L_{10h} = \left(\frac{C_r}{P}\right)^3 \cdot \frac{16,667}{n}$$

Where

- L_{10} : basic rating life, in million revolutions
- L_{10h} : basic rating life , operating hours
- C_r : basic dynamic load rating (lbs. or N) $C=C_r$ for radial bearings
- P : dynamic equivalent Load (lbs. or N)
- n : speed of rotation, in revolutions per minute (RPM)

The basic rating life L_{10} or L_{10h} should be used when selecting a bearing size. If the load (P) is constant in magnitude and direction and acts radially then the load (P) can be inserted directly into formula.

Example: Determine the L_{10h} life for a 6206-2RS bearing running at 1000rpm with a radial load (P) of 300 lbf. What is L_{10h} life in hours? The bearing is running at a constant speed of 1000rpm with no axial load so values can be inserted directly into the formula. Obtain Cr value 4384(lbf) from bearing page.

$$L_{10h} = \left(\frac{C_r}{P}\right)^3 \cdot \frac{16,667}{n} = \left(\frac{4384}{300}\right)^3 \cdot \frac{16,667}{1000} = 3121 \cdot \frac{16,667}{1000} = 52,000 \text{ Hours}$$

Refer to the load rating table in this catalog to find load ratings at various rpm, based on 500 hours L10 life or 2500 hours average life.

If you need to select a bearing based on the radial load at a constant speed of rotation and you know the load "P", the speed "n" and need a specific L10h life hours, you can calculate the load from the following formula.

$$C_r = P \times ((L_{10h} \times n) / 16,667)^{1/3}$$

Example 1 – An application with a radial load P=500 lbs. and a constant speed of 1500 RPM and an L10h life of 20,000 hours is needed.

$$C_r = 500 \times ((20,000 \times 1500) / 16667)^{1/3} \quad C_r = 6082 \text{ lbs.}$$

If you look at the load rating table under 33 1/3 RPM (equal to Cr) or the bearing insert pages under load "Cr" you find a 208 outer ring bearing rated at 6636 lbs. would work for this application.

If you need to find the maximum radial load that can be applied to a bearing at a constant speed "n" of rotation then the following formula can be used.

$$P = C_r / ((L_{10h} \times n) / 16667)^{1/3}$$

Example 2 – An application with a constant speed of n=1000 RPM, a UC207-20 with a Cr=5770 lbs. is used, and 20,000 L10h hours are need.

$$P = 5770 / ((20,000 \times 1000) / 16667)^{1/3} \quad P = 543 \text{ lbs. is maximum radial load}$$

DYNAMIC EQUIVALENT LOAD

The majority of Hi-Light USA bearings are manufactured to take mostly radial loads. However they can take some thrust loads and combined radial/thrust loads. If a radial bearing is subjected to radial and an axial load simultaneously and moving in a constant magnitude and direction then a dynamic equivalent load "P" must be calculated. The following formula is used to calculate "P".

$$P = XFr + YFa$$

where

- P : dynamic equivalent load (lbs or N)
 - Fr : actual bearing radial load (lbs. or N)
 - Fa : actual bearing axial load (lbs. or N)
 - X : dynamic radial load factor
 - Y : dynamic axial load factor
 - e : axial load to radial load factor
- } (see table of X,Y)

Value of Factors X and Y for radial ball bearings

$\frac{F_a}{C_{or}}$	e	Single Row			
		$\frac{F_a}{F_r} \leq e$		$\frac{F_a}{F_r} > e$	
		X	Y	X	Y
0.014	0.19	1	0	0.56	2.30
0.028	0.22				1.99
0.042	0.24				1.85
0.056	0.26				1.71
0.084	0.28				1.55
0.110	0.30				1.45
0.170	0.34				1.31
0.280	0.38				1.15
0.420	0.42				1.04
0.560	0.44				1.00

The factor X and Y vary depending on $\frac{F_a}{C_{or}}$ and $\frac{F_a}{F_r}$ ratios. To determine “e” divide (Fa) actual axial load by (Cor) bearing static load. “Cor” can be found on bearing pages. Compare the result to find value in column “e”. Then divide Fa by Fr. Compare that result to “e”. Now use table above to find X and Y values for the formula $P = X Fr + Y Fa$. Once “P” is determined it can be used in the L_{10} life formula.

Example:

Use last example for 6206 bearing operating at 1000rpm, a radial load of 300lbs and now an axial load 100lbs. What is the L_{10} h life?

Step 1: Determine X and Y factors.

First find F_a/C_{or} .

$$\frac{F_a}{C_{or}} = \frac{100\text{lbs}}{2540\text{lbs}} = .04$$

Using the table above. If $F_a/C_{or} = .04$ then “e” = .24

Now find:

$$\frac{F_a}{F_r} = \frac{100\text{lbs}}{300\text{lbs}} = .33$$

$\frac{F_a}{F_r} > e$ Using the table above (X = .56 Y = 1.85)

Step 2: Calculate dynamic equivalent load (P).

$$P = X Fr + Y Fa = (.56)300\text{lbs} + (1.85)100\text{lbs} = 353\text{lbs.}$$

Step 3: Calculate L_{10} h life.

$$L_{10h} = \left(\frac{C_r}{P}\right)^3 \cdot \frac{16667}{n} = \left(\frac{4384}{353}\right)^3 \cdot \frac{16667}{1000} = \frac{1916 \cdot 16667}{1000} = 31,934 \text{ hours}$$

