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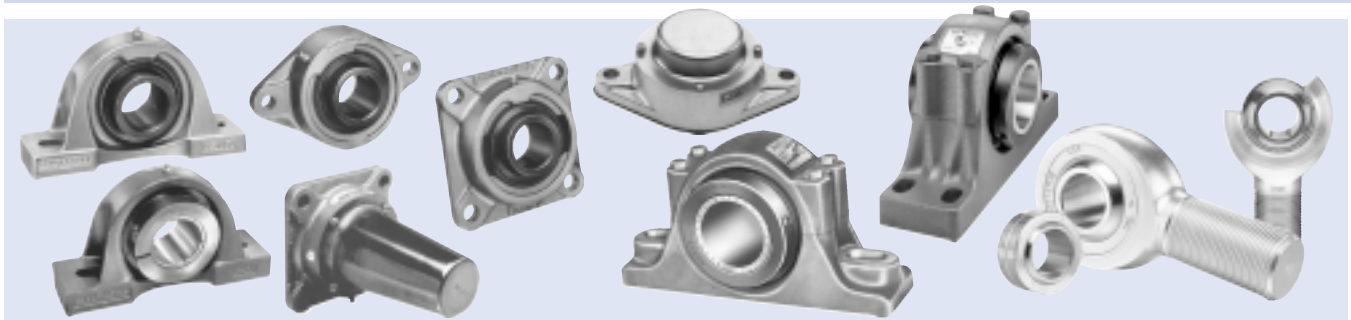


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SEALMASTER® GOLD LINE PRODUCT OFFERING...

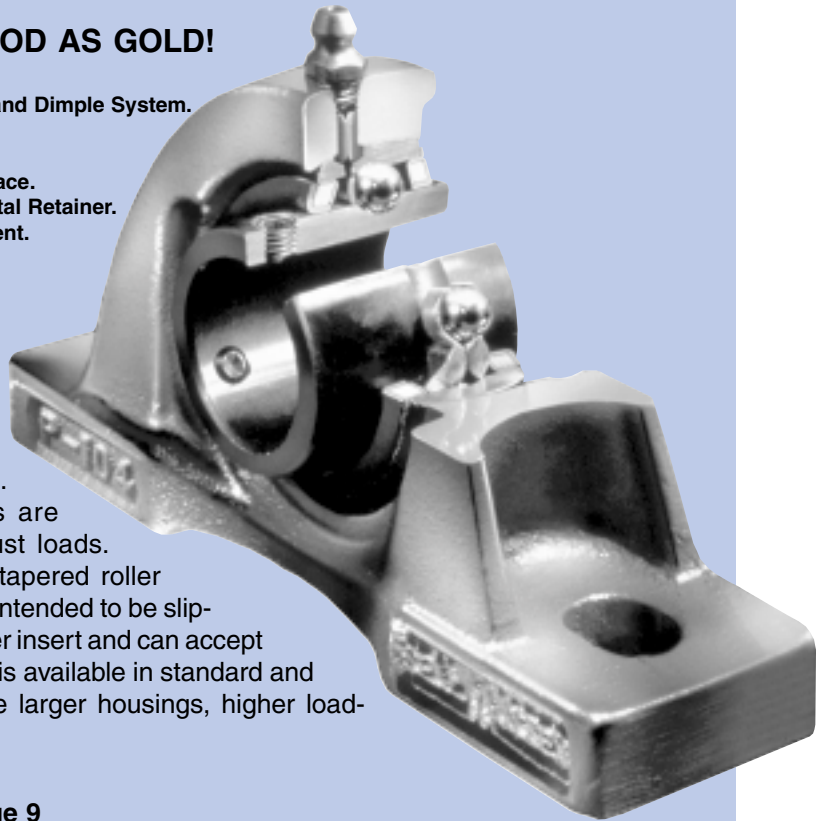
TECHNICAL SUPERIORITY...

SET SCREW LOCKING

Gold Line Mounted Ball Bearings...GOOD AS GOLD!

- Self Aligning.
- Abec 1.
- Wide Inner and Outer Races.
- Conrad Style.
- Deep Groove.
- Expansion Available.
- Solid Cast Iron Housing.
- Relubricable.
- Exclusive Locking Pin and Dimple System.
- Black Oxide Coating.
- Felt Labyrinth Seals.
- Zone Hardened Inner Race.
- Unique Land Riding Metal Retainer.
- 120° Set Screw Placement.
- Diamond Faceted Precision Thread Set Screws.
- Single Set Screw Lock Standard.
- Double Set Screw Lock Available.

The Sealmaster Gold Line bearing platform has become synonymous with problem solving by addressing many factors of bearing operation. Sealmaster Gold Line Mounted Ball Bearings are designed to provide support for radial and thrust loads. Typically, they can achieve higher speeds than tapered roller bearings. Sealmaster Gold Line Ball Bearings are intended to be slip-fit onto a shaft. They have a spherical outer diameter insert and can accept an external misalignment of $\pm 2^\circ$. This product line is available in standard and medium duty series. Medium duty bearings have larger housings, higher load-bearing capabilities, but lower speed ratings.



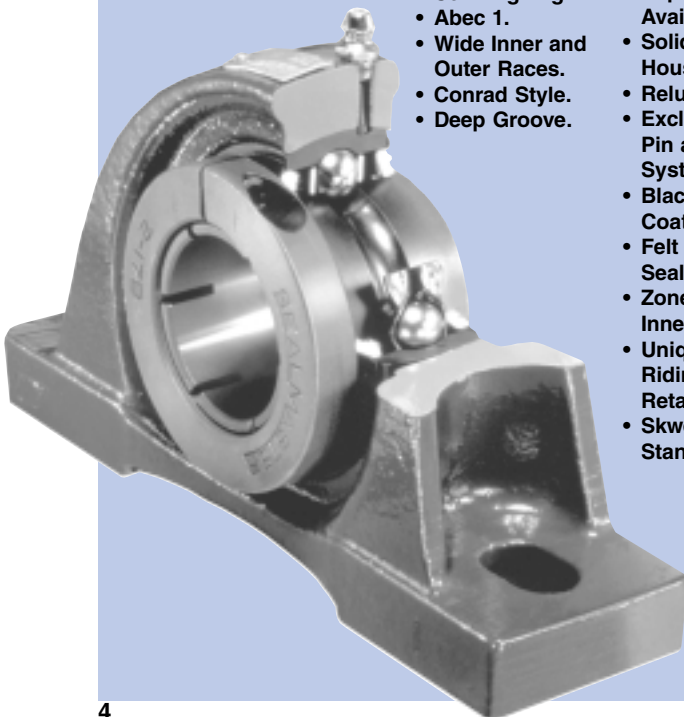
Ball Bearing Set Screw Table of Contents...Page 9

SKWEZLOC® LOCKING

Gold Line Mounted Ball Bearings...GOOD AS GOLD!

- Self Aligning.
- Abec 1.
- Wide Inner and Outer Races.
- Conrad Style.
- Deep Groove.
- Expansion Available.
- Solid Cast Iron Housing.
- Relubricable.
- Exclusive Locking Pin and Dimple System.
- Black Oxide Coating.
- Felt Labyrinth Seals.
- Zone Hardened Inner Race.
- Unique Land Riding Metal Retainer.
- Skwezloc Locking Standard.

The unparalleled **SKWEZLOC** locking collar centers the shaft in the bearing bore...secures the shaft with near-perfect concentricity for quieter operation at higher speeds and simpler installation. Shafts are protected from deep scoring or burring. This locking device combined with the Sealmaster Gold Line ball bearing platform is an excellent performer. Sealmaster Gold Line Mounted Ball Bearings are designed to provide support for radial and thrust loads. Typically, they can achieve higher speeds than tapered roller bearings. Sealmaster Gold Line Mounted Ball Bearings are intended to be slip-fit onto a shaft. They have a spherical outer diameter insert and can accept an external misalignment of $\pm 2^\circ$. This product line is available in standard and medium duty series. Medium duty bearings have larger housings, higher load-bearing capabilities, but lower speed ratings.



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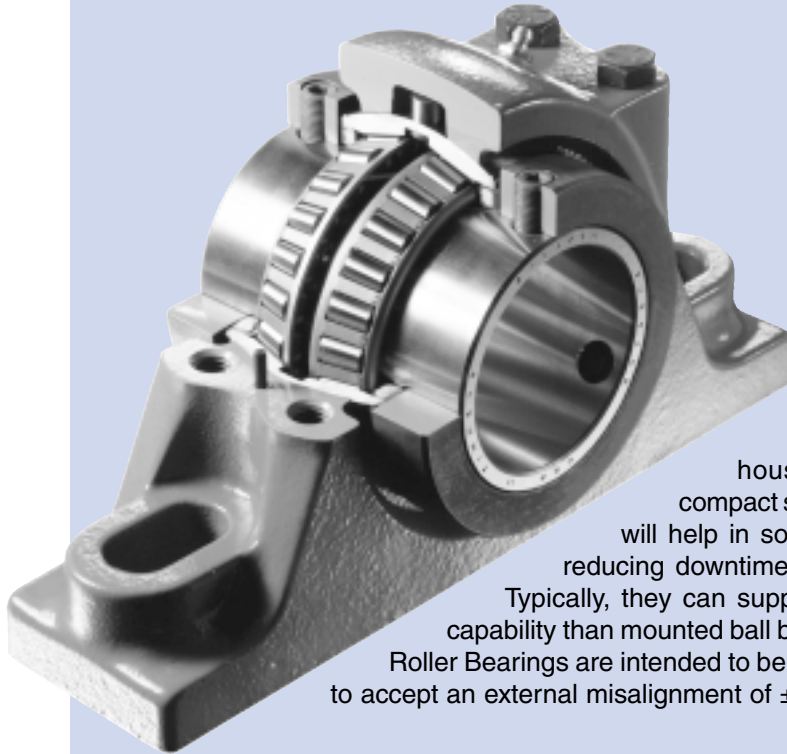
DIFFERENT...BY DESIGN!

FOCUSED ON INDUSTRY

SET SCREW LOCKING RPB Series

Gold Line Mounted Roller Bearings... TOUGH AS THEY COME!

- Self Aligning.
- Double Row.
- Split Housing.
- Cast Iron Housing.
- Relubricable.
- Single Set Screw Lock Available.
- Double Set Screw Lock Standard.



Sealmaster Self-Aligning Mounted Tapered Roller Bearings units provide the dependability, flexibility, and ruggedness required to handle high radial and thrust loads. They combine the time tested assurance of TIMKEN® double row tapered roller bearings with patented outer race and housing features developed by our Engineers. The compact split housing and self-aligning bearing cartridge insert will help in solving difficult application problems while drastically reducing downtime when bearing replacement is ultimately required. Typically, they can support higher loads but have lower maximum speed capability than mounted ball bearings. Sealmaster Self-Aligning Mounted Tapered Roller Bearings are intended to be slip-fit onto a shaft and have a spherical outer insert to accept an external misalignment of $\pm 3^\circ$.

Roller Bearing Table of Contents...Page 95

ROD ENDS and SPHERICAL BEARINGS...

SEALMASTER Gold Line...ASK FOR THEM BY NAME!

Combining years of innovative bearing design experience with an original manufacturing process, our engineers have developed three-piece rod ends with steel and bronze races for enhanced performance. These quality industrial grade mounted spherical plain bearings are designed to handle low speeds, oscillation, radial loads and moderate thrust loads. Sealmaster Spherical Bearings are intended to be assembled onto a shaft and into a housing. Sealmaster Rod ends can be mounted easily using the threads on the shank. Because of the spherical designs, rod ends and spherical bearings have large misalignment ratings.

- Spherical Plain Bearings.
- Improved Rod End Design.
- Finite Element Analysis Developed.
- Three-Piece Rod Ends.
- Two-piece Rod Ends.
- Self Aligning.
- Close and Consistent Ball-Fit Race.
- Re-engineered Self-Lubricating *TEFLON and *DELRIN Rod Ends.
- Precision and Commercial.
- Many available Options.



**SEALMASTER GOLD LINE'S UNIQUE DESIGN
PLATFORM AND INDUSTRY KNOW-HOW COUPLED
WITH FLEXIBLE MANUFACTURING TECHNIQUES AND
ADVANCED ANALYTICAL CAPABILITIES MAKE AN UNBEATABLE
COMBINATION FOR YOUR MOST DEMANDING APPLICATIONS**

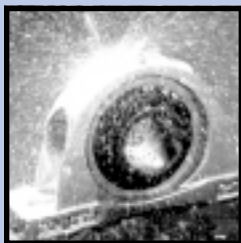
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* TEFLON and *DELRIN are trademarks of the DuPont Company.

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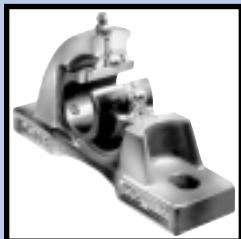
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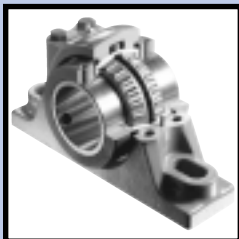
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Solutions from **FEATURED PRODUCTS**

SEALMASTER...

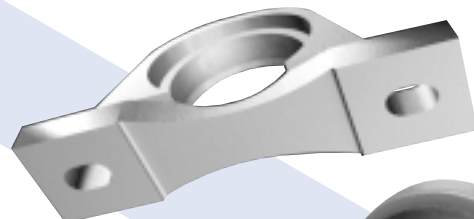
...Has broad experience developing special end caps and protective closures along with effective materials and corrosion resistant coatings for housing, bearing races and small parts.

...Has knowledge of special greases that can be used in special factory lubricated bearings to suit your needs.

...Unique locking devices have often maximized bearing reliability in applications where standard bearings did not perform.

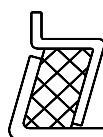
...Can control fit-ups and clearances with precision and accuracy to account for material expansion and other application dynamics.

...Engineers have thoroughly studied applications and developed distinct product lines for increased and reliable bearing performance.

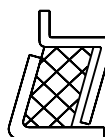


...Special seals and shields can be manufactured to guard the bearing from abrasives and corrosive contamination.

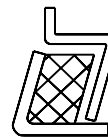
Felt Seal



Backed Off Seal



Web Seal



X-Seal



FOR CHALLENGING APPLICATIONS



Sealmaster has years of experience solving problems and can develop new concepts and integrate existing robust designs into your applications for optimal operation efficiency.



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Aggregate/Mining
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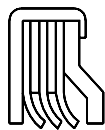
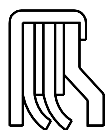
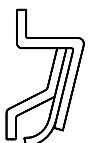
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Solutions by
**CUSTOMIZATION
AND
MADE TO ORDER
PRODUCTS**

Contact Seal ProGard Seal SafeGard Seal UltraGard Seal



SEALMASTER®

**MOUNTED BALL BEARINGS...
THE GOLD STANDARD**

*"GOOD AS GOLD...
NO EQUAL!"*

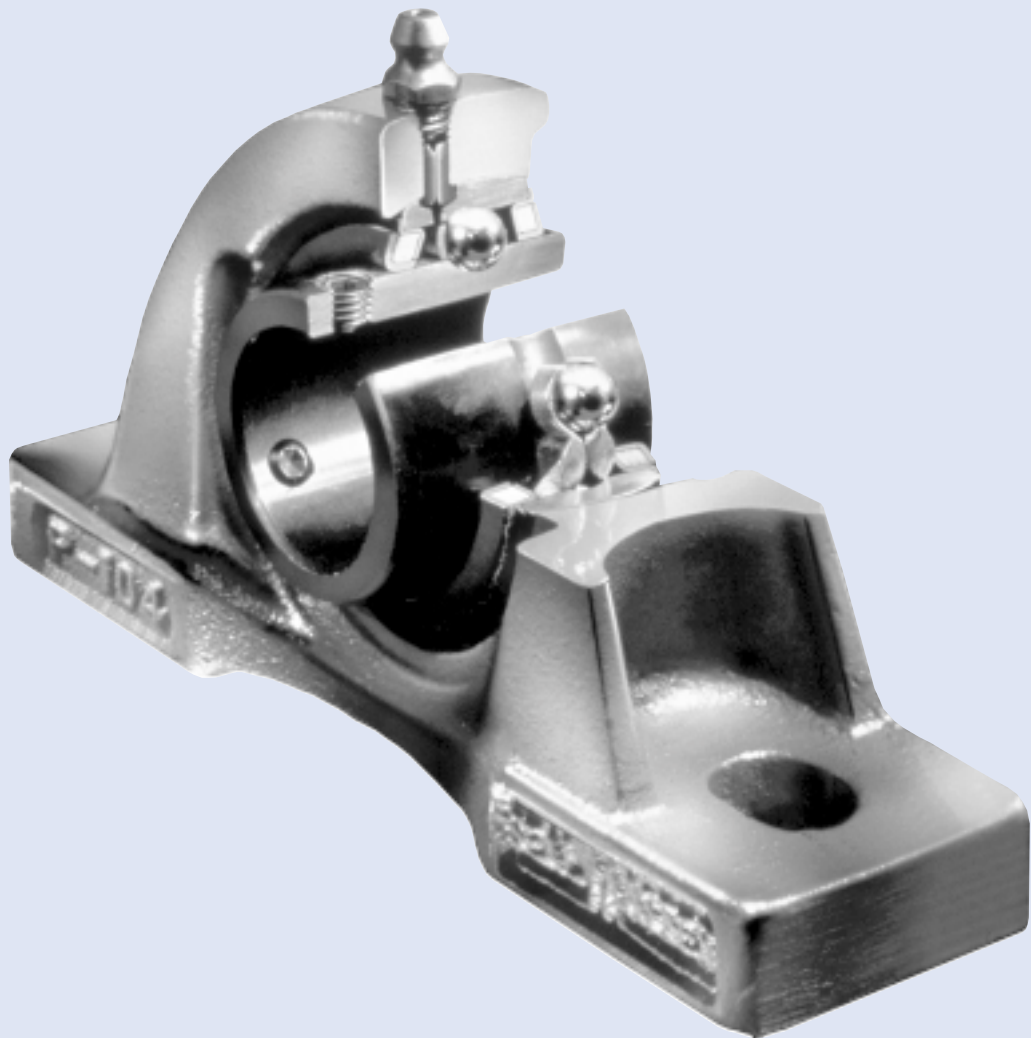
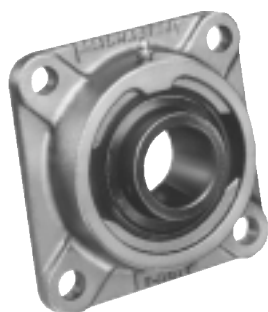


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SEALMASTER® MOUNTED BALL BEARINGS

STANDARD DUTY SERIES WITH SETSCREW LOCK		Housing Configuration	Lock	Available Bore Sizes (Inches)	Available Bore Sizes (Metric)	Other Important Features Selection Factors Application Information
	NP Dimensional Data See Page 20	High Base Pillow Block	Single	$\frac{1}{2}$ - $2\frac{7}{16}$	20-60	Most widely used normal duty pillow block with high base to shaft centerline dimensions.
	NPL Dimensional Data See Page 21	Low Base Pillow Block	Single	$\frac{1}{2}$ - $2\frac{7}{16}$	20-60	Generally used where low shaft to center dimensions exist.
	SP Dimensional Data See Page 24	Heavy Housing Pillow Block	Single	$\frac{13}{16}$ - $3\frac{7}{16}$	25-80	Interchanges shaft to centerline and bolt hole dimensions with other competitive designs.
	NPD Dimensional Data See Page 22	High Base Pillow Block	Double	$\frac{7}{8}$ - $2\frac{7}{16}$	*	Normal duty pillow block with extended inner race and dual locking setscrews.
	SPD Dimensional Data See Page 25	Heavy Housing Pillow Block	Double	$\frac{7}{8}$ - $3\frac{3}{16}$	*	Same as "SP" except double extended inner race and dual locking setscrews.
	TB Dimensional Data See Page 23	Tapped Base Pillow Block	Single	$\frac{1}{2}$ - 2	20-50	Tapped base units are well suited for applications where shafts are very close together.
	SF Dimensional Data See Page 28	Four Bolt Flange Block	Single	$\frac{1}{2}$ - $2\frac{15}{16}$	20-75	Designed for flush mounting with machined bases and four bolt holes.
	SFT Dimensional Data See Page 26	Two Bolt Flange Block	Single	$\frac{1}{2}$ - $2\frac{3}{16}$	20-55	Designed for flush mounting with machined bases for light loads and two bolt holes.
	FB Dimensional Data See Page 27	High Bracket Flange Block	Single	$\frac{1}{2}$ - 2	20-50	Narrow housing with three bolt holes on one side of the housing. Best used in very tight spaces & tail pulleys.
	SFC Dimensional Data See Page 29	Cartridge Flange Block	Single	$1\frac{1}{8}$ - $3\frac{3}{16}$	30-80	Four bolt flange with a round piloted surface extended from the mounting service. Designed for heavy loads, vibrating loads or shock loads.
	SC Dimensional Data See Page 33	Cylindrical Cartridge	Single	$\frac{1}{2}$ - $2\frac{15}{16}$	20-75	Cartridge units are similar to flange units. The most noticeable difference is that they are designed to be mounted in a customer's housing.
	SEHB Dimensional Data See Page 30	Eccentric Drive Hangar Brgs.	Single	$\frac{15}{16}$ - 4	25-100	A Hangar type bearing for eccentric loads with an external lube fitting.
	SCHB Dimensional Data See Page 31	Screw Conveyor Brgs.	Single	$\frac{15}{16}$ - 4	25-100	Designed for screw conveyors with lube capabilities thru the mounting pipe.
	ST Dimensional Data See Page 32	Wide Slot Take Ups	Single	$\frac{1}{2}$ - $3\frac{7}{16}$	20-80	Standard take ups are used with a fabricated frame for shaft adjustment.
	NPG & SPG Dimensional Data See Page 38-39	Unit & Frame Take Ups	Single	$\frac{7}{8}$ - $2\frac{15}{16}$	25-75	Available with standard pillow blocks and protected take up screws to adjust parallel shafts.
	STH Dimensional Data See Page 36-37	Unit & Frame Take Ups	Single	$\frac{7}{8}$ - $2\frac{15}{16}$	25-75	Wide slot take up frame including standard take up unit.

TYPE, SIZES, AVAILABILITY, SELECTION FACTORS

STANDARD DUTY SERIES WITH SETSCREW LOCK (Cont'd.)		Housing Configuration	Lock	Available Bore Sizes (Inches)	Available Bore Sizes (Metric)	Other Important Features	Selection Factors	Application Information
	INSERT Dimensional Data See Page 43	Inserts	Single	1/2 - 3 1/2	20-90	Designed for replacement in all housed units for both normal and medium duty applications.		
	INSERT Dimensional Data See Page 44	Inserts	Double	7/8 - 3 1/2	*	Designed for replacement in all housed units for both normal and medium duty applications.		
	ER Dimensional Data See Page 41	Style "A" Inserts	Single	1/2 - 4	20-80	Cylindrical O.D. designed to mount in customer's housing.		
	AR Dimensional Data See Page 42	Expansion Inserts	Single	1/2 - 3 1/2	20-90	Replacement insert for expansion type units.		
STANDARD DUTY SERIES WITH SKWEZLOC		Housing Configuration	Lock	Available Bore Sizes (Inches)	Available Bore Sizes (Metric)	Other Important Features	Selection Factors	Application Information
	NP-T Dimensional Data See Page 69	High Base Pillow Block	Single	3/4 - 2 15/16	See page 85	Most widely used normal duty pillow block with high base to shaft centerline dimensions.		
	NPL-T Dimensional Data See Page 69	Low Base Pillow Block	Single	3/4 - 2 15/16	See page 85	Generally used where low shaft to center dimensions exist.		
	SP-T Dimensional Data See Page 70	Heavy Housing Pillow Block	Single	1 3/16 - 3 7/16	*	Interchanges shaft to centerline and bolt hole dimensions with other competitive designs.		
	TB-T Dimensional Data See Page 71	Tapped Base Pillow Block	Single	1 5/16 - 2	See page 85	Tapped base units are well suited for applications where shafts are very close together.		
	TFT-T Dimensional Data See Page 71	Two Bolt Flange Block	Single	1 5/16 - 1 7/16	*	Two bolt flange with close bolt centers. Designed for Air Handling applications. Raised back face.		
	SF-T Dimensional Data See Page 72	Four Bolt Flange Block	Single	3/4 - 2 7/16	See page 85	Designed for flush mounting with machined bases and four bolt holes.		
	SFT-T Dimensional Data See Page 72	Two Bolt Flange Block	Single	3/4 - 2 7/16	See page 85	Designed for flush mounting with machined bases for light loads and two bolt holes.		
	FB-T Dimensional Data See Page 74	Bracket Flange Block	Single	1/2 - 2	See page 85	Narrow housing with three bolt holes on one side of the housing. Best used in very tight spaces & tail pulleys.		
	SFC-T Dimensional Data See Page 73	Cartridge Flange Block	Single	1 1/8 - 2 7/16	See page 85	Four bolt flange with a round piloted surface extended from the mounting service. Designed for heavy loads, vibrating loads or shock loads.		
	SC-T Dimensional Data See Page 73	Cylindrical Cartridge	Single	1 5/16 - 2 7/16	See page 85	Cartridge units are similar to flange units. The most noticeable difference is that they are designed to be mounted in a customer's housing.		

* Consult SEALMASTER for more information.

SEALMASTER® MOUNTED BALL BEARINGS

STANDARD DUTY SERIES WITH SKWEZLOC (Cont'd.)		Housing Configuration	Lock	Available Bore Sizes (Inches)	Available Bore Sizes (Metric)	Other Important Features	Selection Factors	Application Information
	ST-T Dimensional Data See Page 74	Unit Take Ups	Single	1/2 - 27/16	*	Standard take ups are used with a fabricated frame for shaft adjustment.		
	INSERT Dimensional Data See Page 76	Inserts	Single	3/4 - 27/16	See page 85	Designed for replacement in all housed units for both normal and medium duty applications.		
	ER-T Dimensional Data See Page 75	Style "A" Inserts	Single	3/4 - 27/16	See page 85	Cylindrical O.D. designed to mount in customer's housing. Used primarily in the printing industry.		
	AR-T Dimensional Data See Page 76	Expansion Inserts	Single	3/4 - 27/16	See page 85	Replacement insert for expansion type units.		
MEDIUM DUTY SERIES WITH SETSCREW		Housing Configuration	Lock	Available Bore Sizes (Inches)	Available Bore Sizes (Metric)	Other Important Features	Selection Factors	Application Information
	MP Dimensional Data See Page 47	Two Bolt Pillow Block	Single	15/16 - 4	25-100	Generally used in medium to heavy duty applications. Dimensionally interchangeable with many competitive units.		
	MPD Dimensional Data See Page 49	Two Bolt Pillow Block	Double	15/16 - 4	*	Medium duty pillow block with an extended inner race and dual setscrew locking.		
	EMP Dimensional Data See Page 48	Expansion Pillow Block	Single	15/16 - 4	25-80	Designed for medium duty applications where shaft expansion exists.		
	MFP Dimensional Data See Page 51	Four Bolt Pillow Block	Single	1 15/16 - 4 15/16	50-100	Large bore medium duty pillow block with four bolt base. Excellent for heavy shock loads.		
	MSPD Dimensional Data See Page 52	Two Bolt Pillow Block	Double	1 11/16 - 4 15/16	*	High base to center dimensions with extended inner race and dual locking setscrews.		
	MSFPD Dimensional Data See Page 53	Four Bolt Pillow Block	Double	1 15/16 - 4 15/16	*	Same as "MSPD" with four bolt base for heavy shock loads.		
	SPM Dimensional Data See Page 50	Two Bolt Pillow Block	Single	1 3/16 - 2 1/2	*	Designed for interchangeability with competitive units.		
	MSF Dimensional Data See Page 55	Four Bolt Flange Block	Single	15/16 - 4 15/16	25-100	For industrial machinery with medium to heavy loads and four bolt face mounting.		
	MSFT Dimensional Data See Page 54	Two Bolt Flange Block	Single	15/16 - 2	25-50	Medium duty two bolt flange for face mounting.		
	MSC Dimensional Data See Page 57	Cylindrical Cartridge	Single	15/16 - 4	25-100	Designed to fit in customer's housing and will handle medium loads and speeds.		
	MFC Dimensional Data See Page 56	Flange Cartridge	Single	15/16 - 4	25-100	Pilot dimension fits in customer's machine.		

TYPE, SIZES, AVAILABILITY, SELECTION FACTORS

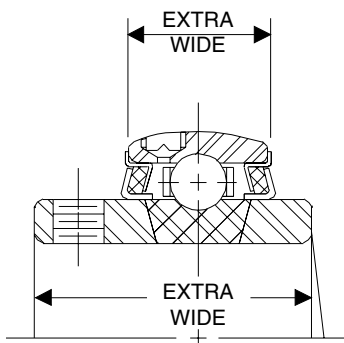
MEDIUM DUTY SERIES WITH SETSCREW (Cont'd.)		Housing Configuration	Lock	Available Bore Sizes (Inches)	Available Bore Sizes (Metric)	Other Important Features	Selection Factors	Application Information
	MST Dimensional Data See Page 58	Unit Take Up	Single	$15/16 - 4$	25-100	Wide slot medium duty take up used to move or adjust shafts.		
	INSERT Dimensional Data See Page 60	Inserts	Single	$15/16 - 4$	25-100	Designed for replacement in all housed units for both normal and medium duty applications.		
	INSERT Dimensional Data See Page 61	Inserts	Double	$15/16 - 4^{15/16}$	*	Designed for replacement in all housed units for both normal and medium duty applications.		
	AR Dimensional Data See Page 59	Expansion Inserts	Single	$15/16 - 4$	25-100	Replacement insert for expansion type units.		
MEDIUM DUTY SERIES WITH SKWEZLOC		Housing Configuration	Lock	Available Bore Sizes (Inches)	Available Bore Sizes (Metric)	Other Important Features	Selection Factors	Application Information
	MP-T Dimensional Data See Page 79	Two Bolt Pillow Block	Single	$1 - 2^{1/4}$	*	Generally used in medium to heavy duty applications. Dimensionally interchangeable with many competitive units.		
	EMP-T Dimensional Data See Page 79	Expansion Pillow Block	Single	$15/16 - 2^{7/16}$	*	Designed for medium duty applications where shaft expansion exists.		
	MSF-T Dimensional Data See Page 80	Four Bolt Flange Block	Single	$1 - 2^{1/4}$	*	For industrial machinery with medium to heavy loads and four bolt face mounting.		
	MSFT-T Dimensional Data See Page 80	Two Bolt Flange Block	Single	$1 - 2$	*	Medium duty two bolt flange for face mounting.		
	MSC-T Dimensional Data See Page 81	Cylindrical Cartridge	Single	$1 - 2^{1/4}$	*	Designed to fit in customer's housing and will handle medium loads and speeds.		
	MFC-T Dimensional Data See Page 81	Flange Cartridge	Single	$1 - 2^{1/4}$	*	Pilot dimension fits in customer's machine.		
	MST-T Dimensional Data See Page 82	Unit Take Up	Single	$1 - 2^{1/4}$	*	Wide slot medium duty take up used to move or adjust shafts.		
	INSERT Dimensional Data See Page 83	Inserts	Single	$1 - 2^{3/16}$	*	Designed for replacement in all housed units for both normal and medium duty applications.		
	AR-T Dimensional Data See Page 83	Expansion Inserts	Single	$1 - 2^{3/16}$	*	Replacement insert for expansion type units.		

* Consult SEALMASTER for more information.

THE GOLD STANDARD IS THE STANDARD OF SUPERIOR DESIGN

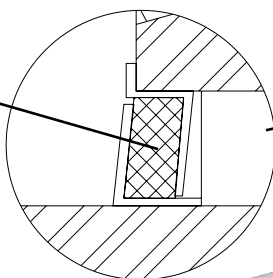
EXTRA WIDE INNER AND OUTER RACES...

provide better stability on the shaft and in the housing, plus extra grease capacity.



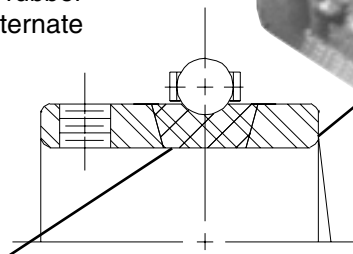
PATENTED FELT LABYRINTH SEAL...

with rotating flinger directs contamination away from the sealing surfaces. The felt design provides a tight labyrinth seal which retains grease and acts as a filter to exclude foreign material. The design operates with less drag and less heat generation than rubber contact seals. Alternate seals are available.



ZONE HARDENED INNER RACE...

provides fully hardened ball path while leaving race extension unhardened, allowing for exceptional control of setscrew holding power. Raceways are ground and honed to ensure longer life and quieter operation.

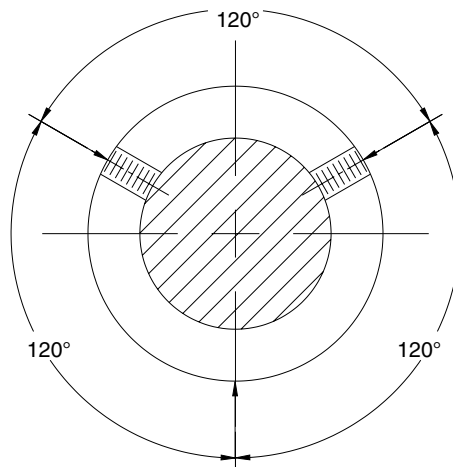


Ground thread setscrews with faceted cup points.



SPECIALLY-DESIGNED DIAMOND POINT CUP, GROUND THREAD SETSCREWS AT 120°...

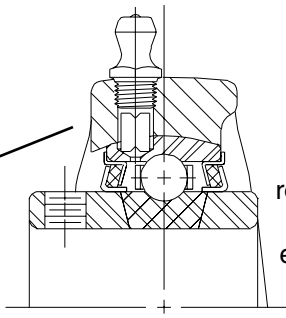
deliver superior shaft holding power with less race distortion than any other setscrew design.



Balanced 3-point contact

AVAILABLE IN THE
INDUSTRY'S WIDEST
BORE RANGE

FROM $\frac{1}{2}$ " THROUGH $4 \frac{15}{16}$ "

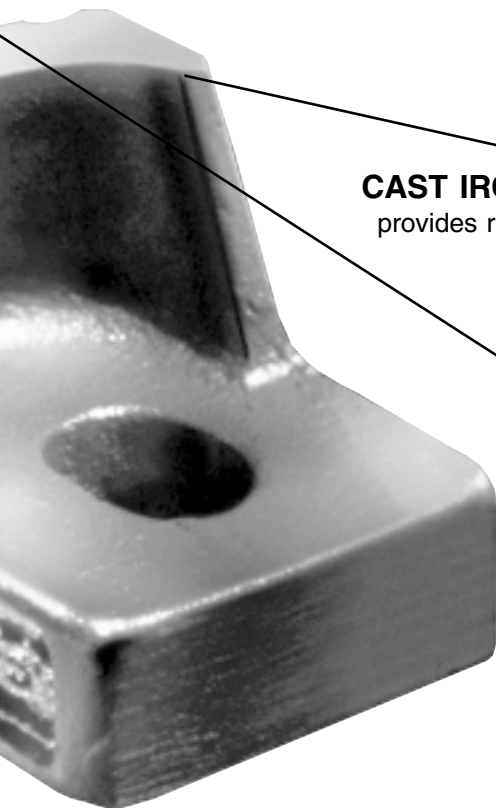


**EXCLUSIVE
LOCKING PIN AND
DIMPLE SYSTEM...**

prevents outer race rotation, allows a full $\pm 2^\circ$ misalignment and ensures direct lubrication into the bearing.

**INNER AND OUTER RACES OF
HIGH QUALITY 52100
VACUUM
DEGASSED STEEL...**

(HIGH CARBON, CHROME ALLOY)
ensure fatigue life reliability.



**SOLID BASE
CAST IRON HOUSING...**

provides rigidity and vibration damping.

OTHER QUALITY FEATURES AND OPTIONS HELP TO MAINTAIN THE HIGHEST STANDARDS

CORROSION-RESISTANT COATING

All exposed inner and outer ring surfaces are specially treated with black oxide for oil affinity and corrosion resistance. This is standard on all Gold Line bearings at no extra cost. (Note that competitors charge extra for this protective coating.)

PERMANENT NAMEPLATE

A metal nameplate containing the bearing's unit number and shaft size is firmly secured to each mounted bearing unit for long life and positive identification.

MODIFICATIONS AND OPTIONS INCREASE APPLICATION VERSATILITY

SEALMASTER bearing engineers welcome the opportunity to customize the Gold Line with modifications and optional features.

UNIQUE LAND RIDING METAL BALL RETAINER...

minimizes friction and provides maximum grease circulation. Retainer is designed to "float" on the ground extension (or lands) of the outer ring while spacing the balls precisely for more even load distribution. This minimizes wear on both balls and retainer, while maximizing stability, especially important in applications involving vibration, shock loading or high operating speeds. For applications involving high temperatures, $+200^\circ\text{F}$, land riding brass retainers are available.



SEALMASTER® MOUNTED BALL BEARINGS

MAXIMIZE USEFUL BEARING LIFE!

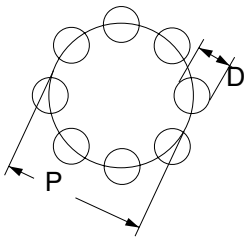
Ball Bearing Ratings

Series	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675	680	685	690	695	700	705	710	715	720	725	730	735	740	745	750	755	760	765	770	775	780	785	790	795	800	805	810	815	820	825	830	835	840	845	850	855	860	865	870	875	880	885	890	895	900	905	910	915	920	925	930	935	940	945	950	955	960	965	970	975	980	985	990	995	1000
--------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------

L-10 life is the theoretical number of hours that 90% of bearings should last based on a set of criteria established in 1990 by AFBMA (now known as ABMA). The formula is based on four design and calculates predicted life based on load and shaft speed.

L-10 Calculation Criteria

1. Ball Diameter (D)
2. Ball Path Pitch Diameter (P)
3. Number of Balls
4. Steel Selection and Quality



Most applications have problems that shorten useful bearing life.

Few bearings actually reach calculated L-10 potential.

The Sealmaster Gold Bearing design platform addresses many of these issues through a combination of unique and patented features.

**GOOD AS GOLD...
NO EQUAL!**

DIFFERENTIATED LUBRICATION AND SEALING SYSTEMS...



Most mounted bearings operate in conditions that challenge their sealing and lubrication systems. Sealmaster Gold ball bearings have a reputation for increasing application up-time. The unique features described in this shaded section each contribute to better sealing and improved lubrication effectiveness.

WHEN WAS THE LAST TIME YOU REPLACED A BEARING WITH A CRACKED RACE?

THAT'S WHAT METAL FATIGUE CAN DO!!

Bearings are typically selected on the basis of calculated L-10 Life only. Over 50 years of experience has indicated that most bearings never reach metal fatigue. The Sealmaster Gold Ball Bearing platform has become synonymous with problem solving by addressing operating factors with unique features designed to prolong bearing life.

Loss of shaft lock is another of the most typical modes of premature bearing failure. The Sealmaster design effectively addresses this problem. The interrelated features in this shaded section maximize the bearing hold to the shaft and provide other functional benefits. Please reference Sealmaster Double lock and SKWEZLOC products for additional information.

SUPERIOR SHAFT STABILITY...



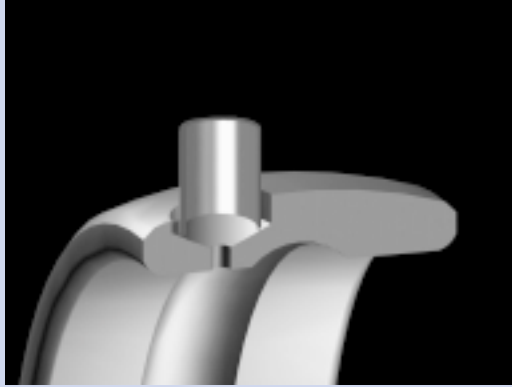
52100 High Quality Bearing Steel

Sealmaster Gold Line Bearings utilize high quality 52100 vacuum degassed steel. 52100 steel is widely recognized as a superior bearing steel. It is resistant to shock loading and carries high metal fatigue life ratings. In addition, Sealmaster specifies all steel to be vacuum degassed (VDG). This is an extra manufacturing operation to filter impurities and remove inclusions that often appear during steelmaking. The result is a cleaner and more pure material that is better able to withstand subsurface cracking and subsequent premature metal fatigue failures.

DIFFERENT...BY DESIGN!

Locking Pin and Dimple Direct Lubrication & Outer Ring Antirotation...

The Sealmaster exclusive locking pin and dimple system provides direct lubrication flow into the bearing chamber. The locking pin extends from directly beneath the zerk fitting into a dimple drilled into an extra wide outer race.



The floor of the dimple is also the grease port of entry to the ball path. This design minimizes the chances of contaminants or oxidized grease from inhibiting relubrication. The locking pin also properly positions the bearing insert within the housing configuration and allows for ± 2 degrees misalignment. Further, the locking pin prevents outer race rotation (sometimes referred to as "creep"). In other bearing designs where outer race rotation often occurs, the lubrication system may be compromised and the user's ability to re-lubricate the bearing is diminished. The Sealmaster locking pin and dimple system is a most important feature contributing to longer useful bearing life...available only on **Sealmaster Gold...Different by Design!**

Extra Wide Outer Race...

Sealmaster has the industry's widest outer race. Ranging from 13% to 26% wider than competitive units. This feature provides a significant surface area for the absorption of shock loads. More importantly, the wide race creates a large internal grease chamber. As previously mentioned, lubrication issues are the leading causes of bearing failures. The extra grease extends useful bearing life. **Better by design...No Equal!**



Extra Wide Inner Race...

Sealmaster long inner race provides greater surface contact with the shaft for stability and wide load distribution. This is critical on applications where vibration, shock, and reciprocating motion exist.



**SOLID CAST
IRON HOUSING**

Rugged cast iron housings...

Solid bases are standard on Sealmaster Gold ball bearing pillow blocks. The rugged solid face absorbs shock loads and distributes forces throughout the housing. This construction is also key on mounting surfaces such as sheet metal where "buckling" of the structure may occur when hollow foot castings are used. We encourage you to visually inspect the difference! **Extra Tough...More Value!**

SEALMASTER® MOUNTED BALL BEARINGS



PATENTED FELT LINED FLINGER



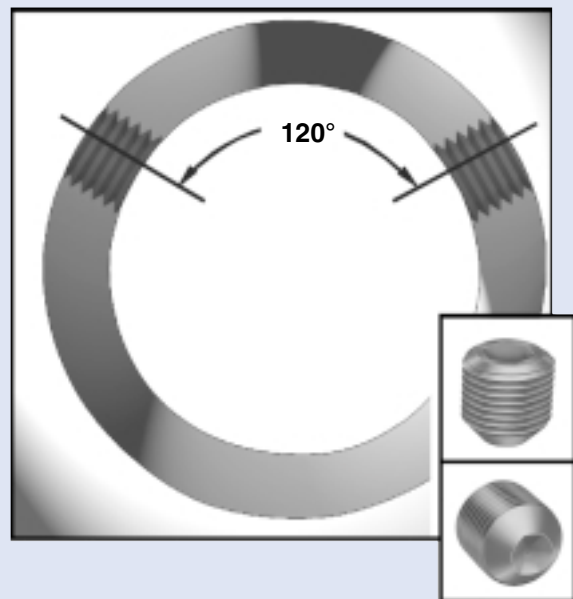
The Sealmaster labyrinth felt seal (our name Sealmaster means "Master Seal") is the industry benchmark for keeping contaminants out and lubrication in! The design incorporates a series of passageways with a highly effective filtering media that together block the ingress of contaminants and allow for the purging of oxidized grease during re-lubrication. Protective metal flingers are primary factors in seal performance. The inner flinger is pressed into the outer race and is a stationary foundation for the sealing system. The outer flinger, the first barrier to contaminant entry, is attached to the inner race and therefore rotates with the shaft. The rotation of the outer flinger offers two significant benefits. The first is the creation of a centrifugal force that repels debris by "slinging" it away from the seal area. The second is an extension of the flinger internally into the bearing chamber that initiates a vortex that churns the lubricant back toward the ball path where it is needed most! ***Sealmaster's Master Seal is more than a seal...it is an integral part of our bearing system that extends useful bearing life.***

120° SET SCREW POSITION AND PRECISION GROUND DIAMOND FACETED SET SCREWS



Roundness of the inner race is uniformly accepted as a critical factor effecting overall bearing performance. Sealmaster set screws located 120° apart provide for a balanced 3-point contact. This evenly positioned shaft lock design is particularly important in high speed applications where any eccentricity is magnified. ***See pages 64-68 for information about Sealmaster Skwezloc concentric locking device...the Sealmaster ultimate in concentricity and true rolling motion.***

Every component of the Sealmaster Gold design has more than one purpose. Sealmaster Gold Ball Bearings come standard with precision ground (not rolled) setscrews that mate effectively with our inner race post heat treat drilled and tapped setscrew holes. These premium setscrews also incorporate a diamond faceted point (more effective than cup-point or knurled) that tightly secures the setscrews to the shaft and resists any reverse rotation or backout.



BLACK OXIDE CORROSION RESISTANT RACES

Sealmaster inner and outer races and seal flingers are processed through an alkaline solution. This chemically primes the surface of the steel for better lubrication retention and corrosion resistance. Unlike many competitors Sealmaster provides black oxide as a standard feature. **More Value...No Added Cost!**

DIFFERENT...BY DESIGN!

UNIQUE METAL LANDRIDING RETAINER...

Another exclusive feature is the Sealmaster metal land riding retainer. The retainer may be considered the "heart" of the bearing and the Sealmaster retainer is particularly strong. The retainer is metal instead of nylon as found in other designs. This strength is especially important under heavily loaded situations where the accurate spacing of the bearing balls is critical. Further, the land riding design allows for free 360 degree circulation of lubricant around the balls and into the ball paths that contributes to higher speed capability. Another benefit is the collection of grease in the retainer's recessed ball pockets that allows for a gradual release of oil as needed. The Sealmaster metal land riding retainer is key to cooler running, longer grease life, and high speed capability. **More Value...Different by Design!**



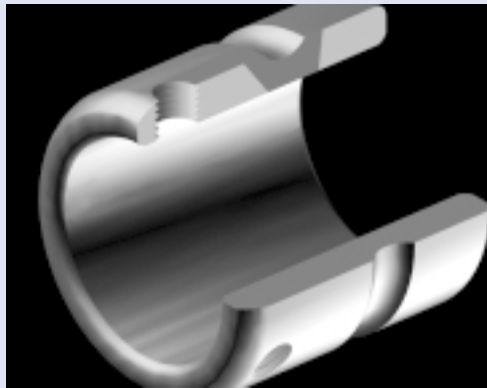
**MAXIMUM
USEFUL
BEARING
LIFE**

***DIFFERENTRATED
LUBRICATION
AND
SEALING SYSTEMS***



ZONE HARDENED INNER RACE...

Sealmaster incorporates a unique heat treat process that hardens the inner race only where it is needed...underneath the ball path! This permits the extended portion of the inner race to remain unhardened and allows for tapping set screws holes after heat treat. This process does not distort the tapped threads in the set screw holes that creates a tightly meshed system and an effective, secure lock. **Excellent hold on the Shaft!**



***SUPERIOR
SHAFT STABILITY***



PERMANENT METAL NAMEPLATE...

Sealmaster takes pride in the details. The Sealmaster metal nameplate is an additional example of outstanding value. Each metal name plate is riveted to the housing and is able to withstand the many expected years of bearing operation. **Good As Gold...with No Equal!**



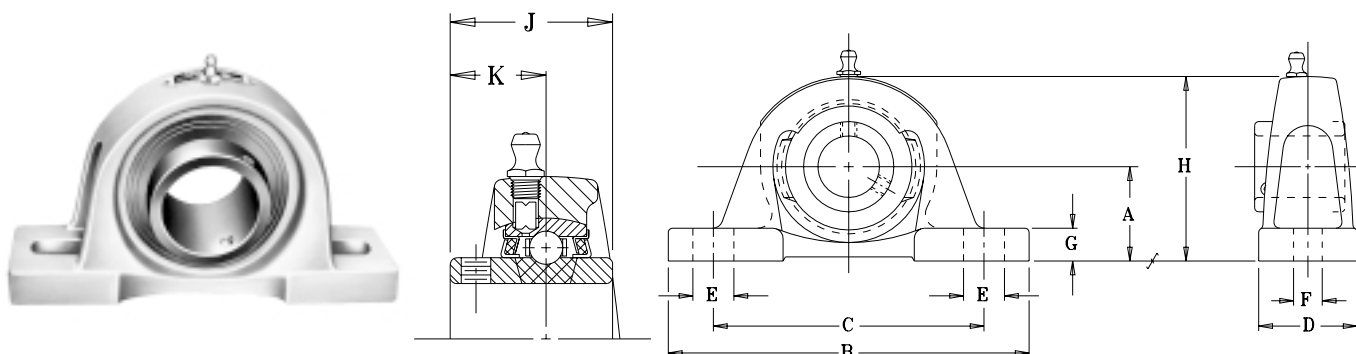
***GOOD AS
GOLD...***

NO EQUAL!



MOUNTED BALL BEARINGS

SEALMASTER®



NP Series Standard Duty Pillow Blocks...Setscrew Locking

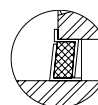
SHAFT DIAM.		PART NO.	BRG. NO.	Dimensions in Inches											BOLT SIZE IN.	UNIT WT.
				A	B	C		D	E	F	G	H	J	K		
IN	MM	MIN.	MAX.													
1/2 9/16 5/8 11/16		NP-8 NP-9 NP-10 NP-11	2-08 2-09 2-010 2-011	1 3/16	5	3 3/8	4 1/8	1 1/2	3/4	7/16	1/2	2 7/16	1 7/32	23/32	3/8	1.7
3/4	20	NP-12 NP-204	2-012 5204	1 5/16	5	3 3/8	4 1/8	1 1/2	3/4	7/16	1/2	2 9/16	1 7/32	23/32	3/8	1.9
13/16 7/8 15/16 1	25	NP-13 NP-14 NP-15 NP-16 NP-205	2-013 2-014 2-015 2-1 5205	1 7/16	5 1/2	3 7/8	4 3/8	1 1/2	5/8	7/16	1/2	2 13/16	1 3/8	13/16	3/8	2.2
1 1/16 1 1/8 1 3/16 1 1/4	30	NP-17 NP-18 NP-19 NP-20R NP-206	2-11 2-12 2-13 1-14 5206	1 11/16	6 1/2	4 7/16	5 1/16	1 7/8	13/16	9/16	9/16	3 3/8	1 1/2	7/8	1/2	3.6
1 1/4 1 5/16 1 3/8 1 7/16	35	NP-20 NP-21 NP-22 NP-23 NP-207	2-14 2-15 2-16 2-17 5207	1 7/8	6 9/16	4 11/16	5 5/16	1 7/8	13/16	9/16	5/8	3 3/4	1 11/16	1	1/2	4.5
1 1/2 1 9/16	40	NP-24 NP-25 NP-208	2-18 2-19 5208	1 15/16	7 1/4	4 7/8	5 7/8	2 1/8	1	9/16	11/16	3 15/16	1 15/16	1 3/16	1/2	5.7
1 5/8 1 11/16 1 3/4	45	NP-26 NP-27 NP-28 NP-209	2-110 2-111 2-112 5209	2 1/8	7 1/2	5 7/16	6 1/16	2 1/8	13/16	9/16	11/16	4 1/4	1 15/16	1 3/16	1/2	6.5
1 13/16 1 7/8 1 15/16 2	50	NP-29 NP-30 NP-31 NP-32R NP-210	2-113 2-114 2-115 1-2 5210	2 1/4	8 1/8	6	6 1/2	2 3/8	7/8	11/16	3/4	4 9/16	2 1/32	1 9/32	5/8	7.9
2 2 1/8 2 3/16	55	NP-32 NP-34 NP-35 NP-211	2-2 2-22 2-23 5211	2 1/2	8 5/8	6 1/2	7	2 3/8	7/8	11/16	3/4	5	2 3/16	1 5/16	5/8	9.7
2 1/4 2 3/8 2 7/16	60	NP-36 NP-38 NP-39 NP-212	2-24 2-26 2-27 5212	2 3/4	9 1/2	6 7/8	7 5/8	2 3/4	1	11/16	7/8	5 9/16	2 9/16	1 9/16	5/8	13.7

For Load Ratings, see page 45.

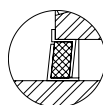
For Standard Duty Bearing Inserts-Single Lock, see page 43.



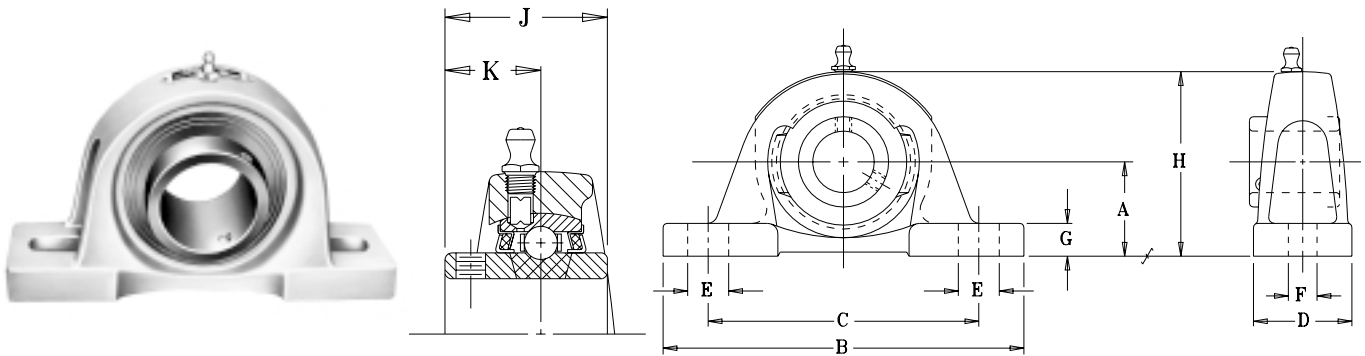
Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail. To specify, add suffix "C" (NP-16C).



Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range. (See seal options on page 188.)



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



NPL Series Standard Duty Pillow Blocks...Setscrew Locking

SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions in Inches											BOLT SIZE IN.	UNIT WT.
			A	B	C		D	E	F	G	H	J	K		
IN	MM	MIN.			MAX.										
1/2 9/16 5/8 11/16	NPL-8 NPL-9 NPL-10 NPL-11	2-08 2-09 2-010 2-011	1 1/16	5	3 3/8	4 1/8	1 1/2	3/4	7/16	3/8	2 5/16	1 7/32	23/32	3/8	1.7
3/4 20	NPL-12 NPL-204	2-012 5204	1 1/4	5	3 3/8	4 1/8	1 1/2	3/4	7/16	7/16	2 1/2	1 7/32	23/32	3/8	1.7
13/16 7/8 15/16 1	NPL-13 NPL-14 NPL-15 NPL-16 NPL-205	2-013 2-014 2-015 2-1 5205	1 5/16	5 1/2	3 7/8	4 3/8	1 1/2	5/8	7/16	1/2	2 11/16	1 3/8	13/16	3/8	2.0
1 1/16 1 1/8 1 3/16 1 1/4	NPL-17 NPL-18 NPL-19 NPL-20R NPL-206	2-11 2-12 2-13 1-14 5206	1 9/16	6 1/2	4 7/16	5 1/16	1 7/8	13/16	9/16	7/16	3 1/4	1 1/2	7/8	1/2	3.6
1 1/4 1 5/16 1 3/8 1 7/16	NPL-20 NPL-21 NPL-22 NPL-23 NPL-207	2-14 2-15 2-16 2-17 5207	1 13/16	6 9/16	4 11/16	5 5/16	1 7/8	13/16	9/16	9/16	3 11/16	1 11/16	1	1/2	4.4
1 1/2 1 9/16	NPL-24 NPL-25 NPL-208	2-18 2-19 5208	1 15/16	7 1/4	4 7/8	5 7/8	2 1/8	1	9/16	11/16	3 15/16	1 15/16	1 3/16	1/2	5.7
1 5/8 1 11/16 1 3/4	NPL-26 NPL-27 NPL-28 NPL-209	2-110 2-111 2-112 5209	2 1/16	7 1/2	5 7/16	6 1/16	2 1/8	13/16	9/16	5/8	4 3/16	1 15/16	1 3/16	1/2	6.2
1 13/16 1 7/8 1 15/16 2	NPL-29 NPL-30 NPL-31 NPL-32R NPL-210	2-113 2-114 2-115 1-2 5210	2 3/16	8 1/8	6	6 1/2	2 3/8	7/8	11/16	11/16	4 1/2	2 1/32	1 9/32	5/8	7.8
2 2 1/8 2 3/16	NPL-32 NPL-34 NPL-35 NPL-211	2-2 2-22 2-23 5211	2 7/16	8 5/8	6 1/2	7	2 3/8	7/8	11/16	11/16	4 15/16	2 3/16	1 5/16	5/8	9.6
2 1/4 2 3/8 2 7/16	NPL-36 NPL-38 NPL-39 NPL-212	2-24 2-26 2-27 5212	2 11/16	9 1/2	6 7/8	7 5/8	2 3/4	1	11/16	13/16	5 1/2	2 9/16	1 9/16	5/8	13.5

For Load Ratings, see page 45.

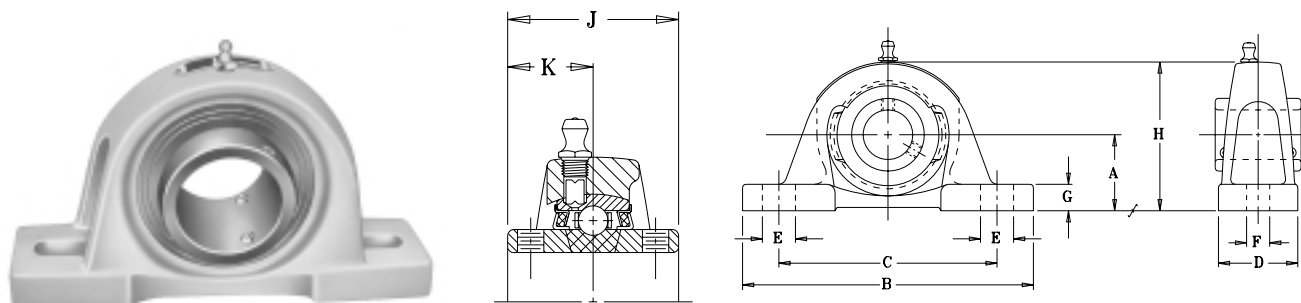
For Standard Duty Bearing Inserts-Single Lock, see page 43.

See page 20 for seal arrangements.



MOUNTED BALL BEARINGS

SEALMASTER®

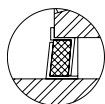


NPD Series Standard Duty Pillow Blocks with Double Lock...Setscrew Locking

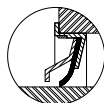
SHAFT DIAM.		PART NO.	BRG. NO.	Dimensions in Inches										BOLT SIZE IN.	UNIT WT.	
				A	B	C		D	E	F	G	H	J			K
IN	MM	MIN.	MAX.													
7/8 15/16 1		NPD-14 NPD-15 NPD-16	2-014D 2-015D 2-1D	1 7/16	5 1/2	3 7/8	4 3/8	1 1/2	5/8	7/16	1/2	2 13/16	1 1/2	3/4	3/8	2.4
1 1/16 1 1/8 1 3/16		NPD-17 NPD-18 NPD-19	2-11D 2-12D 2-13D	1 11/16	6 1/2	4 7/16	5 1/16	1 7/8	13/16	9/16	9/16	3 3/8	1 3/4	7/8	1/2	3.8
1 1/4 1 5/16 1 3/8 1 7/16		NPD-20 NPD-21 NPD-22 NPD-23	2-14D 2-15D 2-16D 2-17D	1 7/8	6 9/16	4 11/16	5 5/16	1 7/8	13/16	9/16	5/8	3 3/4	2	1	1/2	4.7
1 1/2 1 9/16		NPD-24 NPD-25	2-18D 2-19D	1 15/16	7 1/4	4 7/8	5 7/8	2 1/8	1	9/16	11/16	3 15/16	2 5/16	1 5/32	1/2	6.0
1 5/8 1 11/16 1 3/4		NPD-26 NPD-27 NPD-28	2-110D 2-111D 2-112D	2 1/8	7 1/2	5 7/16	6 1/16	2 1/8	13/16	9/16	11/16	4 1/4	2 3/8	1 3/16	1/2	6.5
1 7/8 1 15/16		NPD-30 NPD-31	2-114D 2-115D	2 1/4	8 1/8	6	6 1/2	2 3/8	7/8	11/16	3/4	4 9/16	2 1/2	1 1/4	5/8	8.3
2 2 1/8 2 3/16		NPD-32 NPD-34 NPD-35	2-2D 2-22D 2-23D	2 1/2	8 5/8	6 1/2	7	2 3/8	7/8	11/16	3/4	5	2 5/8	1 5/16	5/8	10.0
2 1/4 2 3/8 2 7/16		NPD-36 NPD-38 NPD-39	2-24D 2-26D 2-27D	2 3/4	9 1/2	6 7/8	7 5/8	2 3/4	1	11/16	7/8	5 9/16	3 1/8	1 9/16	5/8	14.0

For Load Ratings, see page 45.

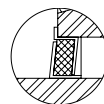
For Standard Duty Bearing Inserts-Double lock, see page 44.



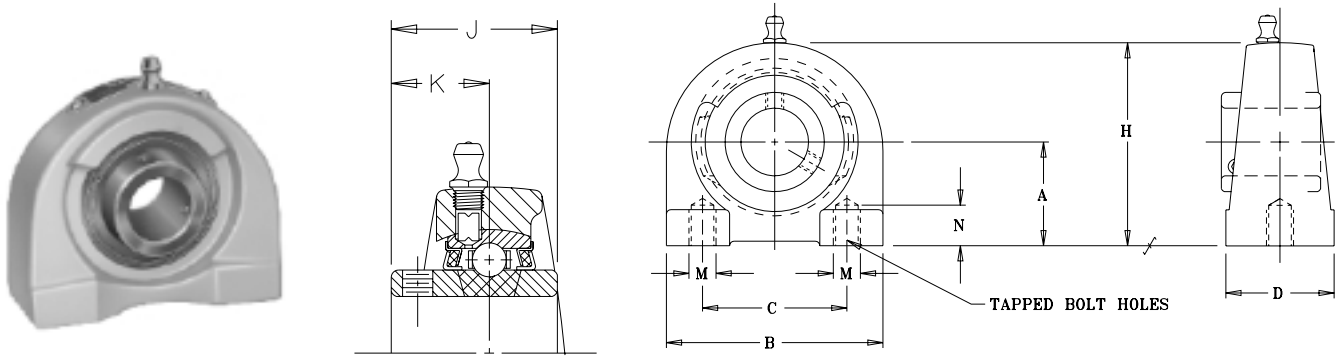
Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail.
To specify, add suffix "C" (NPD-16C).



Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range.
(See seal options on page 188).



TB Series Tapped Base Pillow Blocks...Setscrew Locking

SHAFT DIAM.		PART NO.	BRG. NO.	Dimensions in Inches						N MIN. TAP DEPTH	M BOLT UNC-2B THD	UNIT WT.	
IN	MM			A	B	C	D	H	J				K
1/2 9/16 5/8 11/16 3/4 20		TB-8 TB-9 TB-10 TB-11 TB-12 TB-204	2-08 2-09 2-010 2-011 2-012 5204	1 5/16	3 1/8	2	1 1/2	2 9/16	1 7/32	23/32	1/2	3/8-16	1.8
13/16 7/8 15/16 1 25		TB-13 TB-14 TB-15 TB-16 TB-205	2-013 2-014 2-015 2-1 5205	1 7/16	3	2	1 1/2	2 13/16	1 3/8	13/16	1/2	3/8-16	2.0
1 1/16 1 1/8 1 3/16 1 1/4 30		TB-17 TB-18 TB-19 TB-20R TB-206	2-11 2-12 2-13 1-14 5206	1 11/16	4	3	1 1/2	3 13/32	1 1/2	7/8	5/8	7/16-14	3.5
1 1/4 1 5/16 1 3/8 1 7/16 35		TB-20 TB-21 TB-22 TB-23 TB-207	2-14 2-15 2-16 2-17 5207	1 7/8	4 1/4	3 1/4	1 7/8	3 3/4	1 11/16	1	3/4	1/2-13	4.5
1 1/2 1 9/16 40		TB-24 TB-25 TB-208	2-18 2-19 5208	1 15/16	4 5/8	3 1/2	1 7/8	3 15/16	1 15/16	1 3/16	3/4	1/2-13	6.0
1 5/8 1 11/16 1 3/4 45		TB-26 TB-27 TB-28 TB-209	2-110 2-111 2-112 5209	2 1/8	5	3 3/4	2	4 1/4	1 15/16	1 3/16	3/4	1/2-13	6.50
1 13/16 1 7/8 1 15/16 2 50		TB-29 TB-30 TB-31 TB-32R TB-210	2-113 2-114 2-115 1-2 5210	2 1/4	5 1/2	4	2	4 5/8	2 1/32	1 9/32	7/8	5/8-11	8.0

For Load Ratings, see page 45.

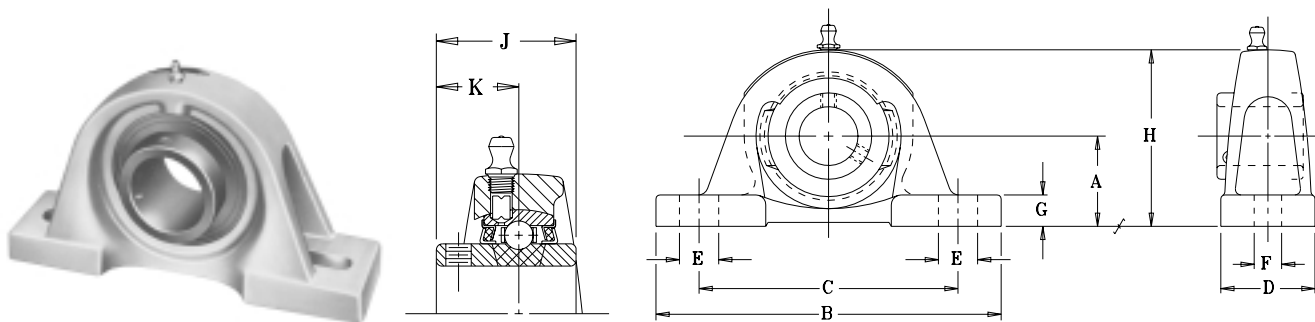
For Standard Duty Bearing Inserts-Single Lock, see page 43.

See page 22 for seal arrangements.



MOUNTED BALL BEARINGS

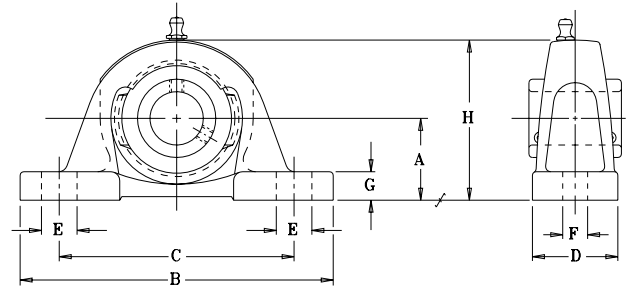
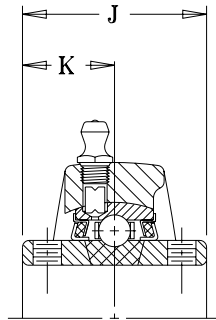
SEALMASTER®



SP Series Standard Duty Pillow Blocks...Setscrew Locking

SHAFT DIAM.		PART NO.	BRG. NO.	Dimensions in Inches										BOLT SIZE IN.	UNIT WT.	
				A	B	C		D	E	F	G	H	J			K
IN	MM	MIN.	MAX.													
13/16 7/8 15/16 1	25	SP-13 SP-14 SP-15 SP-16 SP-205	2-013 2-014 2-015 2-1 5205	1 3/4	7	5 1/8	5 5/8	2	3/4	9/16	9/16	3 5/16	1 3/8	13/16	1/2	3.6
1 1/16 1 1/8 1 3/16 1 1/4	30	SP-17 SP-18 SP-19 SP-20R SP-206	2-11 2-12 2-13 1-14 5206	2	7 1/2	5 3/8	6 1/8	2	7/8	9/16	5/8	3 7/8	1 1/2	7/8	1/2	5.0
1 1/4 1 5/16 1 3/8 1 7/16	35	SP-20 SP-21 SP-22 SP-23 SP-207	2-14 2-15 2-16 2-17 5207	2 3/8	8 1/4	5 5/8	6 7/8	2 1/4	1 1/4	3/4	3/4	4 1/2	1 11/16	1	5/8	7.0
1 1/2 1 9/16	40	SP-24 SP-25 SP-208	2-18 2-19 5208	2 5/16	8 1/2	5 7/8	7 1/8	2 3/8	1 1/4	3/4	3/4	4 9/16	1 15/16	1 3/16	5/8	7.6
1 5/8 1 11/16 1 3/4	45	SP-26 SP-27 SP-28 SP-209	2-110 2-111 2-112 5209	2 3/8	8 3/4	5 7/8	7 1/8	2 3/8	1 1/4	3/4	3/4	4 5/8	1 15/16	1 3/16	5/8	8.1
1 13/16 1 7/8 1 15/16 2	50	SP-29 SP-30 SP-31 SP-32R SP-210	2-113 2-114 2-115 1-2 5210	2 3/4	10 1/2	6 3/4	8 1/2	2 1/2	1 1/2	3/4	7/8	5 5/16	2 1/32	1 9/32	5/8	11.6
2 2 1/8 2 3/16	55	SP-32 SP-34 SP-35 SP-211	2-2 2-22 2-23 5211	3 1/8	11 1/4	7 5/8	9 3/8	2 3/4	1 1/2	3/4	7/8	5 15/16	2 3/16	1 5/16	5/8	14.1
2 1/4 2 3/8 2 7/16	60	SP-36 SP-38 SP-39 SP-212	2-24 2-26 2-27 5212	3 1/8	11 1/2	7 7/8	9 3/8	3	1 1/2	7/8	7/8	6 1/16	2 9/16	1 9/16	3/4	16.5
2 1/2 2 11/16	70	SP-40 SP-43 SP-214	3-28 2-211 5214	3 3/4	12 5/8	9 3/8	10 5/8	3 3/8	1 3/8	7/8	1	7 1/8	2 3/4	1 11/16	3/4	26.3
2 7/8 2 15/16	75	SP-46 SP-47 SP-215	2-214 2-215 5215	3 3/4	13	9 1/4	10 3/4	3 3/8	1 1/2	7/8	1	7 3/16	3 1/16	1 3/4	3/4	26.6
3 3 3/16	80	SP-48 SP-51 SP-216	3-3 2-33 5216	4	14 1/2	10 5/8	12 1/8	3 3/4	1 1/2	7/8	1 1/8	7 13/16	3 1/4	1 15/16	3/4	34.0
3 1/4 3 3/8 3 7/16		SP-52 SP-54 SP-55	2-34 2-36 2-37	4	15	9 5/8	11 7/8	4 1/4	2	1	1 1/4	8 1/16	3 3/8	2 1/32	7/8	42.1

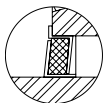
For Load Ratings, see page 45. For Standard Duty Bearing Inserts-Single Lock, see page 43. See page 22 for seal arrangements. See page 188 for custom seals.



SPD Series Standard Duty Pillow Blocks with Double Lock...Setscrew Locking

SHAFT DIAM.		PART NO.	BRG. NO.	Dimensions in Inches										SIZE IN.	UNIT WT.
				A	B	C		D	E	F	G	H	J		
IN	MM	MIN.	MAX.												
7/8 15/16 1	SPD-14 SPD-15 SPD-16	2-014D 2-015D 2-1D	1 3/4	7	5 1/8	5 5/8	2	3/4	9/16	9/16	3 5/16	1 1/2	3/4	1/2	3.6
1 1/16 1 1/8 1 3/16	SPD-17 SPD-18 SPD-19	2-11D 2-12D 2-13D	2	7 1/2	5 3/8	6 1/8	2	7/8	9/16	5/8	3 7/8	1 3/4	7/8	1/2	5.0
1 1/4 1 5/16 1 3/8 1 7/16	SPD-20 SPD-21 SPD-22 SPD-23	2-14D 2-15D 2-16D 2-17D	2 3/8	8 1/4	5 5/8	6 7/8	2 1/4	1 1/4	3/4	3/4	4 1/2	2	1	5/8	7.2
1 1/2 1 9/16	SPD-24 SPD-25	2-18D 2-19D	2 5/16	8 1/2	5 7/8	7 1/8	2 3/8	1 1/4	3/4	3/4	4 9/16	2 5/16	1 5/32	5/8	7.7
1 5/8 1 11/16 1 3/4	SPD-26 SPD-27 SPD-28	2-110D 2-111D 2-112D	2 3/8	8 3/4	5 7/8	7 1/8	2 3/8	1 1/4	3/4	3/4	4 5/8	2 3/8	1 3/16	5/8	8.3
1 7/8 1 15/16	SPD-30 SPD-31	2-114D 2-115D	2 3/4	10 1/2	6 3/4	8 1/2	2 1/2	1 1/2	3/4	7/8	5 5/16	2 1/2	1 1/4	5/8	11.6
2 2 1/8 2 3/16	SPD-32 SPD-34 SPD-35	2-2D 2-22D 2-23D	3 1/8	11 1/4	7 5/8	9 3/8	2 3/4	1 1/2	3/4	7/8	5 15/16	2 5/8	1 5/16	5/8	14.1
2 1/4 2 3/8 2 7/16	SPD-36 SPD-38 SPD-39	2-24D 2-26D 2-27D	3 1/8	11 1/2	7 7/8	9 3/8	3	1 1/2	7/8	7/8	6 1/16	3 1/8	1 9/16	3/4	17.0
2 1/2 2 11/16	SPD-40 SPD-43	3-28D 2-211D	3 3/4	12 5/8	9 3/8	10 5/8	3 3/8	1 3/8	7/8	1	7 1/8	3 1/2	1 3/4	3/4	26.8
2 7/8 2 15/16	SPD-46 SPD-47	2-214D 2-215D	3 3/4	13	9 1/4	10 3/4	3 3/8	1 1/2	7/8	1	7 3/16	3 1/2	1 3/4	3/4	26.8
3 3 3/16	SPD-48 SPD-51	3-3D 2-33D	4	14 1/2	10 5/8	12 1/8	3 3/4	1 1/2	7/8	1 1/8	7 13/16	3 7/8	1 15/16	3/4	34.5

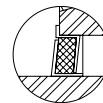
For Load Ratings, see page 45. For Standard Duty Bearing Inserts-Double Lock, see page 44.
See page 188 for custom seals.



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail.
To specify, add suffix "C" (NPD-16C).

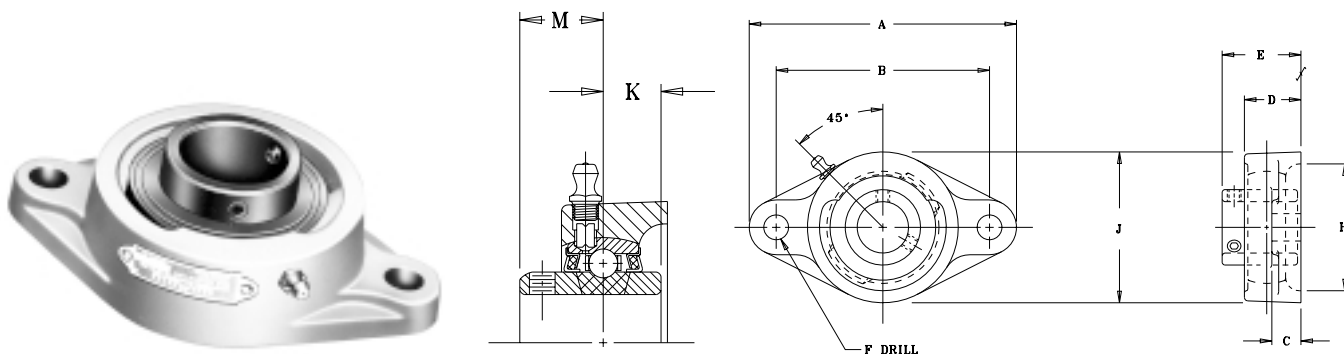


Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range.
(See seal options on page 188).



MOUNTED BALL BEARINGS

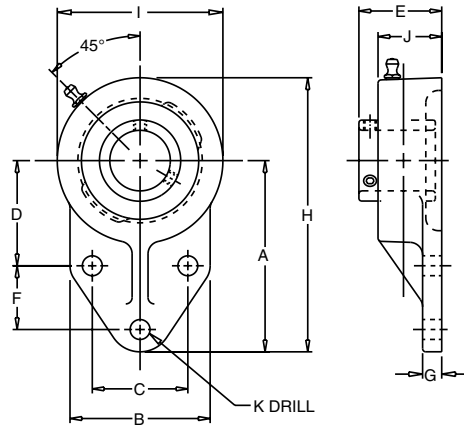
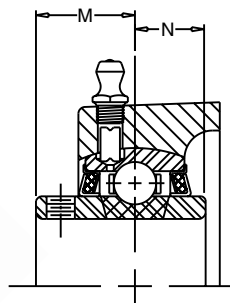
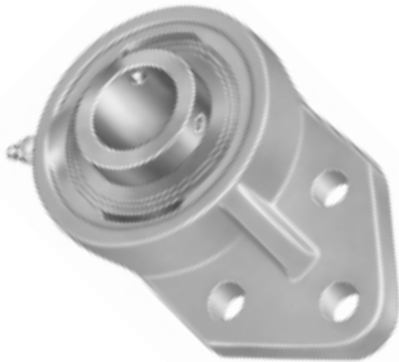
SEALMASTER®



SFT Series Standard Duty Two-Bolt Flange Units...Setscrew Locking

SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions in Inches										UNIT WT.
			A	B	C	D	E	F	H CORED	J	K	M	
1/2 9/16 5/8 11/16	SFT-8 SFT-9 SFT-10 SFT-11	2-08 2-09 2-010 2-011	3 7/8	3	7/16	15/16	1 9/32	13/32	1 15/16	2 5/16	1/2	23/32	1.2
3/4 20	SFT-12 SFT-204	2-012 5204	4 13/32	3 17/32	7/16	15/16	1 9/32	13/32	2	2 3/8	1/2	23/32	1.2
13/16 7/8 15/16 1 25	SFT-13 SFT-14 SFT-15 SFT-16 SFT-205	2-013 2-014 2-015 2-1 5205	4 7/8	3 57/64	17/32	1 1/32	1 7/16	15/32	2 3/8	2 3/4	9/16	13/16	1.6
1 1/16 1 1/8 1 3/16 1 1/4 30	SFT-17 SFT-18 SFT-19 SFT-20R SFT-206	2-11 2-12 2-13 1-14 5206	5 9/16	4 19/32	17/32	1 11/64	1 9/16	15/32	2 7/8	3 1/4	5/8	7/8	2.2
1 1/4 1 5/16 1 3/8 1 7/16 35	SFT-20 SFT-21 SFT-22 SFT-23 SFT-207	2-14 2-15 2-16 2-17 5207	6 1/8	5 1/8	9/16	1 11/32	1 3/4	17/32	3 5/16	3 3/4	11/16	1	3.2
1 1/2 1 9/16 40	SFT-24 SFT-25 SFT-208	2-18 2-19 5208	6 3/4	5 21/32	9/16	1 1/2	2 1/64	17/32	3 1/2	4 1/8	3/4	1 3/16	4.5
1 5/8 1 11/16 1 3/4 45	SFT-26 SFT-27 SFT-28 SFT-209	2-110 2-111 2-112 5209	7 1/16	5 27/32	9/16	1 9/16	2 3/64	19/32	3 7/8	4 3/8	3/4	1 3/16	5.0
1 13/16 1 7/8 1 15/16 2 50	SFT-29 SFT-30 SFT-31 SFT-32R SFT-210	2-113 2-114 2-115 1-2 5210	7 7/16	6 3/16	9/16	1 9/16	2 5/32	19/32	4	4 9/16	3/4	1 9/32	5.4
2 2 1/8 2 3/16 55	SFT-32 SFT-34 SFT-35 SFT-211	2-2 2-22 2-23 5211	8 1/2	7 1/4	13/16	1 3/4	2 5/16	21/32	4 1/4	5 1/4	7/8	1-5/16	8.4

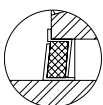
For Load Ratings, see page 45. For Standard Duty Bearing Inserts-Single Lock, see page 43.
See page 27 for seal arrangements.



FB Series Standard Duty Three Bolt Single Lock Flange Brackets...Setscrew Locking

SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions in Inches														UNIT WT.
			A	B	C	D	E	F	G	H	I	J	K	M	N		
1/2 9/16 5/8 11/16 3/4 20	FB-8 FB-9 FB-10 FB-11 FB-12 FB-204	2-08 2-09 2-010 2-011 2-012 5204	3	2 3/8	1 1/2	1 11/16	1 11/32	7/8	5/16	4 3/16	2 3/8	63/64	13/32	23/32	1/2	1.3	
13/16 7/8 15/16 1 25	FB-13 FB-14 FB-15 FB-16 FB-205	2-013 2-014 2-015 2-1 5205	3 3/8	2 1/2	1 5/8	1 13/16	1 1/2	1 1/8	3/8	4 3/4	2 3/4	1 3/32	13/32	13/16	9/16	2.1	
1 1/16 1 1/8 1 3/16 1 1/4 30	FB-17 FB-18 FB-19 FB-20R FB-206	2-11 2-12 2-13 1-14 5206	3 3/4	2 3/4	1 7/8	2 1/16	1 5/8	1 1/4	3/8	5 23/64	3 7/32	1 15/64	13/32	7/8	5/8	3.0	
1 1/4 1 5/16 1 3/8 1 7/16 35	FB-20 FB-21 FB-22 FB-23 FB-207	2-14 2-15 2-16 2-17 5207	4 1/4	3 1/4	2	2 3/8	1 7/8	1 1/4	1/2	6 1/8	3 3/4	1 15/32	17/32	1	11/16	3.1	
1 13/16 1 7/8 1 15/16 2 50	FB-29 FB-30 FB-31 FB-32R FB-210	2-113 2-114 2-115 1-2 5210	5 3/16	4	2 3/4	2 15/16	2 5/32	1 5/8	1/2	7 15/32	4 9/16	1 33/64	17/32	1 9/32	3/4	5.1	

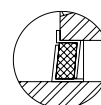
For Load Ratings, see page 45. For Standard Duty Bearing Inserts-Single Lock, see page 43.



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail. To specify, add suffix "C" (FB-16C).

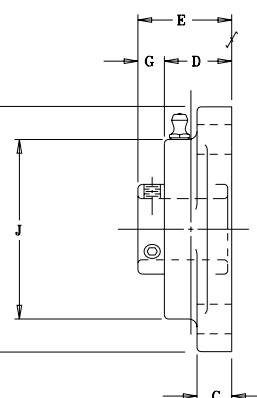
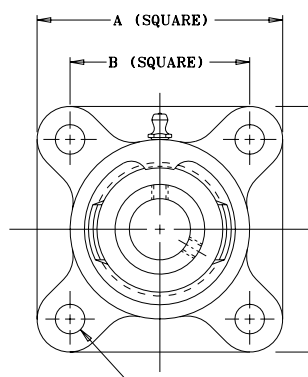
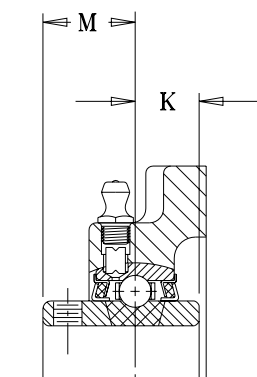


Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range. (See seal options on page 188).



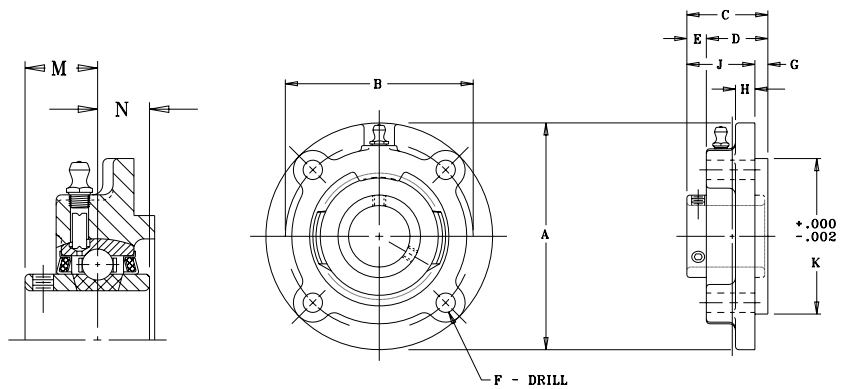
MOUNTED BALL BEARINGS

SEALMASTER®



SF Series Standard Duty Four-Bolt Flange Units...Setscrew Locking

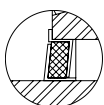
SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions in Inches										UNIT WT.
			A	B	C	D	E	F	G	J	K	M	
1/2 9/16 5/8 11/16	SF-8 SF-9 SF-10 SF-11	2-08 2-09 2-010 2-011	3	2 1/8	7/16	15/16	1 9/32	13/32	11/32	2 5/16	1/2	23/32	1.4
3/4 20	SF-12 SF-204	2-012 5204	3 3/8	2 1/2	7/16	15/16	1 9/32	13/32	11/32	2 3/8	1/2	23/32	1.5
13/16 7/8 15/16 1 25	SF-13 SF-14 SF-15 SF-16 SF-205	2-013 2-014 2-015 2-1 5205	3 3/4	2 3/4	17/32	1 1/32	1 7/16	15/32	13/32	2 23/32	9/16	13/16	2.1
1 1/16 1 1/8 1 3/16 1 1/4 30	SF-17 SF-18 SF-19 SF-20R SF-206	2-11 2-12 2-13 1-14 5206	4 1/4	3 1/4	17/32	1 11/64	1 9/16	15/32	25/64	3 7/32	5/8	7/8	3.6
1 1/4 1 5/16 1 3/8 1 7/16 35	SF-20 SF-21 SF-22 SF-23 SF-207	2-14 2-15 2-16 2-17 5207	4 5/8	3 5/8	9/16	1 11/32	1 3/4	17/32	13/32	3 23/32	11/16	1	4.1
1 1/2 1 9/16 40	SF-24 SF-25 SF-208	2-18 2-19 5208	5 1/8	4	9/16	1 1/2	2 1/64	17/32	33/64	4 5/64	3/4	1 3/16	5.5
1 5/8 1 11/16 1 3/4 45	SF-26 SF-27 SF-28 SF-209	2-110 2-111 2-112 5209	5 3/8	4 1/8	9/16	1 9/16	2 3/64	19/32	31/64	4 21/64	3/4	1 3/16	5.7
1 13/16 1 7/8 1 15/16 2 50	SF-29 SF-30 SF-31 SF-32R SF-210	2-113 2-114 2-115 1-2 5210	5 5/8	4 3/8	9/16	1 9/16	2 5/32	19/32	19/32	4 9/16	3/4	1 9/32	6.4
2 2 1/8 2 3/16 55	SF-32 SF-34 SF-35 SF-211	2-2 2-22 2-23 5211	6 3/8	5 1/8	13/16	1 3/4	2 5/16	21/32	9/16	5 1/4	7/8	1 5/16	10.5
2 1/4 2 3/8 2 7/16 60	SF-36 SF-38 SF-39 SF-212	2-24 2-26 2-27 5212	6 7/8	5 5/8	13/16	1 15/16	2 11/16	21/32	3/4	5 7/16	1	1 9/16	11.8
2 1/2 2 11/16 70	SF-40 SF-43 SF-214	3-28 2-211 5214	7 3/8	5 7/8	11/16	2 5/16	3	21/32	11/16	6 1/8	1 1/16	1 11/16	16.4
2 7/8 2 15/16 75	SF-46 SF-47 SF-215	2-214 2-215 5215	7 3/4	6	1	2 3/8	3 3/16	25/32	13/16	6 1/2	1 5/16	1 3/4	19.4



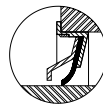
SFC Series Standard Duty Flange Cartridge Units...Setscrew Locking

SHAFT DIAM. IN MM	PART NO.	BRG. NO.	Dimensions in Inches												UNIT WT.
			A	B	C	D	E	F	G	H	J	K	M	N	
1 1/8 1 3/16 1 1/4 30	SFC-18 SFC-19 SFC-20R SFC-206	2-12 2-13 1-14 5206	4 3/8	3 5/8	1 9/16	1 3/16	3/8	3/8	1/4	3/8	1 5/16	3.000	7/8	5/8	3.0
1 1/4 1 5/16 1 3/8 1 7/16 35	SFC-20 SFC-21 SFC-22 SFC-23 SFC-207	2-14 2-15 2-16 2-17 5207	5	4 1/8	1 11/16	1 1/4	7/16	7/16	3/8	3/8	1 5/16	3.375	1	11/16	3.9
1 1/2 1 9/16 40	SFC-24 SFC-25 SFC-208	2-18 2-19 5208	5 1/4	4 3/8	1 15/16	1 15/32	15/32	7/16	7/16	7/16	1 1/2	3.625	1 3/16	3/4	4.7
1 5/8 1 11/16 1 3/4 45	SFC-26 SFC-27 SFC-28 SFC-209	2-110 2-111 2-112 5209	6 1/8	5 1/8	1 15/16	1 7/16	1/2	1/2	7/16	7/16	1 1/2	4.250	1 3/16	3/4	6.0
1 7/8 1 15/16 2 50	SFC-30 SFC-31 SFC-32R SFC-210	2-114 2-115 1-2 5210	6 1/8	5 1/8	2 1/32	1 15/32	9/16	1/2	15/32	7/16	1 9/16	4.250	1 9/32	3/4	6.5
2 2 1/8 2 3/16 55	SFC-32 SFC-34 SFC-35 SFC-211	2-2 2-22 2-23 5211	6 3/8	5 3/8	2 3/16	1 5/8	9/16	1/2	5/8	7/16	1 9/16	4.500	1 5/16	7/8	7.5
2 1/4 2 3/8 2 7/16 60	SFC-36 SFC-38 SFC-39 SFC-212	2-24 2-26 2-27 5212	7 1/8	6	2 9/16	1 7/8	11/16	9/16	7/8	1/2	1 11/16	5.000	1 9/16	1	10.5
2 11/16 70	SFC-43 SFC-214	2-211 5214	7 5/8	6 1/2	2 7/8	2 3/16	11/16	9/16	1 1/8	9/16	1 3/4	5.500	1 11/16	1 1/16	14.0
2 7/8 2 15/16 75	SFC-46 SFC-47 SFC-215	2-214 2-215 5215	8 3/4	7 1/2	3 1/16	2 5/16	3/4	11/16	1 1/16	9/16	2	6.375	1 3/4	1 5/16	18.7
3 3/16 80	SFC-51 SFC-216	2-33 5216	8 3/4	7 1/2	3 1/4	2 7/16	13/16	11/16	1 1/4	5/8	2	6.375	1 15/16	1 5/16	20.0

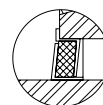
For Load Ratings, see page 45. For Standard Duty Bearing Inserts-Single Lock, see page 43.



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail. To specify, add suffix "C" (SFC-16C).

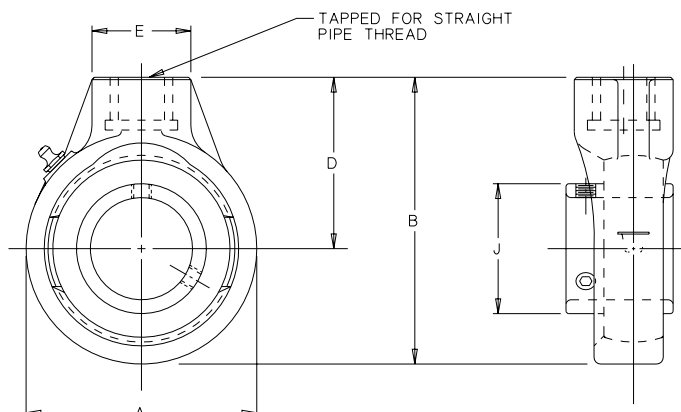
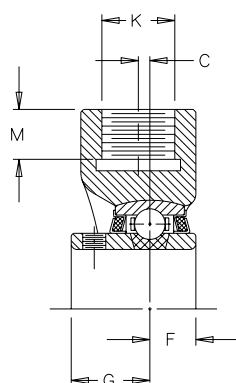


Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range. (See seal options on page 188).



MOUNTED BALL BEARINGS

SEALMASTER®



SEHB Series Hanger Bearing For Eccentric Drives...Setscrew Locking

SHAFT DIAM. IN MM	SERIES	PART NO.	BRG. NO.	Dimensions In Inches								*K Pipe Tap N.P.S.M.	M Thread Length	Unit Wt.
				A	B	C	D	E	F	G	J Approx			
15/16 25 1 1 1/16 30	2-13	SEHB-15 SEHB-305 SEHB-16 SEHB-18 SEHB-206	3-015 5305 3-1 2-12 5206	3 1/8	4 1/16	—	2 1/2	1 9/16	5/8	7/8	1 19/32	3/4 - 14	13/16	2.2
1 3/16 1 1/4 1 5/16 1 3/8 35	2-17	SEHB-19 SEHB-20 SEHB-21 SEHB-22 SEHB-207	3-13 2-14 2-15 2-16 5207	3 5/8	4 9/16	—	2 3/4	1 9/16	11/16	1	1 55/64	3/4 - 14	3/4	3.1
1 7/16 1 1/2 1 9/16 40	2-19	SEHB-23 SEHB-24 SEHB-25 SEHB-208	3-17 2-18 2-19 5208	3 3/4	4 3/4	3/32	2 7/8	1 9/16	3/4	1 3/16	2 1/16	3/4 - 14	3/4	3.4
1 11/16 1 3/4 1 7/8 1 15/16 2 50	2-115	SEHB-27 SEHB-28 SEHB-30 SEHB-31 SEHB-32 SEHB-210	3-111 3-112 2-114 2-115 1-2 5210	4 3/8	5 7/16	3/16	3 1/4	1 7/8	3/4	1 9/32	2 15/32	1 - 11 1/2	13/16	4.5
2 3/16 2 1/4 2 3/8 2 7/16 60	2-27	SEHB-35 SEHB-36 SEHB-38 SEHB-39 SEHB-212	3-23 2-24 2-26 2-27 5212	5 5/8	6 13/16	11/32	4	2 5/16	1	1 9/16	2 63/64	1 1/4 - 11 1/2	1 1/8	9.0
2 11/16 2 7/8 2 15/16 75	2-215	SEHB-43 SEHB-46 SEHB-47 SEHB-215	3-211 2-214 2-215 5215	6 1/2	7 7/8	3/8	4 5/8	2 3/4	1 5/16	1 3/4	3 41/64	1 1/2 - 11 1/2	1 1/4	14.6
3 3 3/16 80	2-33	SEHB-48 SEHB-51 SEHB-216	3-3 2-33 5216	6 7/8	8 5/16	5/16	4 7/8	2 13/16	1 5/16	1 15/16	3 59/64	1 1/2 - 11 1/2	1 1/4	16.8
3 15/16 4 100	2-43	SEHB-63 SEHB-64 SEHB-320	3-315 3-4 5320	10 1/4	13 1/4	—	8 1/8	4 3/8	1 15/16	2 11/16	5 11/64	2 1/2-8 1/2	2 5/8	62.0

For Load Ratings, see page 45.

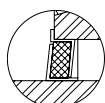
For Standard Duty Bearing Inserts-Single Lock, see page 43.

* Use Straight Pipe Thread.

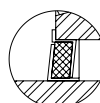
Note: Units may be provided with tight internal and housing fits by adding suffix **BDZ** to Part No., as **SEHB-19 BDZ**



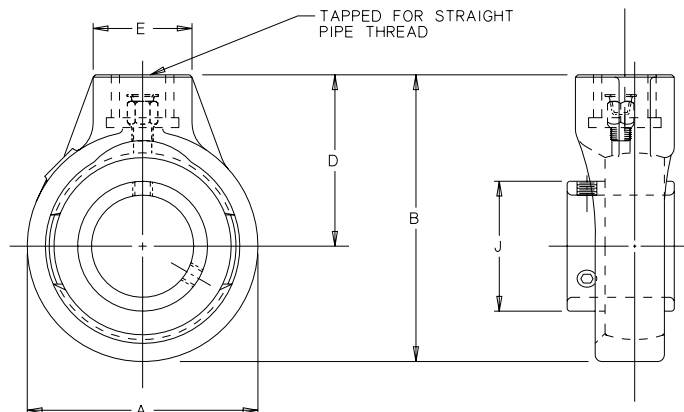
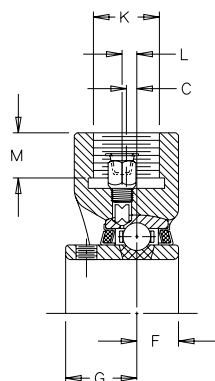
Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail. To specify, add suffix "C" (SEHB-16C).



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range. (See seal options on page 188).



SCHB Series Hanger Bearing For Screw Conveyors...Setscrew Locking

SHAFT DIAM. IN MM	SERIES	PART NO.	BRG. NO.	Dimensions In Inches								*K Pipe Tap N.P.S.M.	M Thread Length	L Brg. to Lub.Ftg. Centers	Unit Wt.
				A	B	C	D	E	F	G	J Approx				
15/16 25 1 1 1/16 30	2-13	SCHB-15 SCHB-305 SCHB-16 SCHB-18 SCHB-206	3-015 5305 3-1 2-12 5206	3 1/8	4 1/16	—	2 1/2	1 9/16	5/8	7/8	1 19/32	3/4" - 14	3/4	♦7/32	2.2
1 3/16 1 1/4 1 5/16 1 3/8 35	2-17	SCHB-19 SCHB-20 SCHB-21 SCHB-22 SCHB-207	3-13 2-14 2-15 2-16 5207	3 5/8	4 9/16	—	2 3/4	1 9/16	11/16	1	1 55/64	3/4" - 14	3/4	♦1/4	3.1
1 7/16 1 1/2 1 9/16 40	2-19	SCHB-23 SCHB-24 SCHB-25 SCHB-208	3-17 2-18 2-19 5208	3 3/4	4 3/4	3/32	2 7/8	1 9/16	3/4	1 3/16	2 1/16	3/4" - 14	3/4	♦19/64	3.4
1 11/16 1 3/4 1 7/8 1 15/16 2 50	2-115	SCHB-27 SCHB-28 SCHB-30 SCHB-31 SCHB-32 SCHB-210	3-111 3-112 2-114 2-115 1-2 5210	4 3/8	5 7/16	3/16	3 1/4	1 7/8	3/4	1 9/32	2 15/32	1" - 11 1/2	13/16	17/64	4.5
2 3/16 2 1/4 2 3/8 2 7/16 60	2-27	SCHB-35 SCHB-36 SCHB-38 SCHB-39 SCHB-212	3-23 2-24 2-26 2-27 5212	5 5/8	6 13/16	11/32	4	2 5/16	1	1 9/16	2 63/64	1 1/4" - 11 1/2	1 1/8	21/64	9.0
2 11/16 2 7/8 2 15/16 75	2-215	SCHB-43 SCHB-46 SCHB-47 SCHB-215	3-211 2-214 2-215 5215	6 1/2	7 7/8	3/8	4 5/8	2 3/4	1 5/16	1 3/4	3 41/64	1 1/2" - 11 1/2	1 1/4	3/8	14.6
3 3 3/16 80	2-33	SCHB-48 SCHB-51 SCHB-216	SK-110 2-33 5216	6 7/8	8 5/16	5/16	4 7/8	2 13/16	1 5/16	1 15/16	3 59/64	1 1/2" - 11 1/2	1 1/4	13/32	16.8
3 15/16 4 100	2-43	SCHB-63 SCHB-64 SCHB-320	3-315 3-4 5320	10 1/4	13 1/4	—	8 1/8	4 3/8	1 15/16	2 11/16	5 11/64	2 1/2" - 8 1/2	2 5/8	15/32	62.0

For Load Ratings, see page 45. For Standard Duty Bearing Inserts-Single Lock, see page 43.

♦ No Adaptor or Fitting

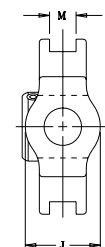
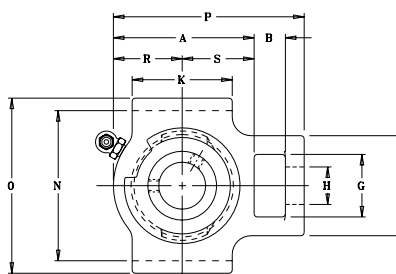
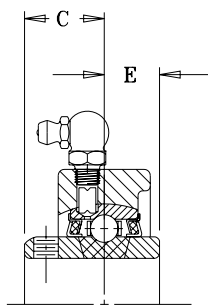
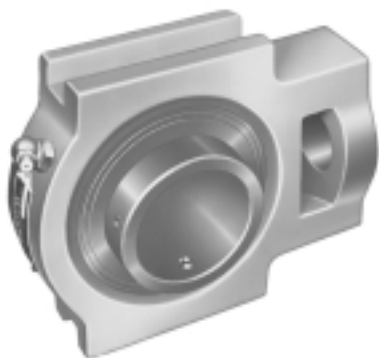
* Use Straight Pipe Thread

See page 30 for seal arrangements.