ADJUSTED RATING LIFE

The L_{10} or “rating Life” of a group of identical bearings is defined as the number of revolutions (or hours at a given constant speed) that 90% of the group of bearings will complete or exceed before the first evidence of fatigue develops. Some applications require a higher percentage of reliability. To determine reliability greater than 90% use the following formula to find “ L_{na} ” to adjust L_{10} life and obtain the a_1 factor from the following table.

$$L_{na} = a_1 \cdot a_2 \cdot a_3 \cdot L_{10}$$

$$L_{nh} = \frac{10^6}{60n} \cdot L_{na}$$

where

L_{na} : adjusted rating life in millions of revolutions

L_{nh} : adjusted rating life in operating hours

a_1 : reliability factor

a_2 : life correction factor for bearing material

a_3 : life correction factor for operating conditions

Values for life adjustment factor a_1

Reliability %	Failure Probability %	Rating Life L_n	Factor a_1
90	10	L_{10}	1
95	5	L_5	0.62
96	4	L_4	0.53
97	3	L_3	0.44
98	2	L_2	0.33
99	1	L_1	0.21

a_2 - This factor deals with bearing material. Since Hi-Light USA uses vacuum degassed 52100 Chrome steel for its bearings $a_2=1$ can be assumed.

a_3 - This factor takes into consideration lubrication, temperature, operation conditions, and other components which are difficult to determine. Please consult Hi-Light USA if you wish to factor these into the equation. However Mounted bearings are typically slip fitted to the shaft. In the case of a slip fit to shaft ABMA recommends a factor $a_3=0.456$.

BASIC STATIC LOAD RATING

The basic static load rating “Cor” is used to select bearing size in cases where the bearings are rotating at very slow speeds ($n < 10$ rpm), subjected to slow oscillating movements, sustains heavy shock loading or stationary.

Basic static Load rating, basic static radial load for radial bearings, refers to a fixed static load limit at which a specific amount of permanent deformation occurs. The Static load rating “Cor” in this catalog is calculated in accordance with ISO 76. The static load rating is that load at which the Hertzian stress between the rolling elements and raceways reaches the following value at the most highly loaded point.

- 4200 MPa for Ball Bearings
- 4600 MPa for self-aligning ball bearings
- 4000 MPa for roller bearings

The stress causes a permanent deformation at the contact point of 0.0001 times the rolling element diameter under normal contact conditions.

STATIC EQUIVALENT LOAD

Static loads where both axial and radial loads exist must be converted into a static equivalent load P_o . This is a hypothetical radial load for radial bearings and axial load for thrust bearings that puts a contact stress on the bearing rolling element equal to the actual loads on the bearing. Use the following equation to calculate P_o .

$$P_o = X_o F_r + Y_o F_a$$

Where

- P_o : Static equivalent load (lbs. or N)
 - F_r : actual radial load (lbs. or N)
 - F_a : actual axial load (lbs. or N)
 - X_o : radial static load factor
 - Y_o : axial static load factor
- } See table of X_o and Y_o

Values for factors X_o and Y_o				
Bearing Type	Single Row		Double Row	
	X_o	Y_o	X_o	Y_o
Deep groove ball bearing	0.6	0.5	0.6	0.50

STATIC SAFETY FACTOR

It is also important to check the safety factors of short duration load such as shock or heavy peak loads that act on a bearing. This can be determined by the following equation and static safety factors from the table below.

$$f_s = \frac{C_{or}}{P_o}$$

Where

- f_s : static safety factor (See table for f_s)
- C_{or} : basic static load rating (lbs. or N)
- P_o : static equivalent load (lbs. or N)

Values for the static safety factor f_s		
Operating Conditions	Ball Bearing	Roller Bearing
Normal	1	1.5
Vibration and Shock Loads	1.5	2
Low Noise	2	3

LOAD RATING TABLE

This table shows radial load ratings at various rpm, based on 500 hours L_{10} life or 2500 hours average life.

HLU BEARING NO.			RADIAL LOAD RATINGS AT VARIOUS RPM (LBS.)												
UC200* SERIES	HL200 SERIES	UCX SERIES	33-1/3 RPM **Cr	50 RPM	100 RPM	250 RPM	500 RPM	750 RPM	1000 RPM	1200 RPM	1500 RPM	2000 RPM	2400 RPM	3600 RPM	5000 RPM
203	-	-	2150	1880	1490	1100	872	762	692	651	605	549	520	452	405
204	204	-	2886	2520	2000	1475	1170	1022	929	874	810	737	695	605	543
205	205	-	3150	2752	2185	1610	1277	1116	1015	954	886	805	760	660	593
206	206	X05	4375	3822	3033	2235	1775	1550	1408	1325	1230	1118	1055	919	823
207	207	X06	5770	5040	3495	2948	2340	2045	1857	1747	1622	1474	1390	1212	-
208	208	X07	6636	5797	4600	3390	2690	2350	2135	2010	1866	1695	1595	1393	-
209	209	X08	7120	6220	4937	3637	2887	2522	2290	2156	2002	1819	1710	1495	-
210	210	X09	7885	6887	5465	4028	3197	2793	2537	2388	2217	2014	1895	1656	-
211	211	X10	9752	8520	6762	4982	3954	3454	3139	2953	2742	2490	2345	-	-
212	212	X11	10735	9380	7445	5485	4353	3803	3455	3251	3018	2742	2580	-	-
213	213	X12	12860	11235	8917	6570	5215	4556	4140	3895	3616	3285	3090	-	-
214	214	X13	13675	11945	9482	6985	5545	4844	4400	4142	3845	3493	3290	-	-
215	215	X14	14862	12983	10305	7593	1277	5264	4783	4500	4178	3796	3570	-	-
216	216	X15	16298	14238	11300	8325	6610	5773	5245	4936	4582	4163	-	-	-
217	217	-	18770	16397	13015	9589	7610	6649	6040	5685	5277	4795	-	-	-
218	218	X17	21580	18852	14963	11025	8750	7644	6945	6536	6067	5512	-	-	-
-	-	X20	29898	26118	20730	15275	12123	10591	9622	9055	8406	-	-	-	-

* Use UC200 load data for NA200, UK200, SER 200, SA200 and SB200 series bearings.