MOUNTED BALL BEARINGS

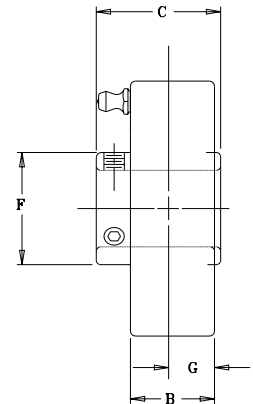
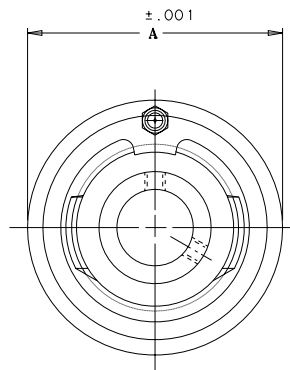
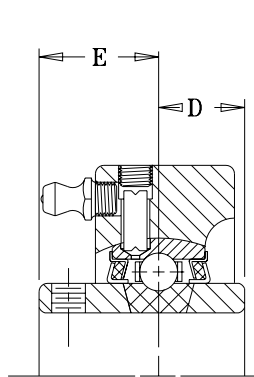
SEALMASTER®



ST Series Standard Duty Take-Up Units...Setscrew Locking

SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions In Inches															UNIT WT.
			A	B	C	E	F	G	H Core	J Hub	K	M	N	O	P	R	S	
1/2 9/16 5/8 11/16 3/4 20	ST-8 ST-9 ST-10 ST-11 ST-12 ST-204	2-08 2-09 2-010 2-011 2-012 5204	2 11/16	5/8	23/32	1/2	2	1 1/4	3/4	1 3/8	2	17/32	3	3 1/2	3 11/16	1 5/16	1 3/8	2.1
13/16 7/8 15/16 1 25	ST-13 ST-14 ST-15 ST-16 ST-205	2-013 2-014 2-015 2-1 5205	2 13/16	5/8	13/16	9/16	2	1 1/4	3/4	1 1/2	2	17/32	3	3 1/2	3 13/16	1 3/8	1 7/16	2.6
1 1/16 1 1/8 1 3/16 1 1/4 30	ST-17 ST-18 ST-19 ST-20R ST-206	2-11 2-12 2-13 1-14 5206	3 7/16	5/8	7/8	5/8	2 3/16	1 7/16	7/8	1 3/4	2 1/4	17/32	3 1/2	4	4 7/16	1 11/16	1 3/4	3.4
1 1/4 1 5/16 1 3/8 1 7/16 35	ST-20 ST-21 ST-22 ST-23 ST-207	2-14 2-15 2-16 2-17 5207	3 15/16	5/8	1	11/16	2 1/2	1 7/16	7/8	1 3/4	2 1/2	17/32	3 1/2	4	5 1/16	2	1 15/16	4.0
1 1/2 1 9/16 40	ST-24 ST-25 ST-208	2-18 2-19 5208	4 5/16	3/4	1 3/16	3/4	3 1/4	1 15/16	1 1/8	2 1/8	3 1/4	11/16	4	4 1/2	5 11/16	2 3/16	2 1/8	6.0
1 5/8 1 11/16 1 3/4 45	ST-26 ST-27 ST-28 ST-209	2-110 2-111 2-112 5209	4 5/16	3/4	1 3/16	3/4	3 1/4	1 15/16	1 1/8	2 3/16	3 1/4	11/16	4	4 5/8	5 11/16	2 1/4	2 1/16	6.0
1 13/16 1 7/8 1 15/16 2 50	ST-29 ST-30 ST-31 ST-32R ST-210	2-113 2-114 2-115 1-2 5210	4 1/2	3/4	1 9/32	3/4	3 1/4	1 15/16	1 1/8	2 3/16	3 3/8	11/16	4	4 5/8	5 7/8	2 5/16	2 3/16	6.0
2 2 1/8 2 3/16 55	ST-32 ST-34 ST-35 ST-211	2-2 2-22 2-23 5211	5	1	1 5/16	7/8	4	2 1/2	1 3/8	2 1/4	3 3/4	1 1/16	5 1/8	5 3/4	6 3/4	2 9/16	2 7/16	9.8
2 1/4 2 3/8 2 7/16 60	ST-36 ST-38 ST-39 ST-212	2-24 2-26 2-27 5212	5 5/8	1 1/4	1 9/16	1	4	2 1/2	1 3/8	2 3/8	4	1 1/16	5 1/8	5 3/4	7 5/8	2 15/16	2 11/16	12.3
2 1/2 2 11/16 70	ST-40 ST-43 ST-214	3-28 2-211 5214	6 3/4	1 1/4	1 11/16	1 1/16	4 3/8	2 3/4	1 5/8	3 3/8	4 3/4	1 1/16	5 15/16	6 9/16	8 13/16	3 7/16	3 5/16	19.0
2 7/8 2 15/16 75	ST-46 ST-47 ST-215	2-214 2-215 5215	7 1/16	1 1/4	1 3/4	1 5/16	4 3/8	2 3/4	1 5/8	3 3/8	4 3/4	1 1/16	5 15/16	6 9/16	9 1/8	3 5/8	3 7/16	19.0
3 3/16 80	ST-51 ST-216	2-33 5216	7 3/16	1 1/4	1 15/16	1 5/16	4 3/8	2 3/4	1 5/8	3 3/8	4 3/4	1 1/16	6 1/2	7 1/4	9 1/4	3 3/4	3 7/16	22.1
3 1/4 3 3/8 3 7/16	ST-52 ST-54 ST-55	2-34 2-36 2-37	7 5/8	1 1/2	2 1/32	1 11/32	4 7/8	2 7/8	1 7/8	3 1/2	6 3/16	1 13/16	6 13/16	7 13/16	10 1/4	3 7/8	3 3/4	31.4

For Load Ratings, see page 45. For Standard Duty Bearing Inserts-Single Lock, see page 43. For Take-Up Frames, see pages 36 & 37. See page 30 for seal arrangements. For custom seals see page 188.



SC Series Standard Duty Cartridge Units...Setscrew Locking

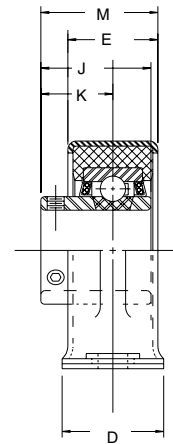
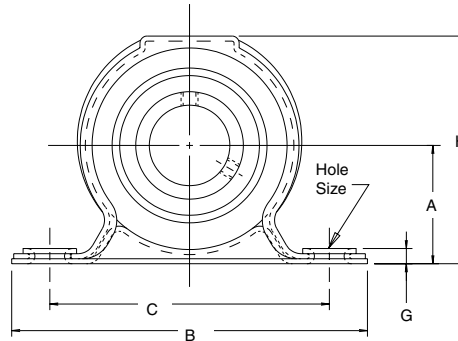
SHAFT DIAM.		PART NO.	BRG. NO.	Dimensions In Inches							UNIT WT.
				A	B	C	D	E	F	G	
1/2 9/16 5/8 11/16		SC-8 SC-9 SC-10 SC-11	2-08 2-09 2-010 2-011	2 11/16	7/8	1 7/32	1/2	23/32	1 3/16	15/32	1.1
3/4 20		SC-12 SC-204	2-012 5204	2 15/16	7/8	1 7/32	1/2	23/32	1 3/16	15/32	1.4
13/16 7/8 15/16 1 25		SC-13 SC-14 SC-15 SC-16 SC-205	2-013 2-014 2-015 2-1 5205	3 1/8	1 1/32	1 3/8	9/16	13/16	1 3/8	9/16	1.9
1 1/16 1 1/8 1 3/16 1 1/4 30		SC-17 SC-18 SC-19 SC-20R SC-206	2-11 2-12 2-13 1-14 5206	3 1/2	1 3/32	1 1/2	5/8	7/8	1 19/32	9/16	2.5
1 1/4 1 5/16 1 3/8 1 7/16 35		SC-20 SC-21 SC-22 SC-23 SC-207	2-14 2-15 2-16 2-17 5207	3 7/8	1 7/32	1 11/16	11/16	1	1 55/64	5/8	3.2
1 1/2 1 9/16 40		SC-24 SC-25 SC-208	2-18 2-19 5208	4 3/16	1 15/32	1 15/16	3/4	1 3/16	2 1/16	3/4	4.1
1 5/8 1 11/16 1 3/4 45		SC-26 SC-27 SC-28 SC-209	2-110 2-111 2-112 5209	4 3/8	1 7/16	1 15/16	3/4	1 3/16	2 19/64	23/32	4.5
1 13/16 1 7/8 1 15/16 2 50		SC-29 SC-30 SC-31 SC-32R SC-210	2-113 2-114 2-115 1-2 5210	4 9/16	1 15/32	2 1/32	3/4	1 9/32	2 15/32	3/4	4.9
2 2 1/8 2 3/16 55		SC-32 SC-34 SC-35 SC-211	2-2 2-22 2-23 5211	4 15/16	1 19/32	2 3/16	7/8	1 5/16	2 23/32	27/32	5.8
2 1/4 2 3/8 2 7/16 60		SC-36 SC-38 SC-39 SC-212	2-24 2-26 2-27 5212	5 7/8	1 5/8	2 9/16	1	1 9/16	2 63/64	13/16	9.0
2 1/2 2 11/16 70		SC-40 SC-43 SC-214	3-28 2-211 5214	6 1/4	2	2 3/4	1 1/16	1 11/16	3 7/16	1	12.6
2 7/8 2 15/16 75		SC-46 SC-47 SC-215	2-214 2-215 5215	6 5/8	2	3 1/16	1 5/16	1 3/4	3 41/64	1	13.5

For Load Ratings, see page 45. For Standard Duty Bearing Inserts-Single Lock, see page 43. See page 30 for seal arrangements. For custom seals see page 188.



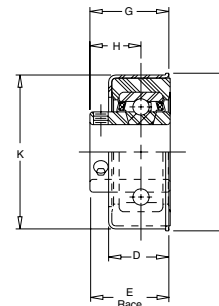
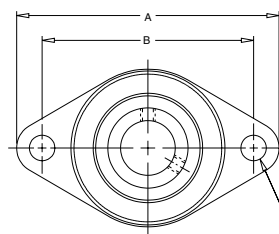
MOUNTED BALL BEARINGS

SEALMASTER®



SRP Series Standard Duty Rubber Mounted Pillow Blocks...Setscrew Locking

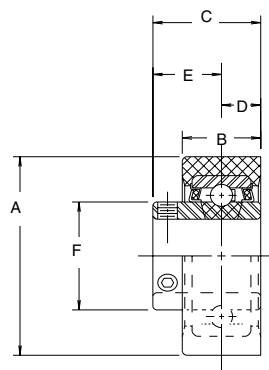
SHAFT DIA.		MAX. STEADY RADIAL LOADS LBS.	PART NUMBER	INSERT NUMBER	Dlensions In Inches										BOLT SIZE	UNIT WT.	
IN	MM				A	B	C	D	E	HOLE SIZE	G	H	J	K			M
1/2 5/8 3/4	20	200	SRP-8	SRC-8	1 1/2	4 3/4	3 5/8	1 5/16	1 1/8	7/16	11/64	2 13/16	1 9/32	7/8	1 7/16	3/8	.85
			SRP-10	SRC-10													
7/8 15/16 1	25	200	SRP-14	SRC-14	1 1/2	4 3/4	3 5/8	1 5/16	1 1/8	7/16	11/64	2 13/16	1 3/8	7/8	1 7/16	3/8	1.00
			SRP-15	SRC-15													
1 1/16 1 1/8 1 3/16 1 1/4	30	300	SRP-17	SRC-17	1 3/4	5 1/4	4 1/8	1 1/2	1 11/32	7/16	1/4	3 3/8	1 5/8	1 1/16	1 47/64	3/8	1.60
			SRP-18	SRC-18													
			SRP-206	RB-206													



SRF Series Standard Duty Rubber Mounted Flange Blocks...Setscrew Locking

SHAFT DIA.		MAX. STEADY RADIAL LOADS LBS.	PART NUMBER	INSERT NUMBER	Dlmissions In Inches									BOLT SIZE	UNIT WT.
IN	MM				A	B	D	E	HOLE SIZE	G	H	J	K		
1/2 5/8 3/4	20	400	SRF-8	SRC-8	4 1/2	3 5/8	1 1/16	1 9/32	7/16	1 13/32	7/8	2 45/64	2 41/64	3/8	.75
			SRF-10	SRC-10											
7/8 15/16 1	25	400	SRF-14	SRC-14	4 1/2	3 5/8	1 1/16	1 3/8	7/16	1 13/32	7/8	2 45/64	2 41/64	3/8	.85
			SRF-15	SRC-15											
1 1/16 1 1/8 1 3/16 1 1/4	30	600	SRF-17	SRC-17	5 3/8	4 3/8	1 1/4	1 5/8	1/2	1 21/32	1 1/16	3 1/2	3 1/4	7/16	1.50
			SRF-18	SRC-18											

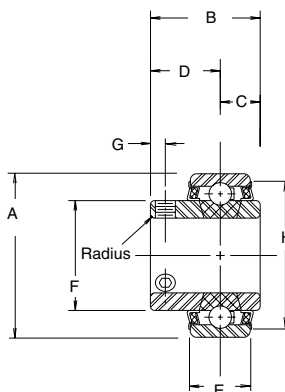
Maximum steady radial load is based upon the housing strength and materials composition. Thrust load ratings 40% of radial loads.



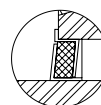
SRC Series Standard Duty Rubber Mounted Cartridge Units...Setscrew Locking

SHAFT DIA.		MAX. STEADY RADIAL LOADS LBS.	PART NUMBER	INSERT NUMBER	Dimensions In Inches						UNIT WT.
IN	MM				A	B	C	D	E	F	
1/2 5/8 3/4	20	200	SRC-8 SRC-10 SRC-12 SRC-204	RB-8 RB-10 RB-12 RB-204	2 17/32	1	1 9/32	13/32	7/8	1 3/16	.60
7/8 15/16 1	25	200	SRC-14 SRC-15 SRC-16 SRC-205	RB-14 RB-15 RB-16 RB-205	2 17/32	1	1 3/8	1/2	7/8	1 3/8	.65
1 1/16 1 1/8 1 3/16 1 1/4	30	300	SRC-17 SRC-18 SRC-19 SRC-20R SRC-206	RB-17 RB-18 RB-19 RB-20R RB-206	3 3/32	1 3/16	1 5/8	9/16	1 1/16	1 19/32	1.00

Maximum steady radial load is based upon the housing strength and materials composition. Thrust load ratings 40% of radial loads.



The "RB" Bearing assembly is used as a bearing insert in the "SRP" Rubber mounted Pillow Blocks and the "SRF" Rubber mounted two-bolt flange units. The bearing assembly is permanently sealed and lubricated for life.



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.

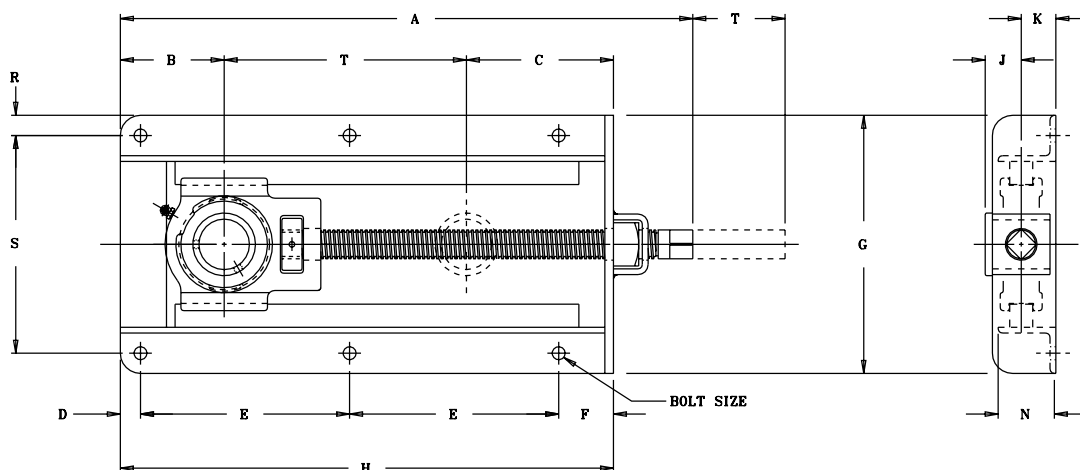
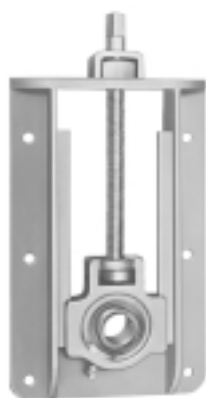
RB Series Bearing Assemblies

SHAFT DIA.		PART NUMBER	Dimensions In Inches									Set Screw Tap	UNIT WT.
IN	MM		A	B	C	D	E	F	G	Radius	H		
1/2 5/8 3/4	20	RB-8 RB-10 RB-12 RB-204	47mm 1.850	1 9/32	13/32	7/8	5/8	1 3/16	3/16	.040	1 5/8	1/4-28	.50
7/8 15/16 1	25	RB-14 RB-15 RB-16 RB-205	52mm 2.047	1 3/8	1/2	7/8	3/4	1 3/8	3/16	.040	1 55/64	1/4-28	.60
1 1/16 1 1/8 1 3/16 1 1/4	30	RB-17 RB-18 RB-19 RB-20R RB-206	62mm 2.441	1 5/8	9/16	1 1/16	7/8	1 19/32	7/32	.040	2 5/32	1/4-28	.90



MOUNTED BALL BEARINGS

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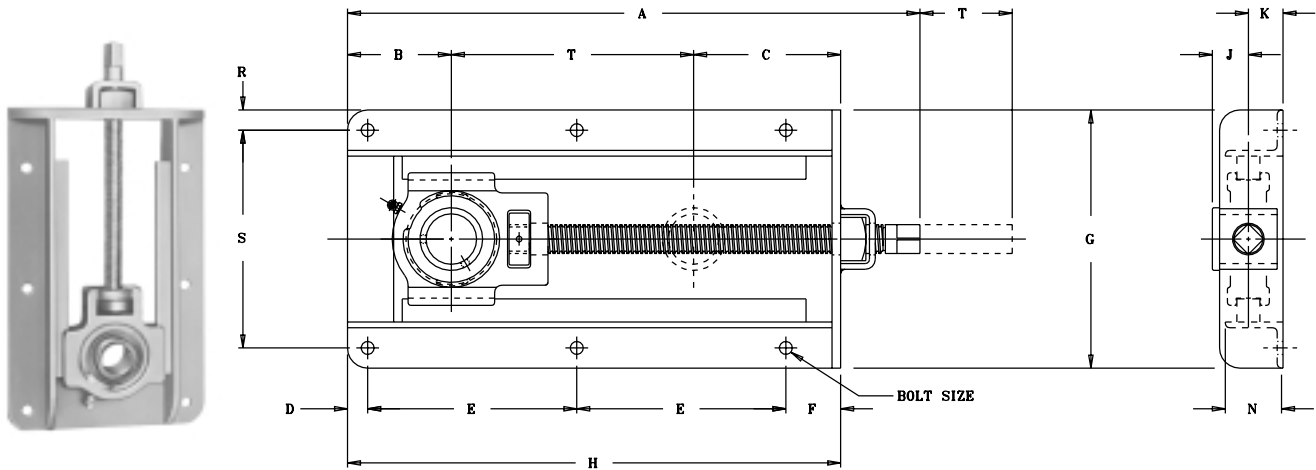


STH Series Style "H" Steel Frame Take-Ups...Setscrew Locking

SHAFT DIAM. IN MM	PART NO.	BRG. NO.	Dimensions in Inches														BOLT SIZE	UNIT WT.
			T	A	B	C	D	E	F	G	H	J	K	N	R	S		
7/8 15/16 1 25	STH-14-6 STH-15-6 STH-16-6 STH-205-6	2-014 2-015 2-1 5205	6	15	3 1/4	3 1/4	3/4	4 5/8	2 1/2	7 9/16	12 1/2	13/16	1 1/8	1 3/4	3/4	6 1/16	3/8	11.6
7/8 15/16 1 25	STH-14-9 STH-15-9 STH-16-9 STH-205-9	2-014 2-015 2-1 5205	9	18	3 1/4	3 1/4	3/4	6 1/8	2 1/2	7 9/16	15 1/2	13/16	1 1/8	1-3/4	3/4	6 1/16	3/8	13.6
1 1/8 1 3/16 30	STH-18-6 STH-19-6 STH-206-6	2-12 2-13 5206	6	16 1/8	3 3/4	3 1/2	3/4	5	2 1/2	8 1/16	13 1/4	7/8	1 1/4	1-3/4	3/4	6 9/16	3/8	14.1
1 1/8 1 3/16 30	STH-18-9 STH-19-9 STH-206-9	2-12 2-13 5206	9	19 1/8	3 3/4	3 1/2	3/4	6 1/2	2 1/2	8 1/16	16 1/4	7/8	1 1/4	1-3/4	3/4	6 9/16	3/8	16.0
1 1/4 1 3/8 1 7/16 35	STH-20-9 STH-22-9 STH-23-9 STH-207-9	2-14 2-16 2-17 5207	9	19 11/16	4	3 7/8	3/4	6 13/16	2 1/2	8 1/16	16 7/8	1	1 1/4	1-3/4	3/4	6 9/16	3/8	17.4
1 1/4 1 3/8 1 7/16 35	STH-20-12 STH-22-12 STH-23-12 STH-207-12	2-14 2-16 2-17 5207	12	22 11/16	4	3 7/8	3/4	8 5/16	2 1/2	8 1/16	19 7/8	1	1 1/4	1-3/4	3/4	6 9/16	3/8	19.5
1 1/2 1 9/16 40	STH-24-12 STH-25-12 STH-208-12	2-18 2-19 5208	12	23 9/16	4 1/4	4 1/4	7/8	8 9/16	2 1/2	9 5/16	20 1/2	1 3/16	1 3/8	2	7/8	7 9/16	3/8	27.2
1 5/8 1 11/16 1 3/4 45	STH-26-12 STH-27-12 STH-28-12 STH-209-12	2-110 2-111 2-112 5209	18	29 9/16	4 1/4	4 1/4	7/8	11 9/16	2 1/2	9 5/16	26 1/2	1 3/16	1 3/8	2	7/8	7 9/16	3/8	32.0

The STH series style H, are side mounting frame take-up units designed to incorporate either the ST or MST series take-up units (see pages 32 & 58), as indicated in the accompanying charts. They are used where shaft adjustment and/or belt tightening is required in conveyor applications. They are manufactured from heavy gauge structural steel members and equipped with heavy duty Acme (square) threads for positive action. Adjustment is made by turning the square head with an open end wrench.

Part numbers shown include standard duty take-up bearing (see page 32).



STH Series Style "H" Steel Frame Take-Ups...Setscrew Locking

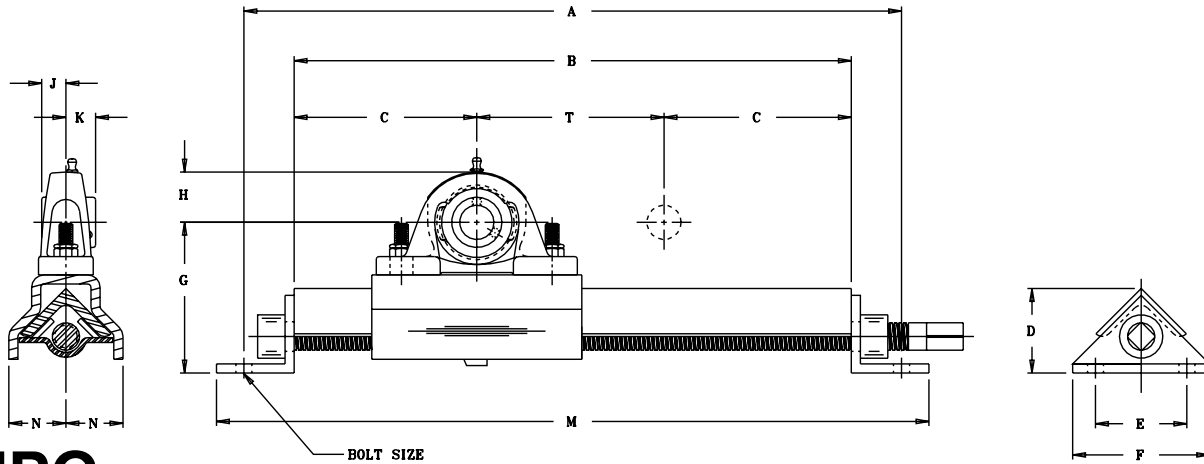
SHAFT DIAM. IN MM	PART NO.	BRG. NO.	Dimensions in Inches														BOLT SIZE	UNIT WT.
			T	A	B	C	D	E	F	G	H	J	K	N	R	S		
1 7/8 1 15/16 50	STH-30-12 STH-31-12 STH-210-12	2-114 2-115 5210	12	23 11/16	4 1/4	4 3/8	7/8	8 5/8	2 1/2	9 5/16	20 5/8	1 9/32	1 3/8	2	7/8	7 9/16	1/2	27.2
1 7/8 1 15/16 50	STH-30-18 STH-31-18 STH-210-18	2-114 2-115 5210	18	29 11/16	4 1/4	4 3/8	7/8	11 5/8	2 1/2	9 5/16	26 5/8	1 9/32	1 3/8	2	7/8	7 9/16	1/2	33.0
2 2 1/8 2 3/16 55	STH-32-12 STH-34-12 STH-35-12 STH-211-12	2-2 2-22 2-23 5211	12	24 13/16	4 1/2	4 7/8	7/8	9 1/16	2 3/8	11 3/16	21 3/8	1 5/16	1 1/2	2 1/2	7/8	9 7/16	1/2	41.6
2 2 1/8 2 3/16 55	STH-32-18 STH-34-18 STH-35-18 STH-211-18	2-2 2-22 2-23 5211	18	30 13/16	4 1/2	4 7/8	7/8	12 1/16	2 3/8	11 3/16	27 3/8	1 5/16	1 1/2	2 1/2	7/8	9 7/16	1/2	50.6
2 1/4 2 3/8 2 7/16 60	STH-36-12 STH-38-12 STH-39-12 STH-212-12	2-24 2-26 2-27 5212	12	25 9/16	5	5 3/8	7/8	9 9/16	2 3/8	11 3/16	22 3/8	1 9/16	1 1/2	2 1/2	7/8	9 7/16	1/2	45.0
2 1/4 2 3/8 2 7/16 60	STH-36-18 STH-38-18 STH-39-18 STH-212-18	2-24 2-26 2-27 5212	18	31 9/16	5	5 3/8	7/8	12 9/16	2 3/8	11 3/16	28 3/8	1 9/16	1 1/2	2 1/2	7/8	9 7/16	1/2	53.0
2 1/2 2 11/16 70 2 7/8 2 15/16 75	STH-40-12 STH-43-12 STH-214-12 STH-46-12 STH-47-12 STH-215-12	3-28 2-211 5214 2-214 2-215 5215	12	27 1/2	5 11/16	6 3/16	7/8	10 1/4	2 1/2	12	23 7/8	1 11/16 1 3/4	2	3	7/8	10 1/4	5/8	62.5
2 1/2 2 11/16 70 2 7/8 2 15/16 75	STH-40-18 STH-43-18 STH-214-18 STH-46-18 STH-47-18 STH-215-18	3-28 2-211 5214 2-214 2-215 5215	18	33 1/2	5 11/16	6 3/16	7/8	13 1/4	2 1/2	12	29 7/8	1 11/16 1 3/4	2	3	7/8	10 1/4	5/8	73.7

The STH series style H, are side mounting frame take-up units designed to incorporate either the ST or MST series take-up units (see pages 32 & 58), as indicated in the accompanying charts. They are used where shaft adjustment and/or belt tightening is required in conveyor applications. They are manufactured from heavy gauge structural steel members and equipped with heavy duty Acme (square) threads for positive action. Adjustment is made by turning the square head with an open end wrench.



MOUNTED BALL BEARINGS

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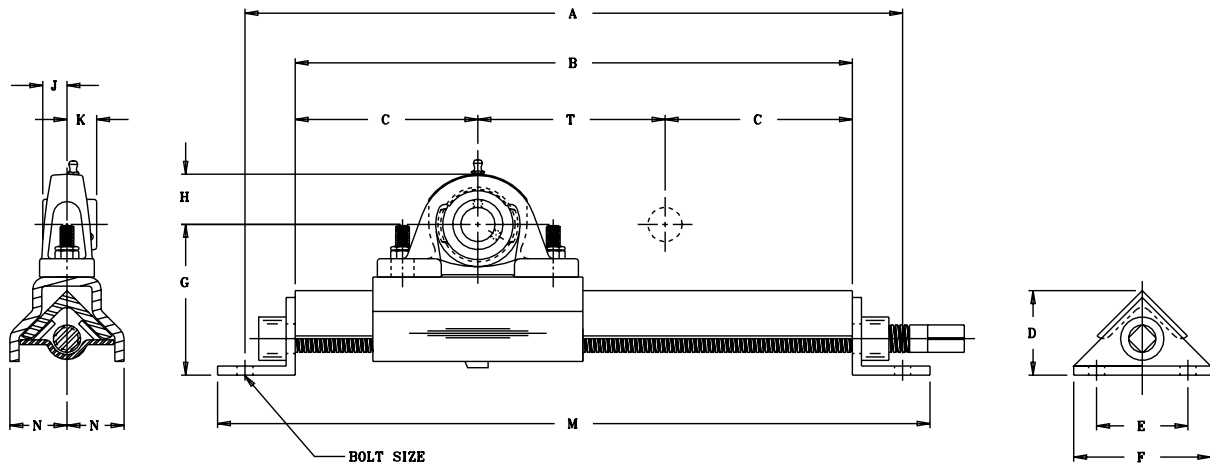


NPG Series Style "G" Protected Screw Take-Ups...Setscrew Locking

SHAFT DIAM.		PART NO.	BRG. NO.	Dimensions in Inches													BOLT SIZE	UNIT WT.	
				T	A	B	C	D	E	F	G	H	J	K	M	N			O
7/8 15/16 1	25	NPG-14-6 NPG-15-6 NPG-16-6 NPG-205-6	2-014 2-015 2-1 5205	6	18	15 1/4	4 5/8	2 5/16	2 1/2	3 3/4	4 1/8	1 3/8	9/16	13/16	19 1/2	1 17/32	1/4	3/8	12.4
7/8 15/16 1	25	NPG-14-9 NPG-15-9 NPG-16-9 NPG-205-9	2-014 2-015 2-1 5205	9	21	18 1/4	4 5/8	2 5/16	2 1/2	3 3/4	4 1/8	1 3/8	9/16	13/16	22 1/2	1 17/32	1/4	3/8	13.5
1 1/8 1 3/16	30	NPG-18-6 NPG-19-6 NPG-206-6	2-12 2-13 5206	6	19	16 1/4	5 1/8	2 5/16	2 1/2	3 3/4	4 3/8	1 11/16	5/8	7/8	20 1/2	1 23/32	1/4	3/8	16.1
1 1/8 1 3/16	30	NPG-18-9 NPG-19-9 NPG-206-9	2-12 2-13 5206	9	22	19 1/4	5 1/8	2 5/16	2 1/2	3 3/4	4 3/8	1 11/16	5/8	7/8	23 1/2	1 23/32	1/4	3/8	17.1
1 1/4 1 3/8 1 7/16	35	NPG-20-9 NPG-22-9 NPG-23-9 NPG-207-9	2-14 2-16 2-17 5207	9	22 1/4	19 1/2	5 1/4	2 5/16	2 1/2	3 3/4	4 9/16	1 7/8	11/16	1	23 3/4	1 23/32	1/4	3/8	17.7
1 1/4 1 3/8 1 7/16	35	NPG-20-12 NPG-22-12 NPG-23-12 NPG-207-12	2-14 2-16 2-17 5207	12	25 1/4	22 1/2	5 1/4	2 5/16	2 1/2	3 3/4	4 9/16	1 7/8	11/16	1	26 3/4	1 23/32	1/4	3/8	19.1
1 1/2 1 9/16	40	NPG-24-12 NPG-25-12 NPG-208-12	2-18 2-19 5208	12	26	23 1/4	5 5/8	2 5/16	2 1/2	3 3/4	4 5/8	2	3/4	1 3/16	27 1/2	2 1/16	1/4	3/8	25.6
1 1/2 1 9/16	40	NPG-24-18 NPG-25-18 NPG-208-18	2-18 2-19 5208	18	32	29 1/4	5 5/8	2 5/16	2 1/2	3 3/4	4 5/8	2	3/4	1 3/16	33 1/2	2 1/16	1/4	3/8	27.6
1 5/8 1 11/16 1 3/4	45	NPG-26-12 NPG-27-12 NPG-28-12 NPG-209-12	2-110 2-111 2-112 5209	12	26	23 1/4	5 5/8	2 5/16	2 1/2	3 3/4	4 13/16	2 1/8	3/4	1 3/16	27 1/2	2 1/16	1/4	3/8	24.9
1 5/8 1 11/16 1 3/4	45	NPG-26-18 NPG-27-18 NPG-28-18 NPG-209-18	2-110 2-111 2-112 5209	18	32	29 1/4	5 5/8	2 5/16	2 1/2	3 3/4	4 13/16	2 1/8	3/4	1 3/16	33 1/2	2 1/16	1/4	3/8	28.7

Series NPG and SPG are top mounted protected screw take-up units incorporating standard duty pillow blocks, as indicated in the accompanying charts. They are used where shaft adjustment and/or belt tightening is required in conveyor applications. They are manufactured from heavy gauge structural steel and equipped with heavy duty Acme (square) threads for positive action. Adjustment is made by turning the square head screw with an open end wrench.

Part numbers shown include standard duty pillow block (see page 20).



NPG and SPG Series Style "G" Protected Screw Take-Ups...Setscrew Lock

SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions in Inches														BOLT SIZE	UNIT WT.
			T	A	B	C	D	E	F	G	H	J	K	M	N	O		
1 7/8 1 15/16 50	NPG-30-12 NPG-31-12 NPG-210-12	2-114 2-115 5210	12	26 3/4	24	6	2 5/16	2 1/2	3 3/4	4 15/16	2 5/16	3/4	1 9/32	28 1/4	2 1/16	1/4	12	27.6
1 7/8 1 15/16 50	NPG-30-18 NPG-31-18 NPG-210-18	2-114 2-115 5210	18	32 3/4	30	6	2 5/16	2 1/2	3 3/4	4 15/16	2 5/16	3/4	1 9/32	34 1/4	2 1/16	1/4	12	30.4
2 2 1/8 2 3/16 55	NPG-32-12 NPG-34-12 NPG-35-12 NPG-211-12	2-2 2-22 2-23 5211	12	27 1/4	24 1/2	6 1/4	2 11/16	3	4 3/4	5 9/16	2 1/2	7/8	1 5/16	29	2 7/16	5/16	1/2	36.6
2 2 1/8 2 3/16 55	NPG-32-18 NPG-34-18 NPG-35-18 NPG-211-18	2-2 2-22 2-23 5211	18	33 1/4	30 1/2	6 1/4	2 11/16	3	4 3/4	5 9/16	2 1/2	7/8	1 5/16	35	2 7/16	5/16	1/2	40.1
2 1/4 2 3/8 2 7/16 60	SPG-36-12 SPG-38-12 SPG-39-12 SPG-212-12	2-24 2-26 2-27 5212	12	30	27 1/4	7 5/8	2 11/16	3	4 3/4	6 3/16	2 15/16	1	1 9/16	31 3/4	2 7/16	5/16	5/8	48.9
2 1/4 2 3/8 2 7/16 60	SPG-36-18 SPG-38-18 SPG-39-18 SPG-212-18	2-24 2-26 2-27 5212	18	36	33 1/4	7 5/8	2 11/16	3	4 3/4	6 3/16	2 15/16	1	1 9/16	37 3/4	2 7/16	5/16	5/8	52.1
2 1/2 2 11/16 70	SPG-40-12 SPG-43-12 SPG-214-12	3-28 2-211 5214	12	311/2	28 3/4	8 3/8	3 1/4	3	5	7 1/2	3 3/8	1 1/16	1 11/16	33 1/2	2 7/8	3/8	5/8	67.2
2 1/2 2 11/16 70	SPG-40-18 SPG-43-18 SPG-214-18	3-28 2-211 5214	18	37 1/2	34 3/4	8 3/8	3 1/4	3	5	7 1/2	3 3/8	1 1/16	1 11/16	39 1/2	2 7/8	3/8	5/8	69.2
2 7/8 2 15/16 75	SPG-46-12 SPG-47-12 SPG-215-12	2-214 2-215 5215	12	31 1/2	28 3/4	8 3/8	3 1/4	3	5	7 1/2	3 7/16	1 5/16	1 3/4	33 1/2	2 7/8	3/8	5/8	67.6
2 7/8 2 15/16 75	SPG-46-18 SPG-47-18 SPG-215-18	2-214 2-215 5215	18	37 1/2	34 3/4	8 3/8	3 1/4	3	5	7 1/2	3 7/16	1 5/16	1 3/4	39 1/2	2 7/8	3/8	5/8	69.8

Series NPG and SPG are top mounted protected screw take-up units incorporating standard duty pillow blocks, as indicated in the accompanying charts. They are used where shaft adjustment and/or belt tightening is required in conveyor applications. They are manufactured from heavy gauge structural steel and equipped with heavy duty Acme (square) threads for positive action. Adjustment is made by turning the square head screw with an open end wrench.

Part numbers shown include standard duty pillow block NP (see page 20) or SP (see page 24) as indicated.

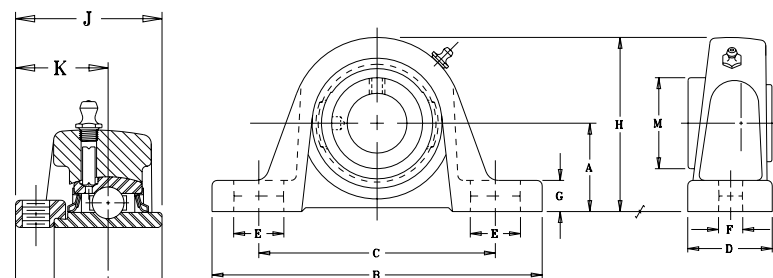


MOUNTED BALL BEARINGS

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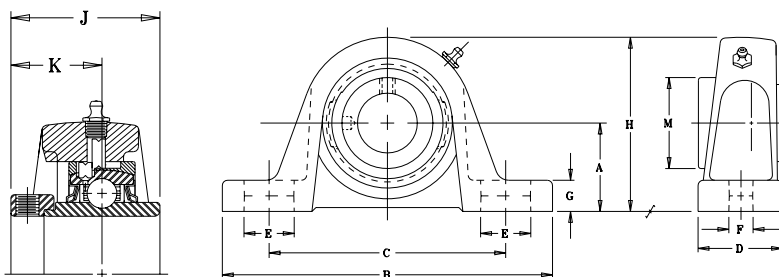
Gold Line Solutions for Textile Applications

- Eccentric Locking ensures positive locking without digging into shafting which prevents corrosion initiation.
- Ultra Gard spring Loaded Oil Seals that increase the force between rotating inner race and rubber to tighten seal.
(See seal description page 188).
- Expansion units provide more shaft growth acceptance than standard expansion units.
- Synthetic High Temperature Grease - increases operating temperature range of bearing to 375°F.



TXP Series Textile Bearings Pillow Blocks...Eccentric Locking – Fixed

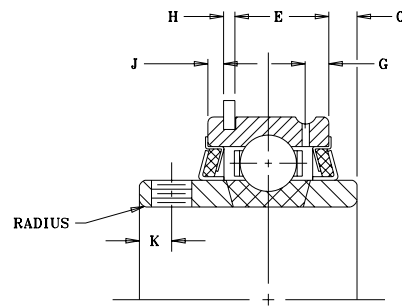
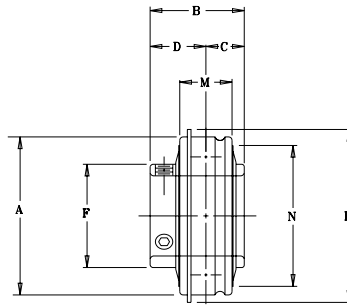
SHAFT DIAM. IN	PART NO.	BRG. NO.	Dimensions in Inches												BOLT SIZE IN.	UNIT WT.
			A	B	C		D	E	F	G	H	J	K	M		
					MIN.	MAX.										
1 7/16	TXP-23	TX-23	2 1/8	7 15/16	5	6 3/8	2 1/32	1 3/16	9/16	3/4	4 3/16	2 1/64	1 9/32	2 3/16	1/2	7.1
2 3/16	TXP-35	TX-35	2 3/4	10 1/4	6 9/16	7 15/16	3 1/8	1 7/16	13/16	1 1/16	5 5/8	2 13/16	1 23/32	3	3/4	16-2
2 7/16	TXP-39	TX-39	3	11 1/4	7 1/8	8 7/8	3 1/4	1 5/8	13/16	1 1/16	6 1/4	3 1/16	1 27/32	3 3/8	3/4	21.5



ETXP Series Textile Bearings Pillow Blocks...Eccentric Locking – Expansion

SHAFT DIAM. IN	PART NO.	BRG. NO. AR-	Dimensions in Inches												LIMIT OF EXPANSION	BOLT SIZE IN.	UNIT WT.
			A	B	C		D	E	F	G	H	J	K	M			
					MIN.	MAX.											
1 7/16	ETXP-23	ETX-23	2 1/8	7 15/16	5	6 3/8	2 1/32	1 3/16	9/16	3/4	4 3/16	2 1/64	1 9/32	2 3/16	3/16	1/2	6.8
2 3/16	ETXP-35	ETX-35	2 3/4	10 1/4	6 9/16	7 15/16	3 1/8	1 7/16	13/16	1 1/16	5 5/8	2 13/16	1 23/32	3	3/8	3/4	15.6
2 7/16	ETXP-39	ETX-39	3	11 1/4	7 1/8	8 7/8	3 1/4	1 5/8	13/16	1 1/16	6 1/4	3 1/16	1 27/32	3 3/8	3/8	3/4	20.0

SEALMASTER® MOUNTED BALL BEARINGS



ER Series Style "A" Extended Inner Ring Bearing Assemblies...Setscrew Locking

SHAFT DIAM.		BRG. NO.	Dimensions in Inches														UNIT WT.	
			A	B	C	D	E	F	G	H	J	K	M	N	RAD	O		P
1/2 9/16 5/8 11/16 3/4 20		ER-8 ER-9 ER-10 ER-11 ER-12 ER-204	47MM 1.8504	1 7/32	13/32	13/16	31/64	1 3/16	11/64	3/64	3/32	3/16	5/8	1 5/8	.040	.094	2 1/16	.56
7/8 15/16 1 25		ER-14 ER-15 ER-16 ER-205	52MM 2.0472	1 3/8	33/64	55/64	39/64	1 3/8	13/64	3/64	3/32	7/32	3/4	1 55/64	.040	.135	2 17/64	.68
1 1/16 1 1/8 1 3/16 1 1/4 30		ER-17 ER-18 ER-19 ER-20R ER-206	62MM 2.4409	1 1/2	5/8	7/8	11/16	1 19/32	7/32	1/16	1/8	7/32	7/8	2 5/32	.040	.188	2 21/32	.93
1 1/4 1 5/16 1 3/8 1 7/16 35		ER-20 ER-21 ER-22 ER-23 ER-207	72MM 2.8346	1 11/16	11/16	1	3/4	1 55/64	7/32	1/16	1/8	1/4	15/16	2 17/32	.040	.219	3 5/64	1.37
1 1/2 1 9/16 40		ER-24 ER-25 ER-208	80MM 3.1496	1 15/16	3/4	1 3/16	29/32	2 1/16	1/4	1/16	1/8	5/16	1 3/32	2 53/64	.062	.203	3 13/32	2.00
1 5/8 1 11/16 1 3/4 45		ER-26 ER-27 ER-28 ER-209	85MM 3.3465	1 15/16	3/4	1 3/16	29/32	2 19/64	1/4	1/16	1/8	5/16	1 3/32	3 1/16	.062	.203	3 19/32	2.31
1 13/16 1 7/8 1 15/16 2 50		ER-29 ER-30 ER-31 ER-32R ER-210	90MM 3.5433	2 1/32	3/4	1 9/32	29/32	2 15/32	19/64	3/32	1/8	3/8	1 1/8	3 7/32	.062	.188	3 25/32	2.43
2 2 1/8 2 3/16 55		ER-32 ER-34 ER-35 ER-211	100MM 3.9370	2 3/16	7/8	1 5/16	31/32	2 23/32	19/64	3/32	1/8	3/8	1 3/16	3 9/16	.080	.281	4 3/16	3.00
2 1/4 2 3/8 2 7/16 60		ER-36 ER-38 ER-39 ER-212	110MM 4.3307	2 9/16	1	1 9/16	1 1/32	2 63/64	19/64	3/32	1/8	7/16	1 1/4	3 29/32	.080	.375	4 19/32	4.00
2 1/2 2 11/16 70		ER-40 ER-43 ER-214	125MM 4.9213	2 3/4	1 1/16	1 11/16	1 7/64	3 7/16	5/16	7/64	5/32	7/16	1 3/8	4 7/16	.080	.375	5 9/32	5.56
2 7/8 2 15/16 75		ER-46 ER-47 ER-215	130MM 5.1181	3 1/16	1 5/16	1 3/4	1 15/64	3 41/64	3/8	7/64	5/32	7/16	1 1/2	4 5/8	.080	.563	5 1/2	6.37
3 3 3/16 80		ER-48 ER-51 ER-216	140MM 5.5118	3 1/4	1 5/16	1 15/16	1 25/64	3 59/64	7/16	7/64	3/16	17/32	1 11/16	4 63/64	.120	.469	5 7/8	7.85
3 1/4 3 3/8 3 7/16		ER-52 ER-54 ER-55	150MM 5.9055	3 3/8	1 11/32	2 1/32	1 41/64	4 5/32	7/16	7/64	3/16	15/32	1 15/16	5 19/64	.120	.375	6 9/32	9.50
3 15/16 4		ER-63 ER-64	190MM 7.4803	4 5/8	1 15/16	2 11/16	2 5/32	5 11/64	11/16	1/8	7/32	3/4	2 1/2	6 21/32	.120	.688	8	22.0

For Load Ratings, see page 45.

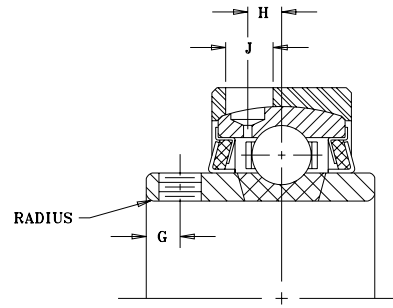
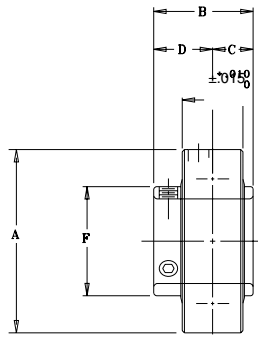
See page 75 for Table on guide for matching housings using the "ER" style "A" Extended Inner Ring Bearing.

Felt seal standard. For contact seal add suffix "C" ER-16C.



MOUNTED BALL BEARINGS

SEALMASTER®



AR Series Standard Duty Expansion Units...Setscrew Locking

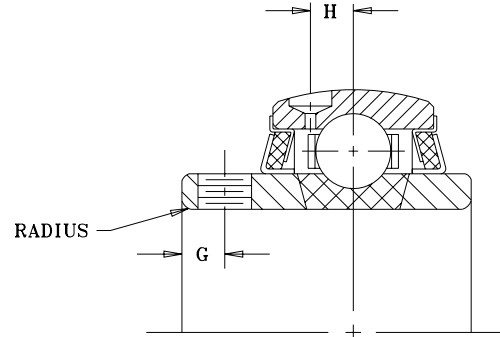
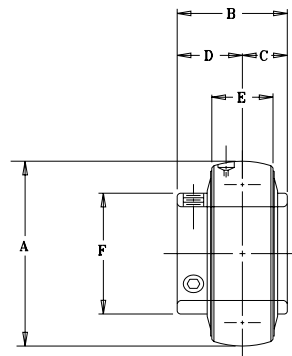
SHAFT DIAM.		BRG. NO.	Dimensions in Inches									SET SCREW TAP	UNIT WT.
			*A	B	C	D	E	F	G	H	J		
1/2 9/16 5/8 11/16 3/4 20	AR-2-08 AR-2-09 AR-2-010 AR-2-011 AR-2-012 AR-204	2.062	1 7/32	1/2	23/32	49/64	1 3/16	3/16	9/64	1/4	.040	1/4-28	.8
13/16 7/8 15/16 1 25	AR-2-013 AR-2-014 AR-2-015 AR-2-1 AR-205	2.272	1 3/8	9/16	13/16	49/64	1 3/8	7/32	11/64	1/4	.040	1/4-28	1.0
1 1/16 1 1/8 1 3/16 1 1/4 30	AR-2-11 AR-2-12 AR-2-13 AR-1-14 AR-206	2.687	1 1/2	5/8	7/8	61/64	1 19/32	7/32	7/32	1/4	.040	1/4-28	1.5
1 1/4 1 5/16 1 3/8 1 7/16 35	AR-2-14 AR-2-15 AR-2-16 AR-2-17 AR-207	3.140	1 11/16	11/16	1	1 1/64	1 55/64	1/4	1/4	1/4	.040	5/16-24	2.1
1 1/2 1 9/16 40	AR-2-18 AR-2-19 AR-208	3.375	1 15/16	3/4	1 3/16	1 11/64	2 1/16	5/16	19/64	1/4	.062	5/16-24	2.8
1 5/8 1 11/16 1 3/4 45	AR-2-110 AR-2-111 AR-2-112 AR-209	3.562	1 15/16	3/4	1 3/16	1 11/64	2 19/64	5/16	19/64	1/4	.062	5/16-24	3
1 13/16 1 7/8 1 15/16 2 50	AR-2-113 AR-2-114 AR-2-115 AR-1-2 AR-210	3.875	2-1/32	3/4	1 9/32	1 13/64	2 15/32	3/8	17/64	11/32	.062	3/8-24	3.5
2 2 1/8 2 3/16 55	AR-2-2 AR-2-22 AR-2-23 AR-211	4.250	2 3/16	7/8	1 5/16	1 17/64	2 23/32	3/8	19/64	11/32	.080	3/8-24	4.4
2 1/4 2 3/8 2 7/16 60	AR-2-24 AR-2-26 AR-2-27 AR-212	4.718	2 9/16	1	1 9/16	1 21/64	2 63/64	7/16	21/64	11/32	.080	3/8-24	5.8
2 11/16 70	AR-2-211 AR-214	5.170	2 3/4	1 1/16	1 11/16	1 29/64	3 7/16	7/16	3/8	11/32	.080	7/16-20	9.3
2 7/8 2 15/16 75	AR-2-214 AR-2-215 AR-215	5.375	3 1/16	1 5/16	1 3/4	1 37/64	3 41/64	7/16	3/8	11/32	.080	7/16-20	9.6
3 3/16 80	AR-2-33 AR-216	5.875	3 1/4	1 5/16	1 15/16	1 53/64	3 59/64	17/32	13/32	15/32	.120	7/16-20	12.2
3 1/4 3 3/8 3 7/16	AR-2-34 AR-2-36 AR-2-37	6.280	3 3/8	1 11/32	2 1/32	2 5/64	4 5/32	15/32	17/32	15/32	.120	7/16-20	15.2
3 1/2 90	AR-2-38 AR-218	6.750	3 25/32	1 9/16	2 7/32	2 9/64	4 25/64	5/8	15/32	15/32	.120	1/2-20	18.5

For Load Ratings, see page 45.