** This column equals basic dynamic load "Cr" for HLU bearings at 33-1/3 RPM.

INTERNAL CLEARANCE

Clearance of a rolling bearing is defined as the amount of possible displacement of one ring relative to the other in the radial or axial direction. It can be classified as the following five groups.

Internal clearance groups

Symbol	Explanation
C2	Internal clearance smaller than C0
C0	Normal internal clearance
C3	Internal clearance greater than C0
C4	Internal clearance greater than C3
C5	Internal clearance greater than C4

Electric motor bearings like deep groove ball bearings and cylindrical roller bearings require special clearances that are indicated by CM, CT.

RADIAL INTERNAL CLEARANCE VALUES

Radial internal clearance of deep groove ball bearings

.001mm

d (mm)		Radial internal clearance									
		C2		C0		C3		C4		C5	
over	incl.	min	max	min	max	min	max	min	max	min	max
10	18	0	9	3	18	11	25	18	33	25	45
18	24	0	10	5	20	13	28	20	36	28	48
24	30	1	11	5	20	13	28	23	41	30	53
30	40	1	11	6	20	15	33	28	46	40	64
40	50	1	11	6	23	18	36	30	51	45	73
50	65	1	15	8	28	23	43	38	61	55	90
65	80	1	15	10	30	25	51	46	71	65	105
80	100	1	18	12	36	30	58	53	84	75	120

Radial internal clearance of electric motor bearings

.001mm

d (mm)		Radial internal clearance					
		CM				CT	
		Deep groove ball bearing		Cylindrical roller bearing		Cylindrical roller bearing	
over	incl.	min	max	min	max	min	max
10	18	4	11	–	–	–	–
18	24	5	12	–	–	–	–
24	30	5	12	15	30	15	35
30	40	9	17	15	30	15	35
40	50	9	17	20	35	20	40
50	65	12	22	25	40	25	45
65	80	12	22	30	45	30	50
80	100	18	30	35	55	35	60
100	120	18	30	35	60	35	65

Radial internal clearance of cylindrical roller bearings with cylindrical bore

.001mm

d (mm)		Radial internal clearance									
		C2		C0		C3		C4		C5	
over	incl.	min	max	min	max	min	max	min	max	min	max
10	24	0	25	20	45	35	60	50	75	65	90
24	30	0	25	20	45	35	60	50	75	70	95
30	40	5	30	25	50	45	70	60	85	80	105
40	50	5	35	30	60	50	80	70	100	95	125
50	65	10	40	40	70	60	90	80	110	110	140
65	80	10	45	40	75	65	100	90	125	130	165
80	100	15	50	50	85	75	110	105	140	155	190
100	120	15	55	50	90	85	125	125	165	180	220
120	140	15	60	60	105	100	145	145	190	200	245

Radial internal clearance of spherical roller bearings with cylindrical bore

.001mm

d (mm)		Radial internal clearance									
		C2		C0		C3		C4		C5	
over	incl.	min	max	min	max	min	max	min	max	min	max
14	18	10	20	20	35	35	45	45	60	60	75
18	24	10	20	20	35	35	45	45	60	60	75
24	30	15	25	25	40	40	55	55	75	75	95
30	40	15	30	30	45	45	60	60	80	80	100
40	50	20	35	35	55	55	75	75	100	100	125
50	65	20	40	40	65	65	90	90	120	120	150
65	80	30	50	50	80	80	110	110	145	145	180
80	100	35	60	60	100	100	135	135	180	180	225
100	120	40	75	75	120	120	160	160	210	210	260

Radial internal clearance of bearing inserts and disc harrow bearings

.001mm

d (mm)		Radial internal clearance											
		Cylindrical bore						Tapered Bore					
		C2		C0		C3		C2		C0		C3	
over	incl.	min	max	min	max	min	max	min	max	min	max	min	max
10	18	3	18	10	25	18	33	10	25	18	33	25	45
18	24	5	20	12	28	20	36	12	28	20	36	28	48
24	30	5	20	12	28	23	41	12	28	23	41	30	53
30	40	6	20	13	33	28	46	13	33	28	46	40	64
40	50	6	23	14	36	30	51	14	36	30	51	45	73
50	65	8	28	18	43	38	61	18	43	38	61	55	90
65	80	10	30	20	51	46	71	20	51	46	71	65	105
80	100	12	36	24	58	53	84	24	58	53	84	75	120

TOLERANCE FOR BALL BEARING INSERTS

.001mm
0.0001inch

Inner ring with cylindrical bore

d (mm) (in.)		Δd_{mp}		V _{dp}	ΔH_s		ΔB_s		K _{ia}
over	incl.	upper	lower	max	upper	lower	upper	lower	max
10 0.3937	18 0.7087	+15 +6	0 0	10 4	+100 +40	-100 -40	0 0	-120 -47	12 5
18 0.7087	30 1.1811	+18 +7	0 0	12 5	+100 +40	-100 -40	0 0	-120 -47	15 6
30 1.1811	50 1.9685	+21 +8	0 0	14 5.5	+100 +40	-100 -40	0 0	-120 -47	18 7
50 1.9685	80 3.1496	+24 +9	0 0	16 6	+100 +40	-100 -40	0 0	-150 -59	22 9
80 3.1496	120 4.7244	+28 +11	0 0	19 7.5	+100 +40	-100 -40	0 0	-200 -79	28 11