*Tolerance +.000", -.005"

Felt seal standard. For contact seal add suffix "C" (AR-2-1C).

SEALMASTER® MOUNTED BALL BEARINGS



Standard Duty Bearing Inserts...Setscrew Locking – Single Lock

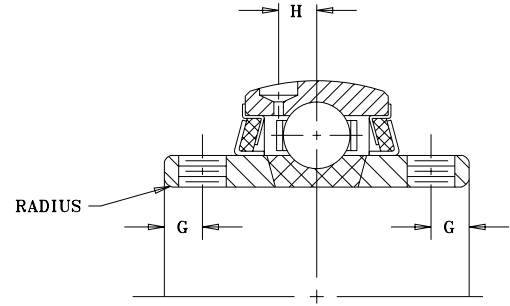
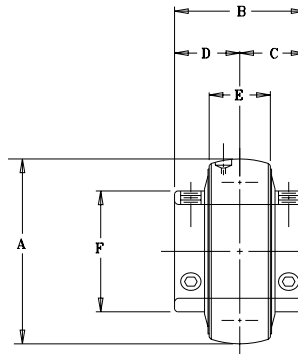
SHAFT DIAM.	BRG. NO.	Dimensions in Inches									SET SCREW TAP	UNIT WT.
		A	B	C	D	E	F	G	H	RADIUS		
1/2 9/16 5/8 11/16 3/4 20	2-08 2-09 2-010 2-011 2-012 5204	47MM 1.8504	1 7/32	1/2	23/32	5/8	1 3/16	3/16	9/64	.040	1/4-28	.5
13/16 7/8 15/16 1 25	2-013 2-014 2-015 2-1 5205	52MM 2.0472	1 3/8	9/16	13/16	11/16	1 3/8	7/32	11/64	.040	1/4-28	.6
1 1/16 1 1/8 1 3/16 1 1/4 30	2-11 2-12 2-13 1-14 5206	62MM 2.4409	1 1/2	5/8	7/8	7/8	1 19/32	7/32	7/32	.040	1/4-28	1.0
1 1/4 1 5/16 1 3/8 1 7/16 35	2-14 2-15 2-16 2-17 5207	72MM 2.8346	1 11/16	11/16	1	15/16	1 55/64	1/4	1/4	.040	5/16-24	1.5
1 1/2 1 9/16 40	2-18 2-19 5208	80MM 3.1496	1 15/16	3/4	1 3/16	1 3/32	2 1/16	5/16	19/64	.062	5/16-24	1.9
1 5/8 1 11/16 1 3/4 45	2-110 2-111 2-112 5209	85MM 3.3465	1 15/16	3/4	1 3/16	1 3/32	2 19/64	5/16	19/64	.062	5/16-24	2.2
1 13/16 1 7/8 1 15/16 2 50	2-113 2-114 2-115 1-2 5210	90MM 3.5433	2 1/32	3/4	1 9/32	1 1/8	2 15/32	3/8	17/64	.062	3/8-24	2.4
2 2 1/8 2 3/16 55	2-2 2-22 2-23 5211	100MM 3.9370	2 3/16	7/8	1 5/16	1 3/16	2 23/32	3/8	19/64	.080	3/8-24	2.8
2 1/4 2 3/8 2 7/16 60	2-24 2-26 2-27 5212	110MM 4.3307	2 9/16	1	1 9/16	1 1/4	2 63/64	7/16	21/64	.080	3/8-24	3.7
2 11/16 70	2-211 5214	125MM 4.9213	2 3/4	1 1/16	1 11/16	1 3/8	3 7/16	7/16	3/8	.080	7/16-20	5.8
2 7/8 2 15/16 75	2-214 2-215 5215	130MM 5.1181	3 1/16	1 5/16	1 3/4	1 1/2	3 41/64	7/16	3/8	.080	7/16-20	6.8
3 3/16 80	2-33 5216	140MM 5.5118	3 1/4	1 5/16	1 15/16	1 11/16	3 59/64	17/32	13/32	.120	7/16-20	7.2
3 1/4 3 3/8 3 7/16	2-34 2-36 2-37	150MM 5.9055	3 3/8	1 11/32	2 1/32	1 15/16	4 5/32	15/32	17/32	.120	7/16-20	9.3
3 1/2 90	2-38 5218	160MM 6.2992	3 25/32	1 9/16	2 7/32	2	4 25/64	5/8	15/32	.120	1/2-20	11.7

Felt seal standard. For contact seal add suffix "C" (2-1C).
For Load Ratings, see page 45.



MOUNTED BALL BEARINGS

SEALMASTER®



Standard Duty Bearing Inserts...Setscrew Locking – Double Lock

SHAFT DIAM.	BRG. NO.	Dimensions in Inches									SET SCREW TAP	UNIT WT.
		A	B	C	D	E	F	G	H	RADIUS		
7/8 15/16 1	2-014D 2-015D 2-1D	52MM 2.0472	1 1/2	3/4	3/4	11/16	1 3/8	7/32	11/64	.040	1/4-28	.6
1 1/16 1 1/8 1 3/16	2-11D 2-12D 2-13D	62MM 2.4409	1 3/4	7/8	7/8	7/8	1 19/32	7/32	7/32	.040	1/4-28	1.0
1 1/4 1 5/16 1 3/8 1 7/16	2-14D 2-15D 2-16D 2-17D	72MM 2.8346	2	1	1	15/16	1 55/64	1/4	1/4	.040	5/16-24	1.5
1 1/2 1 9/16	2-18D 2-19D	80MM 3.1496	2 5/16	1 5/32	1 5/32	1 3/32	2 1/16	5/16	19/64	.062	5/16-24	1.9
1 5/8 1 11/16 1 3/4	2-110D 2-111D 2-112D	85MM 3.3465	2 3/8	1 3/16	1 3/16	1 3/32	2 19/64	11/32	19/64	.062	5/16-24	2.2
1 7/8 1 15/16	2-114D 2-115D	90MM 3.5433	2 1/2	1 1/4	1 1/4	1 1/8	2 15/32	11/32	17/64	.062	3/8-24	2.4
2 2 1/8 2 3/16	2-2D 2-22D 2-23D	100MM 3.9370	2 5/8	1 5/16	1 5/16	1 3/16	2 23/32	5/16	19/64	.080	3/8-24	2.8
2 1/4 2 3/8 2 7/16	2-24D 2-26D 2-27D	110MM 4.3307	3 1/8	1 9/16	1 9/16	1 1/4	2 63/64	13/32	21/64	.080	3/8-24	3.7
2 11/16	2-211D	125MM	3 1/2	1 3/4	1 3/4	1 3/8	3 7/16	15/32	3/8	.080	7/16-20	5.8
2 7/8 2 15/16	2-214D 2-215D	130MM	3 1/2	1 3/4	1-3/4	1 1/2	3 41/64	7/16	3/8	.080	7/16-20	6.8
3 3/16	2-33D	140MM	3 7/8	1 15/16	1 15/16	1 11/16	3 59/64	9/16	13/32	.120	7/16-20	7.2
3 1/4 3 3/8 3 7/16	2-34D 2-36D 2-37D	150MM 5.9055	4 1/16	2 1/32	2 1/32	1 15/16	4 5/32	1/2	17/32	.120	7/16-20	9.3
3 1/2	2-38D	160MM	4 7/16	2 7/32	2 7/32	2	4 25/64	1/2	15/32	.120	1/2-20	11.7

Double Lock bearing inserts incorporate extended inner races on both sides of the ball path for better load distribution along the shaft. Each extension has 2 locking setscrews, a total of 4 per insert. The ball path is zone hardened with the extensions left soft for positive race-to-shaft locking. The outer ring has a dimple for use with a locking pin to prevent outer race rotation. Double lock units have higher speed capabilities. (See load rating tables page 45).

LOAD RATING TABLES - Normal Duty

The shaded area indicates the maximum speed ratings for double lock bearings (applicable on sizes available). All speeds listed are for the standard felt seal. See the seal selection for alternate seals.

Values in the table represent loads at ideal conditions with press fit mounting to the shaft. ABMA recommends de-rating of slip mounted bearings. To obtain de-rated load, divide load in table by 1.3. Values in the table represent equivalent radial loads only. For combined load determination, see **THE BEARING SELECTION SECTION**. Areas designated by "-" exceeds maximum value for standard bearings. **Consult SEALMASTER Application Engineering for load and speed applications not covered in this table.**

NORMAL DUTY			REVOLUTIONS PER MINUTE																
SHAFT SIZE	INSERT #	ER #	L10 HOURS	50	150	500	1000	1750	2000	2500	3500	4500	5000	5500	6000	6500	7500	8000	10000
1/2	2-08	ER-8	5000	619	619	491	390	324	310	287	257	236	228	221	215	209	199	195	181
9/16	2-09	ER-9	10000	583	583	390	310	257	246	228	204	188	181	175	170	166	158	154	143
5/8	2-010	ER-10	30000	583	404	270	215	178	170	158	141	130	126	122	118	115	109	107	100
11/16	2-011	ER-11	50000	491	341	228	181	150	144	133	119	110	106	103	100	97	92	90	84
3/4	2-012	ER-12	100000	390	270	181	144	119	114	106	95	87	84	81	79	77	73	71	67
20mm	5204	ER-204																	
1 3/16	2-013		5000	664	664	527	418	347	332	308	276	253	245	237	230	224	213	213	-
7/8	2-014	ER-14	10000	625	625	418	332	276	264	245	219	201	194	188	183	177	169	169	-
15/16	2-015	ER-15	30000	625	433	290	230	191	183	170	152	139	135	130	127	123	117	117	-
25mm	5205	ER-205	50000	527	366	245	194	161	154	143	128	118	114	110	107	104	99	99	-
1	2-1	ER-16	100000	418	290	194	154	128	122	114	102	93	90	87	85	82	78	78	-
1 1/16	2-11	ER-17	5000	1039	1039	825	654	543	519	482	431	396	383	370	360	351	334	334	-
1 1/8	2-12	ER-18	10000	978	978	654	519	431	412	383	342	315	304	294	286	278	265	265	-
1 3/16	2-13	ER-19	30000	978	678	454	360	299	286	265	237	218	211	204	198	193	184	184	-
30mm	5206	ER-206	50000	825	572	383	304	252	241	224	200	184	178	172	167	163	155	155	-
1 1/4R	1-14		100000	654	454	304	241	200	191	178	159	146	141	136	133	129	123	123	-
1 1/4	2-14	ER-20	5000	1290	1290	1088	864	717	686	636	569	523	505	489	475	463	-	-	-
1 5/16	2-15	ER-21	10000	1290	1290	864	686	569	544	505	452	415	401	388	377	367	-	-	-
1 3/8	2-16	ER-22	30000	1290	895	599	475	394	377	350	313	288	278	269	262	255	-	-	-
35mm	5207	ER-207	50000	1088	755	505	401	333	318	295	264	243	234	227	221	215	-	-	-
1 7/16	2-17	ER-23	100000	864	599	401	318	264	253	234	210	193	186	180	175	171	-	-	-
1 1/2	2-18	ER-24	5000	1638	1638	1381	1096	910	870	808	722	664	641	621	603	-	-	-	-
1 9/16	2-19	ER-25	10000	1638	1638	1096	870	722	691	641	573	527	509	493	479	-	-	-	-
40mm	5208	ER-208	30000	1638	1136	760	603	501	479	445	397	365	353	342	332	-	-	-	-
			50000	1381	958	641	509	422	404	375	335	308	298	288	280	-	-	-	-
			100000	1096	760	509	404	335	321	298	266	245	236	229	222	-	-	-	-
1 5/8	2-110	ER-26	5000	1763	1763	1487	1180	979	937	870	777	715	690	669	-	-	-	-	
1 11/16	2-111	ER-27	10000	1763	1763	1180	937	777	744	690	617	567	548	531	-	-	-	-	
1 3/4	2-112	ER-28	30000	1763	1222	818	650	539	516	479	428	393	380	368	-	-	-	-	
45mm	5209	ER-209	50000	1487	1031	690	548	455	435	404	361	332	320	310	-	-	-	-	-
			100000	1180	818	548	435	361	345	320	286	263	254	246	-	-	-	-	-
1 13/16	2-113		5000	1760	1760	1485	1178	978	935	868	776	714	689	-	-	-	-	-	-
1 7/8	2-114	ER-30	10000	1760	1760	1178	935	776	742	689	616	567	547	-	-	-	-	-	-
1 15/16	2-115	ER-31	30000	1760	1221	817	649	538	515	478	427	393	379	-	-	-	-	-	-
50mm	5210	ER-210	50000	1485	1029	689	547	454	434	403	360	331	320	-	-	-	-	-	-
			100000	1178	817	547	434	360	345	320	286	263	254	-	-	-	-	-	-
2	2-2	ER-32	5000	2176	2176	1835	1457	1209	1156	1073	1010	959	-	-	-	-	-	-	-
2 1/8	2-22	ER-34	10000	2176	2176	1457	1156	959	918	852	802	762	-	-	-	-	-	-	-
55mm	5211	ER-211	30000	2176	1509	1010	802	665	636	591	556	528	-	-	-	-	-	-	-
2 3/16		ER-35	50000	1835	1273	852	676	561	537	498	469	445	-	-	-	-	-	-	-
			100000	1457	1010	676	537	445	426	395	372	353	-	-	-	-	-	-	-
NORMAL DUTY			REVOLUTIONS PER MINUTE																
SHAFT SIZE	INSERT #	ER #	L10 HOURS	50	150	250	500	750	1000	1250	1500	1750	2000	2500	3000	3500	4000	4500	-
2 1/4	2-24	ER-36	5000	2631	2631	2631	2219	1938	1761	1635	1538	1461	1398	1298	1221	1160	1109	-	-
2 5/16	2-25		10000	2631	2631	2219	1761	1538	1398	1298	1221	1160	1109	1030	969	921	881	-	-
60mm	5212	ER-212	30000	2631	1824	1538	1221	1067	969	900	847	804	769	714	672	638	611	-	-
2 3/8	2-26	ER-38	50000	2219	1538	1298	1030	900	817	759	714	678	649	602	567	538	515	-	-
2 7/16	2-27	ER-39	100000	1761	1221	1030	817	714	649	602	567	538	515	478	450	427	409	-	-
2 1/2		ER-40	5000	3118	3118	3118	2629	2297	2087	1937	1823	1732	1656	1538	1447	1375	-	-	-
2 11/16	2-211	ER-43	10000	3118	3118	2629	2087	1823	1656	1538	1447	1375	1315	1220	1149	1091	-	-	-
70mm	5214	ER-214	30000	3118	2162	1823	1447	1264	1149	1066	1003	953	912	846	796	756	-	-	-
			50000	2629	1823	1538	1220	1066	969	899	846	804	769	714	672	638	-	-	-
			100000	2087	1447	1220	969	846	769	714	672	638	610	567	533	506	-	-	-
2 7/8	2-214	ER-46	5000	3311	3311	3311	2793	2440	2217	2058	1936	1839	1759	1633	1537	1460	-	-	-
2 15/16	2-215	ER-47	10000	3311	3311	2793	2217	1936	1759	1633	1537	1460	1396	1296	1220	1159	-	-	-
75mm	5215	ER-215	30000	3311	2296	1936	1537	1343	1220	1132	1066	1012	968	899	846	803	-	-	-
			50000	2793	1936	1633	1296	1132	1029	955	899	854	817	758	713	678	-	-	-
			100000	2217	1537	1296	1029	899	817	758	713	678	648	602	566	538	-	-	-
3		ER-48	5000	3885	3885	3885	3277	2863	2601	2415	2272	2158	2064	1916	1803	-	-	-	-
80mm	5216	ER-216	10000	3885	3885	3277	2601	2272	2064	1916	1803	1713	1639	1521	1431	-	-	-	-
3 3/16	2-33	ER-51	30000	3885	2694	2272	1803	1575	1431	1329	1250	1188	1136	1055	992	-	-	-	-
			50000	3277	2272	1916	1521	1329	1207	1121	1055	1002	985	890	837	-	-	-	-
			100000	2601	1803	1521	1207	1055	958	890	837	795	761	706	664	-	-	-	-
3 1/4	2-34	ER-52	5000	3975	3975	3975	3516	3071	2791	2591	2438	2316	2215	2056	1935	-	-	-	-
3 3/8	2-36	ER-54	10000	3975	3975	3516	2791	2438	2215	2056	1935	1838	1758	1632	1536	-	-	-	-
3 7/16	2-37	ER-55	30000	3975	2890	2438	1935	1690	1536	1426	1342	1274	1219	1132	1065	-	-		

Medium Duty Bearings Designed For Higher Load Ratings

SEALMASTER® Gold Line Medium Duty Bearings, designed for heavier industrial applications, are shown and described in the dimension and specification pages 47-61 which follow for setscrew designs, and pages 79-83 for SKWEZLOC® locking collar designs.

Medium Duty Bearings Are Offered In The Following Series:



Pillow Blocks, Two-Bolt Base

- with Setscrew Locking in both single and double locking designs.
- With SKWEZLOC Locking Collars.



Expansion Type Pillow Blocks, Two-Bolt Base

- with Setscrew Locking, single locking designs.
- with SKWEZLOC Locking Collars.



Pillow Blocks, Four-Bolt Base

- with Setscrew Locking in both single and double locking designs.



Take-Up Units

- with Setscrew Locking, single locking designs.
- with SKWEZLOC Locking Collar designs.



Four-Bolt Flange Units

- with Setscrew Locking, single locking designs.
- with SKWEZLOC Locking Collar designs.



Two-Bolt Flange Units

- with Setscrew Locking, single locking designs.
- with SKWEZLOC Locking Collar designs.



Flange Cartridge Units (Cylindrical Cartridges)

- with Setscrew Locking, single locking designs.
- with SKWEZLOC Locking Collar designs.



Expansion Units (Cylindrical Cartridges)

- with Setscrew Locking, single locking designs.



Expansion Units (Cylindrical Cartridges)

- with SKWEZLOC Locking designs.



Bearing Inserts

- with Setscrew Locking in both single and double locking designs.

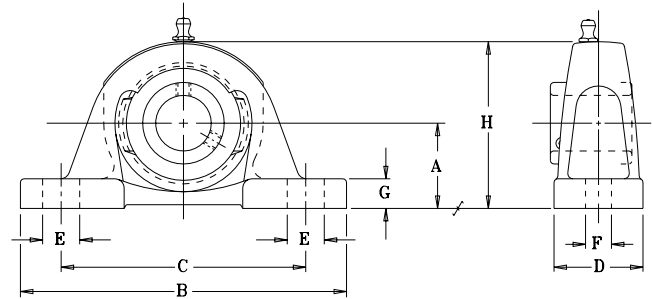
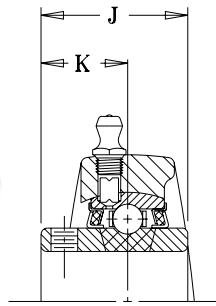


Bearing Inserts

- with SKWEZLOC Locking Collar designs.

The Load Rating Tables for all Medium Duty Bearings Units with Setscrew Single and Double Lock are on page 62.

Medium Duty Bearings have the same general features and benefits as the Standard Duty Units. These units may be further modified to meet unusual operating or ambient conditions. Consult our Engineering Department for specific recommendations.

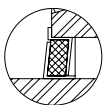


MP Series Medium Duty Pillow Blocks...Setscrew Locking

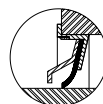
SHAFT DIAM.		PART NO.	BRG. NO.	Dimensions In Inches										BOLT SIZE IN.	UNIT WT.	
				A	B	C		D	E	F	G	H	J			K
IN	MM	MIN.	MAX.													
15/16 1	25	MP-15 MP-16 MP-305	3-015 3-1 5305	1 3/4	6 1/4	4 3/16	5 3/16	2	1	9/16	5/8	3 7/16	1 1/2	7/8	1/2	4.0
1 3/16 1 1/4	30	MP-19 MP-20 MP-306	3-13 2-14 5306	1 7/8	6 7/8	4 1/2	5 1/2	2 1/4	1	9/16	11/16	3 13/16	1 11/16	1	1/2	5.4
1 7/16	35	MP-23 MP-307	3-17 5307	2 1/8	8	5	6 3/8	2 1/4	1 3/16	9/16	3/4	4 3/16	1 15/16	1 3/16	1/2	6.8
1 1/2	40	MP-24 MP-308	3-18 5308	2 5/16	8 3/4	5 1/2	6 3/4	2 5/8	1 1/4	11/16	13/16	4 9/16	1 15/16	1 3/16	5/8	9.0
1 11/16 1 3/4	45	MP-27 MP-28 MP-309	3-111 3-112 5309	2 5/16	8 3/4	5 7/16	6 13/16	2 5/8	1 5/16	11/16	13/16	4 5/8	2 1/32	1 9/32	5/8	9.5
1 15/16 2	50	MP-31 MP-32 MP-310	3-115 2-2 5310	2 1/2	9 1/2	5 15/16	7 9/16	2 7/8	1 7/16	11/16	7/8	5 3/32	2 3/16	1 5/16	5/8	11.7
2 3/16 2 1/4	55	MP-35 MP-36 MP-311	3-23 2-24 5311	2 3/4	10 1/4	6 9/16	7 15/16	3 1/8	1 7/16	13/16	1 1/16	5 5/8	2 9/16	1 9/16	3/4	16.2
2 7/16 2 1/2	65	MP-39 MP-40 MP-313	3-27 3-28 5313	3	11 1/4	7 1/8	8 7/8	3 1/4	1 5/8	13/16	1 1/16	6 1/4	2 3/4	1 11/16	3/4	21.5
2 11/16	70	MP-43 MP-314	3-211 5314	3 1/2	13	7 7/8	10 1/8	3 1/2	2	15/16	1 1/8	7	3 1/16	1 3/4	7/8	29.2
2 15/16 3	75	MP-47 MP-48 MP-315	3-215 3-3 5315	3 1/2	13	7 7/8	10 1/8	3 1/2	2	15/16	1 1/4	7 1/4	3 1/4	1 15/16	7/8	31.5
3 3/16 3 1/4	80	MP-51 MP-52 MP-316	3-33 2-34 5316	4	15	9 11/16	12 9/16	4	2 5/16	15/16	1 1/4	8	3 3/8	2 1/32	7/8	44.1
3 7/16 3 1/2		MP-55 MP-56	3-37 2-38	4	15	9 5/8	12 5/8	4 3/8	2 3/8	15/16	1 5/16	8 1/4	3 25/32	2 7/32	7/8	47.8
3 15/16 4	100	MP-63 MP-64 MP-320	3-315 3-4 5320	5	17	11 3/4	14 3/4	4 3/4	2 1/2	1 1/8	1 5/16	10	4 5/8	2 11/16	1	73.2

For Load Ratings, see page 62.

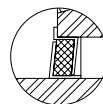
For Medium Duty Bearing Inserts-Single Lock, see page 60.



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail. To specify, add suffix "C" (MP-32C).

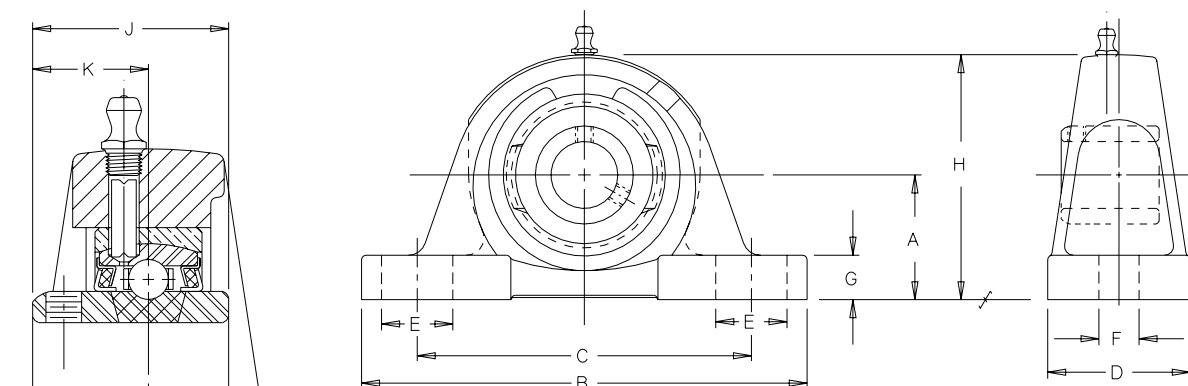


Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range. (See seal options on page 188).



MOUNTED BALL BEARINGS

SEALMASTER®

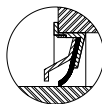


EMP Series Expansion Type Pillow Blocks...Setscrew Locking

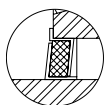
SHAFT DIAM. IN MM	PART NO.	BRG. NO.	Dimensions In Inches											LIMIT OF EXPLAN.	BOLT SIZE IN.	UNIT WT.
			A	B	C		D	E	F	G	H	J	K			
					MIN.	MAX.										
15/16 1	EMP-15	AR-2-015	1 3/4	6 1/4	4 3/16	5 3/16	2	1	9/16	5/8	3 7/16	1 3/8	13/16	1/8	1/2	3.7
25	EMP-16	AR-2-1														
	EMP-205	AR-5205														
1 3/16 30	EMP-19	AR-2-13	1 7/8	6 7/8	4 1/2	5 1/2	2 1/4	1	9/16	11/16	3 13/16	1 1/2	7/8	1/8	1/2	5.5
	EMP-206	AR-5206														
1 7/16 35	EMP-23	AR-2-17	2 1/8	8	5	6 3/8	2 1/4	1 3/16	9/16	3/4	4 3/16	1 11/16	1	1/8	1/2	6.8
	EMP-207	AR-5207														
1 1/2 40	EMP-24	AR-2-18	2 5/16	8 3/4	5 1/2	6 3/4	2 5/8	1 1/4	11/16	13/16	4 9/16	1 15/16	1 3/16	1/8	5/8	9.0
	EMP-208	AR-5208														
1 11/16 45	EMP-27	AR-2-111	2 5/16	8 3/4	5 7/16	6 13/16	2 5/8	1 5/16	11/16	13/16	4 5/8	1 15/16	1 3/16	1/8	5/8	9.2
	EMP-209	AR-5209														
1 15/16 50	EMP-31	AR-2-115	2 1/2	9 1/2	5 15/16	7 9/16	2 7/8	1 7/16	11/16	7/8	5 3/32	2 1/32	1 9/32	3/16	5/8	11.6
	EMP-210	AR-5210														
2 3/16 55	EMP-35	AR-2-23	2 3/4	10 1/4	6 9/16	7 15/16	3 1/8	1 7/16	13/16	1 1/16	5 5/8	2 3/16	1 5/16	3/16	3/4	15.6
	EMP-211	AR-5211														
2 7/16	EMP-39	AR-2-27	3	11 1/4	7 1/8	8 7/8	3 1/4	1 5/8	13/16	1 1/16	6 1/4	2 9/16	1 9/16	3/16	3/4	20.0
2 11/16 70	EMP-43	AR-2-211	3 1/2	13	7 7/8	10 1/8	3 1/2	2	15/16	1 1/8	7	2 3/4	1 11/16	3/16	7/8	29.1
	EMP-214	AR-5214														
2 15/16 75	EMP-47	AR-2-215	3 1/2	13	7 7/8	10 1/8	3 1/2	2	15/16	1 1/4	7 1/4	3 1/16	1 3/4	3/16	7/8	30.7
	EMP-215	AR-5215														
3 3/16 80	EMP-51	AR-2-33	4	15	9 11/16	12 9/16	4	2 5/16	15/16	1 1/4	8	3 1/4	1 15/16	9/32	7/8	41.8
	EMP-216	AR-5216														
3 7/16	EMP-55	AR-2-37	4	15	9 5/8	12 5/8	4 3/8	2 3/8	15/16	1 5/16	8 1/4	3 3/8	2 1/32	9/32	7/8	44.2
3 15/16 4	EMP-63	AR-3-315	5	17	11 3/4	14 3/4	4 3/4	2 1/2	1 1/8	1 5/16	10	4 5/8	2 11/16	9/32	1	72.0
	EMP-64	AR-3-4														

For Load Ratings, see page 62.

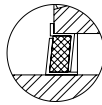
For Medium Duty Bearing Inserts-Single Lock, see page 60.



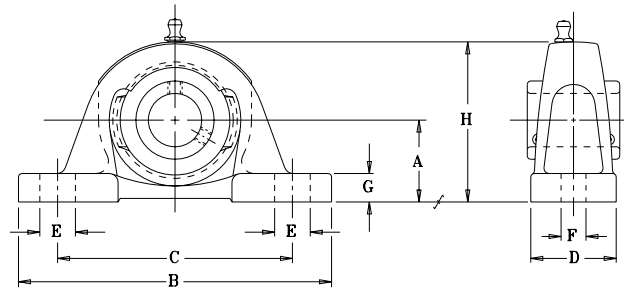
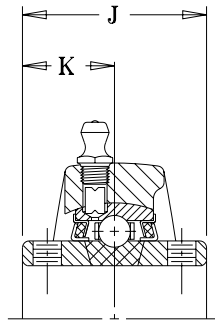
Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail.
To specify, add suffix "C" (EMP-32C).



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range.
(See seal options page 188).

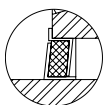


MPD Series Medium Duty Pillow Blocks...Setscrew Locking – Double Lock

SHAFT DIAM. IN MM	PART NO.	BRG. NO.	Dimensions In Inches											BOLT SIZE IN.	UNIT WT.
			A	B	C		D	E	F	G	H	J	K		
					MIN.	MAX.									
15/16 1	MPD-15 MPD-16	3-015D 3-1D	1 3/4	6 1/4	4 3/16	5 3/16	2	1	9/16	5/8	3 7/16	1 3/4	7/8	1/2	4.0
1 3/16 1 1/4	MPD-19 MPD-20	3-13D 2-14D	1 7/8	6 7/8	4 1/2	5 1/2	2 1/4	1	9/16	11/16	3 13/16	2	1	1/2	5.4
1 7/16	MPD-23	3-17D	2 1/8	8	5	6 3/8	2 1/4	1 3/16	9/16	3/4	4 3/16	2 5/16	1 5/32	1/2	6.8
1 1/2	MPD-24	3-18D	2 5/16	8 3/4	5 1/2	6 3/4	2 5/8	1 1/4	11/16	13/16	4 9/16	2 3/8	1 3/16	5/8	9.0
1 11/16 1 3/4	MPD-27 MPD-28	3-111D 3-112D	2 5/16	8 3/4	5 7/16	6 13/16	2 5/8	1 5/16	11/16	13/16	4 5/8	2 1/2	1 1/4	5/8	9.5
1 15/16 2	MPD-31 MPD-32	3-115D 2-2D	2 1/2	9 1/2	5 15/16	7 9/16	2 7/8	1 7/16	11/16	7/8	5 3/32	2 5/8	1 5/16	5/8	11.7
2 3/16 2 1/4	MPD-35 MPD-36	3-23D 2-24D	2 3/4	10 1/4	6 9/16	7 15/16	3 1/8	1 7/16	13/16	1 1/16	5 5/8	3 1/8	1 9/16	3/4	16.2
2 7/16 2 1/2	MPD-39 MPD-40	3-27D 3-28D	3	11 1/4	7 1/8	8 7/8	3 1/4	1 5/8	13/16	1 1/16	6 1/4	3 1/2	1 3/4	3/4	21.5
2 11/16	MPD-43	3-211D	3 1/2	13	7 7/8	10 1/8	3 1/2	2	15/16	1 1/8	7	3 1/2	1 3/4	7/8	29.2
2 15/16 3	MPD-47 MPD-48	3-215D 3-3D	3 1/2	13	7 7/8	10 1/8	3 1/2	2	15/16	1 1/4	7 1/4	3 7/8	1 15/16	7/8	31.5
3 3/16 3 1/4	MPD-51 MPD-52	3-33D 2-34D	4	15	9 11/16	12 9/16	4	2 5/16	15/16	1 1/4	8	4 1/16	2 1/32	7/8	44.1
3 7/16 3 1/2	MPD-55 MPD-56	3-37D 2-38D	4	15	9 5/8	12 5/8	4 3/8	2 3/8	15/16	1 5/16	8 1/4	4 7/16	2 7/32	7/8	47.8
3 15/16 4	MPD-63 MPD-64	3-315D 3-4D	5	17	11 3/4	14 3/4	4 3/4	2 1/2	1 1/8	1 5/16	10	5 3/8	2 11/16	1	73.2

For Load Ratings, see page 62.

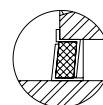
For Medium Duty Bearing Inserts-Double Lock, see page 61.



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail. To specify, add suffix "C" (MPD-32C).

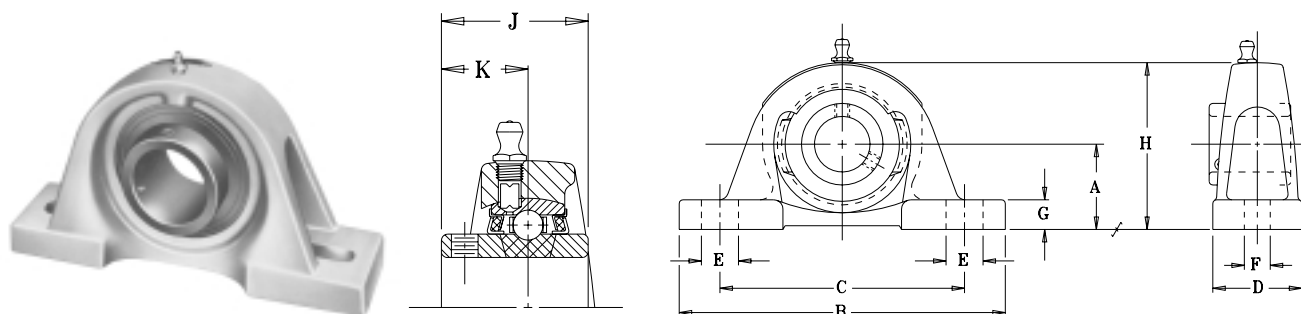


Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range. (See seal options on page 188).



MOUNTED BALL BEARINGS

SEALMASTER®

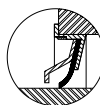


SPM Series Medium Duty Pillow Blocks...Setscrew Locking

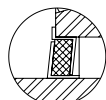
SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions in Inches											BOLT SIZE IN.	UNIT WT.	
			A	B	C		D	E	F	G	H	J	K			
					MIN.	MAX.										
IN	MM															
1 3/16		SPM-19	3-13	2	7 1/2	5 3/8	6 1/8	2	7/8	9/16	5/8	3 7/8	1 11/16	1	1/2	6.9
1 7/16		SPM-23	3-17	2 3/8	8 1/4	5 5/8	6 7/8	2 1/4	1 1/4	3/4	3/4	4 1/2	1 15/16	1 3/16	5/8	7.1
1 11/16 1 3/4		SPM-27 SPM-28	3-111 3-112	2 3/8	8 3/4	5 7/8	7 1/8	2 3/8	1 1/4	3/4	3/4	4 5/8	2 1/32	1 9/32	5/8	9.7
1 15/16		SPM-31	3-115	2 3/4	10 1/2	6 3/4	8 1/2	2 1/2	1 1/2	3/4	7/8	5 5/16	2 3/16	1 5/16	5/8	11.9
2 3/16		SPM-35	3-23	3 1/8	11 1/4	7 5/8	9 3/8	2 3/4	1 1/2	3/4	7/8	5 15/16	2 9/16	1 9/16	5/8	16.6
2 7/16 2 1/2		SPM-39 SPM-40	3-27 3-28	3 1/8	11 1/2	7 7/8	9 3/8	3	1 1/2	7/8	7/8	6 1/4	2 3/4	1 11/16	3/4	20.1

For Load Ratings, see page 62.

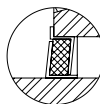
For Medium Duty Bearing Inserts-Single Lock, see page 60.



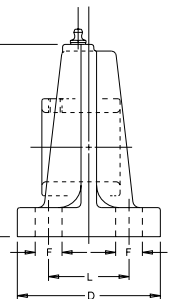
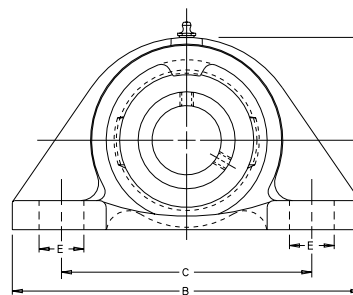
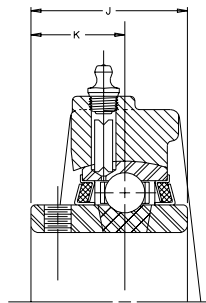
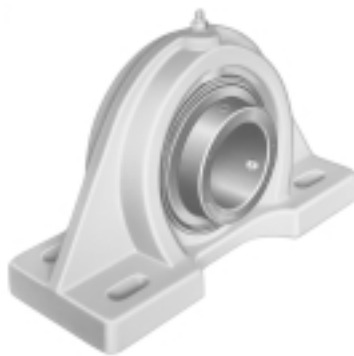
Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail. To specify, add suffix "C" (SPM-31C).



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range. (See seal options on page 188).



MFP Series Medium Duty Four-Bolt Base Pillow Blocks...Setscrew Locking

SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions In Inches												BOLT SIZE IN.	UNIT WT.
			A	B	C		D	E	F	G	H	J	K	L		
IN	MM				MIN.	MAX.										
1 15/16		MFP-31	3-115													
2		MFP-32	2-2													
50		MFP-310	5310	2 1/2	9 3/4	6 3/8	7 5/8	4	1 1/4	3/4	13/16	5 3/8	2 3/16	1 5/16	2 1/4	13.7
2 3/16		MFP-35	3-23													
2 1/4		MFP-36	2-24													
55		MFP-311	5311	2 3/4	10 1/4	6 7/8	8 1/8	4 1/8	1 1/4	3/4	7/8	5 13/16	2 9/16	1 9/16	2 1/4	17.0
2 7/16		MFP-39	3-27													
2 1/2		MFP-40	3-28													
65		MFP-313	5313	3	11 1/4	7 1/2	9	4 1/2	1 3/8	3/4	1	6 1/2	2 3/4	1 11/16	2 5/8	23.3
2 11/16		MFP-43	3-211													
70		MFP-314	5314	3 1/2	13	9	10 1/2	5	1 1/2	7/8	1 1/8	7 1/4	3 1/16	1 3/4	2 3/4	34.0
2 15/16		MFP-47	3-215													
3		MFP-48	3-3													
75		MFP-315	5315	3 1/2	13	9	10 1/2	5	1 1/2	7/8	1	7 3/8	3 1/4	1 15/16	2 3/4	36.5
3 3/16		MFP-51	3-33													
3 1/4		MFP-52	2-34													
80		MFP-316	5316	4	15	10 3/4	12 1/4	5	1 1/2	7/8	1 1/16	8 7/16	3 3/8	2 1/32	3	44.5
3 7/16		MFP-55	3-37													
3 1/2		MFP-56	2-38													
3 15/16		MFP-63	3-315													
4		MFP-64	3-4													
100		MFP-320	5320	5	17	12 7/16	14 1/16	6	1 11/16	1	1 1/4	10 1/4	4 5/8	2 11/16	3 1/2	83.5
4 7/16		MFPD-71 ¹	3-47D ²													
4 15/16		MFPD-79 ¹	3-415D ²													
				6	19	14	16	5 1/2	2	1 1/8	1 5/8	12 1/8	5 3/4	2 7/8	3 1/4	130.0

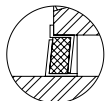
¹ Units MFPD-71 and MFPD-79 are equipped with four set screws: two on each end of inner race extensions.

² Units MFPD-71 and MFPD-79 are not available with contact seal.

For Load Ratings, see page 62.

For Medium Duty Bearing Inserts-Single Lock, see page 60.

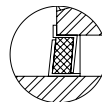
For Medium Duty Bearing Inserts-Double Lock, see page 61.



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail. To specify, add suffix "C" (MFP-32C).

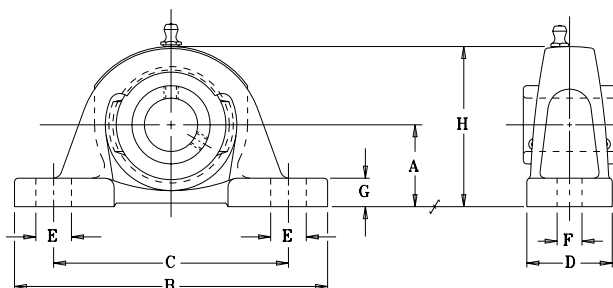
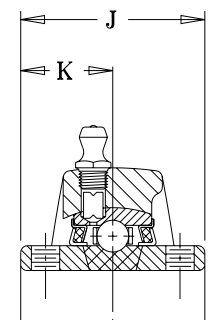


Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range. (See seal options on page 188).



MOUNTED BALL BEARINGS

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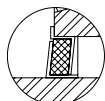
MSPD Series Medium Duty Pillow Blocks...Setscrew Locking – Double Lock

SHAFT DIAM.		PART NO.	BRG. NO.	Dimensions In Inches											BOLT SIZE IN.	UNIT WT.
				A	B	C		D	E	F	G	H	J	K		
IN	MM	MIN.	MAX.													
1 11/16 1 3/4	MSPD-27 MSPD-28	3-111D 3-112D	2 3/8	8 7/8	6 7/16	7 7/16	2 1/2	1 1/8	3/4	3/4	4 13/16	2 1/2	1 1/4	5/8	9.5	
1 15/16 2	MSPD-31 MSPD-32	3-115D 2-2D	2 3/4	10	7 1/8	8 3/8	2 5/8	1 1/4	3/4	7/8	5 7/16	2 5/8	1 5/16	5/8	12.5	
2 3/16 2 1/4	MSPD-35 MSPD-36	3-23D 2-24D	3 1/8	10 7/8	7 7/8	9 3/8	2 3/4	1 3/8	3/4	15/16	6 1/16	3 1/8	1 9/16	5/8	17.0	
2 7/16 2 1/2	MSPD-39 MSPD-40	3-27D 3-28D	3 1/8	11 3/4	8 3/4	9 7/8	3	1 5/16	7/8	1	6 5/16	3 1/2	1 3/4	3/4	22.0	
2 11/16	MSPD-43	3-211D	3 3/4	13 3/8	10 1/8	11 3/8	3 1/4	1 3/8	7/8	1	7 5/16	3 1/2	1 3/4	3/4	28.0	
2 15/16 3	MSPD-47 MSPD-48	3-215D 3-3D	3 3/4	13 3/4	10	11 1/2	3 3/8	1 5/8	1	1 3/16	7 1/2	3 7/8	1 15/16	7/8	33.0	
3 7/16 3 1/2	MSPD-55 MSPD-56	3-37D 2-38D	4 9/16	15 3/8	12 1/8	13 1/2	4	1 9/16	1	1 1/4	8 13/16	4 7/16	2 7/32	7/8	51.0	
3 15/16 4	MSPD-63 MSPD-64	3-315D 3-4D	5 1/8	17	13 1/8	14 3/4	4 3/4	1 13/16	1 1/8	1 1/4	10 1/8	5 3/8	2 11/16	1	74.5	
4 7/16 4 15/16	MSPD-71 MSPD-79	3-47D¹ 3-415D¹	6 1/4	21 1/4	15 1/16	18 3/16	6 1/4	2 11/16	1 1/4	1 3/4	12 1/2	5 3/4	2 7/8	1 1/8	159.0	

¹ Units MSPD-71 and MSPD-79 are not available with contact seal.

For Load Ratings, see page 62.

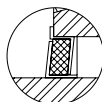
For Medium Duty Bearing Inserts-Double Lock, see page 61.



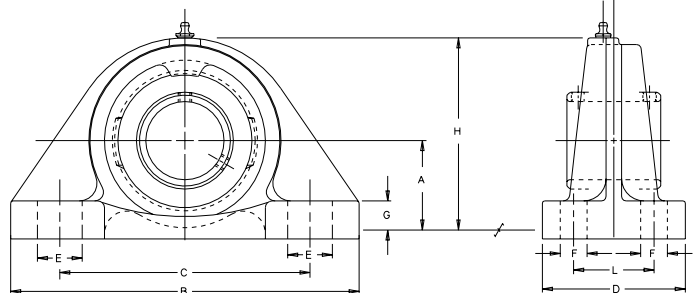
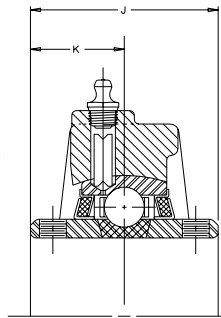
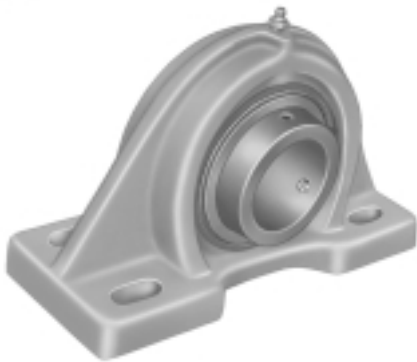
Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail.
To specify, add suffix "C" (MSPD-32C).



Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range.
(See seal options on page 188).



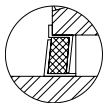
MSFPD Series Medium Duty Four-Bolt Base Pillow Blocks...Setscrew Locking

SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions In Inches												BOLT SIZE IN.	UNIT WT.
			A	B	C		D	E	F	G	H	J	K	L		
					MIN.	MAX.										
1 15/16 2	MSFPD-31 MSFPD-32	3-115D 2-2D	2 3/4	9 3/4	6 3/8	7 5/8	4	1 1/4	3/4	1 1/16	5 5/8	2 5/8	1 5/16	2 1/4	5/8	15.4
2 3/16 2 1/4	MSFPD-35 MSFPD-36	3-23D 2-24D	3 1/8	10 1/4	6 7/8	8 1/8	4 1/8	1 1/4	3/4	1 1/4	6 3/16	3 1/8	1 9/16	2 1/4	5/8	20.1
2 7/16 2 1/2	MSFPD-39 MSFPD-40	3-27D 3-28D	3 1/8	11 1/4	7 1/2	9	4 1/2	1 3/8	3/4	1 1/8	6 5/8	3 1/2	1 3/4	2 5/8	5/8	25.4
2 11/16	MSFPD-43	3-211D	3 3/4	13	9	10 1/2	5	1 1/2	7/8	1 3/8	7 1/2	3 1/2	1 3/4	2 3/4	3/4	37.3
2 15/16 3	MSFPD-47 MSFPD-48	3-215D 3-3D	3 3/4	13	9	10 1/2	5	1 1/2	7/8	1 1/4	7 5/8	3 7/8	1 15/16	2 3/4	3/4	40.1
3 3/16 3 1/4	MSFPD-51 MSFPD-52	3-33D 2-34D	4 1/8	15	10 3/4	12 1/4	5	1 1/2	7/8	1 3/16	8 9/16	4 1/16	2 1/32	3	3/4	51.2
3 7/16 3 1/2	MSFPD-55 MSFPD-56	3-37D 2-38D	4 9/16	15	10 3/4	12 1/4	5	1 1/2	7/8	1 1/4	9	4 7/16	2 7/32	3	3/4	51.8
3 15/16 4	MSFPD-63 MSFPD-64	3-315D 3-4D	5 1/8	17	12 7/16	14 1/16	6	1 11/16	1	1 3/8	10 3/8	5 3/8	2 11/16	3 1/2	7/8	84.6
4 7/16 4 15/16	MSFPD-71 MSFPD-79	3-47D ¹ 3-415D ¹	6 1/4	19	14	16	5 1/2	2	1 1/8	1 7/8	12 3/8	5 3/4	2 7/8	3 1/4	1	136.0

For Load Ratings, see page 62.

For Medium Duty Bearing Inserts-Double Lock, see page 61.

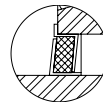
¹ Units MSFPD-71 and MSFPD-79 are not available with contact seal.



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail. To specify, add suffix "C" (MSFPD-32C).

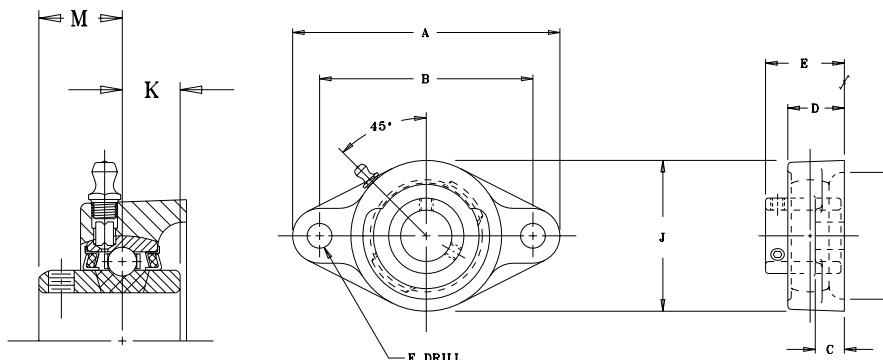


Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range. (See seal options on page 188).



MOUNTED BALL BEARINGS

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MSFT Series Medium Duty Two-Bolt Flange Units...Setscrew Locking

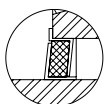
SHAFT DIAM. IN MM	PART NO.	BRG. NO.	Dimensions in Inches										UNIT WT.
			A	B	C	D	E	F	H CORED	J	K	M	
15/16 1 25	MSFT-15 MSFT-16 MSFT-305	3-015 3-1 5305	5 9/16	4 19/32	17/32	1 11/64	1 9/16	15/32	2 7/8	3 1/4	5/8	7/8	2.4
1 3/16 1 1/4 30	MSFT-19 MSFT-20 MSFT-306	3-13 2-14 5306	6 1/8	5 1/8	9/16	1 11/32	1 3/4	17/32	3 5/16	3 3/4	11/16	1	3.4
1 7/16 35	MSFT-23 MSFT-307	3-17 5307	6 3/4	5 21/32	9/16	1 1/2	2 1/64	17/32	3 1/2	4 1/8	3/4	1 3/16	4.6
1 1/2 40	MSFT-24 MSFT-308	3-18 5308	7 1/16	5 27/32	9/16	1 9/16	2 3/64	19/32	3 7/8	4 3/8	3/4	1 3/16	5.2
1 11/16 1 3/4 45	MSFT-27 MSFT-28 MSFT-309	3-111 3-112 5309	7 7/16	6 3/16	9/16	1 9/16	2 5/32	19/32	4	4 9/16	3/4	1 9/32	5.6
15/16 2 50	MSFT-31 MSFT-32 MSFT-310	3-115 2-2 5310	8 1/2	7 1/4	13/16	1 3/4	2 5/16	21/32	4 1/4	5 1/4	7/8	1 5/16	8.6

For Load Ratings, see page 62.