Inner ring with tapered bore

.001mm
0.0001inch

d (mm) (in.)		Δd_{mp}		$\Delta d_{1mp} - \Delta d_{mp}$	
over	incl.	upper	lower	upper	lower
10 0.3937	18 0.7087	+27 +11	0 0	+18 +7	0 0
18 0.7087	30 1.1811	+33 +13	0 0	+21 +8	0 0
30 1.1811	50 1.9685	+39 +15	0 0	+25 +10	0 0
50 1.9685	80 3.1496	+46 +18	0 0	+30 +12	0 0
80 3.1496	120 4.7244	+54 +21	0 0	+35 +14	0 0

Outer ring

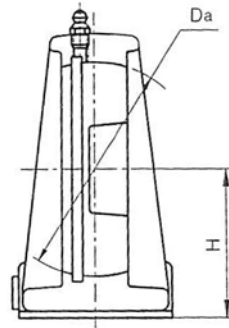
.001mm
0.0001inch

D (mm) (in.)		ΔD_{mp}		K _{ea}
over	incl.	upper	lower	upper
30 1.1811	50 1.9685	0 0	-11 -4	20 8
50 1.9685	80 3.1496	0 0	-13 -5	25 10
80 3.1496	120 4.7244	0 0	-15 -6	35 14
120 4.7244	150 5.9055	0 0	-18 -7	40 16
150 5.9055	180 7.0866	0 0	-25 -10	45 18
180 7.0866	250 9.8425	0 0	-30 -12	50 20

TOLERANCE SYMBOLS

d	Nominal bore diameter	Kia	Radial run out of assembled bearing inner ring
ds	Single bore diameter	ΔH_s	Deviation of mean radial eccentricity in single radial plane
dmp	Mean bore diameter	D	Nominal outside diameter
Δd_s	Deviation of single bore diameter from nominal	Ds	Single outside diameter
Δd_{mp}	Deviation of the mean bore diameter from nominal in a single plane	Dmp	Mean outside diameter
d1	Nominal diameter at theoretical large end of tapered bore	ΔD_s	Deviation of single outside diameter from nominal
d1mp	Mean diameter at theoretical large end of tapered bore	ΔD_{mp}	Deviation of the mean outside diameter from nominal in a single plane
Δd_{1mp}	Deviation of the mean bore diameter at theoretical large end of tapered bore from nominal	Kea	Radial run out of assembled bearing outer ring
Vdp	Bore diameter variation in single radial plane	μm	10^{-6} or .000001 micrometers
ΔB_s	Deviation of single inner ring width		

TOLERANCE FOR HOUSINGS



Tolerance for cast iron housings

Tolerance for spherical bore diameter of the housing is determined by resultant fitness between the bearing insert and housing. The three main housing tolerances are H7, J7, and K7. Hi-Light USA uses a J7 tolerance as a standard fit.

Deviations for spherical bore diameter of housings

.001mm
0.0001inch

Spherical bore diameter Da		Loose Fit				Intermediate Fit				Tight Fit			
		H7				J7				K7			
		ΔD_{amp}		ΔD_{as}		ΔD_{amp}		ΔD_{as}		ΔD_{amp}		ΔD_{as}	
over	Incl.	upper	lower	upper	lower	upper	lower	upper	lower	upper	lower	upper	lower
30	50	+25	0	+30	-5	+14	-11	+19	-16	+7	-18	+12	-23
1.1811	1.9685	+10	0	+12	-2	+6	-4	+7	-6	+3	-7	+5	-9
50	80	+30	0	+36	-6	+18	-12	+24	-18	+9	-21	+15	-27
1.9685	3.1496	+12	0	+14	-2	+7	-5	+9	-7	+4	-8	+6	-11
80	120	+35	0	+42	-7	+22	-13	+29	-20	+10	-25	+17	-32
3.1496	4.7244	+14	0	+17	-3	+9	-5	+11	-8	+4	-10	+7	-13
120	180	+40	0	+48	-8	+26	-14	+34	-22	+12	-28	+20	-36
4.7244	7.0866	+16	0	+19	-3	+10	-6	+13	-9	+5	-11	+8	-14
180	250	+46	0	+55	-9	+30	-16	+39	-25	+13	-33	+22	-42
7.0866	9.8425	+18	0	+22	-4	+12	-6	+15	-10	+5	-13	+9	-16

ΔD_{amp} : mean spherical bore diameter deviation ΔD_{as} Spherical bore diameter deviation

**Tolerance for pillow block type housings
(P PX LP PL PA PH)**

.001mm
0.0001inch

Size number	H Deviations ΔH
203 - 210 305 - 310 X05 - X10	± 150 ± 59
211 - 220 311 - 318 X11 - X18	± 200 ± 79
319 - 320 X20	± 300 ± 118

H: Please refer to dimensions of corresponding housed bearing units.

**Tolerance for flange type housings
(F NF FX FL NFL FLX FD PFTD TRD)**

.001mm
0.0001inch

Size number	A ₂ Deviations A ₂ Δ	Tolerance for mounting bolt position J
203 - 210 305 - 310 X05 - X10	± 500 ± 197	± 700 ± 276
211 - 218 311 - 320 X11 - X20	± 800 ± 315	± 1000 ± 394

A₂, J: Please refer to dimensions of corresponding housed bearing units.

Tolerance for Piloted flange type housings (FCF, FCX)

.001mm
0.0001inch

Size number	A ₂ Deviations A ₂ Δ	F Deviation ΔF		Radial runout of spigot joint max	Tolerance for mounting bolt position J
		upper	lower		
204 - 206 X05	± 500 ± 197	0 0	- 46 - 18	200 79	± 700 ± 276
207 - 210 X06 - X10		0 0	- 54 - 21		
211 - 217 X11 - X15	± 800 ± 315	0 0	- 63 - 25	300 188	± 1000 ± 394
218 X16 - X18		0 0	- 72 - 28		
220 X20		0 0	- 72 - 28		

A₂, F, J Please refer to dimensions of corresponding housed bearing units.

Tolerance for cartridge type housings (C, CX)

.001mm
0.0001inch

Size number	L Deviation ΔL		A Deviation ΔA	Radial Runout of outside surface
	upper	lower		max
204 - 205	0 0	- 30 - 12	± 200 ± 79	200 79
206 - 210 305 - 308 X05 - X08	0 0	- 35 - 14		
309 - 310 X09 - X10	0 0	- 40 - 16	± 250 ± 98	300 118
211 - 213 311 - 313 X11 - X12	0 0	- 40 - 16		

L, A Please refer to dimensions of corresponding housed bearing units.

Tolerance for take-up type housings (T TX TRS)

Size number	A1 Deviation $\Delta A1$		H1 Deviation H1		Symmetry of groove side faces
	positive	negative	positive	negative	max
204 - 210	+ 200	0	0	- 500	500
305 - 310	+ 79	0	0	- 197	197
X05 - X10					
211 - 218	+ 300	0	0	- 800	600
311 - 318					236
X11 - X20					
319 - 320	+ 118	0	0	- 315	700 276

A1, H1 Please refer to dimensions of corresponding housed bearing units.

Tolerance for housings (FB, FA)

Size Number	A2 Deviation $\Delta A2$
204 - 210	± 500 ± 197
211 - 213	± 800 ± 315

A2 Please refer to dimensions of corresponding housed bearing units.

Tolerance for Stamped Steel housings

Tolerance for stamped steel housings (PBST, MS, MSTR, MST)

Size Number	PBST	MS, MSTR, MST (PBST J)	
	Mounting bolt diameter N ΔN	Mounting bolt diameter N ΔN	Tolerance for mounting bolt position J, P
203 - 208	± 250 ± 98	± 300 ± 118	± 400 ± 157

N, J, P Please refer to dimensions of corresponding housed bearing units and stamping pages.