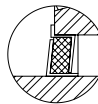
For Medium Duty Bearing Inserts-Single Lock, see page 60.



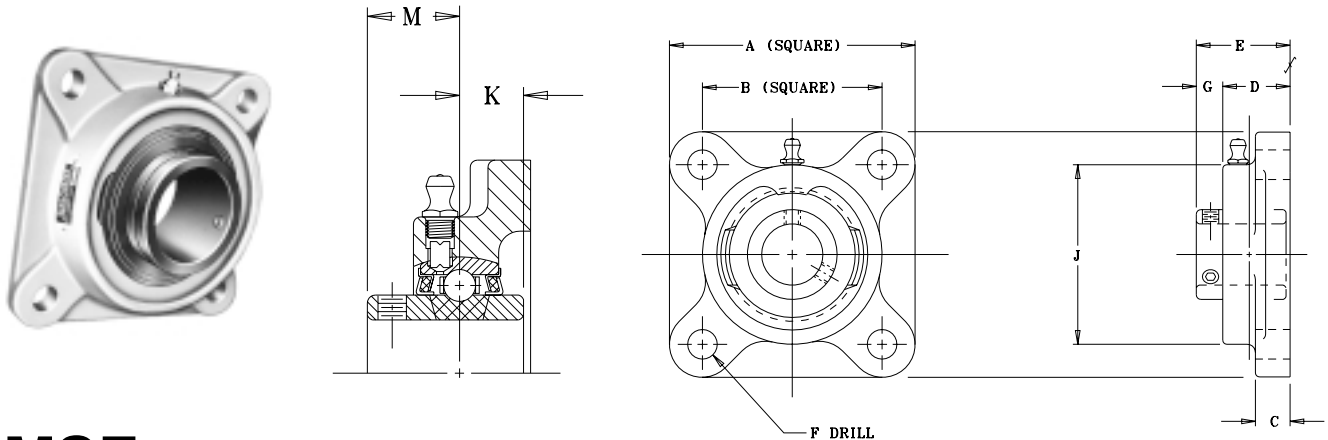
Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail. To specify, add suffix "C" (MSFT-32C).



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range. (See seal options on page 188).



MSF Series Medium Duty Four-Bolt Flange Units...Setscrew Locking

SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions in Inches										UNIT Wt.
			A	B	C	D	E	F	G	J	K	M	
15/16 1 25	MSF-15 MSF-16 MSF-305	3-015 3-1 5305	4 1/4	3 1/4	17/32	1 11/64	1 9/16	15/32	25/64	3 7/32	5/8	7/8	3.6
1 3/16 1 1/4 30	MSF-19 MSF-20 MSF-306	3-13 2-14 5306	4 5/8	3 5/8	9/16	1 11/32	1 3/4	17/32	13/32	3 23/32	11/16	1	4.1
1 7/16 35	MSF-23 MSF-307	3-17 5307	5 1/8	4	9/16	1 1/2	2 1/64	17/32	33/64	4 5/64	3/4	1 3/16	5.5
1 1/2 40	MSF-24 MSF-308	3-18 5308	5 3/8	4 1/8	9/16	1 9/16	2 3/64	19/32	31/64	4 21/64	3/4	1 3/16	6.0
1 11/16 1 3/4 45	MSF-27 MSF-28 MSF-309	3-111 3-112 5309	5 5/8	4 3/8	9/16	1 9/16	2 5/32	19/32	19/32	4 9/16	3/4	1-9/32	6.8
1 15/16 2 50	MSF-31 MSF-32 MSF-310	3-115 2-2 5310	6 3/8	5 1/8	13/16	1 3/4	2 5/16	21/32	9/16	5 1/4	7/8	1 5/16	10.5
2 3/16 2 1/4 55	MSF-35 MSF-36 MSF-311	3-23 2-24 5311	6 7/8	5 5/8	13/16	1 15/16	2 11/16	21/32	3/4	5 7/16	1	1 9/16	12.1
2 7/16 2 1/2 65	MSF-39 MSF-40 MSF-313	3-27 3-28 5313	7 3/8	5 7/8	11/16	2 5/16	3	21/32	11/16	6 1/8	1 1/16	1 11/16	16.4
2 11/16 70	MSF-43 MSF-314	3-211 5314	7 3/4	6	1	2 3/8	3 3/16	25/32	13/16	6 1/2	1 5/16	1 3/4	20.6
2 15/16 3 75	MSF-47 MSF-48 MSF-315	3-215 3-3 5315	7 3/4	6	7/8	2 11/16	3 1/2	25/32	13/16	6 3/4	1 5/16	1 15/16	21.4
3 3/16 3 1/4 80	MSF-51 MSF-52 MSF-316	3-33 2-34 5316	8 7/16	6 3/4	1	2 3/4	3 17/32	25/32	25/32	7 1/4	1 11/32	2 1/32	26.7
3 7/16 3 1/2	MSF-55 MSF-56	3-37 2-38	8 7/16	6 3/4	1	3	3 31/32	25/32	31/32	7 3/4	1 9/16	2 7/32	30.0
3 15/16 4 100	MSF-63 MSF-64 MSF-320	3-315 3-4 5320	10 9/16	8 5/16	1 1/4	3 13/16	5	1 1/32	1 3/16	9 1/4	1 15/16	2 11/16	55.1
4 7/16 4 15/16	MSFD-71' MSFD-79'	3-47D 3-415D	12 3/4	10	1 9/16	4 3/4	6	1 9/32	1 1/4	11 1/2	2 7/8	2 7/8	115.0

¹ Units MSFD-71 and MSFD-79 are equipped with four set screws: two on each end of inner race extensions.

¹ Units MSFD-71 and MSFD-79 are not available with contact seal.

For Load Ratings, see page 62.

For Medium Duty Bearing Inserts-Single Lock, see page 60.

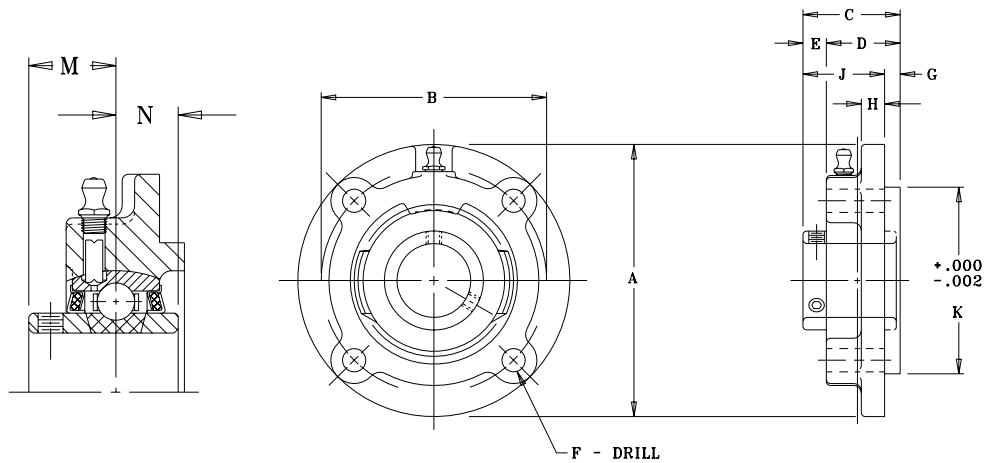
For Medium Duty Bearing Inserts-Double Lock, see page 61.

See page 54 for seal arrangements.



MOUNTED BALL BEARINGS

SEALMASTER®



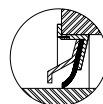
MFC Series Medium Duty Flange Cartridge Units...Setscrew Locking

SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions In Inches												UNIT WT.
			A	B	C	D	E	F	G	H	J	K	M	N	
15/16 1	MFC-15 MFC-16 MFC-305	3-015 3-1 5305	4 3/8	3 5/8	1 9/16	1 3/16	3/8	3/8	1/4	3/8	1 5/16	3.000	7/8	5/8	3.0
1 3/16 1 1/4 25	MFC-19 MFC-20 MFC-306	3-13 2-14 5306	5	4 1/8	1 11/16	1 1/4	7/16	7/16	3/8	3/8	1 5/16	3.375	1	11/16	3.9
1 7/16 1 1/2 35	MFC-23 MFC-24 MFC-307	3-17 2-18 5307	5 1/4	4 3/8	1 15/16	1 15/32	15/32	7/16	7/16	7/16	1 1/2	3.625	1 3/16	3/4	4.7
1 1/2 40	MFC-24H MFC-308	3-18 5308	6 1/8	5 1/8	1 15/16	1 7/16	1/2	1/2	7/16	7/16	1 1/2	4.250	1 3/16	3/4	6.0
1 11/16 1 3/4 45	MFC-27 MFC-28 MFC-309	3-111 3-112 5309	6 1/8	5 1/8	2 1/32	1 15/32	9/16	1/2	15/32	7/16	1 9/16	4.250	1 9/32	3/4	6.5
1 15/16 2 50	MFC-31 MFC-32 MFC-310	3-115 2-2 5310	6 3/8	5 3/8	2 3/16	1 5/8	9/16	1/2	5/8	7/16	1 9/16	4.500	1 5/16	7/8	7.5
2 3/16 2 1/4 55	MFC-35 MFC-36 MFC-311	3-23 2-24 5311	7 1/8	6	2 9/16	1 7/8	11/16	9/16	7/8	1/2	1 11/16	5.000	1 9/16	1	10.5
2 7/16 2 1/2 65	MFC-39 MFC-40 MFC-313	3-27 3-28 5313	7 5/8	6 1/2	2 7/8	2 3/16	11/16	9/16	1 1/8	9/16	1 3/4	5.500	1 11/16	1 1/16	14.0
2 11/16 70	MFC-43 MFC-314	3-211 5314	8 3/4	7 1/2	3 1/16	2 5/16	3/4	11/16	1 1/16	9/16	2	6.375	1 3/4	1 5/16	18.7
2 15/16 3 75	MFC-47 MFC-48 MFC-315	3-215 3-3 5315	8 3/4	7 1/2	3 1/4	2 7/16	13/16	11/16	1 1/4	5/8	2	6.375	1 15/16	1 5/16	20.0
3 7/16 3 1/2	MFC-55 MFC-56	3-37 2-38	10 1/4	8 5/8	3 25/32	2 3/4	1 1/32	13/16	1 1/8	3/4	2 21/32	7.375	2-7/32	1 9/16	32.0
3 15/16 4 100	MFC-63 MFC-64 MFC-320	3-315 3-4 5320	10 7/8	9 3/8	4 5/8	3 1/4	1 3/8	13/16	1 1/8	7/8	3 1/2	*8.125	2 11/16	1 15/16	44.0

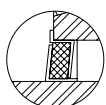
For Load Ratings, see page 62.

For Medium Duty Bearing Inserts-Single Lock, see page 60.

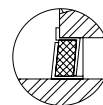
* +.000" -.004"



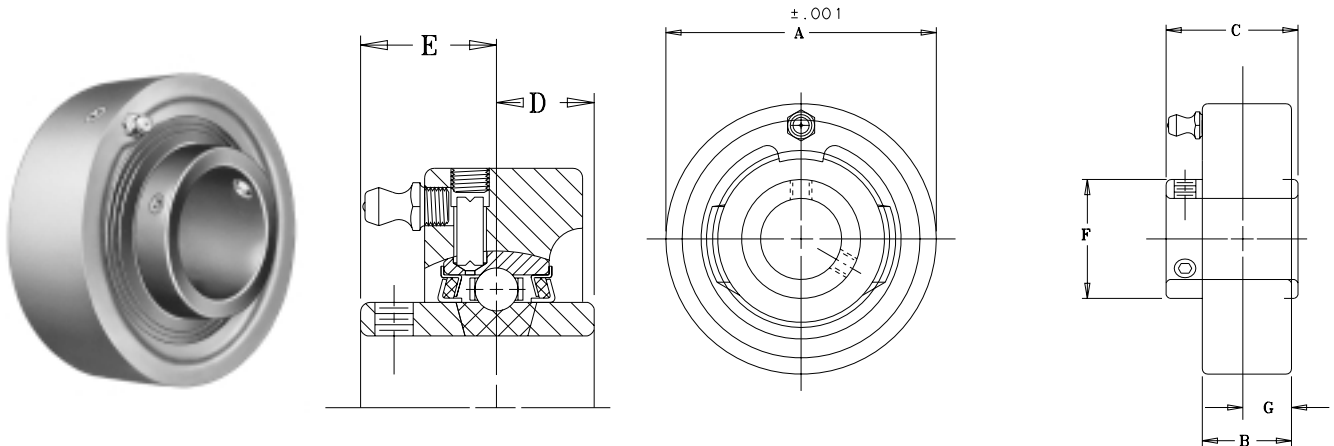
Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail. To specify, add suffix "C" (MFC-32C).



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range. (See seal options on page 188).



MSC Series Medium Duty Cartridge Units...Setscrew Locking

SHAFT DIAM.		PART NO.	BRG. NO.	Dimensions In Inches						UNIT WT.	
				A	B	C	D	E	F		G
15/16 1	25	MSC-15 MSC-16 MSC-305	3-015 3-1 5305	3 1/2	1 3/32	1 1/2	5/8	7/8	1 19/32	9/16	2.5
1 3/16 1 1/4	30	MSC-19 MSC-20 MSC-306	3-13 2-14 5306	3 7/8	1 7/32	1 11/16	11/16	1	1 55/64	5/8	3.2
1 7/16	35	MSC-23 MSC-307	3-17 5307	4 3/16	1 15/32	1 15/16	3/4	1 3/16	2 1/16	3/4	4.1
1 1/2	40	MSC-24 MSC-308	3-18 5308	4 3/8	1 7/16	1 15/16	3/4	1 3/16	2 19/64	23/32	4.5
1 11/16 1 3/4	45	MSC-27 MSC-28 MSC-309	3-111 3-112 5309	4 9/16	1 15/32	2 1/32	3/4	1-9/32	2 15/32	3/4	4.9
1 15/16 2	50	MSC-31 MSC-32 MSC-310	3-115 2-2 5310	4 15/16	1 19/32	2 3/16	7/8	1 5/16	2 23/32	27/32	5.8
2 3/16 2 1/4	55	MSC-35 MSC-36 MSC-311	3-23 2-24 5311	5 7/8	1 5/8	2 9/16	1	1 9/16	2 63/64	13/16	9.5
2 7/16 2 1/2	65	MSC-39 MSC-40 MSC-313	3-27 3-28 5313	6 1/4	2	2 3/4	1 1/16	1 11/16	3 7/16	1	12.6
2 11/16	70	MSC-43 MSC-314	3-211 5314	6 5/8	2	3 1/16	1 5/16	1 3/4	3 41/64	1	14.1
2 15/16 3	75	MSC-47 MSC-48 MSC-315	3-215 3-3 5315	7	2 3/16	3 1/4	1 5/16	1 15/16	3 59/64	1 3/32	16.6
3 3/16 3 1/4	80	MSC-51 MSC-52 MSC-316	3-33 2-34 5316	7 7/16	2 1/2	3 3/8	1 11/32	2 1/32	4 5/32	1 1/4	20.2
3 7/16 3 1/2		MSC-55 MSC-56	3-37 2-38	8 3/16	2 1/2	3 25/32	1 9/16	2 7/32	4 25/64	1 1/4	25.8
3 15/16 4	100	MSC-63 MSC-64 MSC-320	3-315 3-4 5320	9 1/2	3	4 5/8	1 15/16	2 11/16	5 11/64	1 1/2	42.0

For Load Ratings, see page 62.

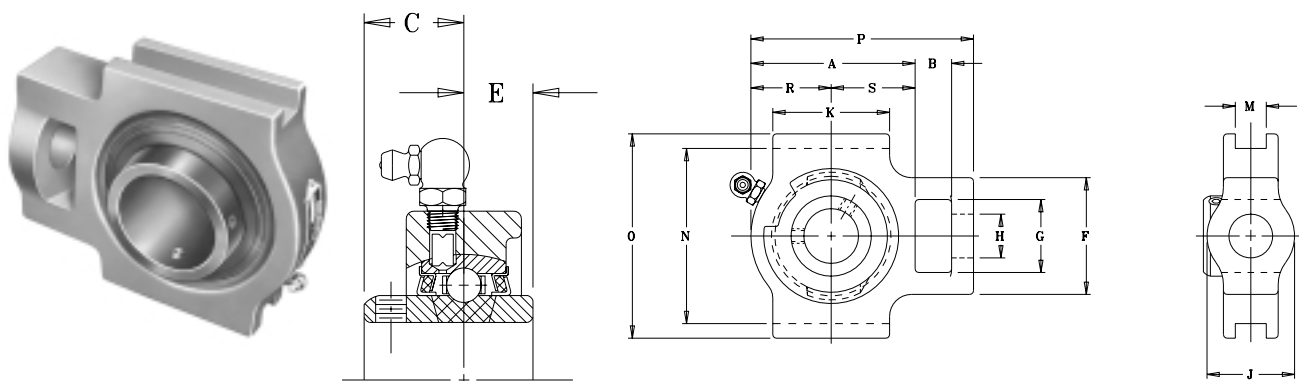
For Medium Duty Bearing Inserts-Single Lock, see page 60.

See page 56 for seal arrangements.



MOUNTED BALL BEARINGS

SEALMASTER®



MST Series Medium Duty Take-Up Units...Setscrew Locking

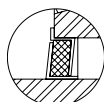
SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions In Inches															UNIT WT.
			A	B	C	E	F	G	H Core	J Hub	K	M	N	O	P	R	S	
15/16 1	MST-15 MST-16 MST-305	3-015 3-1 5305	3 7/16	5/8	7/8	5/8	2 3/16	1 7/16	7/8	1 3/4	2 1/4	17/32	3 1/2	4	4 7/16	1 11/16	1 3/4	3.4
1 3/16 1 1/4 25	MST-19 MST-20 MST-306	3-13 2-14 5306	3 15/16	5/8	1	11/16	2 1/2	1 7/16	7/8	1 3/4	2 1/2	17/32	3 1/2	4	5 1/16	2	1 15/16	4.0
1 7/16 35	MST-23 MST-307	3-17 5307	4 5/16	3/4	1 3/16	3/4	3 1/4	1 15/16	1 1/8	2 1/8	3 1/4	11/16	4	4 1/2	5 11/16	2 3/16	2 1/8	6.2
1 1/2 40	MST-24 MST-308	3-18 5308	4 5/16	3/4	1 3/16	3/4	3 1/4	1 15/16	1 1/8	2 3/16	3 1/4	11/16	4	4 5/8	5 11/16	2 1/4	2 1/16	6.2
1 11/16 1 3/4 45	MST-27 MST-28 MST-309	3-111 3-112 5309	4 1/2	3/4	1 9/32	3/4	3 1/4	1 15/16	1 1/8	2 3/16	3 3/8	11/16	4	4 5/8	5 7/8	2 5/16	2 3/16	6.4
1 15/16 2 50	MST-31 MST-32 MST-310	3-115 2-2 5310	5	1	1 5/16	7/8	4	2 1/2	1 3/8	2 1/4	3 3/4	1 1/16	5 1/8	5 3/4	6 3/4	2 9/16	2 7/16	10.0
2 3/16 2 1/4 55	MST-35 MST-36 MST-311	3-23 2-24 5311	5 3/8	1 1/4	1 9/16	1	4	2 1/2	1 3/8	2 3/8	4	1 1/16	5 1/8	5 3/4	7 5/8	2 15/16	2 11/16	12.3
2 7/16 2 1/2 65	MST-39 MST-40 MST-313	3-27 3-28 5313	6 3/4	1 1/4	1 11/16	1 1/16	4 3/8	2 3/4	1 5/8	3 3/8	4 3/4	1 1/16	5 15/16	6 9/16	8 13/16	3 7/16	3 5/16	19.5
2 11/16 70	MST-43 MST-314	3-211 5314	7 1/16	1 1/4	1 3/4	1 5/16	4 3/8	2 3/4	1 5/8	3 3/8	4 3/4	1 1/16	5 15/16	6 9/16	9 1/8	3 5/8	3 7/16	19.8
2 15/16 3 75	MST-47 MST-48 MST-315	3-215 3-3 5315	7 3/16	1 1/4	1 15/16	1 5/16	4 3/8	2 3/4	1 5/8	3 3/8	4 3/4	1 1/16	6 1/2	7 1/4	9 1/4	3 3/4	3 7/16	23.0
3 3/16 3 1/4 80	MST-51 MST-52 MST-316	3-33 2-34 5316	7 5/8	1 1/2	2 1/32	1 11/32	4 7/8	2 7/8	1 7/8	3 1/2	6 3/16	1 13/16	6 13/16	7 13/16	10 1/4	3 7/8	3 3/4	31.8
3 15/16 4 100	MST-63 MST-64 MST-320	3-315 3-4 5320	9 1/4	1 1/2	2 11/16	1 15/16	4 7/8	2 7/8	1 7/8	3 1/2	6 1/2	1 13/16	8 3/8	9 3/8	11 7/8	4 3/4	4 1/2	50.0

For Load Ratings, see page 62.

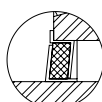
For Medium Duty Bearing Inserts-Single Lock, see page 60.



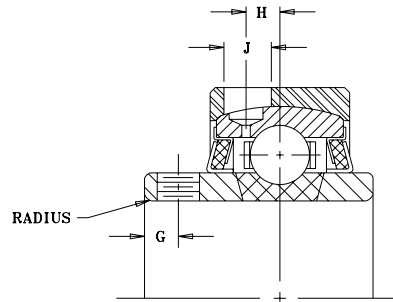
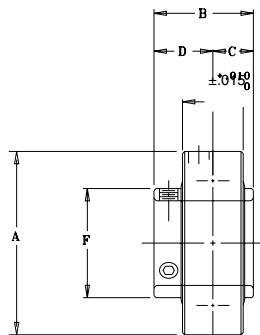
Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail. To specify, add suffix "C" (MST-32C).



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range. (See seal options on page 188).

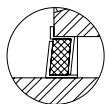


AR Series Medium Duty Expansion Units...Setscrew Locking

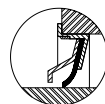
SHAFT DIAM.	BRG. NO.	Dimensions in Inches										SET SCREW TAP	UNIT WT.
		*A	B	C	D	E	F	G	H	J	RADIUS		
15/16 1	AR-3-015 AR-3-1 AR-305	2.687	1 1/2	5/8	7/8	61/64	1 19/32	7/32	7/32	1/4	.040	1/4-28	1.5
1 3/16 30	AR-3-13 AR-306	3.140	1 11/16	11/16	1	1 1/64	1 55/64	1/4	1/4	1/4	.040	5/16-24	2.1
1 7/16 35	AR-3-17 AR-307	3.375	1 15/16	3/4	1 3/16	1 11/64	2 1/16	5/16	19/64	1/4	.062	5/16-24	2.8
1 1/2 40	AR-3-18 AR-308	3.562	1 15/16	3/4	1 3/16	1 11/64	2 19/64	5/16	19/64	1/4	.062	5/16-24	3.0
1 11/16 1 3/4 45	AR-3-111 AR-3-112 AR-309	3.875	2 1/32	3/4	1 9/32	1 13/64	2 15/32	3/8	17/64	11/32	.062	3/8-24	3.5
1 15/16 50	AR-3-115 AR-310	4.250	2 3/16	7/8	1 5/16	1 17/64	2 23/32	3/8	19/64	11/32	.080	3/8-24	4.4
2 3/16 55	AR-3-23 AR-311	4.718	2 9/16	1	1 9/16	1 21/64	2 63/64	7/16	21/64	11/32	.080	3/8-24	5.8
2 7/16 2 1/2 65	AR-3-27 AR-3-28 AR-313	5.170	2 3/4	1 1/16	1 3/4	1 29/64	3 7/16	15/32	3/8	11/32	.080	7/16-20	9.3
2 11/16 70	AR-3-211 AR-314	5.375	3 1/16	1 5/16	1 3/4	1 37/64	3 41/64	7/16	3/8	11/32	.080	7/16-20	9.6
2 15/16 3 75	AR-3-215 AR-3-3 AR-315	5.875	3 1/4	1 5/16	1 15/16	1 53/64	3 59/64	17/32	13/32	15/32	.120	7/16-20	12.2
3 3/16 80	AR-3-33 AR-316	6.280	3 3/8	1 11/32	2 1/32	2 5/64	4 5/32	15/32	17/32	15/32	.120	7/16-20	15.2
3 7/16	AR-3-37	6.750	3 25/32	1 9/16	2 7/32	2 9/64	4 25/64	5/8	15/32	15/32	.120	1/2-20	18.5
3 15/16 4 100	AR-3-315 AR-3-4 AR-320	8.063	4 5/8	1 15/16	2 11/16	2 33/64	5 11/64	3/4	19/32	15/32	.120	5/8-18	32.9

For Load Ratings, see page 62.

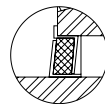
* Tolerance +.000" -.005"



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail. To specify, add suffix "C" (AR-3-23C).

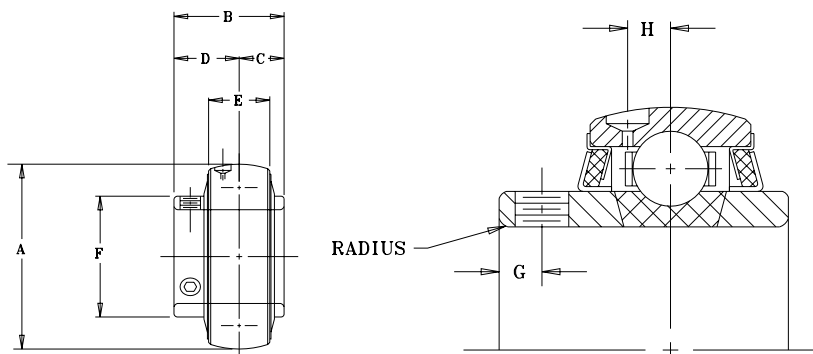


Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range. (See seal options on page 188).



MOUNTED BALL BEARINGS

SEALMASTER®

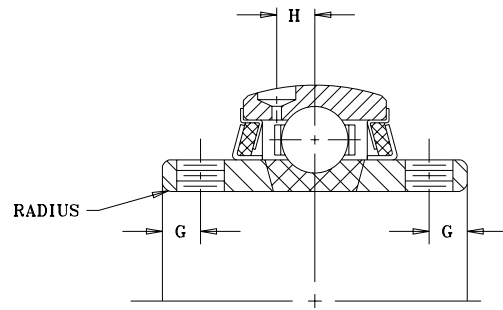
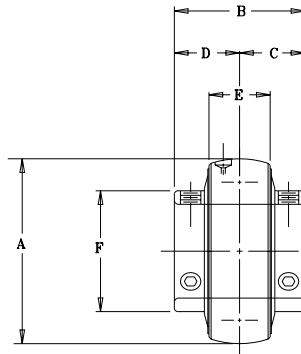


Medium Duty Bearing Inserts...Setscrew Locking – Single Lock

SHAFT DIAM.	BRG. NO.	Dimensions in Inches									SET SCREW TAP	UNIT WT.
		A	B	C	D	E	F	G	H	RADIUS		
15/16 1	3-015 3-1 5305	62MM 2.4409	1 1/2	5/8	7/8	7/8	1 19/32	7/32	7/32	.040	1/4-28	1.0
1 3/16 30	3-13 5306	72MM 2.8346	1 11/16	11/16	1	15/16	1 55/64	1/4	1/4	.040	5/16-24	1.5
1 7/16 35	3-17 5307	80MM 3.1496	1 15/16	3/4	1 3/16	1 3/32	2 1/16	5/16	19/64	.062	5/16-24	1.9
1 1/2 40	3-18 5308	85MM 3.3465	1 15/16	3/4	1 3/16	1 3/32	2 19/64	5/16	19/64	.062	5/16-24	2.2
1 11/16 1 3/4 45	3-111 3-112 5309	90MM 3.5433	2 1/32	3/4	1 9/32	1 1/8	2 15/32	3/8	17/64	.062	3/8-24	2.4
1 15/16 50	3-115 5310	100MM 3.9370	2 3/16	7/8	1 5/16	1 3/16	2 23/32	3/8	19/64	.080	3/8-24	3.2
2 3/16 55	3-23 5311	110MM 4.3307	2 9/16	1	1 9/16	1 1/4	2 63/64	7/16	21/64	.080	3/8-24	4.2
2 7/16 2 1/2 65	3-27 3-28 5313	125MM 4.9213	2 3/4	1 1/16	1 11/16	1 3/8	3 7/16	7/16	3/8	.080	7/16-20	6.5
2 11/16 70	3-211 5314	130MM 5.1181	3 1/16	1 5/16	1 3/4	1 1/2	3 41/64	7/16	3/8	.080	7/16-20	7.1
2 15/16 3 75	3-215 3-3 5315	140MM 5.5118	3 1/4	1 5/16	1 15/16	1 11/16	3 59/64	17/32	13/32	.120	7/16-20	8.2
3 3/16 80	3-33 5316	150MM 5.9055	3 3/8	1 11/32	2 1/32	1 15/16	4 5/32	15/32	17/32	.120	7/16-20	10.0
3 7/16	3-37	160MM 6.2992	3 25/32	1 9/16	2 7/32	2	4 25/64	5/8	15/32	.120	1/2-20	11.7
3 15/16 4 100	3-315 3-4 5320	190MM 7.4803	4 5/8	1 15/16	2 11/16	2 1/2	5 11/64	3/4	19/32	.120	5/8-18	20.4

See page 59 for seal arrangements.

For Load Ratings, see page 62.



Medium Duty Bearing Inserts...Setscrew Locking – Double Lock

SHAFT DIAM.		BRG. NO.	Dimensions in Inches								SET SCREW TAP	UNIT WT.	
			A	B	C	D	E	F	G	H			RADIUS
15/16 1		3-015D 3-1D	62MM 2.4409	1 3/4	7/8	7/8	7/8	1 19/32	7/32	7/32	.040	1/4-28	1.0
1 3/16		3-13D	72MM 2.8346	2	1	1	15/16	1 55/64	1/4	1/4	.040	5/16-24	1.5
1 7/16		3-17D	80MM 3.1496	2 5/16	1 5/32	1 5/32	1 3/32	2 1/16	5/16	19/64	.062	5/16-24	2.0
1 1/2		3-18D	85MM 3.3465	2 3/8	1 3/16	1 3/16	1 3/32	2 19/64	11/32	19/64	.062	5/16-24	2.5
1 11/16 1 3/4		3-111D 3-112D	90MM 3.5433	2 1/2	1 1/4	1 1/4	1 1/8	2 15/32	11/32	17/64	.062	3/8-24	2.7
1 15/16		3-115D	100MM 3.9370	2 5/8	1 5/16	1 5/16	1 3/16	2 23/32	5/16	19/64	.080	3/8-24	3.5
2 3/16		3-23D	110MM 4.3307	3 1/8	1 9/16	1 9/16	1 1/4	2 63/64	13/32	21/64	.080	7/16-20	4.6
2 7/16 2 1/2		3-27D 3-28D	125MM 4.9213	3 1/2	1 3/4	1 3/4	1 3/8	3 7/16	15/32	3/8	.080	7/16-20	7.1
2 11/16		3-211D	130MM 5.1181	3 1/2	1 3/4	1 3/4	1 1/2	3 41/64	7/16	3/8	.080	1/2-20	7.3
2 15/16 3		3-215D 3-3D	140MM 5.5118	3 7/8	1 15/16	1 15/16	1 11/16	3 59/64	9/16	13/32	.120	1/2-20	9.0
3 3/16		3-33D	150MM 5.9055	4 1/16	2 1/32	2 1/32	1 15/16	4 5/32	1/2	17/32	.120	1/2-20	10.8
3 7/16		3-37D	160MM 6.2992	4 7/16	2 7/32	2 7/32	2	4 25/64	1/2	15/32	.120	1/2-20	12.6
3 15/16 4		3-315D 3-4D	190MM 7.4803	5 3/8	2 11/16	2 11/16	2 1/2	5 11/64	23/32	19/32	.120	5/8-18	21.6
4 7/16 4 15/16		3-47D 3-415D	230MM 9.0551	5 3/4	2 7/8	2 7/8	2 5/8	6 11/32	5/8	11/16	.120	5/8-18	40.0

See page 59 for seal arrangements.
For Load Ratings, see page 62.

LOAD RATING TABLES - Medium Duty

The shaded area indicates the maximum speed ratings for double lock bearings (applicable on sizes available). All speeds listed are for the standard felt seal. See the seal selection for alternate seals.

Values in the table represent loads at ideal conditions with press fit mounting to the shaft. ABMA recommends de-rating of slip mounted bearings. To obtain de-rated load, divide load in table by 1.3. Values in the table represent equivalent radial loads only. For combined load determination, see **THE BEARING SELECTION SECTION**. Areas designated by "-" exceeds maximum value for standard bearings. Consult **SEALMASTER Application Engineering** for load and speed applications not covered in this table.

MEDIUM DUTY		REVOLUTIONS PER MINUTE																
SHAFT SIZE	INSERT #	L10 HOURS	50	150	500	1000	1750	2000	2500	3500	4500	5000	5500	6000	6500	7500	8000	10000
15/16 1 25MM	3-015 3-1 5305	5000	1039	1039	825	654	543	519	482	431	396	383	370	360	351	334	334	-
		10000	978	978	654	519	431	412	383	342	315	304	294	286	278	265	265	-
		30000	978	678	454	360	299	286	265	237	218	211	204	198	193	184	184	-
		50000	825	572	383	304	252	241	224	200	184	178	172	167	163	155	155	-
		100000	654	454	304	241	200	191	178	159	146	141	136	133	129	123	123	-
30MM 1 3/16	5306 3-13	5000	1290	1290	1088	864	717	686	636	569	523	505	489	475	463	-	-	-
		10000	1290	1290	864	686	569	544	505	452	415	401	388	377	367	-	-	-
		30000	1290	895	599	475	394	377	350	313	288	278	269	262	255	-	-	-
		50000	1088	755	505	401	333	318	295	264	243	234	227	221	215	-	-	-
		100000	864	599	401	318	264	253	234	210	193	186	180	175	171	-	-	-
1 7/16 35MM	3-17 5307	5000	1638	1638	1381	1096	910	870	808	722	664	641	621	603	-	-	-	-
		10000	1638	1638	1096	870	722	691	641	573	527	509	493	479	-	-	-	-
		30000	1638	1136	760	603	501	479	445	397	365	353	342	332	-	-	-	-
		50000	1381	958	641	509	422	404	375	335	308	298	288	280	-	-	-	-
		100000	1096	760	509	404	335	321	298	266	245	236	229	222	-	-	-	-
1 1/2 45MM	3-18 5308	5000	1763	1763	1487	1180	979	937	870	777	715	690	669	-	-	-	-	-
		10000	1763	1763	1180	937	777	744	690	617	567	548	531	-	-	-	-	-
		30000	1763	1222	818	650	539	516	479	428	393	380	368	-	-	-	-	-
		50000	1487	1031	690	548	455	435	404	361	332	320	310	-	-	-	-	-
		100000	1180	818	548	435	361	345	320	286	263	254	246	-	-	-	-	-
1 11/16 1 3/4 45MM	3-111 3-112 5309	5000	1760	1760	1485	1178	978	935	868	776	714	689	-	-	-	-	-	-
		10000	1760	1760	1178	935	776	742	689	616	567	547	-	-	-	-	-	-
		30000	1760	1221	817	649	538	515	478	427	393	379	-	-	-	-	-	-
		50000	1485	1029	689	547	454	434	403	360	331	320	-	-	-	-	-	-
		100000	1178	817	547	434	360	345	320	286	263	254	-	-	-	-	-	-
1 15/16 50MM	3-115 5310	5000	2176	2176	1835	1457	1209	1156	1073	1010	959	-	-	-	-	-	-	-
		10000	2176	2176	1457	1156	959	918	852	802	762	-	-	-	-	-	-	-
		30000	2176	1509	1010	802	665	636	591	556	528	-	-	-	-	-	-	-
		50000	1835	1273	852	676	561	537	498	469	445	-	-	-	-	-	-	-
		100000	1457	1010	676	537	445	426	395	372	353	-	-	-	-	-	-	-
MEDIUM DUTY		REVOLUTIONS PER MINUTE																
SHAFT SIZE	INSERT #	L10 HOURS	50	150	250	500	750	1000	1250	1500	1750	2000	2500	3000	3500	4000	4500	-
55MM 2 3/16	5311 3-23	5000	2631	2631	2631	2219	1938	1761	1635	1538	1461	1398	1298	1221	1160	1109	-	-
		10000	2631	2631	2219	1761	1538	1398	1298	1221	1160	1109	1030	969	921	881	-	-
		30000	2631	1824	1538	1221	1067	969	900	847	804	769	714	672	638	611	-	-
		50000	2219	1538	1298	1030	900	817	759	714	678	649	602	567	538	515	-	-
		100000	1761	1221	1030	817	714	649	602	567	538	515	478	450	427	409	-	-
2 7/16 2 1/2 65MM	3-27 3-28 5313	5000	3118	3118	3118	2629	2297	2087	1937	1823	1732	1656	1538	1447	1375	-	-	-
		10000	3118	3118	2629	2087	1823	1656	1538	1447	1375	1315	1220	1149	1091	-	-	-
		30000	3118	2162	1823	1447	1264	1149	1066	1003	953	912	846	796	756	-	-	-
		50000	2629	1823	1538	1220	1066	969	899	846	804	769	714	672	638	-	-	-
		100000	2087	1447	1220	969	846	769	714	672	638	610	567	533	506	-	-	-
2 11/16 70MM	3-211 5314	5000	3311	3311	3311	2793	2440	2217	2058	1936	1839	1759	1633	1537	1460	-	-	-
		10000	3311	3311	2793	2217	1936	1759	1633	1537	1460	1396	1296	1220	1159	-	-	-
		30000	3311	2296	1936	1537	1343	1220	1132	1066	1012	968	899	846	803	-	-	-
		50000	2793	1936	1633	1296	1132	1029	955	899	854	817	758	713	678	-	-	-
		100000	2217	1537	1296	1029	899	817	758	713	678	648	602	566	538	-	-	-
2 15/16 75MM 3	3-215 5315 3-3	5000	3885	3885	3885	3277	2863	2601	2415	2272	2158	2064	1916	1803	-	-	-	-
		10000	3885	3885	3277	2601	2272	2064	1916	1803	1713	1639	1521	1431	-	-	-	-
		30000	3885	2694	2272	1803	1575	1431	1329	1250	1188	1136	1055	992	-	-	-	-
		50000	3277	2272	1916	1521	1329	1207	1121	1055	1002	985	890	837	-	-	-	-
		100000	2601	1803	1521	1207	1055	958	890	837	795	761	706	664	-	-	-	-
80MM 3 3/16	5316 3-33	5000	3975	3975	3975	3516	3071	2791	2591	2438	2316	2215	2056	1935	-	-	-	-
		10000	3975	3975	3516	2791	2438	2215	2056	1935	1838	1758	1632	1536	-	-	-	-
		30000	3975	2890	2438	1935	1690	1536	1426	1342	1274	1219	1132	1065	-	-	-	-
		50000	3516	2438	2056	1632	1426	1295	1202	1132	1075	1028	954	898	-	-	-	-
		100000	2791	1935	1632	1295	1132	1028	954	898	853	816	757	713	-	-	-	-
3 7/16	3-37	5000	4812	4812	4812	4059	3546	3222	2991	2814	2673	2557	2374	-	-	-	-	-
		10000	4812	4812	4059	3222	2814	2557	2374	2234	2122	2029	1884	-	-	-	-	-
		30000	4812	3337	2814	2334	1951	1773	1646	1549	1471	1407	1306	-	-	-	-	-
		50000	4059	2814	2374	1884	1646	1495	1388	1306	1241	1187	1102	-	-	-	-	-
		100000	3222	2234	1884	1495	1306	1187	1102	1037	985	942	874	-	-	-	-	-
100MM 3 15/16 4	5320 3-315 3-4	5000	6673	6673	6673	5628	4917	4467	4147	3902	3707	3546	-	-	-	-	-	-
		10000	6673	6673	5628	4467	3902	3546	3291	3097	2942	2814	-	-	-	-	-	-
		30000	6673	4627	3902	3097	2706	2458	2282	2148	2040	1951	-	-	-	-	-	-
		50000	5628	3902	3291	2612	2282	2074	1925	1811	1721	1646	-	-	-	-	-	-
		100000	4467	3097	2612	2074	1811	1646	1528	1438	1366	1306	-	-	-	-	-	-
4 7/16 4 15/16	3-47 3-415	5000	7975	7975	7975	7054	6163	5599	5198	4891	4646	4444	-	-	-	-	-	-
		10000	7975	7975	7054	5599	4891	4444	4125	3882	3688	3527	-	-	-	-	-	-
		30000	7975	5799	4891	3882	3391	3081	2860	2692	2557	2446	-	-	-	-	-	-
		50000	7054	4891	4125	3274	2860	2599	2413	2270	2157	2063	-	-	-	-	-	-
		100000	5599	3882	3274	2599	2270	2063	1915	1802	1712	1637	-	-	-	-	-	-

Double Lock ratings same as standard inserts.

For bearing selection and engineering, see page 176.

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SEALMASTER®

WORLD LEADER

World's Most Specified Bearings... IN A CLASS BY THEMSELVES



The renowned *SEALMASTER* Gold Line offers superlative performance across the broad spectrum of industrial applications. The *SEALMASTER* name is unquestionably the most respected as well as the most specified in all the varieties of mounted ball bearings now offered. The reason: *they perform* with fewer failures, less downtime, increased productivity and longer life. When you specify: "*SEALMASTER GOLD LINE BALL BEARINGS -NO SUBSTITUTIONS*" - you save your company money in any number of ways thanks to the outstanding integrity of these premium products.

THE GOLD STANDARD IS THE STANDARD OF EXCELLENCE

No other commercially marketed bearings combine the exclusive features, and the resultant user benefits, with the surpassing quality of the *SEALMASTER* Gold Line. They are truly set apart from all the others, the absolute best mounted bearings that money can buy – *bar none!*

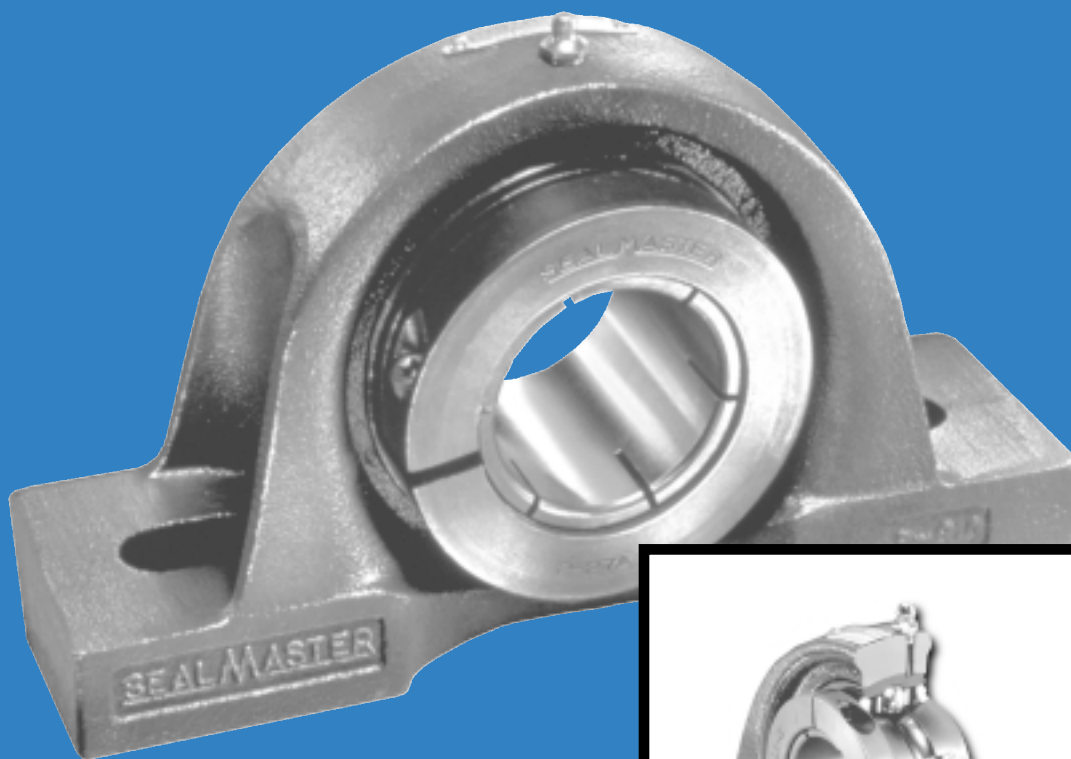
As a result, they run quieter and cooler, last much longer even in the most demanding applications, cost less to own and operate in the final analysis. Why else would more and more knowledgeable engineers continue to specify these bearings, now for over half a century? And why else would all the other bearing manufacturers try so hard to emulate the quality and performance of *SEALMASTER Gold Line Bearings*...but *fail* to match our stringent standards of excellence?

Millions of *SEALMASTER* bearings are in operation in demanding applications world-wide: in a variety of food processing industries, in material handling, air conditioning and environmental machinery, in foundries, grain handling and agriculture and in almost every other conceivable industrial service. Many of these units operate under the most severe and often hostile conditions, while still providing long life and trouble-free service, enabling users to consistently reach *and exceed* the predictable bearing fatigue life, without costly failure and unproductive downtime.

For more information on custom solutions, designed for specific applications see page 129.

SKWEZLOC®

The *Outstanding*
Bearing-To-Shaft
Locking System



SEALMASTER®
GOLD LINE BALL BEARINGS

Specified In A Broad Range Of Demanding Applications Across Industry

Because of Their Proven Locking Reliability

SEALMASTER Gold Line ball bearings with *SKWEZLOC* locking collars are applied on higher speed applications, such as fans, blowers and other higher RPM air handling and rotating machinery. They are also applied on higher speed paper, printing and textile machinery, food and grain handling mechanisms. The *SKWEZLOC* bearing has demonstrated its proven performance in any number of applications demanding smooth and quiet operation.

For more discussion of specific applications, see page 129.

Widely Available From National and Local Stocks...In All Popular Designs

SEALMASTER Gold Line ball bearings with the exclusive *SKWEZLOC* locking collars are offered in the full range of mounted bearing configurations in both standard and medium duty designs. Most of the more popular sizes and types shown in the following table are available for immediate delivery from our strategically located national and local inventories. For additional information on availability and delivery, please consult your nearest "Emerson Power Transmission" Service Center shown on the back cover of this catalog.

Table 1 – Availability of SEALMASTER® Gold Line Bearings With SKWEZLOC® Locking Collar...Bore Sizes And Series

BORE SIZE (inches)	PILLOW BLOCKS						FLANGE UNITS									CARTRIDGE UNITS		TAKE-UP UNITS		INSERTS	
	STANDARD DUTY				MEDIUM DUTY		STANDARD DUTY					MEDIUM DUTY				STANDARD DUTY	MEDIUM DUTY	STANDARD DUTY	MEDIUM DUTY	STYLE "A" STD DUTY	
	NP-T	NPL-T	SP-T	TB-T	MP-T	EMP-T	FB-T	TFT-T	SF-T	SFT-T	SFC-T	MSF-T	MSFT-T	MFC-T	SC-T	MSC-T	ST-T	MST-T	ER-T	AR-T	
3/4	■	■					■		■	■							■		■	■	
15/16	■	■	■	■		■	■	■	■	■					■		■			■	
1	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	
1 1/8	■	■	■	■			■	■	■	■	■				■		■		■	■	
1 3/16	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
1 1/4	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	
1 3/8	■	■	■	■			■	■	■	■	■				■		■		■	■	
1 7/16	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
1 1/2	■	■	■	■	■	■			■	■	■	■	■	■	■	■	■	■	■	■	
1 5/8	■	■	■	■					■	■	■				■		■			■	
1 11/16	■	■	■	■	■	■			■	■	■	■	■	■	■	■	■	■	■	■	
1 3/4	■	■	■	■	■				■	■	■	■	■	■	■	■	■	■	■	■	
1 15/16	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■	■	
2R	■	■	■	■			■		■	■	■				■		■			■	
2	■	■	■		■				■	■	■	■	■	■	■	■	■	■	■	■	
2 1/8	■	■	■						■	■	■				■		■			■	
2 3/16	■	■	■		■	■			■	■	■	■		■	■	■	■	■	■	■	
2 1/4	■	■	■		■				■	■	■	■		■	■	■	■	■		■	
2 3/8	■	■	■						■		■				■		■			■	
2 7/16	■	■	■			■			■		■				■		■		■	■	

■ = Available in this size/series

“Rings True” – Every Time...

Because the SKWEZLOC collar *centers the shaft concentrically in the bore of the bearing, the shaft runs true* and you save on bearing maintenance and replacement costs. Because there is no setscrew, shaft marring is avoided. Ballpath roundness is maintained.

The Key to Overall Locking Performance...

The patented design of the unique SKWEZLOC locking collar puts it a *world apart* from ordinary shaft locking devices. Six equally-spaced centering surfaces (inner race fingers or extension tabs) grip the shaft and hold it tight, locating it in near-perfect concentricity with the race. Fretting corrosion is reduced. Balancing of the assembly is readily attained and locking reliability is maintained.

“Putting the Collar” On Vibration...

The design of the unique SKWEZLOC collar and the near-perfect shaft centering greatly reduces out-of-balance vibrational forces that tend to shorten bearing life. Fretting corrosion is also minimized.



**Overall Locking
Performance Plus All the
Other GOLD LINE
Bearing Features and
Benefits. These exclusive
engineered features set
all GOLD LINE bearings
apart from the others:**

- Exclusive locking pin and dimple system.
- Inner and outer races of high quality 52100 vacuum degassed steel.
- Solid base cast iron housing.
- Extra wide inner and outer races.
- Zone hardened inner race.
- Patented felt labyrinth seal.
- Unique land riding metal ball retainer.
- Black oxide coating...and many more standard features and options.

Lock In Bearing Performance...