MOUNTED BEARING INTERCHANGE

	HLU#	SEALMASTER	FAFNIR	DODGE	BROWNING	HUB CITY	NTN-BCA	Link-Belt	PEER
Pillow Blocks 1" Shaft	UCP205-16	NP-16/RP-16	YAS 1	SC-1	MPS-216/ VPS-216	PB251 X 1	-	P3-U216N	UCPSB205-16
	UCPL205-16	NPL-16/RPL-16	YAK 1	SCB-1	MPLS-216/ VPLS-216	PB250 X 1	-	PL3-U216N	UCLP205-16
	UCPX05-16	MP-16/MRP-16	YASM 1	SCM-1	MPS-316/ VPS-316	PB350 X 1	-	-	UCPX05-16
	NAP205-16	RP-16E	RAS 1	SXR-1	MPE-216/ VPE-216	PB221HW X 1	PWG-1-RS	P3-Y216N	HCP205-16
	NAP205-16R3	-	TAS 1	-	-	-	PWT-1-RS	P3-Y216E3	HCP205-16-TRL
	NAPL205-16	RPL-16E	RAK 1	SXRB-1	MPLS-216/ VPLS-216	PB220HW X 1	PWG-1-R	PL3-Y216N	HCLP205-16
	NAPL205-16R3	-	TAK 1	-	-	-	PWT-1-R	PL3-Y216E3	HCLP205-16-TRL
	UCPA205-16	TB-16/ RTB-16	-	SCTB-1	MTBS-216/ VTBS-216	-	-	PT3-U216N	UCPAS205-16
	NAPA205-16	-	-	-	-	-	-	-	HCPAS205-16
	UCPH205-16	-	-	-	-	-	-	-	UCPH205-16
	SAPA205-16G	-	VTB 1	-	-	-	-	-	FHPAS205-16G
	SBPA205-16G	-	STB 1	-	-	TPB250 X 1	-	PT3-S216E	FHSPAS205-16G
	SAP205-16G	VP-16E	VAS 1	SXV-1	VPE-116	PB221 X 1	-	P3-W216U	FHP205-16G
	SBP205-16G	VP-16	SAS 1	VSC-1	VPS-116	PB251 X 1	SPNR-1-RS	P3-S216E	FHSP205-16G
	SAPL205-16G	VPL-16E	VAK 1	SXVB-1	VPLE-116	PB220 X 1	PNR-1-R	PL3-W216U	FHLP205-16G
	SBPL205-16G	VPL-16	-	VSCB-1	VPLS-116	PB250 X 1	-	PL3-S216E	FHSLP205-16G
	SALP205-16G	-	-	-	VPE1M	-	-	-	FHPWC205-16G
	SBLP205-16G	-	-	-	VPS1M	-	-	-	FHSPWC205-16G
	SALP205D-16G	VPM-16E/ LP-E (1)	-	-	VPE-116M	-	-	-	FHPW205-16G
	SBLP205D-16G	-	-	-	VPS-116M	PB150 X 1	-	-	FHSPW205-16G
HLP205-16	NP-16T	-	P2B-DL-100	-	-	-	-	GRP205-16	
HLPL205-16	NPL-16T	-	P2B-DLB-100	-	-	-	-	GRPL205-16	
HLP205-16	TB16T	-	TB-DL-100	-	-	-	-	-	
4-Bolt Flange Units 1" Shaft	UCF205-16	SF-16/ RF-16	YCJ 1	SC-1	MF4S-216/ VF4S-216	FB250 X 1	-	F3-U216N	UCF205-16
	UCFX05-16	MSF-16/ MRF-16	YCJM 1	SCM-1	MF4S-316/ VF4S-316	FB350 X 1	-	-	UCFX05-16
	NANF205-16	RF-16E	RCJ 1	SXR-1	MF4E-216/ VF4E-216	-	FWG-1-R	F3-Y216N	HCFS205-16
	NANF205-16R3	-	TCJ 1	-	-	-	FWT-1-R	F3-Y216E3	HCFS205-16-TRL
	SAF205-16G	VF-16E	VCJ 1	SXV-1	VF4E-116	FB220 X 1	FNR-1-R	F3-W216U	FHF205-16G
	SBF205-16G	VF-16	SCJ 1	VSC-1	VF4S-116	FB250 X 1	SAFNR-1-R	F3-S216E	FHSF205-16G
	HLF205-16	SF-16T	-	F4B-DL-100	-	-	-	-	GRF205-16
2-Bolt Flange Units 1" Shaft	UCFL205-16	SFT-16/ RFT-16	YCJT 1	SC-1	MF2S-216/ VF2S-216	FB260 X 1	-	FX3-U216N	UCFT205-16
	UCFLX05-16	MSFT-16	YCJTM 1	SCM-1	-	-	-	-	UCFTX05-16
	NANFL205-16	RFT-16E	RCJT 1	SXR-1	MF2E-216/ VF2E-216	-	TWG-1-R	FX3-Y216N	HCFTS205-16
	NANFL205-16R3	-	TCJT 1	-	-	-	TWT-1-R	FX3-Y216E3	HCFTS205-16-TRL
	SAFL205-16G	VFT-16E	VCJT 1	SXV-1	VF2E-116	FB230 X 1	TNR-1-R	FX3-W216U	FHFT205-16G
	SBFL205-16G	VFT-16	SCJT 1	VSC-1	VF2S-116	FB260 X 1	SATNR-1-R	FX3-S216E	FHSFT205-16G
	SALF205-16G	-	-	-	-	-	-	-	FHLF205-16G
	SBLF205-16	-	-	-	-	-	-	-	FHSLF205-16G
	SAPFTD205-16G	VFTM-16E/ LFT-16E (1)	GVFTD 1	-	VF2E-116M	-	-	FX-WG216U	FHFX205-16G
	SBPFTD205-16G	VFTM-16/ LFT-16 (1)	-	SCLFT-1	VF2S-116M	FB160 X 1	-	FX-SG216EL	FHSFX205-16G
	SAFD205-16G	-	-	-	-	-	-	-	FHFD205-16G
	SBFD205-16G	-	-	-	-	-	-	-	FHSFD205-16G
HLFL205-16	SFT-16T	-	F2B-DL-100	-	-	-	-	GRFT205-16	
3-Bolt Flange Units 1" Shaft	SATRD205-16G	VFM-16E/LF-16E (1)	GVFD 1	-	VF3E-116M	-	-	F-WG216U	FHF3X205-16G
	SBTRD205-16G	VFM-16/LF-16 (1)	-	SCLF-1	VF3S-116M	FB150 X 1	-	F-SG216EL	FHSF3X205-16G
	UCFB205-16	FB-16	-	SCFB-1	-	-	-	FB3-U216N	UCFB205-16
	HLFB205-16	FB-16T	-	FB-DL-100	-	-	-	-	GRFB205-16

This interchange chart is for reference only. Listed are 1" bore bearing part numbers.
 The units may not be totally interchangeable and Hi-Light USA does not imply that these units are exact interchanges.
 (1) Specify non-relube.

MOUNTED BEARING INTERCHANGE

	HLU#	SEALMASTER	FAFNIR	DODGE	BROWNING	HUB CITY	NTN-BCA	Link-Belt	PEER
Take-Up Units 1" Shaft	UCT205-16	ST-16/RT-16	YTU 1	SC-1 WIDE	MTWS-216/ VTWS-216	WSTU250	-	TH3-U216N	UCT205-16
	UCTX05-16	MST-16		SCM-1 WIDE	MTWS-316/ VTWS-316	TU350 X 1	-	-	UCTX205-16
	NAT205-16	RT-16E	RTU 1	SXR-1 WIDE	VTWE-216	WSTU220	-	-	HCT205-16
	SATRS205H-16	-	VNTU	SXV-1 NAR	-	-	-	-	-
	SBTRS205H-16G	-	-	VSC-1 NAR	-	-	-	-	-
	HLT205-16	ST-16T	-	-	-	-	-	-	GRT205-16
Piloted Flange Units 1" Shaft	UCFCF205-16	-	RFC 1	SC-1	-	-	-	FC3-U216N	-
	UCFC205-16	-	-	-	-	-	-	-	UCFC205-16
	UCFCX05-16	MFC-16/MRFC-16	-	SCM-1	MFCS-316/ VFCS-316	FC350 X 1	-	-	-
	NAFCF205-16	-	-	-	-	-	-	FC3-Y216N	-
Hanger Units 1" Shaft	UCHA205-16	SCHB-16	-	SC-1	-	-	-	-	UCHA205-16
	NAHA205-16	-	-	SXR-1	-	-	-	-	HCHA205-16
Cartridge Units 1" Shaft	UCC205-16	SC-16	-	-	-	-	-	UCC205-16	
Insert Bearings 1" Shaft	UC205-16	2-1/R-16	GY1100KRRB	SC-1	MS-216/ VS-216	YW250 X 1	-	UG216NL	UC205-16
	UCX05-16	3-1/MR-16	GYM1100KRRB	SCM-1	MS-316/ VS-316	B350 X 1	-	-	UCX05-16
	UC205-16R3	-	-	-	-	-	-	UG216E3	UC205-16-TRL
	NA205-16	R-16E	G1100KRRB	SXR-1	ME-216/ VE-216	YW220 X 1	WPS-100- GRC	YG216NL	HC205-16
	NA205-16R3	-	G1100KPPB3	-	-	-	WPS-100- TRC	YG216E3	HC205-16-TRL
	SER205-16	ER-16	ER16	-	MER-216	-	-	-	SER-16
	SA205-16	L-16E	RA100RRB	SXV-1-NL	-	-	NPS-100- RPC	W216UL	FH205-16
	SA205-16G	V-16E	GRA100RRB	SXV-1	VE-116	B220 X 1	NPS-100- RRC	WG216UL	FH205-16G
	SB205-16	L-16	YA100RRB	VSC-1-NL	-	B100 X 1	SNPS-100- RP	-	FHS205-16
	SB205-16G	V-16	GYA100RRB	VSC-1	VS-116	B250 X 1	SNPS-100- RR	SG216EL	FHS205-16G
	CSA205-16	SL-16E	RA100RR	-	-	-	NPC-100- RPC	WB216UL	FHR205-16
	CSB205-16	SL-16	YA100RR	-	-	-	-	SB216EL	FHSR205-16
	HL205-16	2-IT	-	INS-DL-100	-	-	-	-	GR205-16
Stamped Steel Units 1" Shaft	SBPB205-16	SSP-16	-	SL-1	-	PB100S X 1	-	-	FHSPPZ205-16-IL
	SAPB205-16	SSP-16E	PB 1	SLX-1	-	-	SPB-1	-	FHPPZ205-16IL
	SBMS205-16	SSF-16	-	SL-1	-	FB100S X 1	-	-	FHSPFR205-16
	SAMS205-16	SSF-16E	RA 1	SLX-1	-	-	-	-	FHPFR205-16
	SBMST205-16	SSFT-16	-	SL-1	-	FB110S X 1	-	-	FHSPFLZ205-16
	SAMST205-16	SSFT-16E	RAT 1	SLX-1	-	-	-	-	FHPFLZ205-16
	SBMSTR205-16	TSSF-16	-	-	-	-	-	-	FHSPFTZ205-16
	SAMSTR205-16	TSSF-16E	RATR 1	-	-	-	-	-	FHPFTZ205-16
	SBPBR205-16	LRP-16	-	-	-	-	-	-	FHSRZ205-16-IL
	SAPBR205-16	-	RPB 1	-	-	-	-	-	FHPRZ205-16-IL
Rubber Cartridge Units 1" Shaft	RCSM-16SS	SRC-16	-	-	-	-	-	-	RCSM-16S
	RCSM-16EL	-	RCSM 1	-	-	-	-	-	RCSM-16L
	SBBR205-16	LRCS-16	-	-	-	-	-	-	FHSBR205-16
	SABR205-16	-	RABR 1	-	-	-	-	-	FHBR205-16

This interchange chart is for reference only. Listed are 1" bore bearing part numbers. The units may not be totally interchangeable and Hi-Light USA does not imply that these units are exact interchanges. (1) Specify non-relube.

AGRICULTURAL BEARING INTERCHANGE

HLU	FAFNIR	NTN-BCA
202NPP9	202NPP9	202FFH8
202RRE	J202KRR8	202RRE
203JD	-	-
203KRR2-C/3	203KRR2	203RRAR10
203KRR-5	203KRR5	203RRAR8
204KRD4	204KRD4	204FGB
204KRR2	204KRR2	HPC011GP
204KRR8	204KRR8	204BBE
204RY2	204RY2	204FVMN
205DDS	-	205VVH
205DDS 3/4	-	-
205KRRB2	205KRRB2	HPS014GP
205PP9	205NPP9	205TTB
205PPB-7	205PPB7	205TTH
205PPB-7G	-	-
205RVA	205KRP2	205RVA
205TNK	205KP8	205TNK
206GGH	206KPP16	206GGH
5203KYY2	5203KYY2	5203VVAN
99502H	-	202FFB
CDS211TTR23	-	CDS211TTR23
DC214TTR2A	-	DC214TTR2A
GW208PP-17	GW208PP17	DC208TTR17
GW208PPB-5	GW208PPB5	DS208TTR5
GW208PPB-8	GW208PPB8	DS208TTR8
GW209PPB-11	GW209PPB11	DS209TTR10
GW209PPB-2	GW209PPB2	DS209TTR2
GW209PPB-4	GW209PPB4	DS209TTR4
GW209PPB-5	GW209PPB5	DS209TTR5
GW209PPB-8	GW209PPB8	DS209TTR8
GW210PP-4	GW210PP4	DC210TTR4
GW210PPB-2	GW210PPB2	DS210TTR2
GW210PPB-4	GW210PPB4	DS210TTR4
GW210PPB-5	GW210PPB5	DS210TTR5
GW211PP-17	GW211PP17	DC211TTR4
GW211PP-2	GW211PP2	DC211TTR2
GW211PP-3	GW211PP3	DC211TTR3
GW211PPB-13	GW211PPB13	DS211TTR13
GW211PPB-2	GW211PPB2	DS211TTR2
GW211PPB-23	GW211PPB23	-
GW211PPB-3	GW211PPB3	DS211TTR3
GW211PPB-9	GW211PPB9	DS211TTR9
GW216PP2	GW 216PP2	DC216TTR2
GW216PPB2	GW216PPB2	DS216TTR2
ST208-1 1/8	-	-
ST208-1 1/8 N	-	-
ST208-1N	-	-
ST209-1 1/2JD	-	-
ST209-1 1/2JD KIT	-	-
ST209-1 1/4	DHU 1 1/4 S-209	FD209RK
ST209-1 1/8	DHU 1 1/8 S-209	FD209RM
ST209-1 3/4JD	-	-