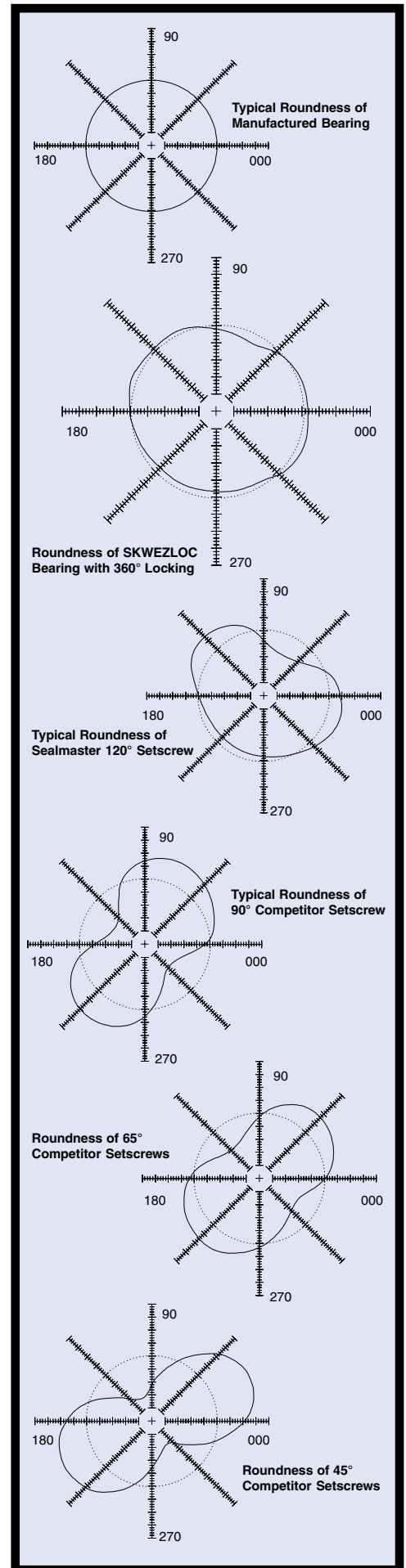
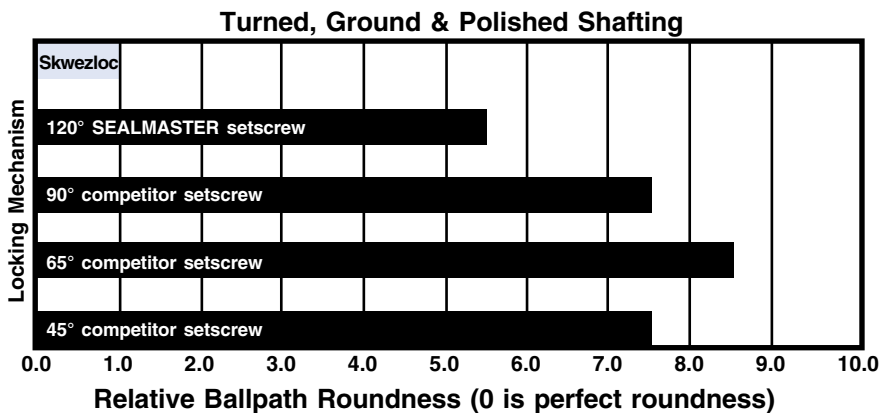
When you specify SEALMASTER mounted ball bearings with the exclusive SKWEZLOC locking collar, you *put a lock* on proven quality and performance. You enhance operating conditions because you automatically eliminate most of the mechanical variables that can cause premature locking failure. The “*Ballpath Roundness vs. Shaft Locking Mechanism*” test data on page 67 demonstrates graphically the low distortion characteristics that the SKWEZLOC bearing design yields in comparison to other available locking systems.



Ballpath Roundness VS Shaft Locking Mechanism

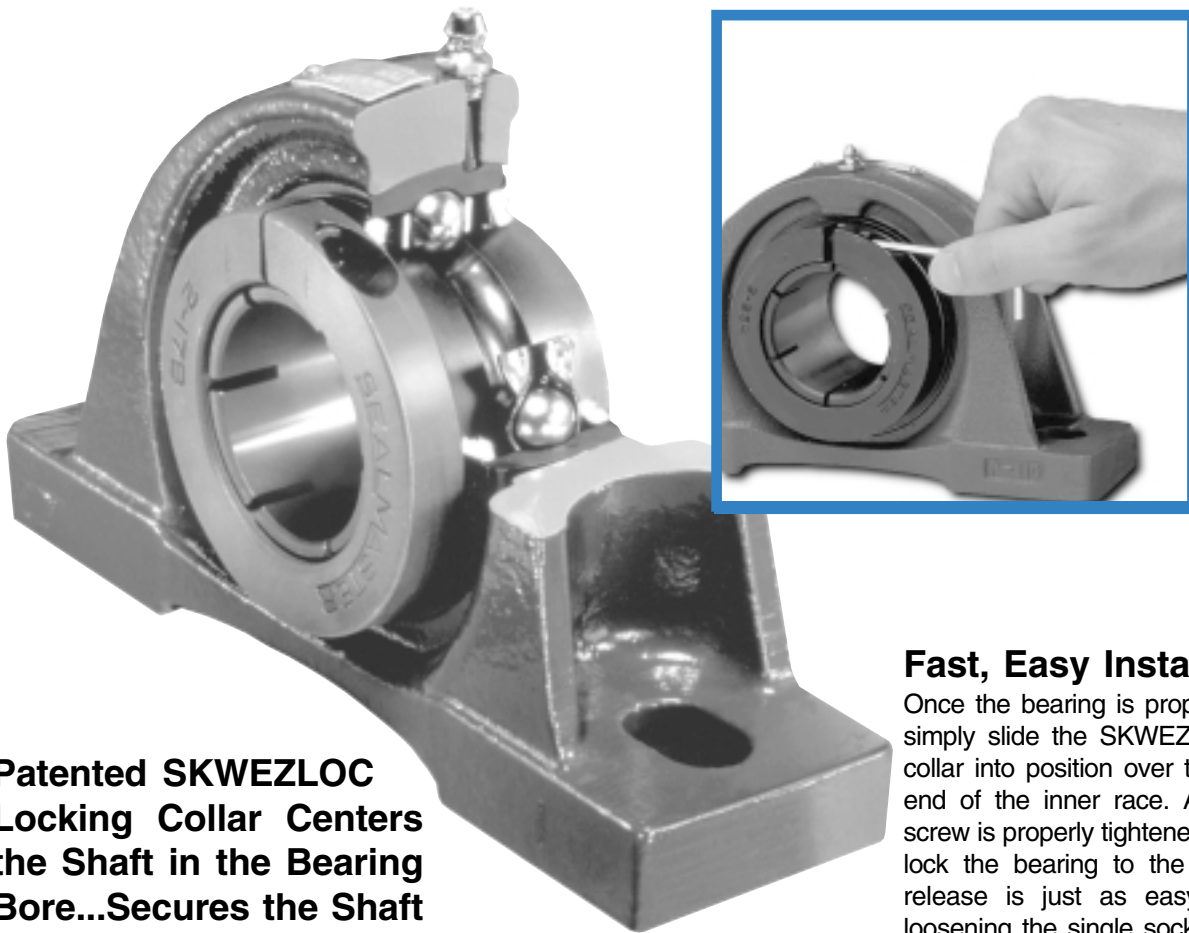
Tests Show That SKWEZLOC® Design
Maintains Ballpath Roundness Up To
6-9 Times More Effectively Than
Setscrew Methods

SEALMASTER engineers have measured the relative ballpath roundness of various setscrew bearings compared to the roundness of a *SEALMASTER* bearing equipped with a *SKWEZLOC* locking collar. The results and comparisons are illustrated below. The differences – *all of which can affect bearing operation and life – are dramatic!*



THE GOLD STANDARD

With The Outstanding SKWEZLOC® Bearing-To-Shaft Locking System



Patented SKWEZLOC Locking Collar Centers the Shaft in the Bearing Bore...Secures the Shaft with Near-Perfect Concentricity

- Quieter smoother operation at higher speeds.
- Quickly, easily installed, removed and/or repositioned.
- Shaft protected from scoring or burring.
- Reduced out-of-balance vibrational forces and fretting corrosion.

Smooth Operators...

With the shaft and bearing in near perfect concentricity, these premium *SEALMASTER* bearings run smoother and quieter - the qualities you equate with better performance and longer bearing life. This feature also allows operation at higher speeds than setscrew designs.

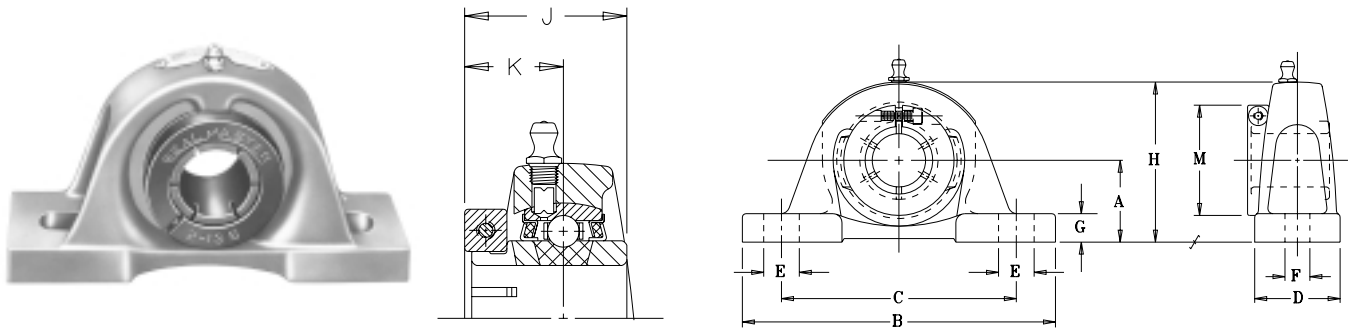
Refer to page 77 for speed capabilities.

Fast, Easy Installation...

Once the bearing is properly located, simply slide the SKWEZLOC locking collar into position over the extended end of the inner race. A single cap screw is properly tightened to securely lock the bearing to the shaft. Shaft release is just as easy by simply loosening the single socket head cap screw.

Simplified Repositioning...

Some applications require the frequent repositioning of the bearing on the shaft. Eccentric collars with locking setscrews may leave a burr which can cause problems. Because of the uniform concentric hold of the SKWEZLOC collar, repositioning is easy.



NP-T Series Standard Duty Pillow Blocks...Skwezloc Locking

SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions in Inches												BOLT SIZE IN.	UNIT WT.
			A	B	C		D	E	F	G	H	J	K	M		
					MIN.	MAX.										
IN																
3/4	NP-12T	2-012T	1 5/16	5	3 3/8	4 1/8	1 1/2	3/4	7/16	1/2	2 9/16	1 9/32	25/32	1 3/4	3/8	2.0
15/16 1	NP-15T NP-16T	2-015T 2-1T	1 7/16	5 1/2	3 7/8	4 3/8	1 1/2	5/8	7/16	1/2	2 13/16	1 7/16	7/8	1 15/16	3/8	2.4
1 1/8 1 3/16 1 1/4	NP-18T NP-19T NP-20RT	2-12T 2-13T 1-14T	1 11/16	6 1/2	4 7/16	5 1/16	1 7/8	13/16	9/16	9/16	3 3/8	1 9/16	15/16	2 3/16	1/2	3.8
1 1/4 1 3/8 1 7/16	NP-20T NP-22T NP-23T	2-14T 2-16T 2-17T	1 7/8	6 9/16	4 11/16	5 5/16	1 7/8	13/16	9/16	5/8	3 3/4	1 3/4	1 1/16	2 7/16 2 9/16	1/2	4.8
1 1/2 1 9/16	NP-24T NP-25T	2-18T 2-19T	1 15/16	7 1/4	4 7/8	5 7/8	2 1/8	1	9/16	11/16	3 15/16	2	1 1/4	2 11/16	1/2	6.0
1 5/8 1 11/16 1 3/4	NP-26T NP-27T NP-28T	2-110T 2-111T 2-112T	2 1/8	7 1/2	5 7/16	6 1/16	2 1/8	13/16	9/16	11/16	4 1/4	2	1 1/4	2 13/16 2 15/16	1/2	6.8
1 15/16 2	NP-31T NP-32RT	2-115T 1-2T	2 1/4	8 1/8	6	6 1/2	2 3/8	7/8	11/16	3/4	4 9/16	2 3/32	1 11/32	3 3/8	5/8	8.5
2 2 1/8 2 3/16	NP-32T NP-34T NP-35T	2-2T 2-22T 2-23T	2 1/2	8 5/8	6 1/2	7	2 3/8	7/8	11/16	3/4	5	2 1/4	1 3/8	3 1/2 3 5/8	5/8	10.3
2 1/4 2 3/8 2 7/16	NP-36T NP-38T NP-39T	2-24T 2-26T 2-27T	2 3/4	9 1/2	6 7/8	7 5/8	2 3/4	1	11/16	7/8	5 9/16	2 5/8	1 5/8	4 1/16 4 1/8	5/8	14.9

NPL-T Series Standard Duty Pillow Blocks...Skwezloc Locking

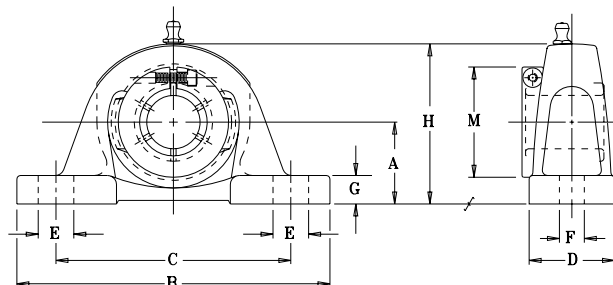
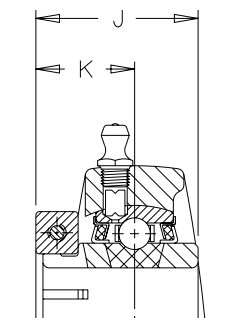
SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions in Inches												BOLT SIZE IN.	UNIT WT.
			A	B	C		D	E	F	G	H	J	K	M		
					MIN.	MAX.										
IN																
3/4	NPL-12T	2-012T	1 1/4	5	3 3/8	4 1/8	1 1/2	3/4	7/16	7/16	2 1/2	1 9/32	25/32	1 3/4	3/8	1.8
15/16 1	NPL-15T NPL-16T	2-015T 2-1T	1 5/16	5 1/2	3 7/8	4 3/8	1 1/2	5/8	7/16	1/2	2 11/16	1 7/16	7/8	1 15/16	3/8	2.2
1 1/8 1 3/16 1 1/4	NPL-18T NPL-19T NPL-20RT	2-12T 2-13T 1-14T	1 9/16	6 1/2	4 7/16	5 1/16	1 7/8	13/16	9/16	7/16	3 1/4	1 9/16	15/16	2 3/16	1/2	3.8
1 1/4 1 3/8 1 7/16	NPL-20T NPL-22T NPL-23T	2-14T 2-16T 2-17T	1 13/16	6 9/16	4 11/16	5 5/16	1 7/8	13/16	9/16	9/16	3 11/16	1 3/4	1 1/16	2 7/16 2 9/16	1/2	4.7
1 1/2 1 9/16	NPL-24T NPL-25T	2-18T 2-19T	1 15/16	7 1/4	4 7/8	5 7/8	2 1/8	1	9/16	11/16	3 15/16	2	1 1/4	2 11/16	1/2	6.0
1 5/8 1 11/16 1 3/4	NPL-26T NPL-27T NPL-28T	2-110T 2-111T 2-112T	2 1/16	7 1/2	5 7/16	6 1/16	2 1/8	13/16	9/16	5/8	4 3/16	2	1 1/4	2 13/16 2 15/16	1/2	6.5
1 15/16 2	NPL-31T NPL-32RT	2-115T 1-2T	2 3/16	8 1/8	6	6 1/2	2 3/8	7/8	11/16	11/16	4 1/2	2 3/32	1 11/32	3 3/8	5/8	8.4
2 2 1/8 2 3/16	NPL-32T NPL-34T NPL-35T	2-2T 2-22T 2-23T	2 7/16	8 5/8	6 1/2	7	2 3/8	7/8	11/16	11/16	4 15/16	2 1/4	1 3/8	3 1/2 3 5/8	5/8	10.2
2 1/4 2 3/8 2 7/16	NPL-36T NPL-38T NPL-39T	2-24T 2-26T 2-27T	2 11/16	9 1/2	6 7/8	7 5/8	2 3/4	1	11/16	13/16	5 1/2	2 5/8	1 5/8	4 1/16 4 1/8	5/8	14.7

For Load Ratings, see page 77. For Standard Duty SKWEZLOC Bearing Inserts, see page 76. See page 70 for seal arrangements. For custom seals see page 188.



MOUNTED BALL BEARINGS

SEALMASTER®

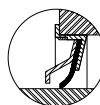


SP-T Series Standard Duty Pillow Blocks...Skwezloc Locking

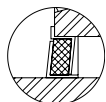
SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions in Inches												BOLT SIZE IN.	UNIT WT.
			A	B	C		D	E	F	G	H	J	K	M		
					MIN.	MAX.										
15/16 1	SP-15T SP-16T	2-015T 2-1T	1 3/4	7	5 1/8	5 5/8	2	3/4	9/16	9/16	3 5/16	1 7/16	7/8	1 15/16	1/2	3.8
1 1/8 1 3/16 1 1/4	SP-18T SP-19T SP-20RT	2-12T 2-13T 1-14T	2	7 1/2	5 3/8	6 1/8	2	7/8	9/16	5/8	3 7/8	1 9/16	15/16	2 3/16	1/2	5.2
1 1/4 1 3/8 1 7/16	SP-20T SP-22T SP-23T	2-14T 2-16T 2-17T	2 3/8	8 1/4	5 5/8	6 7/8	2 1/4	1 1/4	3/4	3/4	4 1/2	1 3/4	1 1/16	2 7/16 2 9/16	5/8	7.3
1 1/2 1 9/16	SP-24T SP-25T	2-18T 2-19T	2 5/16	8 1/2	5 7/8	7 1/8	2 3/8	1 1/4	3/4	3/4	4 9/16	2	1 1/4	2 11/16	5/8	7.9
1 5/8 1 11/16 1 3/4	SP-26T SP-27T SP-28T	2-110T 2-111T 2-112T	2 3/8	8 3/4	5 7/8	7 1/8	2 3/8	1 1/4	3/4	3/4	4 5/8	2	1 1/4	2 13/16 2 15/16	5/8	8.4
1 15/16 2	SP-31T SP-32RT	2-115T 1-2T	2 3/4	10 1/2	6 3/4	8 1/2	2 1/2	1 1/2	3/4	7/8	5 5/16	2 3/32	1 11/32	3 3/8	5/8	12.2
2 2 1/8 2 3/16	SP-32T SP-34T SP-35T	2-2T 2-22T 2-23T	3 1/8	11 1/4	7 5/8	9 3/8	2 3/4	1 1/2	3/4	7/8	5 15/16	2 1/4	1 3/8	3 1/2 3 5/8	5/8	14.7
2 1/4 2 3/8 2 7/16	SP-36T SP-38T SP-39T	2-24T 2-26T 2-27T	3 1/8	11 1/2	7 7/8	9 3/8	3	1 1/2	7/8	7/8	6 1/16	2 5/8	1 5/8	4 1/16 4 1/8	3/4	17.7

For Load Ratings, see page 77.

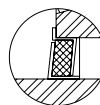
For Standard Duty SKWEZLOC Bearing Inserts, see page 76.



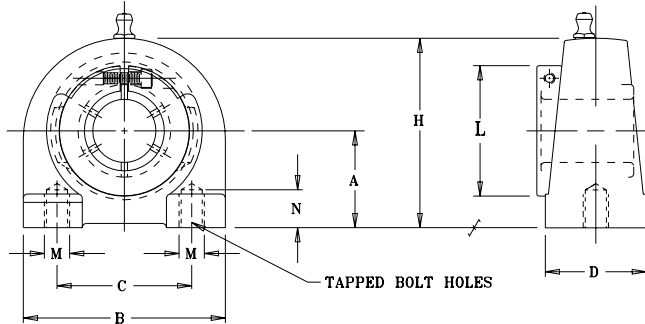
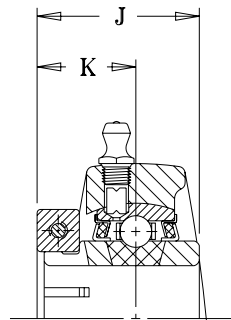
Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail. To specify, add suffix "C" (SP-16TC).



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



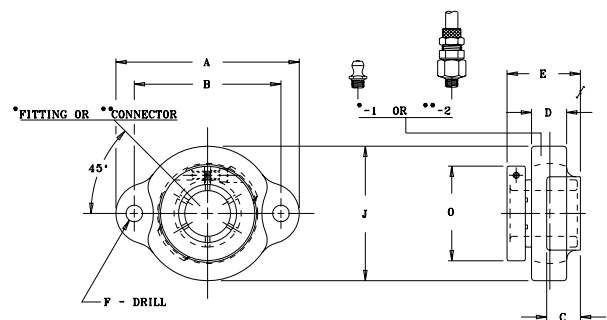
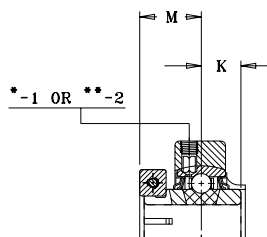
Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range. (See seal options on page 188).



* Bearing reversed in housing for collar clearance.

TB-T Series Tapped Base Pillow Blocks...Skwezloc Locking

SHAFT DIAM. IN	PART NO.	BRG. NO.	Dimensions in Inches								N MIN. TAP DEPTH	M BOLT UNC- THREAD	UNIT WT.
			A	B	C	D	H	J	K	L			
3/4	*TB-12T	2-012T	1 5/16	3 1/8	2	1 1/2	2 9/16	1 9/32	25/32	1 3/4	1/2	3/8-16	1.8
15/16	TB-15T	2-015T	1 7/16	3	2	1 1/2	2 13/16	1 7/16	7/8	1 15/16	1/2	3/8-16	2.0
1 1/8	TB-18T	2-12T	1 11/16	4	3	1 1/2	3 13/32	1 9/16	15/16	2 3/16	5/8	7/16-14	3.7
1 3/16	TB-19T	2-13T											
1 1/4	TB-20RT	1-14T											
1 1/4	TB-20T	2-14T	1 7/8	4 1/4	3 1/4	1 7/8	3 3/4	1 3/4	1 1/16	2 7/16	3/4	1/2-13	4.8
1 3/8	TB-22T	2-16T								2 9/16			
1 7/16	TB-23T	2-17T											
1 1/2	TB-24T	2-18T	1 15/16	4 5/8	3 1/2	1 7/8	3 15/16	2	1 1/4	2 11/16	3/4	1/2-13	6.3
1 9/16	TB-25T	2-19T											
1 5/8	TB-26T	2-110T	2 1/8	5	3 3/4	2	4 1/4	2	1 1/4	2 13/16	3/4	1/2-13	6.8
1 11/16	TB-27T	2-111T								2 15/16			
1 3/4	TB-28T	2-112T											
1 15/16	TB-31T	2-115T	2 1/4	5 1/2	4	2	4 5/8	2 3/32	1 11/32	3 3/8	7/8	5/8-11	8.6
2	TB-32RT	1-2T											



TFT-T Series Standard Duty Two-Bolt Flange Units...Skwezloc Locking

SHAFT DIAM. IN	PART NO.	BRG. NO.	Dimensions in Inches										UNIT WT.
			A	B	C	D	E	F	J	K	M	O	
15/16	TFT-15TC	2-015TC	3 3/4	3	11/16	23/32	1 1/2	25/64	2 3/4	9/16	7/8	1 15/16	1.6
1	TFT-16TC	2-1TC											
1 1/8	TFT-18TC	2-12TC	4 7/16	3 9/16	13/16	7/8	1 5/8	25/64	3 1/4	5/8	15/16	2 3/16	2.3
1 3/16	TFT-19TC	2-13TC											
1 1/4	TFT-20TC	2-14TC	4 7/8	3 15/16	7/8	15/16	1 13/16	25/64	3 11/16	11/16	1 1/16	2 7/16	3.0
1 3/8	TFT-22TC	2-16TC										2 9/16	
1 7/16	TFT-23TC	2-17TC											

* To specify, add -1 suffix, as TFT-15TC-1, etc.

**To specify, add -2 suffix, as TFT-15TC-2, etc.

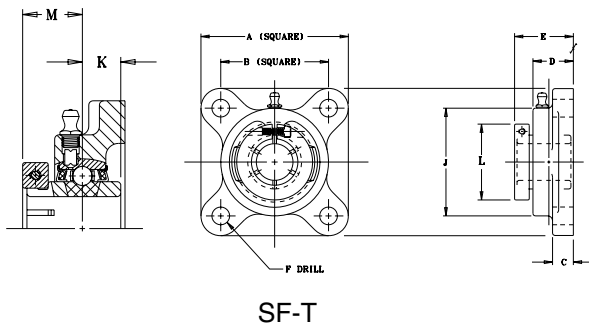
For load ratings, see page 77.

For standard duty SKWEZLOC Inserts, see page 76. See page 70 for seal arrangements.

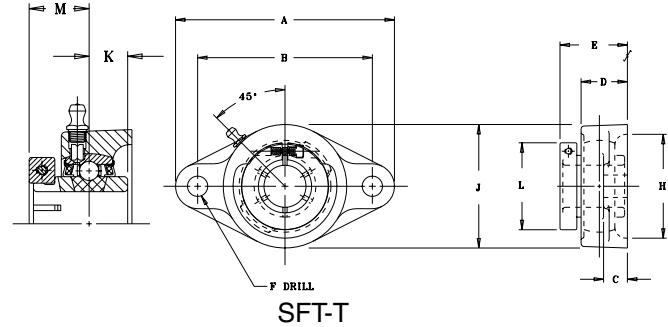


MOUNTED BALL BEARINGS

SEALMASTER®



SF-T



SFT-T

SF-T Series Standard Duty Four-Bolt Flange Units...Skwezloc Locking

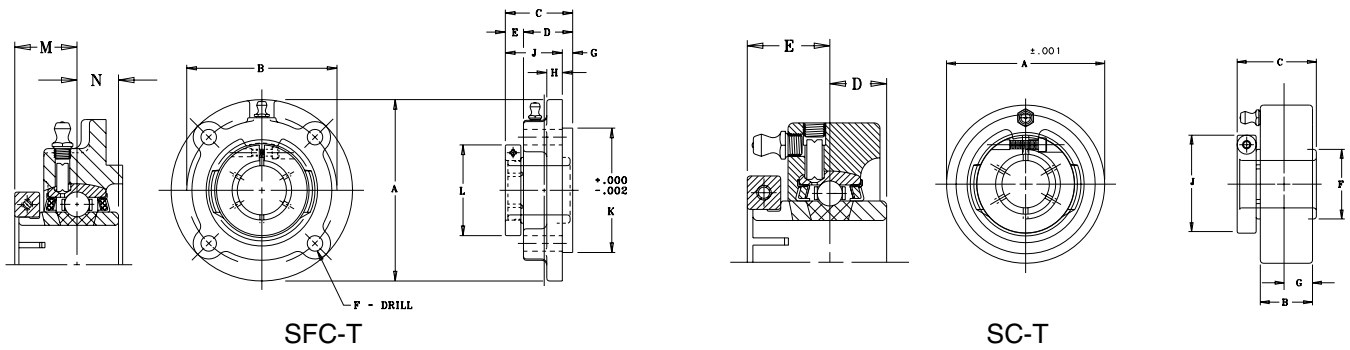
SHAFT DIAM. IN	PART NO.	BRG. NO.	Dimensions in Inches										UNIT WT.
			A	B	C	D	E	F	J	K	L	M	
3/4	SF-12T	2-012T	3 3/8	2 1/2	7/16	15/16	1 11/32	25/64	2 3/8	1/2	1 3/4	25/32	1.6
15/16 1	SF-15T SF-16T	2-015T 2-1T	3 3/4	2 3/4	17/32	1 1/32	1 1/2	15/32	2 23/32	9/16	1 15/16	7/8	2.3
1 1/8 1 3/16 1 1/4	SF-18T SF-19T SF-20RT	2-12T 2-13T 1-14T	4 1/4	3 1/4	17/32	1 11/64	1 5/8	15/32	3 7/32	5/8	2 3/16	15/16	3.8
1 1/4 1 3/8 1 7/16	SF-20T SF-22T SF-23T	2-14T 2-16T 2-17T	4 5/8	3 5/8	9/16	1 11/32	1 13/16	17/32	3 23/32	11/16	2 7/8 2 9/16	1 1/16	4.4
1 1/2 1 9/16	SF-24T SF-25T	2-18T 2-19T	5 1/8	4	9/16	1 1/2	2 5/64	17/32	4 5/64	3/4	2 11/16	1 1/4	5.8
1 5/8 1 11/16 1 3/4	SF-26T SF-27T SF-28T	2-110T 2-111T 2-112T	5 3/8	4 1/8	9/16	1 9/16	2 7/64	19/32	4 21/64	3/4	2 13/16 2 15/16	1 1/4	6.0
1 15/16 2	SF-31T SF-32RT	2-115T 1-2T	5 5/8	4 3/8	9/16	1 9/16	2 7/32	19/32	4 9/16	3/4	3 3/8	1 11/32	7.0
2 2 1/8 2 3/16	SF-32T SF-34T SF-35T	2-2T 2-22T 2-23T	6 3/8	5 1/8	13/16	1 3/4	2 3/8	21/32	5 1/4	7/8	3 1/2 3 5/8	1 3/8	11.1
2 1/4 2 3/8 2 7/16	SF-36T SF-38T SF-39T	2-24T 2-26T 2-27T	6 7/8	5 5/8	13/16	1 15/16	2 3/4	21/32	5 7/16	1	4 1/16 4 1/8	1 5/8	13.0

SFT-T Series Standard Duty Two-Bolt Flange Units...Skwezloc Locking

SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions in Inches											UNIT WT.
			A	B	C	D	E	F	H CORED	J	K	L	M	
IN														
3/4	SFT-12T	2-012T	4 13/32	3 17/32	7/16	15/16	1 11/32	13/32	2	2 3/8	1/2	1 3/4	25/32	1.3
15/16 1	SFT-15T SFT-16T	2-015T 2-1T	4 7/8	3 57/64	17/32	1 1/32	1 1/2	15/32	2 3/8	2 3/4	9/16	1 15/16	7/8	1.8
1 1/8 1 3/16 1 1/4	SFT-18T SFT-19T SFT-20RT	2-12T 2-13T 1-14T	5 9/16	4 19/32	17/32	1 11/64	1 5/8	15/32	2 7/8	3 1/4	5/8	2 3/16	15/16	2.4
1 1/4 1 3/8 1 7/16	SFT-20T SFT-22T SFT-23T	2-14T 2-16T 2-17T	6 1/8	5-1/8	9/16	1 11/32	1 13/16	17/32	3 5/16	3 3/4	11/16	2 7/16 2 9/16	1 1/16	3.5
1 1/2 1 9/16	SFT-24T SFT-25T	2-18T 2-19T	6 3/4	5 21/32	9/16	1 1/2	2 5/64	17/32	3 1/2	4 1/8	3/4	2 11/16	1 1/4	4.8
1 5/8 1 11/16 1 3/4	SFT-26T SFT-27T SFT-28T	2-110T 2-111T 2-112T	7 1/16	5 27/32	9/16	1 9/16	2 7/64	19/32	3 7/8	4 3/8	3/4	2 13/16 2 15/16	1 1/4	5.3
1 15/16 2	SFT-31T SFT-32RT	2-115T 1-2T	7 7/16	6 3/16	9/16	1 9/16	2 7/32	19/32	4	4 9/16	3/4	3 3/8	1 11/32	6.0
2 2 1/8 2 3/16	SFT-32T SFT-34T SFT-35T	2-2T 2-22T 2-23T	8 1/2	7 1/4	13/16	1 3/4	2 3/8	21/32	4 1/4	5 1/4	7/8	3 1/2 3 5/8	1 3/8	9.0

For Load Ratings, see page 77.

For Standard Duty SKWEZLOC Bearing Inserts, see page 76. See page 70 for seal arrangements. For custom seals, see page 188.



SFC-T Series Standard Duty Flange Cartridge Units...Skwezloc Locking

SHAFT DIAM. IN	PART NO.	BRG. NO.	Dimensions In Inches													UNIT WT.
			A	B	C	D	E	F	G	H	J	K	L	M	N	
1 1/8 1 3/16 1 1/4	SFC-18T SFC-19T SFC-20RT	2-12T 2-13T 1-14T	4 3/8	3 5/8	1 5/8	1 3/16	7/16	3/8	1/4	3/8	1 3/8	3.000	2 3/16	15/16	11/16	3.2
1 1/4 1 3/8 1 7/16	SFC-20T SFC-22T SFC-23T	2-14T 2-16T 2-17T	5	4 1/8	1 3/4	1 1/4	1/2	7/16	3/8	3/8	1 3/8	3.375	2 7/16 2 9/16	1 1/16	11/16	4.2
1 1/2 1 9/16	SFC-24T SFC-25T	2-18T 2-19T	5 1/4	4 3/8	2	1 15/32	17/32	7/16	7/16	7/16	1 9/16	3.625	2 11/16	1 1/4	3/4	5.0
1 5/8 1 11/16 1 3/4	SFC-26T SFC-27T SFC-28T	2-110T 2-111T 2-112T	6 1/8	5 1/8	2	1 7/16	9/16	1/2	7/16	7/16	1 9/16	4.250	2 13/16 2 15/16	1 1/4	3/4	6.3
1 15/16 2	SFC-31T SFC-32RT	2-115T 1-2T	6 1/8	5 1/8	2 3/32	1 15/32	5/8	1/2	15/32	7/16	1 5/8	4.250	3 3/8	1 11/32	3/4	7.1
2 2 1/8 2 3/16	SFC-32T SFC-34T SFC-35T	2-2T 2-22T 2-23T	6 3/8	5 3/8	2 1/4	1 5/8	5/8	1/2	5/8	7/16	1 5/8	4.500	3 1/2 3 5/8	1 3/8	7/8	8.1
2 1/4 2 3/8 2 7/16	SFC-36T SFC-38T SFC-39T	2-24T 2-26T 2-27T	7 1/8	6	2 5/8	1 7/8	3/4	9/16	7/8	1/2	1 3/4	5.000	4 1/16 4 1/8	1 5/8	1	11.7

SC-T Series Standard Duty Cartridge Units...Skwezloc Locking

SHAFT DIAM. IN	PART NO.	BRG. NO.	Dimensions In Inches								UNIT WT.
			A	B	C	D	E	F	G	J	
15/16* 1*	SC-15T SC-16T	2-015T 2-1T	3 1/8	1 1/32	1 7/16	9/16	7/8	1 3/8	9/16	1 15/16	1.9
1 1/8* 1 3/16* 1 1/4	SC-18T SC-19T SC-20RT	2-12T 2-13T 1-14T	3 1/2	1 3/32	1 9/16	5/8	15/16	1 19/32	9/16	2 1/16	2.5
1 1/4 1 3/8 1 7/16	SC-20T SC-22T SC-23T	2-14T 2-16T 2-17T	3 7/8	1 7/32	1 3/4	11/16	1 1/16	1 55/64	5/8	2 7/16 2 9/16	3.2
1 1/2 1 9/16	SC-24T SC-25T	2-18T 2-19T	4 3/16	1 15/32	2	3/4	1 1/4	2 1/16	3/4	2 11/16	4.1
1 5/8 1 11/16 1 3/4	SC-26T SC-27T SC-28T	2-110T 2-111T 2-112T	4 3/8	1 7/16	2	3/4	1 1/4	2 19/64	23/32	2 13/16 2 15/16	4.5
1 15/16	SC-31T	2-115T	4 9/16	1 15/32	2 3/32	3/4	1 11/32	2 15/32	3/4	3 3/8	4.9
2 2 1/8 2 3/16	SC-32T SC-34T SC-35T	2-2T 2-22T 2-23T	4 15/16	1 19/32	2 1/4	7/8	1 3/8	2 23/32	27/32	3 1/2 3 5/8	5.8
2 1/4 2 3/8 2 7/16	SC-36T SC-38T SC-39T	2-24T 2-26T 2-27T	5 7/8	1 5/8	2 5/8	1	1 5/8	2 63/64	13/16	4 1/16 4 1/8	9.0

*Misalignment capability reduced.

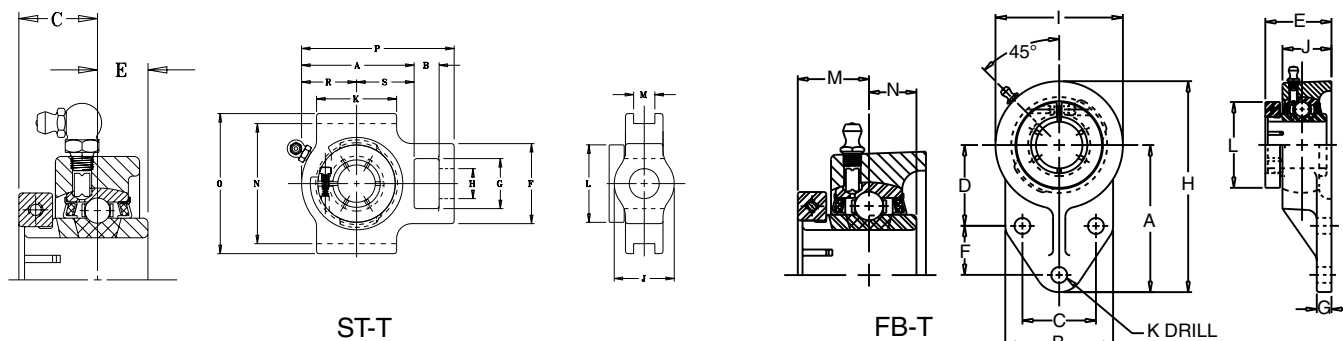
For Load Ratings, see page 77.

For Standard Duty SKWEZLOC Bearing Inserts, see page 76. See page 70 for seal arrangements. For custom seals, see page 188.



MOUNTED BALL BEARINGS

SEALMASTER®



ST-T

FB-T

ST-T Series Standard Duty Take-Up Units...Skwezloc Locking

SHAFT DIAM. IN	PART NO.	BRG. NO.	Dimensions in Inches																UNIT WT.
			A	B	C	E	F	G	H Core	J Hub	K	L	M	N	O	P	R	S	
3/4	ST-12T	2-012T	2 11/16	5/8	25/32	1/2	2	1 1/4	3/4	1 3/8	2	1 3/4	17/32	3	3 1/2	3 11/16	1 5/16	1 3/8	2.2
15/16 1	ST-15T ST-16T	2-015T 2-1T	2 13/16	5/8	7/8	9/16	2	1 1/4	3/4	1 1/2	2	1 15/16	17/32	3	3 1/2	3 13/16	1 3/8	1 7/16	2.8
1 1/8 1 3/8 1 1/4	ST-18T ST-19T ST-20RT	2-12T 2-13T 1-14T	3 7/16	5/8	15/16	5/8	2 3/16	1 7/16	7/8	1 3/4	2 1/4	2 3/16	17/32	3 1/2	4	4 7/16	1 11/16	1 3/4	3.6
1 1/4 1 3/8 1 7/16	ST-20T ST-22T ST-23T	2-14T 2-16T 2-17T	3 15/16	5/8	1 1/16	11/16	2 1/2	1 7/16	7/8	1 3/4	2 1/2	2 7/16 2 9/16	17/32	3 1/2	4	5 1/16	2	1 15/16	4.3
1 1/2 1 9/16	ST-24T ST-25T	2-18T 2-19T	4 5/16	3/4	1 1/4	3/4	3 1/4	1 15/16	1 1/8	2 1/8	3 1/4	2 11/16	11/16	4	4 1/2	5 11/16	2 3/16	2 1/8	6.3
1 5/8 1 11/16 1 3/4	ST-26T ST-27T ST-28T	2-110T 2-111T 2-112T	4 5/16	3/4	1 1/4	3/4	3 1/4	1 15/16	1 1/8	2 3/16	3 1/4	2 13/16 2 15/16	11/16	4	4 5/8	5 11/16	2 1/4	2 1/16	6.3
1 15/16 2	ST-31T ST-32RT	2-115T 1-2T	4 1/2	3/4	1 11/32	3/4	3 1/4	1 15/16	1 1/8	2 3/16	3 3/8	3 3/8	11/16	4	4 5/8	5 7/8	2 5/16	2 3/16	6.6
2 2 1/8 2 3/16	ST-32T ST-34T ST-35T	2-2T 2-22T 2-23T	5	1	1 3/8	7/8	4	2 1/2	1 3/8	2 1/4	3 3/4	3 1/2 3 5/8	1 1/16	5 1/8	5 3/4	6 3/4	2 9/16	2 7/16	10.4
2 1/4 2 3/8 2 7/16	ST-36T ST-38T ST-39T	2-24T 2-26T 2-27T	5 5/8	1 1/4	1 5/8	1	4	2 1/2	1 3/8	2 3/8	4	4 1/16 4 1/8	1 1/16	5 1/8	5 3/4	7 5/8	2 15/16	2 11/16	13.4

FB-T Series Standard Duty Three-Bolt Flange Units...Skwezloc Locking

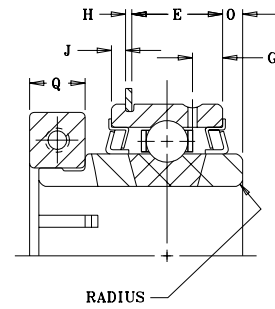
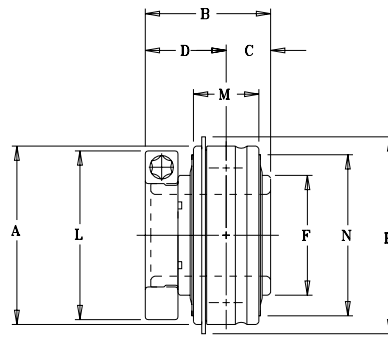
SHAFT DIAM. IN	PART NO.	BRG. NO.	Dimensions in Inches														UNIT WT.
			A	B	C	D	E	F	G	H	I	J	K	L	M	N	
3/4	FB-12T	2-012T	3	2 3/8	1 1/2	1 11/16	1 13/32	7/8	5/16	4 3/16	2 3/8	1	13/32	1 3/4	25/32	1/2	1.4
15/16 1	FB-15T FB-16T	2-015T 2-1T	3 3/8	2 1/2	1 5/8	1 13/16	1 9/16	1 1/8	3/8	4 3/4	2 3/4	1 1/8	13/32	1 15/16	7/8	9/16	2.3
1 1/8 1 3/16 1 1/4	FB-18T FB-19T FB-20RT	2-12T 2-13T 1-14T	3 3/4	2 3/4	1 7/8	2 1/16	1 11/16	1 1/4	3/8	2 3/64	3 7/32	1 1/4	13/32	2 3/16	15/16	5/8	3.2
1 1/4 1 3/8 1 7/16	FB-20T FB-22T FB-23T	2-14T 2-16T 2-17T	4 1/4	3 1/4	2	2 3/8	1 15/16	1 1/4	1/2	6 1/8	3 3/4	1 7/16	17/32	2 7/16 2 9/16	1 1/16	11/16	3.4
1 15/16 2	FB-31T FB-32RT	2-115T 1-2T	5 3/16	5 3/16	2 3/4	2 15/16	2 7/32	1 5/8	1/2	15/32	4 9/16	1 1/2	17/32	3 3/8	1 11/32	3/4	5.7

For Load Ratings, see page 77.

For Standard Duty SKWEZLOC Bearing Inserts, see page 76.

See page 70 for seal arrangements. For custom seals, see page 188.

SEALMASTER® MOUNTED BALL BEARINGS



ER-T Series Style "A" Extended Inner Ring Bearing Assemblies...Skwezloc Locking

SHAFT DIAM. IN	BRG NO.	Dimensions in Inches																UNIT WT.
		A	B	C	D	E	F	G	H	J	L	M	N	RAD	O	P	Q	
3/4	ER-12T	47MM 1.8504	1 9/32	13/32	7/8	31/64	1 3/16	11/64	3/64	3/32	1 3/4	5/8	1 5/8	.040	.094	2 1/16	3/8	.56
1	ER-16T	52MM 2.0472	1 7/16	33/64	59/64	39/64	1 3/8	13/64	3/64	3/32	1 15/16	3/4	1 55/64	.040	.135	2 17/64	3/8	.68
1 1/8 1 3/16	ER-18T ER-19T	62MM 2.4409	1 9/16	5/8	15/16	11/16	1 19/32	7/32	1/16	1/8	2 3/16	7/8	2 5/32	.040	.187	2 21/32	3/8	.93
1 1/4 1 3/8 1 7/16	ER-20T ER-22T ER-23T	72MM 2.8346	1 3/4	11/16	1 1/16	3/4	1 55/64	7/32	1/16	1/8	2 7/16 2 9/16	15/16	2 9/16	.040	.219	3 5/64	7/16	1.37
1 1/2	ER-24T	80MM 3.1496	2	3/4	1 1/4	29/32	2 1/16	1/4	1/16	1/8	2 11/16	1 3/32	2 53/64	.062	.203	3 13/32	7/16	2.00
1 11/16 1 3/4	ER-27T ER-28T	85MM 3.3465	2	3/4	1 1/4	29/32	2 19/64	1/4	1/16	1/8	2 15/16	1 3/32	3 1/16	.062	.203	3 19/32	7/16	2.31
1 15/16	ER-31T	90MM 3.5433	2 3/32	3/4	1 11/32	29/32	2 15/32	19/64	3/32	1/8	3 3/8	1 1/8	3 7/32	.062	.188	3 25/32	9/16	2.43
2 2 3/16	ER-32T ER-35T	100MM 3.9370	2 1/4	7/8	1 3/8	31/32	2 23/32	19/64	3/32	1/8	3 1/2 3 5/8	1 3/16	3 9/16	.080	.281	4 3/16	9/16	3.00
2 7/16	ER-39T	110MM 4.3307	2 5/8	1	1 5/8	1 1/32	2 63/64	19/64	3/32	1/8	4 1/8	1 1/4	3 15/16	.080	.375	4 37/64	11/16	4.00

See load ratings, see page 77.

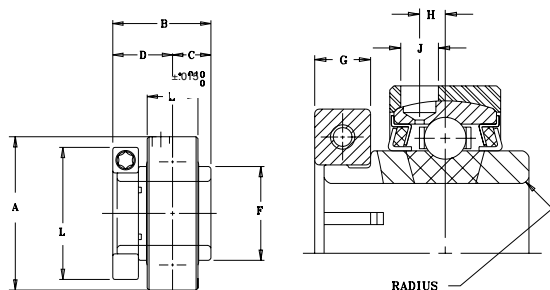
For standard duty SKWEZLOC Bearing Inserts, see page 76.

Series Style "A" "ER" Mounting Fits Table

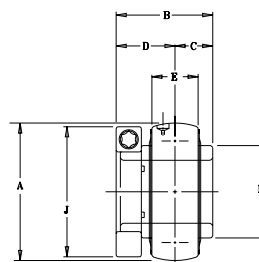
ER HOUSING DIMENSION RECOMMENDATIONS (INCHES)										
SHAFT SIZES	OUTSIDE DIA. OF CARTRIDGE		STATIONARY HOUSING				REVOLVING HOUSING			
	DIAMETERS		DIAMETERS		THEORETICAL FIT		DIAMETERS		THEORETICAL FIT	
	MIN.	MAX.	MIN.	MAX.	TIGHT	LOOSE	MIN.	MAX.	TIGHT	LOOSE
1/2 - 3/4	1.8499	1.8504	1.8503	1.8509	.0001	.0010	1.8498	1.8504	.0006	.0005
7/8 - 1	2.0466	2.0472	2.0471	2.0476	.0001	.0010	2.0466	2.0471	.0006	.0005
1 1/16 - 1 3/16	2.4403	2.4409	2.4408	2.4413	.0001	.0010	2.4403	2.4408	.0006	.0005
1 1/4 - 1 7/16	2.8340	2.8346	2.8345	2.8350	.0001	.0010	2.8340	2.8345	.0006	.0005
1 1/2 - 1 9/16	3.1490	3.1496	3.1495	3.1500	.0001	.0010	3.1490	3.1495	.0006	.0005
1 5/8 - 1 3/4	3.3457	3.3465	3.3464	3.3470	.0001	.0013	3.3458	3.3464	.0007	.0007
1 7/8 - 1 15/16	3.5425	3.5433	3.5432	3.5438	.0001	.0013	3.5426	3.5432	.0007	.0007
2 - 2 3/16	3.9362	3.9370	3.9369	3.9375	.0001	.0013	3.9363	3.9369	.0007	.0007
2 1/4 - 2 3/16	4.3299	4.3307	4.3306	4.3312	.0001	.0013	4.3300	4.3306	.0007	.0007
2 1/2 - 2 11/16	4.9203	4.9213	4.9211	4.9219	.0002	.0016	4.9204	4.9212	.0009	.0009
2 7/8 - 2 15/16	5.1171	5.1181	5.1179	5.1187	.0002	.0016	5.1172	5.1180	.0009	.0009
3 - 3 3/16	5.5108	5.5118	5.5116	5.5124	.0002	.0016	5.5109	5.5117	.0009	.0009
3 1/4 - 3 7/16	5.9045	5.9055	5.9053	5.9061	.0002	.0016	5.9046	5.9054	.0009	.0009
3 11/16 - 4	7.4791	7.4803	7.4801	7.4815	.0002	.0024	7.4791	7.4805	.0012	.0014

* To install an ER Type bearing into a housing, push ONLY on outer ring to avoid damaging balls and races.

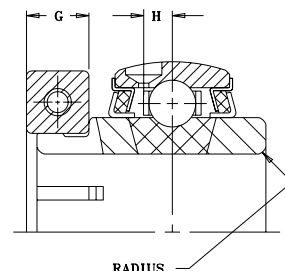
Note: This table is to be used as a guide for machining housings using the "ER" style "A" Extended Inner Ring Bearing.



AR-T



INSERT



RADIUS

Standard Duty Skwezloc Bearing Inserts...Skwezloc Locking

SHAFT DIAM.	BRG. NO.	Dimensions in Inches										TORX CAP SCREW	UNIT WT.
		A	B	C	D	E	F	G	H	J	RADIUS		
3/4	2-012T 1.8504	47MM	1 9/32	1/2	23/32	5/8	1 3/16	3/8	9/64	1 3/4	.040	8-32 X 5/8	.6
15/16 1	2-015T 2-1T 2.0472	52MM	1 7/16	9/16	13/16	11/16	1 3/8	3/8	11/64	1 15/16	.040	8-32 X 5/8	.8
1 1/8 1 3/16 1 1/4	2-12T 2-13T 1-14T 2.4409	62MM	1 9/16	5/8	7/8	7/8	1 19/32	3/8	7/32	2 3/16	.040	8-32 X 5/8	1.2
1 1/4 1 3/8 1 7/16	2-14T 2-16T 2-17T 2.8346	72MM	1 3/4	11/16	1	15/16	1 55/64	7/16	1/4	2 7/16 2 9/16	.040	10-24 X 3/4	1.8
1 1/2 1 9/16	2-18T 2-19T 3.1496	80MM	2	3/4	1 3/16	1 3/32	2 1/16	7/16	19/64	2 11/16	.062	10-24 X 3/4	2.2
1 5/8 1 11/16 1 3/4	2-110T 2-111T 2-112T 3.3465	85MM	2	3/4	1 3/16	1 3/32	2 19/64	7/16	19/64	2 13/16 2 15/16	.062	10-24 X 3/4	2.5
1 15/16 2	2-115T 1-2T 3.5433	90MM	2 3/32	3/4	1 9/32	1 1/8	2 15/32	9/16	17/64	3 3/8	.062	1/4-20 X 1	3.0
2 2 1/8 2 3/16	2-2T 2-22T 2-23T 3.9370	100MM	2 1/4	7/8	1 5/16	1 3/16	2 23/32	9/16	19/64	3 1/2 3 5/8	.080	1/4-20 X 1	3.4
2 1/4 2 3/8 2 7/16	2-24T 2-26T 2-27T 4.3307	110MM	2 5/8	1	1 9/16	1 1/4	2 63/64	11/16	21/64	4 1/16 4 1/8	.080	5/16 -18 X 1	4.9

For load ratings, see page 77.

AR-T Series Standard Duty Expansion Units...Skwezloc Locking

SHAFT DIAM.	BRG. NO.	Dimensions in Inches											TORX CAP SCREW	UNIT WT.
		*A	B	C	D	E	F	G	H	J	L	RADIUS		
3/4	AR-2-012T	2.062	1 9/32	1/2	23/32	49/64	1 3/16	3/8	9/64	1/4	1 3/4	.040	8-32 X 5/8	.9
15/16 1	AR-2-015T AR-2-1T	2.272	1 7/16	9/16	13/16	49/64	1 3/8	3/8	11/64	1/4	1 15/16	.040	8-32 X 5/8	1.2
1 1/8 1 3/16 1 1/4	AR-2-12T AR-2-13T AR-1-14T	2.687	1 9/16	5/8	7/8	61/64	1 19/32	3/8	7/32	1/4	2 3/16	.040	8-32 X 5/8	1.7
1 1/4 1 3/8 1 7/16	AR-2-14T AR-2-16T AR-2-17T	3.140	1 3/4	11/16	1	1 1/64	1 55/64	7/16	1/4	1/4	2 7/16 2 9/16	.040	10-24 X 3/4	2.4
1 1/2 1 9/16	AR-2-18T AR-2-19T	3.375	2	3/4	1 3/16	1 11/64	2 1/16	7/16	19/64	1/4	2 11/16	.062	10-24 X 3/4	3.1
1 5/8 1 11/16 1 3/4	AR-2-110T AR-2-111T AR-2-112T	3.562	2	3/4	1 3/16	1 11/64	2 19/64	7/16	19/64	1/4	2 13/16 2 15/16	.062	10-24 X 3/4	3.3
1 15/16 2	AR-2-115T AR-1-2T	3.875	2 3/32	3/4	1 9/32	1 13/64	2 15/32	9/16	17/64	11/32	3 3/8	.062	1/4-20 X 1	4.1
2 2 1/8 2 3/16	AR-2-2T AR-2-22T AR-2-23T	4.250	2 1/4	7/8	1 5/16	1 17/64	2 23/32	9/16	19/64	11/32	3 1/2 3 5/8	.080	1/4-20 X 1	5.0
2 1/4 2 3/8 2 7/16	AR-2-24T AR-2-26T AR-2-27T	4.719	2 5/8	1	1 9/16	1 21/64	2 63/64	11/16	21/64	11/32	4 1/16 4 1/8	.080	5/16 -18 X 1	7.0

* Tolerance +.000", -.0005"

LOAD RATING TABLES - Standard Duty SKWEZLOC

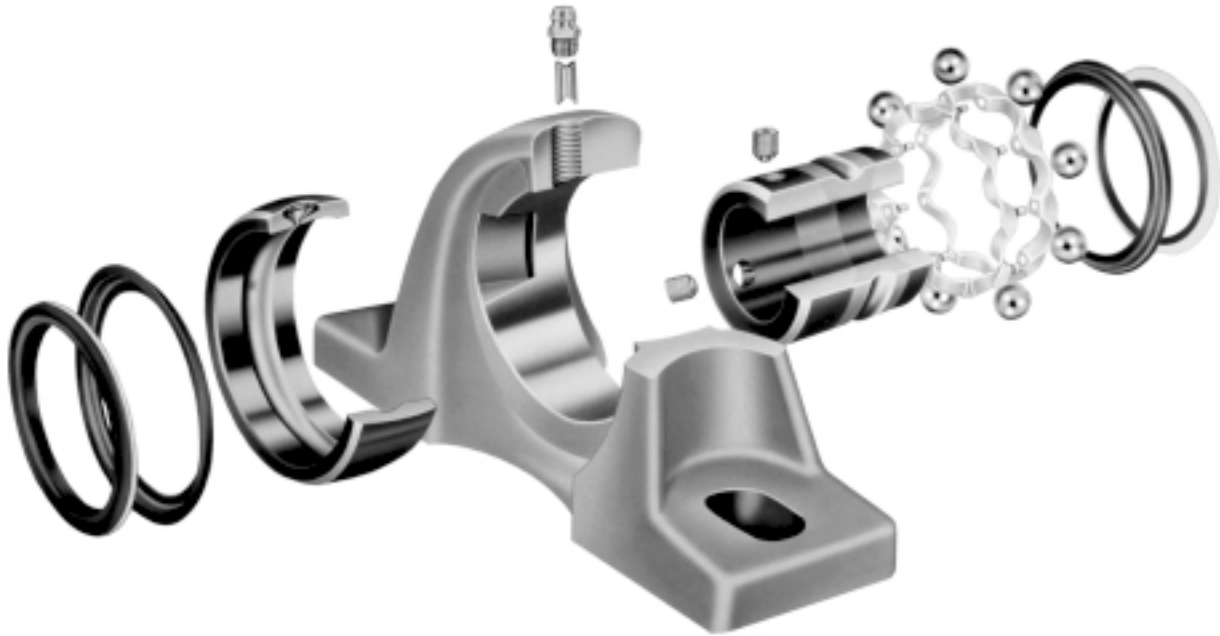
The shaded area indicates the maximum speed ratings for SKWEZLOC (applicable on sizes available). All speeds listed are for the standard felt seal. See the seal selection for alternate seals.

Values in the table represent loads at ideal conditions with press fit mounting to the shaft. ABMA recommends de-rating of slip mounted bearings. To obtain de-rated load, divide load in table by 1.3. Values in the table represent equivalent radial loads only. For combined load determination, see **THE BEARING SELECTION SECTION**. Areas designated by "-" exceeds maximum value for standard bearings. Consult **SEALMASTER Application Engineering** for load and speed applications not covered in this table.

NORMAL DUTY			REVOLUTIONS PER MINUTE																
SHAFT SIZE	INSERT #	ER #	L10 HOURS	50	150	500	1000	1750	2000	2500	3500	4500	5000	5500	6000	6500	7500	8000	10000
3/4	2-012T	ER-12T	5000	619	619	491	390	324	310	287	257	236	228	221	215	209	199	195	181
			10000	583	583	390	310	257	246	228	204	188	181	175	170	166	158	154	143
			30000	583	404	270	215	178	170	158	141	130	126	122	118	115	109	107	100
			50000	491	341	228	181	150	144	133	119	110	106	103	100	97	92	90	84
			100000	390	270	181	144	119	114	106	95	87	84	81	79	77	73	71	67
15/16 1	2-015T 2-1T	ER-16T	5000	664	664	527	418	347	332	308	276	253	245	237	230	224	213	213	-
			10000	625	625	418	332	276	264	245	219	201	194	188	183	177	169	169	-
			30000	625	433	290	230	191	183	170	152	139	135	130	127	123	117	117	-
			50000	527	366	245	194	161	154	143	128	118	114	110	107	104	99	99	-
			100000	418	290	194	154	128	122	114	102	93	90	87	85	82	78	78	-
1 1/8 1 3/16	2-12T 2-13T	ER-18T ER-19T	5000	1039	1039	825	654	543	519	482	431	396	383	370	360	351	334	334	-
			10000	978	978	654	519	431	412	383	342	315	304	294	286	278	265	265	-
			30000	978	678	454	360	299	286	265	237	218	211	204	198	193	184	184	-
			50000	825	572	383	304	252	241	224	200	184	178	172	167	163	155	155	-
			100000	654	454	304	241	200	191	178	159	146	141	136	133	129	123	123	-
1 1/4 1 3/8 1 7/16	2-14T 2-16T 2-17T	ER-20T ER-22T ER-23T	5000	1290	1290	1088	864	717	686	636	569	523	505	489	475	463	-	-	-
			10000	1290	1290	864	686	569	544	505	452	415	401	388	377	367	-	-	-
			30000	1290	895	599	475	394	377	350	313	288	278	269	262	255	-	-	-
			50000	1088	755	505	401	333	318	295	264	243	234	227	221	215	-	-	-
			100000	864	599	401	318	264	253	234	210	193	186	180	175	171	-	-	-
1 1/2	2-18T	ER-24T	5000	1638	1638	1381	1096	910	870	808	722	664	641	621	603	-	-	-	-
			10000	1638	1638	1096	870	722	691	641	573	527	509	493	479	-	-	-	-
			30000	1638	1136	760	603	501	479	445	397	365	353	342	332	-	-	-	-
			50000	1381	958	641	509	422	404	375	335	308	298	288	280	-	-	-	-
			100000	1096	760	509	404	335	321	298	266	245	236	229	222	-	-	-	-
1 5/8 1 11/16 1 3/4	2-110T 2-111T 2-112T	ER-27T ER-28T	5000	1763	1763	1487	1180	979	937	870	777	715	690	669	-	-	-	-	-
			10000	1763	1763	1180	937	777	744	690	617	567	548	531	-	-	-	-	-
			30000	1763	1222	818	650	539	516	479	428	393	380	368	-	-	-	-	-
			50000	1487	1031	690	548	455	435	404	361	332	320	310	-	-	-	-	-
			100000	1180	818	548	435	361	345	320	286	263	254	246	-	-	-	-	-
1 15/16	2-115T	ER-31T	5000	1760	1760	1485	1178	978	935	868	776	714	689	-	-	-	-	-	-
			10000	1760	1760	1178	935	776	742	689	616	567	547	-	-	-	-	-	-
			30000	1760	1221	817	649	538	515	478	427	393	379	-	-	-	-	-	-
			50000	1485	1029	689	547	454	434	403	360	331	320	-	-	-	-	-	-
			100000	1178	817	547	434	360	345	320	286	263	254	-	-	-	-	-	-
2 2 1/8 2 3/16	2-2T 2-22T 2-23T	ER-32T ER-35T	5000	2176	2176	1835	1457	1209	1156	1073	1010	959	-	-	-	-	-	-	-
			10000	2176	2176	1457	1156	959	918	852	802	762	-	-	-	-	-	-	-
			30000	2176	1509	1010	802	665	636	591	556	528	-	-	-	-	-	-	-
			50000	1835	1273	852	676	561	537	498	469	445	-	-	-	-	-	-	-
			100000	1457	1010	676	537	445	418	389	360	331	-	-	-	-	-	-	-
NORMAL DUTY			REVOLUTIONS PER MINUTE																
SHAFT SIZE	INSERT #	ER #	L10 HOURS	50	150	250	500	750	1000	1250	1500	1750	2000	2500	3000	3500	4000	4500	-
2 1/4 2 3/8 2 7/16	2-24T 2-26T 2-27T	ER-36T ER-38T ER-39T	5000	2631	2631	2631	2219	1938	1761	1635	1538	1461	1398	1298	1221	1160	1109	-	-
			10000	2631	2631	2219	1761	1538	1398	1298	1221	1160	1109	1030	969	921	881	-	-
			30000	2631	1824	1538	1221	1067	969	900	847	804	769	714	672	638	611	-	-
			50000	2219	1538	1298	1030	900	817	759	714	678	649	602	567	538	515	-	-
			100000	1761	1221	1030	817	714	649	602	567	538	515	478	450	427	409	-	-

For bearing selection and engineering, see page 176.

SEALMASTER GOLD...NO EQUAL DIFFERENT BY DESIGN

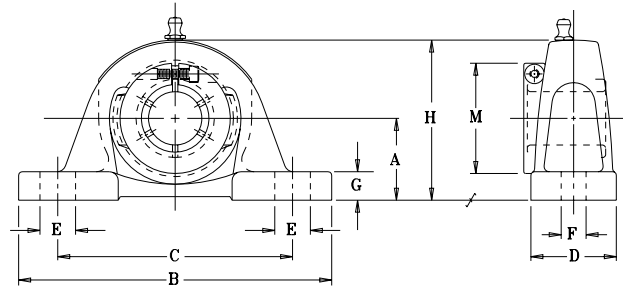
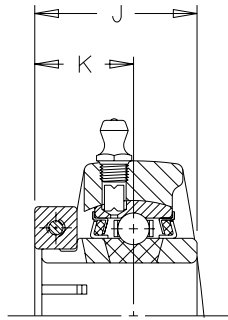


The Sealmaster Gold Bearing *contains features that work together to solve problems in a variety of applications.*

The Gold Platform also allows for *modifications and customization to suit specific applications.*

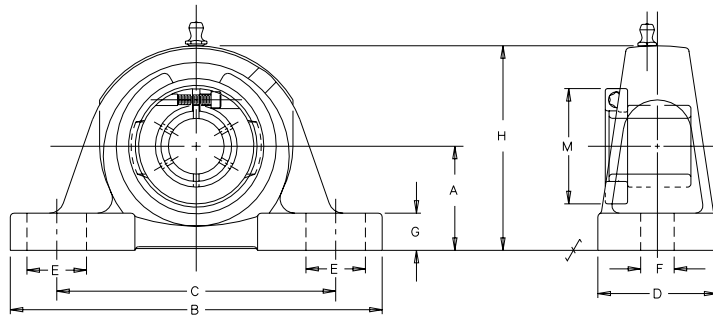
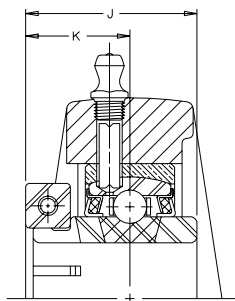
When the operating conditions demand more than off the shelf, *Sealmaster has become known as the problem solver.* Over 15,000 customized designs are running today to prove the claim...

SEALMASTER®
GOLD NO EQUAL



MP-T Series Medium Duty Pillow Blocks...Skwezloc Locking

SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions in Inches													BOLT SIZE IN.	UNIT WT.
			A	B	C		D	E	F	G	H	J	K	M			
					MIN.	MAX.											
1	MP-16T	3-1T	1 3/4	6 1/4	4 3/16	5 3/16	2	1	9/16	5/8	3 7/16	1 9/16	15/16	2 1/16	1/2	4.2	
1 3/16 1 1/4	MP-19T MP-20T	3-13T 2-14T	1 7/8	6 7/8	4 1/2	5 1/2	2 1/4	1	9/16	11/16	3 13/16	1 3/4	1 1/16	2 7/16	1/2	5.7	
1 7/16	MP-23T	3-17T	2 1/8	8	5	6 3/8	2 1/4	1 3/16	9/16	3/4	4 3/16	2	1 1/4	2 11/16	1/2	7.1	
1 1/2	MP-24T	3-18T	2 5/16	8 3/4	5 1/2	6 3/4	2 5/8	1 1/4	11/16	13/16	4 9/16	2	1 1/4	2 13/16	5/8	9.3	
1 11/16 1 3/4	MP-27T MP-28T	3-111T 3-112T	2 5/16	8 3/4	5 7/16	6 13/16	2 5/8	1 5/16	11/16	13/16	4 5/8	2 3/32	1 11/32	3 1/4	5/8	10.1	
1 15/16 2	MP-31T MP-32T	3-115T 2-2T	2 1/2	9 1/2	5 15/16	7 9/16	2 7/8	1 7/16	11/16	7/8	5 3/32	2 1/4	1 3/8	3 1/2	5/8	12.3	
2 3/16 2 1/4	MP-35T MP-36T	3-23T 2-24T	2 3/4	10 1/4	6 9/16	7 15/16	3 1/8	1 7/16	13/16	1 1/16	5 5/8	2 5/8	1 5/8	4 1/16	3/4	17.4	



EMP-T Series Expansion Type Pillow Blocks...Skwezloc Locking

SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions in Inches												LIMIT OF EXPAN.	BOLT SIZE IN.	UNIT WT.
			A	B	C		D	E	F	G	H	J	K	M			
					MIN.	MAX.											
15/16 1	EMP-15T EMP-16T	AR-2-015T AR-2-1T	1 3/4	6 1/4	4 3/16	5 3/16	2	1	9/16	5/8	3 7/16	1 7/16	7/8	1 15/16	1/8	1/2	3.9
1 3/16	EMP-19T	AR-2-13T	1 7/8	6 7/8	4 1/2	5 1/2	2 1/4	1	9/16	11/16	3 13/16	1 9/16	15/16	2 3/16	1/8	1/2	5.7
1 7/16	EMP-23T	AR-2-17T	2 1/8	8	5	6 3/8	2 1/4	1 3/16	9/16	3/4	4 3/16	1 3/4	1 1/16	2 9/16	1/8	1/2	7.1
1 1/2	EMP-24T	AR-2-18T	2 5/16	8 3/4	5 1/2	6 3/4	2 5/8	1 1/4	11/16	13/16	4 9/16	2	1 1/4	2 11/16	1/8	5/8	9.3
1 11/16	EMP-27T	AR-2-111T	2 5/16	8 3/4	5 7/16	6 13/16	2 5/8	1 5/16	11/16	13/16	4 5/8	2	1 1/4	2 15/16	1/8	5/8	9.5
1 15/16	EMP-31T	AR-2-115T	2 1/2	9 1/2	5 15/16	7 9/16	2 7/8	1 7/16	11/16	7/8	5 3/32	2 3/32	1 11/32	3 3/8	3/16	5/8	12.2
2 3/16	EMP-35T	AR-2-23T	2 3/4	10 1/4	6 9/16	7 15/16	3 1/8	1 7/16	13/16	1 1/16	5 5/8	2 1/4	1 3/8	3 5/8	3/16	3/4	16.2
2 7/16	EMP-39T	AR-2-27T	3	11 1/4	7 1/8	8 7/8	3 1/4	1 5/8	13/16	1 1/16	6 1/4	2 5/8	1 5/8	4 1/8	3/16	3/4	21.2

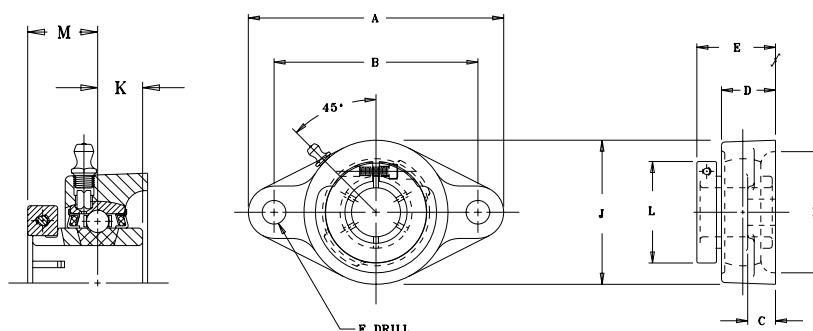
For Load Ratings, see page 84.

For Medium Duty SKWEZLOC Bearing Inserts, see page 83. See page 70 for seal arrangements. For custom seals, see page 188.



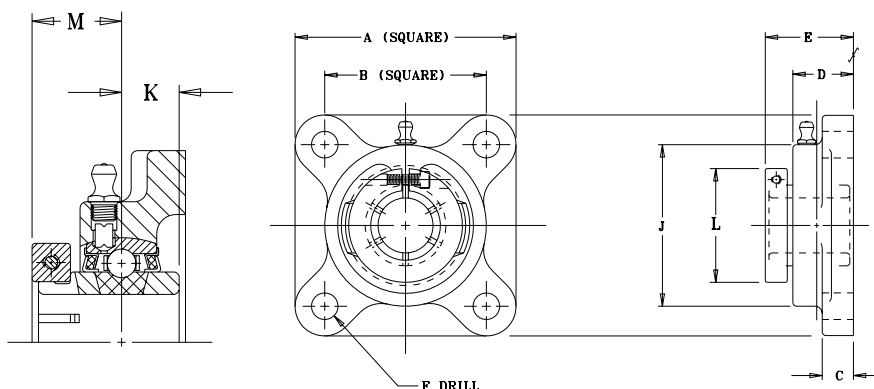
MOUNTED BALL BEARINGS

SEALMASTER®



MSFT-T Series Medium Duty Two-Bolt Flange Units...Skwezloc Locking

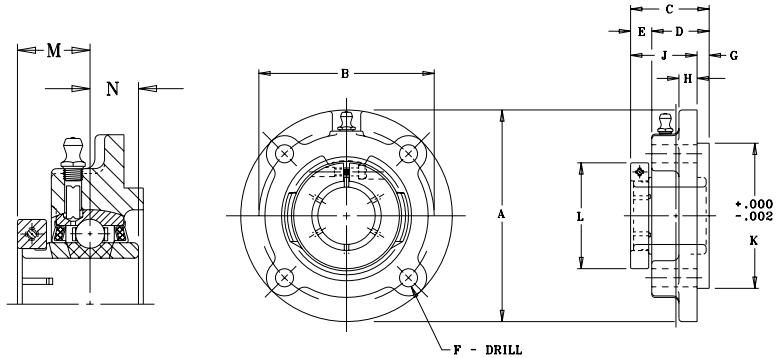
SHAFT DIAM. IN	PART NO.	BRG. NO.	Dimensions in Inches											UNIT WT.
			A	B	C	D	E	F	H CORED	J	K	L	M	
1	MSFT-16T	3-1T	5 9/16	4 19/32	17/32	1 11/64	1 5/8	15/32	2 7/8	3 1/4	5/8	2 1/16	15/16	2.6
1 3/16 1 1/4	MSFT-19T MSFT-20T	3-13T 2-14T	6 1/8	5 1/8	9/16	1 11/32	1 13/16	17/32	3 5/16	3 3/4	11/16	2 7/16	1 1/16	3.7
1 7/16	MSFT-23T	3-17T	6 3/4	5 21/32	9/16	1 1/2	2 5/64	17/32	3 1/2	4 1/8	3/4	2 11/16	1 1/4	4.9
1 1/2	MSFT-24T	3-18T	7 1/16	5 27/32	9/16	1 9/16	2 7/64	19/32	3 7/8	4 3/8	3/4	2 13/16	1 1/4	5.5
1 11/16 1 3/4	MSFT-27T MSFT-28T	3-111T 3-112T	7 7/16	6 3/16	9/16	1 9/16	2 7/32	19/32	4	4 9/16	3/4	3 1/4	1 11/32	6.2
1 15/16 2	MSFT-31T MSFT-32T	3-115T 2-2T	8 1/2	7 1/4	13/16	1 3/4	2 3/8	21/32	4 1/4	5 1/4	7/8	3 1/2	1 3/8	9.2



MSF-T Series Medium Duty Four-Bolt Flange Units...Skwezloc Locking

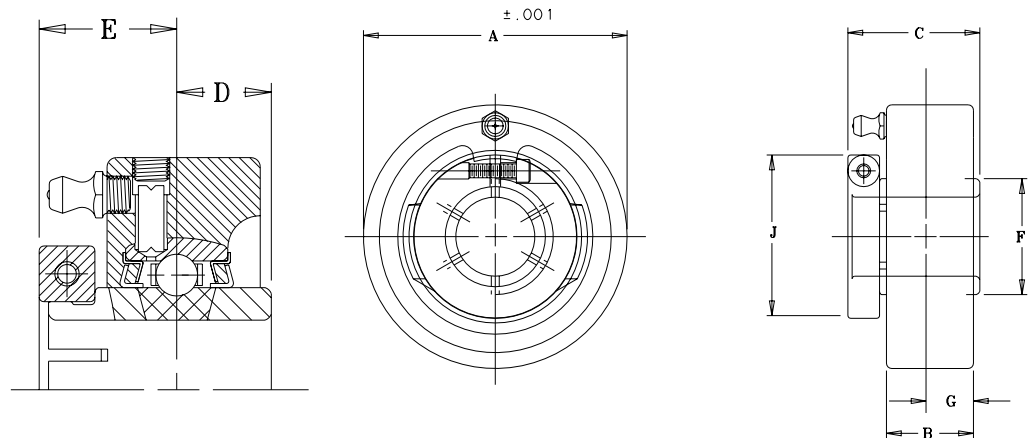
SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions in Inches										UNIT WT.
			A	B	C	D	E	F	J	K	L	M	
1	MSF-16T	3-1T	4 1/4	3 1/4	17/32	1 11/64	1 5/8	15/32	3 7/32	5/8	2 1/16	15/16	3.8
1 3/16 1 1/4	MSF-19T MSF-20T	3-13T 2-14T	4 5/8	3 5/8	9/16	1 11/32	1 13/16	17/32	3 23/32	11/16	2 7/16	1 1/16	4.4
1 7/16	MSF-23T	3-17T	5 1/8	4	9/16	1 1/2	2 5/64	17/32	4 5/64	3/4	2 11/16	1 1/4	5.8
1 1/2	MSF-24T	3-18T	5 3/8	4 1/8	9/16	1 9/16	2 7/64	19/32	4 21/64	3/4	2 13/16	1 1/4	6.3
1 11/16 1 3/4	MSF-27T MSF-28T	3-111T 3-112T	5 5/8	4 3/8	9/16	1 9/16	2 7/32	19/32	4 9/16	3/4	3 1/4	1 11/32	7.4
1 15/16 2	MSF-31T MSF-32T	3-115T 2-2T	6 3/8	5 1/8	13/16	1 3/4	2 3/8	21/32	5 1/4	7/8	3 1/2	1 3/8	11.1
2 3/16 2 1/4	MSF-35T MSF-36T	3-23T 2-24T	6 7/8	5 5/8	13/16	1 15/16	2 3/4	21/32	5 7/16	1	4 1/16	1 5/8	13.3

For Load Ratings, see page 84. For Medium Duty SKWEZLOC Bearing Inserts, see page 83. See page 70 for seal arrangements. For custom seals, see page 188.



MFC-T Series Medium Duty Flange Cartridge Units...Skwezloc Locking

SHAFT DIAM. IN	PART NO.	BRG. NO.	Dimensions In Inches													UNIT WT.
			A	B	C	D	E	F	G	H	J	K	L	M	N	
1	MFC-16T	3-1T	4 3/8	3 5/8	1 5/8	1 3/16	7/16	3/8	1/4	3/8	1 3/8	3.000	2 1/16	15/16	5/8	3.2
1 3/16 1 1/4	MFC-19T MFC-20T	3-13T 2-14T	5	4 1/8	1 3/4	1 1/4	1/2	7/16	3/8	3/8	1 3/8	3.375	2 7/16	1 1/16	11/16	4.2
1 7/16 1 1/2	MFC-23T MFC-24T	3-17T 2-18T	5 1/4	4 3/8	2	1 15/32	17/32	7/16	7/16	7/16	1 9/16	3.625	2 11/16	1 1/4	3/4	5.2
1 1/2	MFC-24HT	3-18T	6 1/8	5 1/8	2	1 7/16	9/16	1/2	7/16	7/16	1 9/16	4.250	2 13/16	1 1/4	3/4	6.3
1 11/16 1 3/4	MFC-27T MFC-28T	3-111T 3-112T	6 1/8	5 1/8	2 3/32	1 15/32	5/8	1/2	15/32	7/16	1 5/8	4.250	3 1/4	1 11/32	3/4	7.1
1 15/16 2	MFC-31T MFC-32T	3-115T 2-2T	6 3/8	5 3/8	2 1/4	1 5/8	5/8	1/2	5/8	7/16	1 5/8	4.500	3 1/2	1 3/8	7/8	8.1
2 3/16 2 1/4	MFC-35T MFC-36T	3-23T 2-24T	7 1/8	6	2 5/8	1 7/8	3/4	9/16	7/8	1/2	1 3/4	5.000	4 1/16	1 5/8	1	11.7



MSC-T Series Medium Duty Cartridge Units...Skwezloc Locking

SHAFT DIAM. IN	PART NO.	BRG. NO.	Dimensions In Inches								UNIT WT.
			A	B	C	D	E	F	G	J	
1 *	MSC-16T	3-1T	3 1/2	1 3/32	1 9/16	5/8	15/16	1 19/32	9/16	2 1/16	2.5
1 3/16 1 1/4	MSC-19T MSC-20T	3-13T 2-14T	3 7/8	1 7/32	1 3/4	11/16	1 1/16	1 55/64	5/8	2 7/16	3.2
1 7/16	MSC-23T	3-17T	4 3/16	1 15/32	2	3/4	1 1/4	2 1/16	3/4	2 11/16	4.1
1 1/2	MSC-24T	3-18T	4 3/8	1 7/16	2	3/4	1 1/4	2 19/64	23/32	2 13/16	4.5
1 11/16 1 3/4	MSC-27T MSC-28T	3-111T 3-112T	4 9/16	1 15/32	2 3/32	3/4	1 11/32	2 15/32	3/4	3 1/4	4.9
1 15/16 2	MSC-31T MSC-32T	3-115T 2-2T	4 15/16	1 19/32	2 1/4	7/8	1 3/8	2 23/32	27/32	3 1/2	5.8
2 3/16 2 1/4	MSC-35T MSC-36T	3-23T 2-24T	5 7/8	1 5/8	2 5/8	1	1 5/8	2 63/64	13/16	4 1/16	9.0

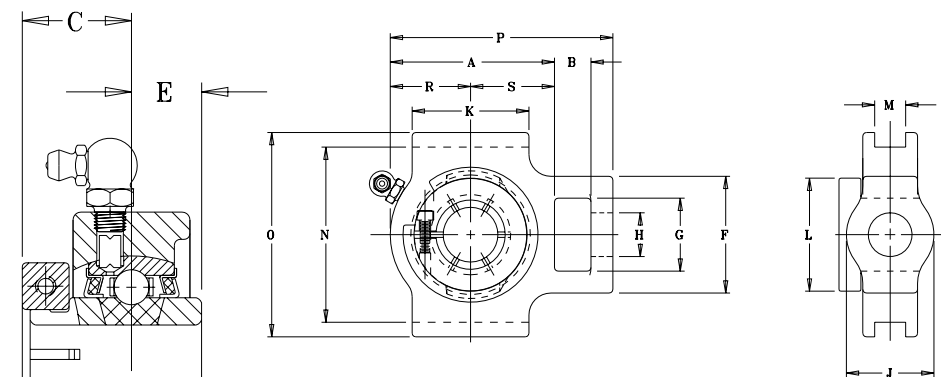
* Misalignment capability reduced.

For Load Ratings, see page 84. For Medium Duty SKWEZLOC Bearing Inserts, see page 83. See page 70 for seal arrangements. For custom seals, see page 188.



MOUNTED BALL BEARINGS

SEALMASTER®



MST-T Series Medium Duty Take-Up Units...Skwezloc Locking

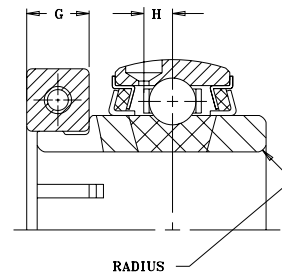
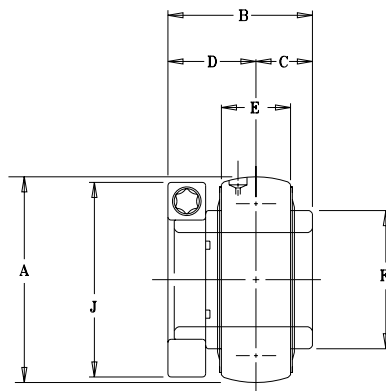
SHAFT DIAM.	PART NO.	BRG. NO.	Dimensions In Inches																	UNIT WT.
			A	B	C	E	F	G	H Core	J Hub	K	L	M	N	O	P	R	S		
IN																				
1	MST-16T	3-1T	3 7/16	5/8	15/16	5/8	2 3/16	1 7/16	7/8	1 3/4	2 1/4	2 1/16	17/32	3-1/2	4	4 7/16	1 11/16	1 3/4	3.6	
1 3/16 1 1/4	MST-19T MST-20T	3-13T 2-14T	3 15/16	5/8	1 1/16	11/16	2 1/2	1 7/16	7/8	1 3/4	2 1/2	2 7/16	17/32	3-1/2	4	5 1/16	2	1 15/16	4.3	
1 7/16	MST-23T	3-17T	4 5/16	3/4	1 1/4	3/4	3 1/4	1 15/16	1 1/8	2 1/8	3 1/4	2 11/16	11/16	4	4 1/2	5 11/16	2 3/16	2 1/8	6.3	
1 1/2	MST-24T	3-18T	4 5/16	3/4	1 1/4	3/4	3 1/4	1 15/16	1 1/8	2 3/16	3 1/4	2 13/16	11/16	4	4 5/8	5 11/16	2 1/4	2 1/16	6.3	
1 11/16 1 3/4	MST-27T MST-28T	3-111T 3-112T	4 1/2	3/4	1 11/32	3/4	3 1/4	1 15/16	1 1/8	2 3/16	3 3/8	3 1/4	11/16	4	4 5/8	5 7/8	2 5/16	2 3/16	6.6	
1 15/16 2	MST-31T MST-32T	3-115T 2-2T	5	1	1 3/8	7/8	4	2 1/2	1 3/8	2 1/4	3 3/4	3 1/2	1 1/16	5 1/8	5 3/4	6 3/4	2 9/16	2 7/16	10.4	
2 3/16 2 1/4	MST-35T MST-36T	3-23T 2-24T	5 3/8	1 1/4	1 5/8	1	4	2 1/2	1 3/8	2 3/8	4	4 1/16	1 1/16	5 1/8	5 3/4	7 5/8	2 15/16	2 11/16	13.4	

For load ratings, see page 84.

For medium duty SKWEZLOC Bearing Inserts, see page 83.

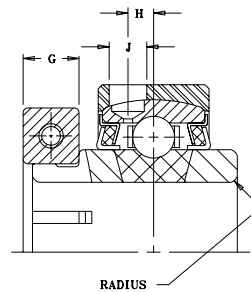
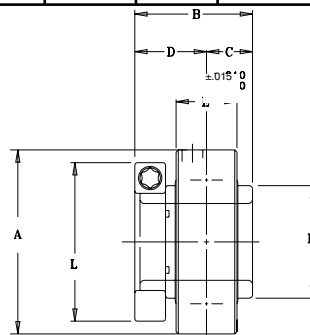
See page 70 for seal configurations.

For custom seals, see page 188.



Medium Duty Bearing Inserts...Skwezloc Locking

SHAFT DIAM. INCH	BRG. NO.	Dimensions in Inches										TORX CAP SCREW	UNIT WT.
		A	B	C	D	E	F	G	H	J	RADIUS		
1	3-1T	62MM 2.4409	1 9/16	5/8	15/16	7/8	1 19/32	3/8	7/32	2 1/16	.040	8-32 X 5/8	1.2
1 3/16	3-13T	72MM 2.8346	1 3/4	11/16	1/16	15/16	1 55/64	7/16	1/4	2 7/16	.040	10-24 X 3/4	1.8
1 7/16	3-17T	80MM 3.1496	2	3/4	1 1/4	1 3/32	2 1/16	7/16	19/64	2 11/16	.062	10-24 X 3/4	2.2
1 1/2	3-18T	85MM 3.3465	2	3/4	1 1/4	1 3/32	2 19/64	7/16	19/64	2 13/16	.062	10-24 X 3/4	2.5
1 11/16 1 3/4	3-111T 3-112T	90MM 3.5433	2 3/32	3/4	1 11/32	1 1/8	2 15/32	9/16	17/64	3 1/4	.062	1/4-20 X 1	3.0
1 15/16	3-115T	100MM 3.9370	2 1/4	7/8	1 3/8	1 3/16	2 23/32	9/16	19/64	3 1/2	.080	1/4-20 X 1	
2 3/16	3-23T	110MM 4.3307	2 5/8	1	1 5/8	1 1/4	2 63/64	11/16	21/64	4 1/16	.080	5/16 -18 X 1	4.9



AR-T Series Medium Duty Expansion Units...Skwezloc Locking

SHAFT DIAM. INCH	BRG. NO. AR-	Dimensions in Inches											TORX CAP SCREW	UNIT WT.
		*A	B	C	D	E	F	G	H	J	L	RADIUS		
1	AR-3-1T	2.687	1 9/16	5/8	15/16	61/64	1 19/32	3/8	7/32	1/4	2 1/16	.040	8-32 X 5/8	1.7
1 3/16	AR-3-13T	3.140	1 3/4	11/16	1 1/16	1 1/64	1 55/64	7/16	1/4	1/4	2 7/16	.040	10-24 X 3/4	2.4
1 7/16	AR-3-17T	3.375	2	3/4	1 1/4	1 11/64	2 1/16	7/16	19/64	1/4	2 11/16	.062	10-24 X 3/4	3.1
1 1/2	AR-3-18T	3.562	2	3/4	1 1/4	1 11/64	2 19/64	7/16	19/64	1/4	2 13/16	.062	10-24 X 3/4	3.3
1 11/16 1 3/4	AR-3-111T AR-3-112T	3.875	2 3/32	3/4	1 11/32	1 13/64	2 15/32	9/16	17/64	11/32	3 1/4	.062	1/4-20 X 1	4.1
1 15/16	AR-3-115T	4.250	2 1/4	7/8	1 3/8	1 17/64	2 23/32	9/16	19/64	11/32	3 1/2	.080	1/4-20 X 1	5.0
2 3/16	AR-3-23T	4.718	2 5/8	1	1 5/8	1 21/64	2 63/64	11/16	21/64	11/32	4 1/16	.080	5/16 -18 X 1	7.0

* Tolerance +.000", -.005"

For Load Ratings, see page 84. See page 70 for seal arrangements. For custom seals, see page 188.

LOAD RATING TABLES - Medium Duty SKWEZLOC

The shaded area indicates the maximum speed ratings for SKWEZLOC (applicable on sizes available). All speeds listed are for the standard felt seal. See the seal selection for alternate seals.

Values in the table represent loads at ideal conditions with press fit mounting to the shaft. ABMA recommends de-rating of slip mounted bearings. To obtain de-rated load, divide load in table by 1.3. Values in the table represent equivalent radial loads only. For combined load determination, see **THE BEARING SELECTION SECTION**. Areas designated by "-" exceeds maximum value for standard bearings. Consult **SEALMASTER Application Engineering** for load and speed applications not covered in this table.

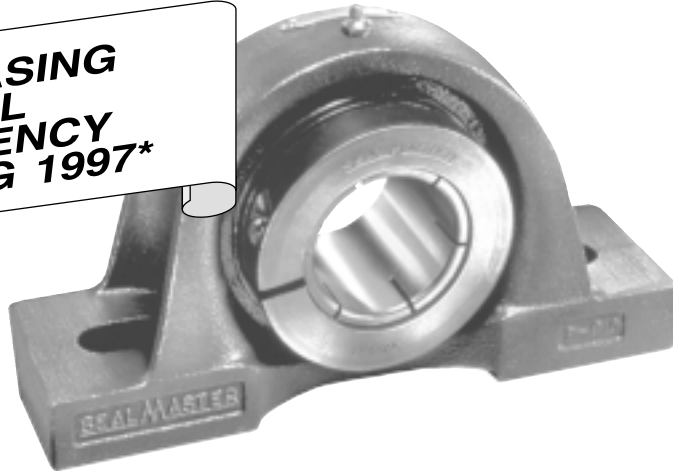
MEDIUM DUTY		REVOLUTIONS PER MINUTE																
SHAFT SIZE	INSERT #	L10 HOURS	50	150	500	1000	1750	2000	2500	3500	4500	5000	5500	6000	6500	7500	8000	10000
1	3-1T	5000	1039	1039	825	654	543	519	482	431	396	383	370	360	351	334	334	-
		10000	978	978	654	519	431	412	383	342	315	304	294	286	278	265	265	-
		30000	978	678	454	360	299	286	265	237	218	211	204	198	193	184	184	-
		50000	825	572	383	304	252	241	224	200	184	178	172	167	163	155	155	-
		100000	654	454	304	241	200	191	178	159	146	141	136	133	129	123	123	-
1 3/16	3-13T	5000	1290	1290	1088	864	717	686	636	569	523	505	489	475	463	-	-	-
		10000	1290	1290	864	686	569	544	505	452	415	401	388	377	367	-	-	-
		30000	1290	895	599	475	394	377	350	313	288	278	269	262	255	-	-	-
		50000	1088	755	505	401	333	318	295	264	243	234	227	221	215	-	-	-
		100000	864	599	401	318	264	253	234	210	193	186	180	175	171	-	-	-
1 7/16	3-17T	5000	1638	1638	1381	1096	910	870	808	722	664	641	621	603	-	-	-	-
		10000	1638	1638	1096	870	722	691	641	573	527	509	493	479	-	-	-	-
		30000	1638	1136	760	603	501	479	445	397	365	353	342	332	-	-	-	-
		50000	1381	958	641	509	422	404	375	335	308	298	288	280	-	-	-	-
		100000	1096	760	509	404	335	321	298	266	245	236	229	222	-	-	-	-
1 1/2	3-18T	5000	1763	1763	1487	1180	979	937	870	777	715	690	669	-	-	-	-	-
		10000	1763	1763	1180	937	777	744	690	617	567	548	531	-	-	-	-	-
		30000	1763	1222	818	650	539	516	479	428	393	380	368	-	-	-	-	-
		50000	1487	1031	690	548	455	435	404	361	332	320	310	-	-	-	-	-
		100000	1180	818	548	435	361	345	320	286	263	254	246	-	-	-	-	-
1 11/16 1 3/4	3-111T 3-112T	5000	1760	1760	1485	1178	978	935	868	776	714	689	-	-	-	-	-	-
		10000	1760	1760	1178	935	776	742	689	616	567	547	-	-	-	-	-	-
		30000	1760	1221	817	649	538	515	478	427	393	379	-	-	-	-	-	-
		50000	1485	1029	689	547	454	434	403	360	331	320	-	-	-	-	-	-
		100000	1178	817	547	434	360	345	320	286	263	254	-	-	-	-	-	-
1 15/16	3-115T	5000	2176	2176	1835	1457	1209	1156	1073	1010	959	-	-	-	-	-	-	-
		10000	2176	2176	1457	1156	959	918	852	802	762	-	-	-	-	-	-	-
		30000	2176	1509	1010	802	665	636	591	556	528	-	-	-	-	-	-	-
		50000	1835	1273	852	676	561	537	498	469	445	-	-	-	-	-	-	-
MEDIUM DUTY		REVOLUTIONS PER MINUTE																
SHAFT SIZE	INSERT #	L10 HOURS	50	150	250	500	750	1000	1250	1500	1750	2000	2500	3000	3500	4000	4500	-
2 3/16	3-23T	5000	2631	2631	2631	2219	1938	1761	1635	1538	1461	1398	1298	1221	1160	1109	-	-
		10000	2631	2631	2219	1761	1538	1398	1298	1221	1160	1109	1030	969	921	881	-	-
		30000	2631	1824	1538	1221	1067	969	900	847	804	769	714	672	638	611	-	-
		50000	2219	1538	1298	1030	900	817	759	714	678	649	602	567	538	515	-	-
		100000	1761	1221	1030	817	714	649	602	567	538	515	478	450	427	409	-	-

For bearing selection and engineering, see page 176.

SEALMASTER® FEATURED PRODUCTS

METRIC - SKWEZ MOUNTED BALL BEARINGS

INCREASING
GLOBAL
EFFICIENCY
SPRING 1997*



The first HIGH PERFORMANCE **HARD METRIC**
MOUNTED BALL BEARINGS...

...Are now available with the patented SKWEZLOC Locking Collar.

The Key to Overall

Locking Performance...

The patented design of the unique SKWEZLOC locking collar puts it a *world apart* from ordinary shaft locking devices. Six equally-spaced centering surfaces (inner race fingers or extension tabs) grip the shaft and hold it tight, locating it in near-perfect concentricity with the race. Fretting corrosion is reduced. Balancing of the assembly is readily attained and locking reliability is maintained.

"Putting the Collar"

On Vibration...

The design of the unique SKWEZLOC collar and the near-perfect shaft centering greatly reduces out of balance vibrational forces that tend to shorten bearing life. Fretting corrosion is also minimized.

HARD METRIC METRIC - SKWEZ

- **Metric Dimensions.**
 - Lubrication Fitting.
 - Capscrews.
 - Collar.
- **Metric Bore.**
- **Collar Distinction.**
- **Special Metric SKWEZLOC Permanent Metal Nameplate.**

Fast, Easy Installation...

Once the bearing is properly located, simply slide the SKWEZLOC locking collar into position over the extended end of the inner race. A single cap screw is properly tightened to securely lock the bearing to the shaft. Shaft release is just as easy by simply loosening the single socket head cap screw. (see page 200 for detailed installation instructions).

Simplified

Repositioning...

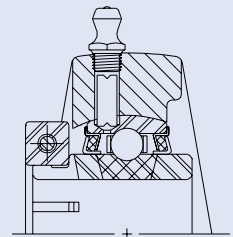
Some applications require the frequent repositioning of the bearing on the shaft. Eccentric collars with locking setscrews may leave a burr which can cause problems. Because of the uniform concentric hold of the SKWEZLOC collar, repositioning is easy.

Because the World has become smaller, SEALMASTER has developed a hard metric product line. Ideal for replacing problematic bearings on imported machinery. Readily available for easy assembly on OEM equipment manufactured for international exportation.

*Contact SEALMASTER for more information.



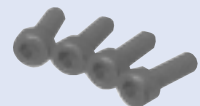
Metric Dimensions



Distinctive Metric Collar



Metric Capscrews



Special Nameplate



Metric Bore



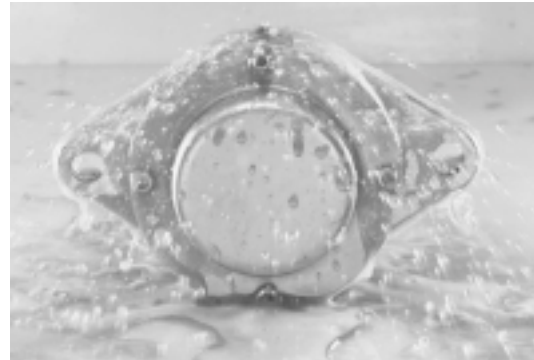
SEALMASTER® FEATURED PRODUCTS

BEVERAGE BEARING MOUNTED BALL BEARINGS

There is no more need to worry about...

- Beverage Spillovers
- High pressure Washes
- Moisture
- Caustic Cleansers
- Grease wash out
- Inadequate Lubrication
- Broken Glass
- Seal Failure

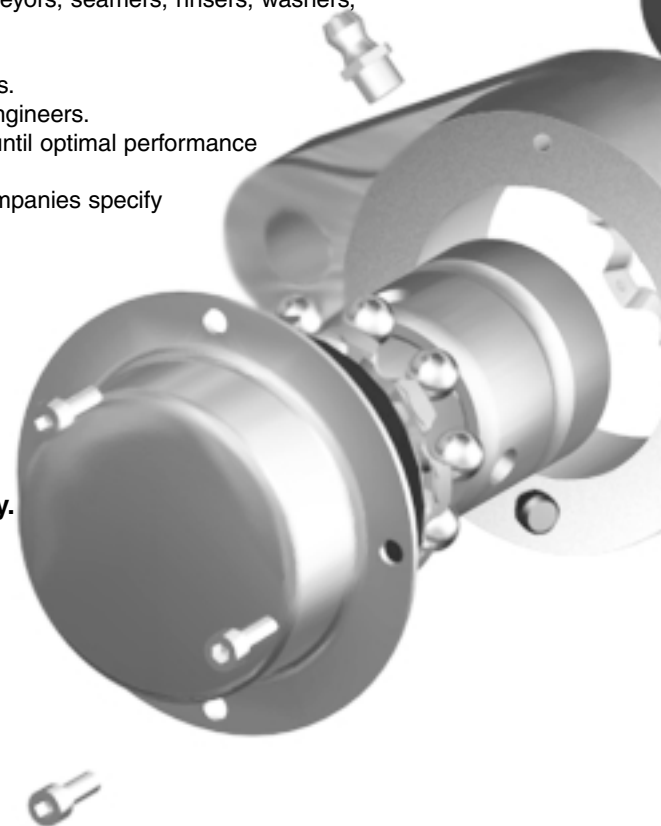
The Gold Beverage Bearing is Designed Specifically for the Beverage Industry.



1. SEALMASTER began with a blank piece of paper...no preconceived notions.
2. SEALMASTER engineers evaluated fillers, cappers, crowners, coolers, conveyors, seamers, rinsers, washers, warmers, packers, palletizers & accumulation tables.
3. Beverage industry leaders played an active role developing the product.
4. Prototypes were produced and installed on the most challenging applications.
5. Bearings were routinely inspected by both SEALMASTER customers and engineers.
6. Grease coatings, seals, and races were individually tested for over 2 years until optimal performance was achieved.
7. The results exceeded customer expectations, and today major beverage companies specify the SEALMASTER Gold Beverage Bearing...NO SUB!

Features Include...

- Thin Dense Chrome Plated Races.
- Fluoropolymer Coated Corrosion Resistant Housing.
- Stainless Steel End Cap (available in 2 & 4 bolt flanges).
- Stainless Steel Backside Shield and Double Gasket Assembly.
- Spring Loaded Contact Seals and Flingers.
- Drainage slot in shield & gasket assembly.
- Stainless Steel Balls.
- Stainless Zerk and Washers.
- Solid Base Housing.
- Gold Line 120° Set Screw Spacing.
- Self Aligning $\pm 2^\circ$.
- Coated Set Screws.
- Wide Outer Race.



DIFFERENT...BY DESIGN!

SEALMASTER COATINGS PROTECT

THIN DENSE CHROME (TDC) is a coating that resists corrosion 10 to 15 times longer than standard bearing materials. TDC totally covers the entire surface area of both races and is between 10-15% harder than industry standard bearing races.

FLUOROPOLYMER COATING covering the cast iron housing is compound matrix three protective layer designed to resist any:

- Peeling.
- Most cleaning solvents up to PH levels of eleven.
- Moisture.
- High Pressure Washes.
- Abrasion.



TDC Coating



Unprotected

Available Optional Features

SEALED (Non-relubricable)

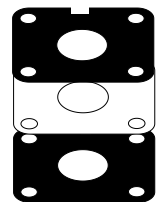
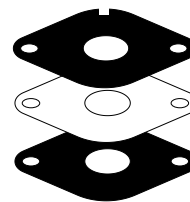
Attach "S" to the end of any unit number
i.e. BFT-31S

FOOD GRADE GREASE (USDA)

Attach the suffix FGG to the end of unit number. i.e. BPL-20R FGG
Made to order only.

3 Layer

***Stainless Back Side Shield
and Buna Gaskets***



*Assembled standard with...
2 & 4 bolt flanges size 1" to 2 3/16" bores.*

Actual field testing has proven that the Gold Beverage Bearing can last up to 2 years longer than ordinary bearings.

Today, sophisticated preventative maintenance programs usually identify bearings that are in the process of failing before a catastrophic emergency occurs. Clearly, in the case of a breakdown, the costs at a high speed filling facility add up quickly. Consider 1,800 cans per minute at 58 cents per can at over an hour downtime to replace bearings and you get the picture quickly. It is because of this that your company pays close attention to potential failures. Instead of focusing on downtime, we know you want to maximize your uptime. Even scheduled maintenance costs you production which takes away from manufacturing efficiencies, not to mention the indirect labor costs, actual replacement costs of the bearing and any consequential damage that may have occurred. The bottom line: *the Sealmaster Gold beverage bearing contributes to your long term production reliability and the most uptime.*

For more information on wet environments, see page 136.