HLU	FAFNIR	NTN-BCA
ST209-1 3/4JD KIT	-	-
ST211-1 1/2	DHU 1 1/2 S-211	FD211RM
ST211-1 15/16	DHU 1 15/16 R-211	FD211RJA
ST211-1 3/4	DHU 1 3/4 R-211	FD211REA
ST211-2 3/16	DHU2 3/16 R-211	FD211RBA
ST211-2 3/16JD	-	-
ST211-2 3/16JD KIT	-	-
ST491A	DHU 491A	FD209RA
ST491B	DHU 1 1/2 R-209	FD209RB
W208PP-5	W208PP5	DC208TT5
W208PP-6	W208PP6	DC208TT6
W208PP-8	W208PP8	DC208TT8
W208PPB-11	W208PPB11	DS208TT11
W208PPB-12	W208PPB12	DS208TT12
W208PPB-13	W208PPB13	DS208TT13
W208PPB-2	W208PPB2	-
W208PPB-5	W208PPB5	DS208TT5
W208PPB-6	W208PPB6	DS208TT6
W208PPB-7	W208PPB7	DS208TT7
W208PPB-8	W208PPB8	DS208TT8
W209PPB-2	W209PPB2	DS209TT2
W209PPB-4	W209PPB4	DS209TT4
W209PPB-5	W209PPB5	DS209TT5
W210PP-2	W210PP2	DC210TT2
W210PP-4	W210PP4	DC210TT4
W210PPB-2	W210PPB2	DS210TT2
W210PPB-4	W210PPB4	DS210TT4
W210PPB-6	W210PPB6	DS210TT6
W210PPB-9	W210PPB9	-
W211PP-2	W211PP2	DC211TT2
W211PP-3	W211P2	DC211TT3
W211PP-5	W211PP5	DC211TT5
W211PPB-2	W211PPB2	DS211TT2
W211PPB-3	W211PPB3	DS211TT3
W211PPB-6	W211PPB6	DS211TT6
Z9504RST *	P204RR6	204BBAR

* Z9504AB can be substituted for Z9504RST.

* Z9504AB replaces YAZOO#204-060 mower deck bearing.

TERMS AND CONDITIONS OF SALE

MINIMUM ORDER:

\$50.00 U.S. Dollars. A service fee of \$2.50 will be charged for orders under \$50.00.

PAYMENT TERMS:

Payment terms are net 30 days. Accounts over 30 days will be subject to a 1-1/2% per month service charge.

PRICING:

All prices are F.O.B. shipping point unless otherwise agreed by Hi-Light USA, Inc. Prices are subject to change without prior notice.

HANDLING AND INSURANCE:

A \$1.00 handling fee will be added to all UPS shipments. Additional fees apply for prepay and add truck line shipments. All insurance will be billed to the customer.

RETURNS:

No return goods will be accepted without our prior authorization by Hi-Light USA, Inc.

SHORTAGE AND DAMAGE CLAIMS:

All claims against Hi-Light USA, Inc. must be made within 10 days of receipt of goods. Customer must notate any damaged, torn, or open shipping cartons when signing for delivered goods, to allow for claims to be processed. Any damaged shipping cartons must be kept by the customer until claims are approved.

WARRANTY:

All Hi-Light USA, Inc. products are warranted against defects in workmanship and materials for one year from date of shipment. This constitutes Hi-Light USA Inc.'s only warranty in connection with this sale and is in lieu of all other warranties, expressed or implied or oral. There are no implied warranties of merchantability or fitness for a particular purpose that apply to this sale, no employee, agent, dealer or other person is authorized to give any warranties on behalf of Hi-Light USA, Inc. nor to assume for Hi-Light USA, Inc. any other liability in connection with any of its products except an officer of Hi-Light USA, Inc. in a signed, written document.

LIMITATION OF REMEDY:

Hi-Light USA, Inc. will repair or replace, at Hi-Light USA, Inc.'s option, F.O.B. factory, returned product freight prepaid, any Hi-Light USA, Inc. product proved defective in workmanship or materials if immediate written notice of claim is made by purchaser within one year from date of shipment. It is agreed that such replacement or repair is the exclusive remedy available from Hi-Light USA, Inc. should any of Hi-Light USA Inc.'s product prove defective in workmanship or materials, provided it has been shown to have been properly mounted, adequately lubricated, and not subjected to abuse in operation or assembly. Hi-Light USA, Inc. is not liable for damage of any sort whatsoever, including incidental or consequential damages. Hi-Light USA Inc. will not be made liable for delay caused by said defects and will not be responsible for work or repairs done by others.

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Hi-Light USA, Inc. has attempted to compile the most accurate engineering and dimensional data possible for our products. This information should only be used for initial consideration of a part for an application. Hi-Light USA, Inc. assumes no liability to any person, company or property, direct or indirect, for information in this catalog. Please contact Hi-Light USA, Inc. technical support before final design.

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Catalog #002 11-03-2015



HI-LIGHT USA, INC.

MANUFACTURERS OF HIGH-QUALITY BALL BEARINGS AND POWER TRANSMISSION PARTS

CATALOG #002