For specifications on Beverage Bearings, see Featured Product Dimension Tables on page 93.



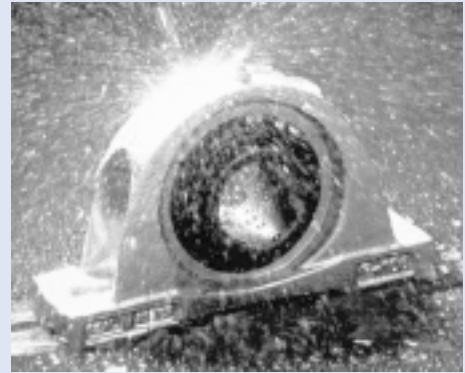
SEALMASTER® FEATURED PRODUCTS

CORROSION-RESISTANT CR DUTY MOUNTED BALL BEARINGS

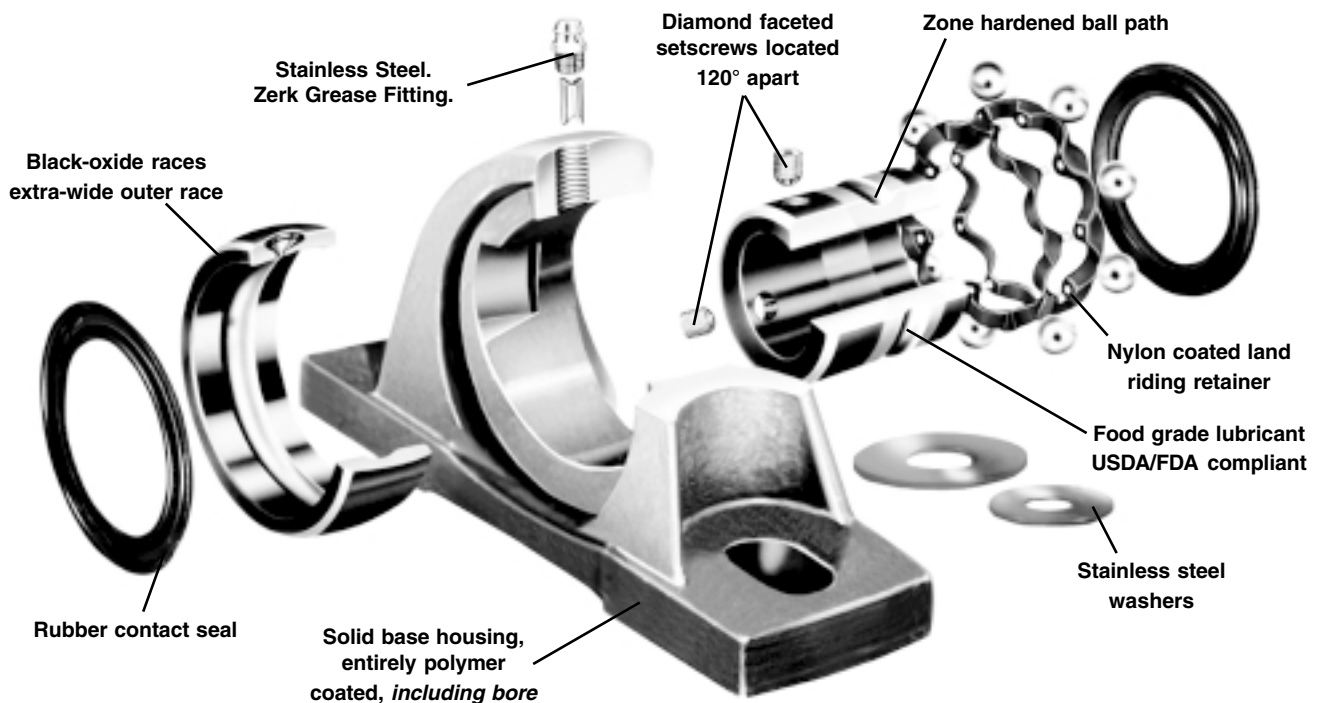
Corrosion Duty Bearing Housings Many harsh atmospheres can contaminate bearing rolling elements and housings, thereby reducing bearing life. SEALMASTER Gold Line CR Duty bearings, with corrosion-resistant polymer coating on the housings and application proven sealing elements to protect the ball bearings, are designed specifically to perform in these difficult ambient environments.

Apply these bearing units in a variety of services where they may be subjected to moisture, corrosive, and abrasive atmospheres. Typical examples include:

- Food Processing Plants.
- Food Packaging Plants.
- Beverage, Brewing, Bottling Plants.
- Meat, Poultry, Seafood Processing Plants.
- Dairy Industry Plants.
- Sugar Processing Plants.
- Drug and Pharmaceutical Plants.
- Chemical Processing Plants.
- Rubber and Plastics Plants.
- Pulp and Paper Mills.
- Car and Truck Washes.
- Refrigeration and Freezer Plants.
- Agricultural Harvesting Machinery
- Municipal (Sand/Salt) Treatment Equipment.
- Marine and Naval Applications.
- A Broad Range of Material Handling Services.

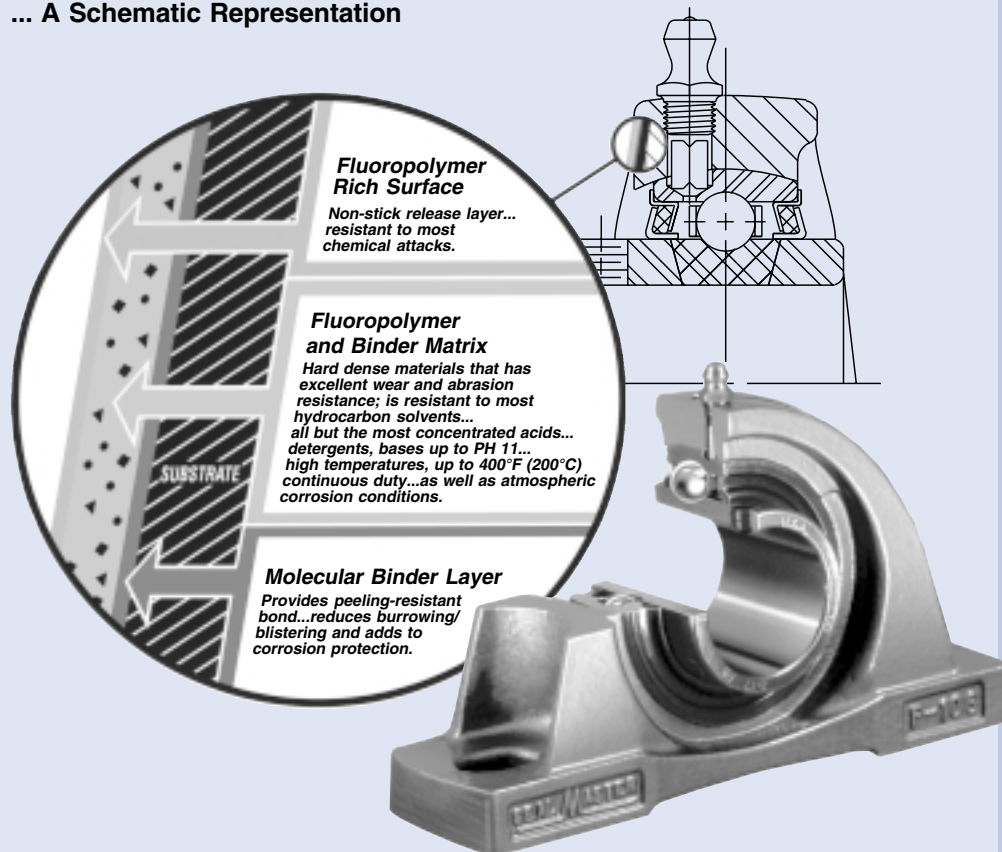


THE GOLD STANDARD CORROSION RESISTANCE BENEFITS

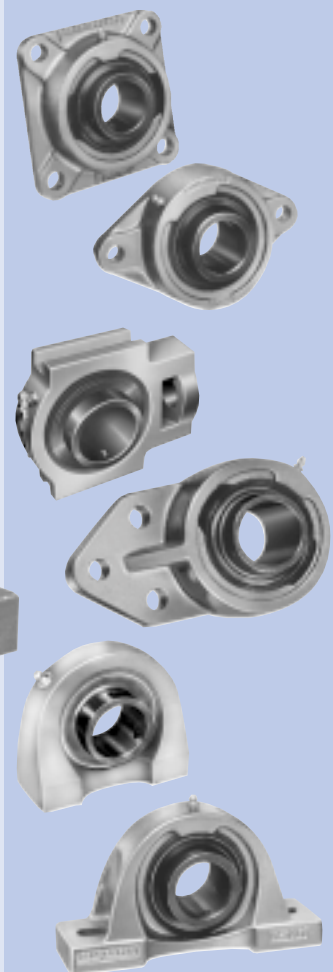


DIFFERENT...BY DESIGN!

CORROSION-RESISTANT POLYMER COATING ... A Schematic Representation



Available In A Variety Of Styles And Sizes



HOUSING COATING PERFORMANCE CHART

The chart to the right demonstrates the effectiveness of this corrosion-resistant polymer coating for a variety of atmospheric conditions and other physical qualities, against other popular materials. It is also important to note that **SEALMASTER CR Duty Bearings** have the housing bores coated

CORROSION CHARACTERISTICS	SEALMASTER CORROSION DUTY	PAINT	ELECTROLESS NICKEL	CU/NI/CR	NYLON	TEFLON*	
ACID	✓✓✓✓	✓	✓✓✓	✓✓	✓✓✓	✓✓✓✓	
BASE	✓✓✓✓	✓	✓✓	✓✓	✓✓✓	✓✓✓✓	
WASHDOWN	✓✓✓✓	✓	✓✓	✓✓	✓✓✓	✓**	
ATMOSPHERIC EXPOSURE	✓✓✓✓	✓✓	✓✓	✓✓	✓✓	✓✓✓✓	
NON-STICK	✓✓✓✓	-	-	-	✓	✓✓✓✓	
ADHESION TO CASTING	✓✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓	
HARDNESS	✓✓✓	✓✓	✓✓✓✓	✓✓✓✓	✓✓✓	✓	
COLOR	✓✓✓✓	✓	✓✓	✓✓✓✓	✓✓	✓✓	
EXCELLENT GOOD	✓✓✓✓ ✓✓✓	FAIR POOR	✓✓ ✓	UNACCEPTABLE - **SHOULD NOT BE USED WITH HIGH PRESSURE SPRAYWASH			* Teflon is a registered trade mark of the Du Pont Company.

For more information on wet environments, see page 136.

For specifications on CR Duty Bearings, see Featured Product Dimension Tables on page 93.

SEALMASTER® FEATURED PRODUCTS

THE HIGH TEMPERATURE HF/HFT FURNACE MOUNTED BALL BEARINGS

Typical applications include:

- Heat treating equipment
- Kilns, curing furnaces, etc.
- Food processing conveyors (bakeries, etc.)

High temperature furnace bearings . . . design and application parameters

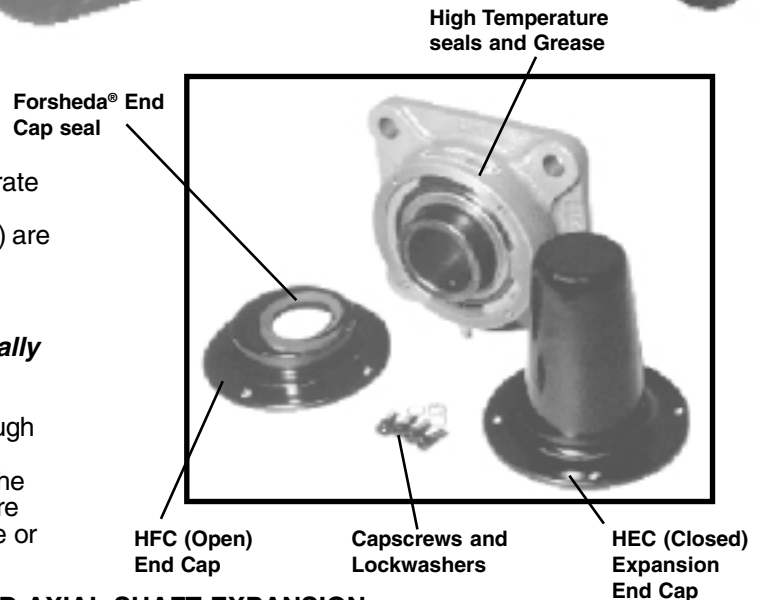
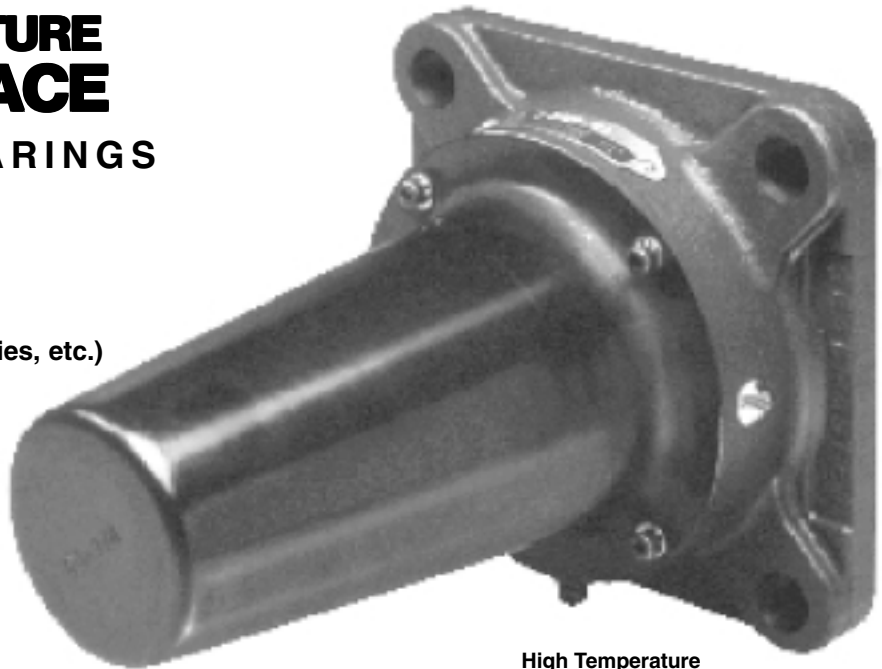
After extensive research into various market segments and industries, SEALMASTER bearing engineers have developed a new and unique design ball bearing series that is well matched to high temperature applications. To ensure proper selection for severe services, consider these basic application parameters:

1. What is a “high temperature” bearing?

A high temperature bearing is designed to operate in ambient temperatures up to 400°F (200°C). Standard bearings (or slightly modified bearings) are not designed to operate in temperatures above 200°F (100°C).

2. Where are high temperature bearings typically used?

These bearings support conveyor rolls that are designed to transport a variety of materials through industrial furnaces or ovens. Generally, they are operated at slow speeds (up to 800 RPM) with the shaft extending through the heated area. In a rare instance, bearings are located inside the furnace or oven.



END CAPS AND AXIAL SHAFT EXPANSION

SEALMASTER HF and HFT units can be specified with either HFC or HEC caps. The HFC caps have an opening to allow the shaft to pass through to the customer's drive system. This cap arrangement normally uses the setscrews supplied in the bearing to lock the bearing to the shaft. The HEC cap is a closed end cap which, when used with the square head setscrew (supplied with cap) and a customer machined keyway in the shaft, allows the shaft to expand through the bore of the bearing when shaft temperature rises. (1) HFC and (1) HEC arrangement is normally recommended on each shaft. **Contact SEALMASTER Application Engineering for any question concerning your application.**

CALCULATING SHAFT GROWTH

Shaft growth (In) = .0000063 x Shaft Length (In) x Change in Temperature (°F.)

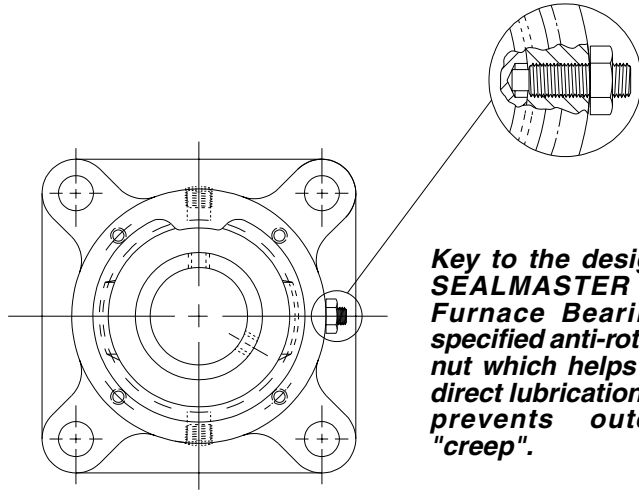
LUBRICATION

SEALMASTER HF and HFT bearings are supplied with a high quality/high temperature synthetic lubricant with temperature operating range up to 400°F. The units are equipped with plugs in the lubrication holes in the housing. Bearing life may be extended by addition of fresh lubricant to the unit. Consult SEALMASTER Application Engineering for type of lubricant, frequency, and proper procedure for relubrication.

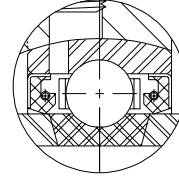
***Consult SEALMASTER Application Engineering before operating outside any limits above.**

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DIFFERENT...BY DESIGN!



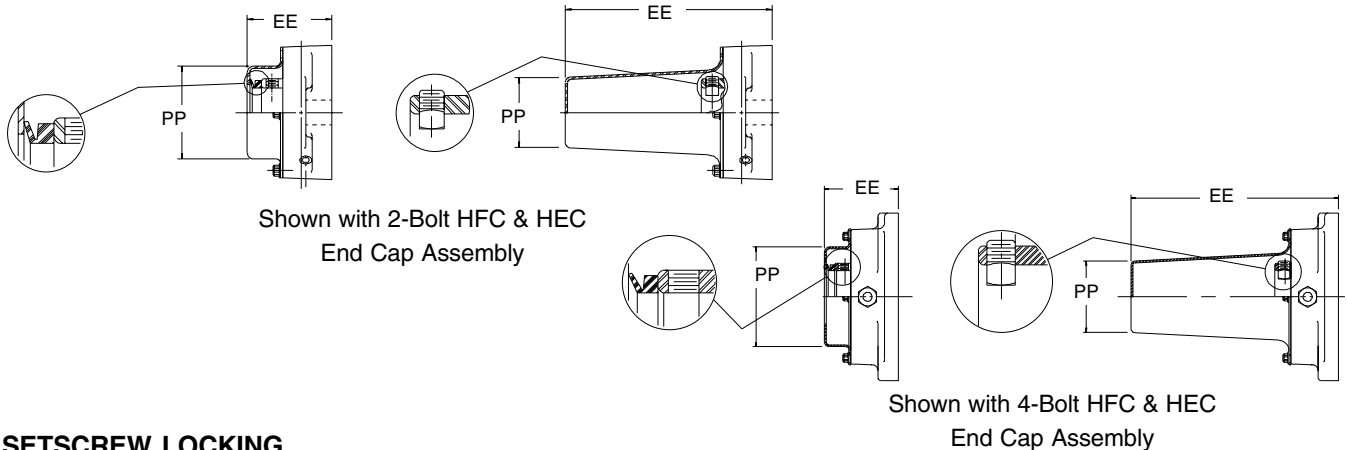
Key to the design of the SEALMASTER HF/HFT Furnace Bearings is a specified anti-rotation lock nut which helps ensure a direct lubrication path and prevents outer race "creep".



High Temperature, non-purgable, UltraGard Seals withstand the severe operating environment and help retain lubricant within the bearing chamber.

RECOMMENDED LOADS AND SPEEDS

UNIT # 2 BOLT HOUSING	UNIT # 4 BOLT HOUSING	MAX. RECOMMENDED SPEED	MAX. RECOMMENDED LOAD
		RPM	LBS.
HFT-16	-	800	150
HFT-19	-	700	250
HFT-20R	-	700	250
HFT-23	HF-23	600	350
HFT-24	HF-24	500	450
-	HF-28	500	550



SETSCREW LOCKING

BORE	TWO BOLT FLANGE	FOUR BOLT FLANGE	2-BOLT END CAPS						4-BOLT END CAPS					
			CAP	HFC		CAP	HEC		CAP	HFC		CAP	HEC	
			HFC-	EE	PP	HEC-	EE	PP	HFC-	EE	PP	HEC-	EE	EE
1"	HFT-16	-	16	1 23/32	1 29/32	16	4 7/32	1 7/16	-	-	-	-	-	-
1 3/16	HFT-19	-	19	1 27/32	2 3/8	19	4 63/64	1 45/64	-	-	-	-	-	-
1 1/4	HFT-20R	-	20R											
1 7/16	HFT-23	HF-23	23	2 3/64	2 3/4	23	5 23/32	1 31/32	23	2 1/64	2 3/4	23	5 23/32	1 31/32
1 1/2	HFT-24	HF-24	24	2 11/32	2 3/4	24	5 15/32	1 13/16	24	2 5/16	2 3/4	24	5 15/32	1 13/16
1 3/4	-	HF-28	-	-	-	-	-	-	28	2 3/8	2 7/8	28	5 17/32	2 1/16

For specifications on HF/HFT Bearings, see Featured Product Dimension Tables on page 93.

For more information on High Temperature applications, see page 130.

SEALMASTER® FEATURED PRODUCT DIMENSIONS

How to use the Featured Product Dimension Tables...

Sealmaster offers *three* Mounted Ball Bearing featured product lines...

- **The Gold Line Beverage Bearings**
explained in more detail on pages 86 & 87.
- **The Gold Line CR Duty Corrosion-Resistant Bearings**
explained in more detail on pages 88 & 89.
- **The Gold Line Furnace Bearings**
explained in more detail on pages 90-91.

Each may be available in the following bore size:

3/4"	1 1/4"	1 3/4"
1"	1 7/16"	1 15/16"
1 3/16"	1 1/2"	2 3/16"
1 1/4R"	1 11/16"	2 7/16"

The Availability Column

The availability of each specific product is detailed in the Tables below under *AVAILABILITY*. This column is coded for each featured product line...

BEV	=	Beverage Bearing
CR	=	CR Duty Corrosion-Resistant
HF	=	Four Bolt Furnace Bearing
HFT	=	Two Bolt Furnace Bearing

Beverage Bearing End Caps

BORE SIZE IN INCHES	TWO BOLT END CAPS		FOUR BOLT END CAP	
	OPEN	CLOSED	OPEN	CLOSED
1	TEO-16	TEC-16	FEO-16	FEC-16
1 3/16	TEO-19	TEC-19	FEO-19	FEC-19
1 1/4R	TEO-20R	TEC-19	FEO-20R	FEC-19
1 1/4	TEO-20	TEC-23	FEO-20	FEC-23
1 7/16	TEO-23	TEC-23	FEO-23	FEC-23
1 1/2	TEO-24	TEC-24	FEO-24	FEC-24
1 11/16	TEO-27	TEC-27	FEO-27	FEC-27
1 15/16	TEO-31	TEC-31	FEO-31	FEC-31
2 3/16	TEO-35	TEC-35	FEO-35	FEC-35

High Base Pillow Blocks... BP, NP-C CR

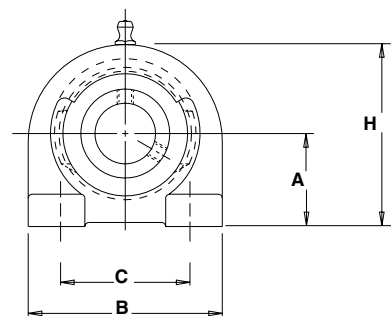
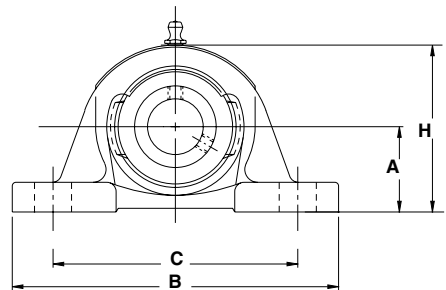
BORE	AVAILABILITY	A	B	C		H	BOLT SIZE
				MIN	MAX		
3/4	BEV**, CR	1 5/16	5	3 3/8	4 1/8	2 9/16	3/8
1	BEV**, CR	1 7/16	5 1/2	3 7/8	4 3/8	2 13/16	3/8
1 3/16 - 1 1/4R	BEV**, CR	1 11/16	6 1/2	4 7/16	5 1/16	3 3/8	1/2
1 1/4 - 1 7/16	BEV**, CR	1 7/8	6 9/16	4 11/16	5 5/16	3 3/4	1/2
1 1/2	BEV**, CR	1 15/16	7 1/4	4 7/8	5 7/8	3 15/16	1/2
1 11/16	BEV**, CR	2 1/8	7 1/2	5 7/16	6 1/16	4 1/4	1/2
1 15/16	BEV**, CR	2 1/4	8 1/8	6	6 1/2	4 9/16	5/8
2 3/16	BEV**, CR	2 1/2	8 5/8	6 1/2	7	5	5/8
2 7/16	BEV**, CR	2 3/4	9 1/2	6 7/8	7 5/8	5 9/16	5/8

Low Base Pillow Blocks... BPL, NPL-C CR

BORE	AVAILABILITY	A	B	C		H	BOLT SIZE
				MIN	MAX		
3/4	BEV**, CR	1 1/4	5	3 3/8	4 1/8	2 1/2	3/8
1	BEV**, CR	1 5/16	5 1/2	3 7/8	4 3/8	2 11/16	3/8
1 3/16 - 1 1/4R	BEV**, CR	1 9/16	6 1/2	4 7/16	5 1/16	3 1/4	1/2
1 1/4 - 1 7/16	BEV**, CR	1 13/16	6 9/16	4 11/16	5 5/16	3 11/16	1/2
1 1/2	BEV**, CR	1 15/16	7 1/4	4 7/8	5 7/8	3 15/16	1/2
1 11/16	BEV**, CR	2 1/16	7 1/2	5 7/16	6 1/16	4 3/16	1/2
1 15/16	BEV**, CR	2 3/16	8 1/8	6	6 1/2	4 1/2	5/8
2 3/16	BEV**, CR	2 7/16	8 5/8	6 1/2	7	4 15/16	5/8
2 7/16	BEV**, CR	2 11/16	9 1/2	6 7/8	7 5/8	5 1/2	5/8

Tapped Base Pillow Blocks... BTB, TB-C CR

BORE	AVAILABILITY	A	B	C	H	THREAD SIZE
3/4	BEV**, CR	1 5/16	3 1/8	2	2 9/16	3/8-16UNC
1	BEV**, CR	1 7/16	3	2	2 13/16	3/8-16UNC
1 3/16 - 1 1/4R	BEV**, CR	1 11/16	4	3	3 13/32	7/16-14UNC
1 1/4 - 1 7/16	BEV**, CR	1 7/8	4 1/4	3 1/4	3 3/4	1/2-13UNC
1 1/2	BEV**, CR	1 15/16	4 5/8	3 1/2	3 15/16	1/2-13UNC
1 11/16	BEV**, CR	2 1/8	5	3 3/4	4 1/4	1/2-13UNC
1 15/16	BEV**, CR	2 1/4	5 1/2	4	4 9/16	5/8-11UNC



** No End Caps Available

DIFFERENT...BY DESIGN!

Specifying Product

Each featured product has unique nomenclature to specify housing and size.

Nomenclature is formatted as follows:

Type Of Bearing	Housing	Bore Size
BEVERAGE BEARINGS	BP	12 = 3/4"
	BPL	16 = 1"
	BTB	19 = 1 3/16"
	BF	20R = 1 1/4R"
	BFT	20 = 1 1/4"
	BFB	23 = 1 7/16"
CR DUTY* BEARINGS	NP	24 = 1 1/2"
	NPL	27 = 1 11/16"
	TB	28 = 1 3/4"
	SF	31 = 1 15/16"
	SFT	35 = 2 3/16"
	FB	39 = 2 7/16"
FURNACE BEARINGS	HF	
	HFT	

**NOW AVAILABLE
TAKE-UP UNITS
FOR BEVERAGE & CR DUTY**

All Beverage Bearings...

Begin With The Letter "B"...

BP-23 BPL-28
BTB-20R BF-12
BFT-23 BFB-27

CR Duty Bearings...

*Must add "C CR" to all
CR Duty Bearings...*

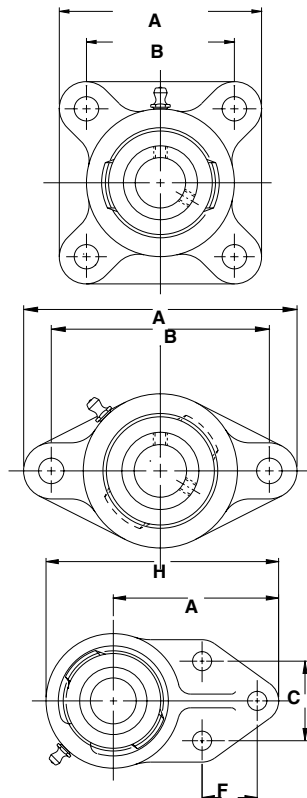
NP-16C CR
SF-28C CR
FB-39C CR

All Furnace Bearings

Begin With The Letter "H"...

HF-23 HFT-24

For more Dimensions... Use Standard Duty Gold Line Dimension Tables



Four Bolt Flanges... BF, SF-C CR, HF

BORE	AVAILABILITY	A	B	BOLT SIZE
3/4	BEV**, CR	3 3/8	2 1/2	3/8
1	BEV, CR	3 3/4	2 3/4	3/8
1 3/16 - 1 1/4R	BEV, CR	4 1/4	3 1/4	3/8
1 1/4 - 1 7/16	BEV, CR, HF-23	4 5/8	3 5/8	1/2
1 1/2	BEV, CR, HF-24	5 1/8	4	1/2
1 11/16 - 1 3/4	BEV, CR, HF-28	5 3/8	4 1/8	1/2
1 15/16	BEV, CR	5 5/8	4 3/8	9/16
2 3/16	BEV, CR	6 3/8	5 1/8	5/8
2 7/16	BEV**, CR	6 7/8	5 5/8	5/8

Two Bolt Flanges... BFT, SFT-C CR, HFT

BORE	AVAILABILITY	A	B	BOLT SIZE
3/4	BEV**, CR	4 13/32	3 17/32	3/8
1	BEV, CR, HFT-16	4 7/8	3 57/64	3/8
1 3/16 - 1 1/4R	BEV, CR, HFT-19, HFT-20R	5 9/16	4 19/32	3/8
1 1/4 - 1 7/16	BEV, CR, HFT-23	6 1/8	5 1/8	1/2
1 1/2	BEV, CR, HFT-24	6 3/4	5 21/32	1/2
1 11/16	BEV, CR	7 1/16	5 27/32	1/2
1 15/16	BEV, CR	7 7/16	6 3/16	9/16
2 3/16	BEV, CR	8 1/2	7 1/4	5/8

Three Bolt Flange Brackets... BFB, FB-C CR

BORE	AVAILABILITY	A	C	F	H	BOLT SIZE
3/4	BEV**, CR	3	1 1/2	7/8	4 1/4	3/8
1	BEV**, CR	3 3/8	1 5/8	1 1/8	4 3/4	3/8
1 3/16 - 1 1/4R	BEV**, CR	3 3/4	1 7/8	1 1/4	5 3/8	3/8
1 1/4 - 1 7/16	BEV**, CR	4 1/4	2	1 1/4	6 1/8	1/2
1 15/16	BEV**, CR	5 3/16	2 3/4	1 5/8	7 1/2	1/2

** No End Caps Available

SEALMASTER®

**MOUNTED ROLLER
BEARINGS...**

TOUGH
AS THEY COME!

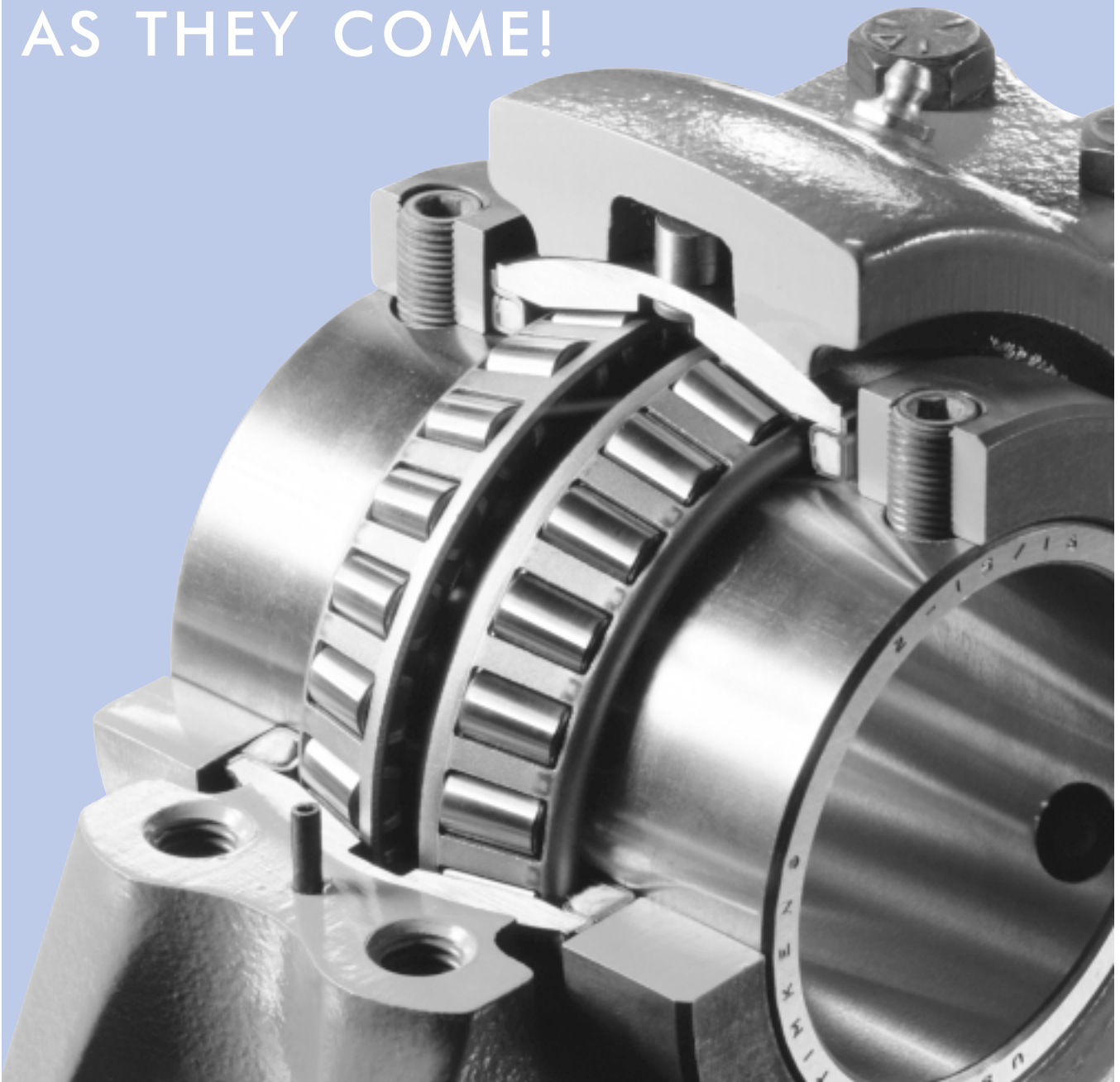
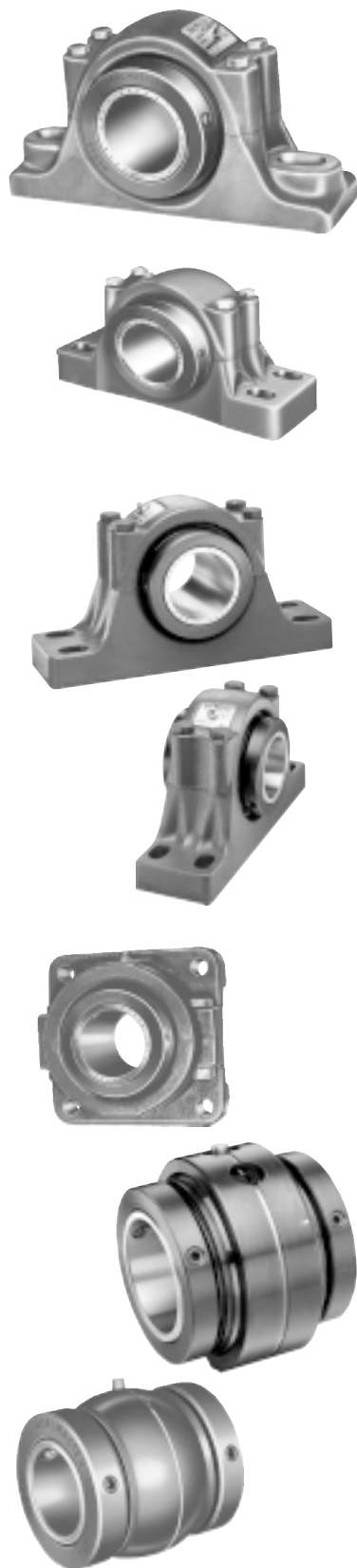


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SEALMASTER® MOUNTED ROLLER BEARINGS

SERIES		Bearing Configuration	Fixed Type	Expansion Type	Housing Material	Mounting Base	Setscrew Locking Collar	Available Bore Sizes (Inches)	Other Important Features Selection Factors Application Information
	RPB Features & Benefits See Pages 98-103 Dimensional Data Page 104	Pillow Block	x		Cast Iron	Standard Two and Four Bolt; Elongated Bolt Holes	Double	1 ³ / ₁₆ - 5	The basic RPB-Series Bearing. Used in the widest range of applications; choice of <i>three</i> sealing arrangements as shown.
	RPB-A Features & Benefits See Pages 98-103 Dimensional Data Page 105	Pillow Block	x		Cast Iron	Standard Two and Four Bolt; Elongated Bolt Holes	Single	1 ³ / ₁₆ - 5	Particularly recommended where space is limited; fewer sizes; choice of three basic sealing arrangements.
	ERP-B Features & Benefits See Pages 98-103 Dimensional Data Page 106	"Floating" Pillow Block-Expansion Type		x	Cast Iron	Two and Four Bolt; <i>Matches</i> the Mounting Dim. of RPB, RPB-A	Double	1 ³ / ₄ - 5	Generally used in conjunction with RPB/RPB-A Series units where a "floating" or expansion pillow block is required.
	RPBXT Features & Benefits See Page 110 Dimensional Data Page 111 And ERPB-XT	Pillow Block (Non-Expansion and Expansion Type)	x	x	Cast Iron	Four Bolt Only; Elongated Bolt Holes	Double	2 ¹ / ₄ - 5	Interchanges base to centerline and bolt hole spacing with 500 Series SAF style spherical roller bearing pillow blocks.
	DRPB Features & Benefits See Pages 98-103 Dimensional Data Page 107	Pillow Block- <i>High Base</i> to Shaft $\varnothing$ Mounting	x		Cast Iron	<i>Wide Base</i> , Two and Four Bolt Designs	Double	1 ³ / ₄ - 4	<i>Dimensionally interchangeable with competitive "DI" types</i> ; bearing load and speed capabilities equal to RPB.
	DRPB-A Features & Benefits See Pages 98-103 Dimensional Data Page 108	Pillow Block- <i>High Base</i> to Shaft $\varnothing$ Mounting	x		Cast Iron	<i>Wide Base</i> , Two and Four Bolt Designs	Single	1 ³ / ₄ - 4	<i>Dimensionally interchangeable with competitive "K" types</i> ; bearing load and speed capabilities equal to RPB.
	EDPB-A Features & Benefits See Pages 98-103 Dimensional Data Page 109	"Floating" Pillow Block Expansion Type		x	Cast Iron	Two and Four Bolt <i>Expansion</i> , High Base Type	Single	1 ³ / ₄ - 4	Expansion type with high base-to-shaft centerline mounting dimensions; interchangeable with competitors "K" Series.
	SPB Features & Benefits See Pages 98-103 Dimensional Data Page 112	Pillow Block	x		Cast Steel	Two Bolt	Double	1 ¹ / ₂ - 3 ¹ / ₂	Steel housings meet SAE J43T specifications, 65,000 psi. Choice of three sealing arrangements.

TYPE, SIZES, AVAILABILITY, SELECTION FACTORS

SERIES		Bearing Configuration	Fixed Type	Expansion Type	Housing Material	Mounting Base	Setscrew Locking Collar	Available Bore Sizes (Inches)	Other Important Features Selection Factors Application Information
	SPB Features & Benefits See Pages 98-103 Dimensional Data Page 112	Pillow Block	x		Cast Steel	Four Bolt	Double	3 ¹⁵ / ₁₆ – 5	Steel Housings meet SAE J43T specifications, 65,000 psi. Choice of three sealing arrangements.
	RFB Dimensional Data Page 114	Flange Units	x		Cast Iron	Standard Four Bolt	Double	1 ³ / ₁₆ – 4 1/2	Designed for industrial machinery where heavy loads at low, medium or relatively high speeds exist; vertical or horizontal face mounting.
	RFB-A Dimensional Data Page 115	Flange Units	x		Cast Iron	Standard Four Bolt	Single	1 ³ / ₁₆ – 4 1/2	For moderate loads at low to medium high speeds exist, or where space along the shaft is at a premium.
	RFP Dimensional Data Page 116	Piloted Flange Units	x		Cast Iron	Standard Four Bolt	Double	1 ³ / ₁₆ – 5	Designed for applications where heavy loads at low, medium or relatively high speeds exist.
	RFP-A Dimensional Data Page 117	Piloted Flange Units	x		Cast Iron	Standard Four Bolt	Single	1 ³ / ₁₆ – 5	Designed for applications where moderate loads at low to medium high speeds exist.
	ERCI Dimensional Data Pages 118 & 119	Cylindrical Cartridge Inserts (For ERPB)		x			Double	1 ³ / ₄ – 5	Designed to mount directly in customer housings, or as replacement insert for RPB-Expansion Type Bearings.
	RCI RCI-A Dimensional Data Page 120	Replaceable Cartridge Inserts (Two Types)	x				Double Single	1 ³ / ₁₆ – 5	Applicable to ALL fixed type RPB-Series Bearings in this group.
	RPB-CR Corrosion Resistant Features & Benefits Pages 122-123	*Available in All Standard Bearing Styles	x	x	Cast Iron	All Housing Styles	Single Double	1 ³ / ₁₆ – 5	Designed especially for applications where the bearings may be subjected to moisture corrosive and abrasive environments.
	RPB-AH Air Handling Features & Benefits See Pages 98-103,124 Dimensional Data Pages 125	*Available in Pillow Blocks, Flange Units Piloted Flange Units	x	x Available	Cast Iron	Standard Two and Four Bolt Pillow Blocks*	Double	1 ³ / ₁₆ – 5	Designed especially for air handling applications in the HVAC... higher speeds some vibration, low noise levels.
	RPB-M Metric Features & Benefits See Pages 98-103,126 Dimensional Data Pages 127	*Available in ALL-Standard Bearing Styles	x	x Available	Cast Iron	Standard Two and Four Bolt Pillow Blocks*	Double	(35-125mm)	Available in RPB-Series with split housing.

SEALMASTER® MOUNTED ROLLER BEARINGS

Check Out the Industry's Only Tapered Roller Bearing Units in This Compact Size Range... With Unitized, Self-Aligning Replaceable Cartridge Inserts.

SEALMASTER RPB Series mounted roller bearings 'MASTER' the toughest application conditions, handling combination radial and thrust loads in a broad range of severe duty services. *And they keep on going!*

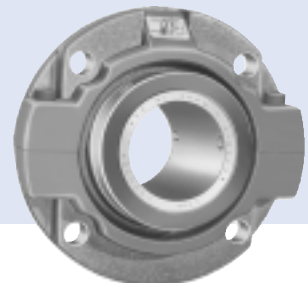
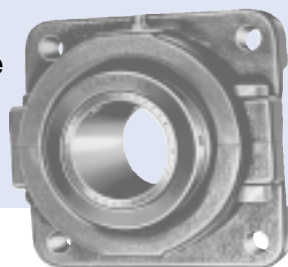
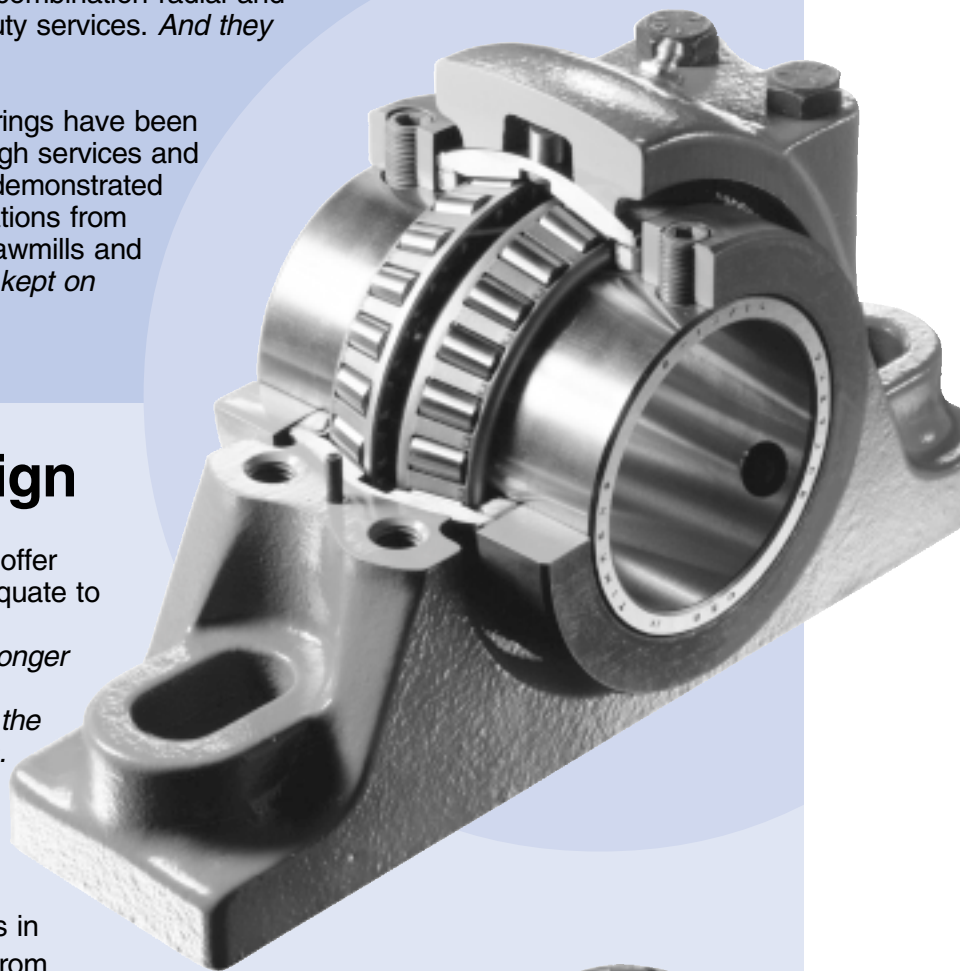
For more than 20 years, RPB Series bearings have been put to the ultimate tests in a variety of tough services and most demanding environments. They've demonstrated *exceptional* service life in problem applications from aggregates to chemical processing... in sawmills and pulp and paper mills, etc... where they've *kept on rolling when other bearings failed.*

Toughness By Design

These premium heavy-duty bearing units offer outstanding design *features* that rapidly equate to money-saving *benefits*... like significantly *increased* overall reliability, substantially *longer* operating life, *reduced* maintenance, replacement and downtime... *even under the toughest and most demanding conditions.*

More Sizes, More Configurations Mean More Choices

Select from two and four-bolt pillow blocks in bore sizes from 1 3/16" - 5", flange units from 1 3/16" - 4 1/2", piloted flange units and "one-size-fits-all" cartridge inserts in the full range of bore sizes, 1 3/16" - 5". *All are available for quick shipment from stock.*

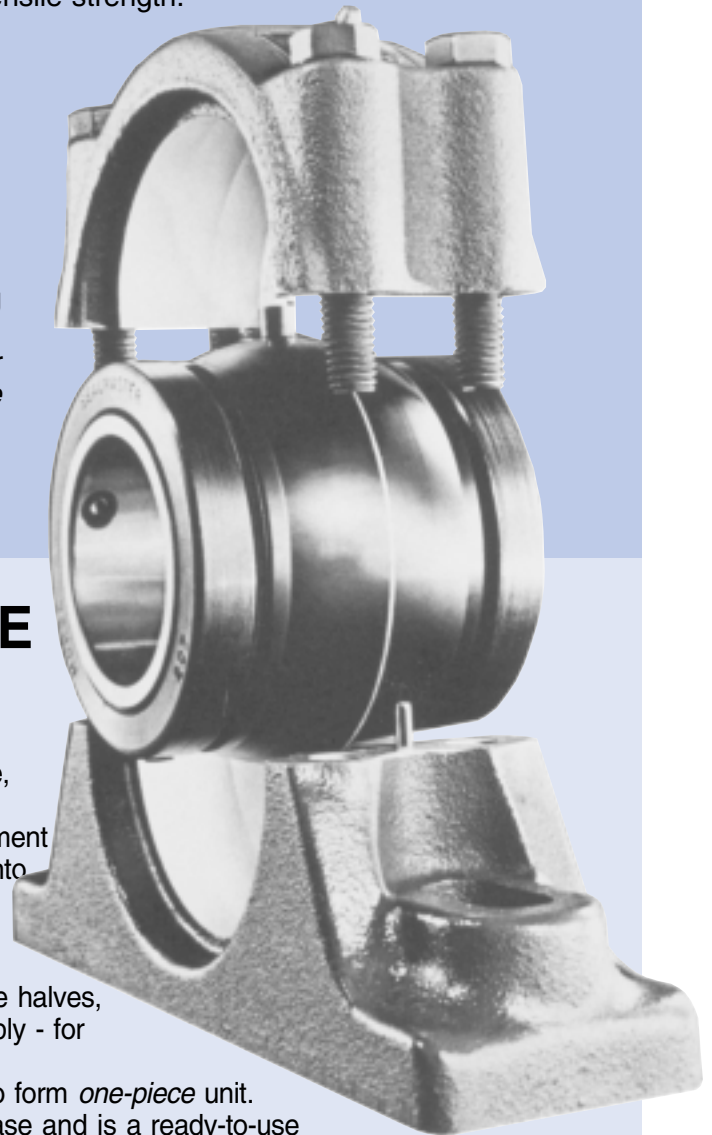


TOUGH AS THEY COME!

DURABLE CAST IRON SPLIT HOUSINGS

The user's major cost is not always the original cost of the bearing, but the installation time required to put it into productive operation. RPB cast iron split housings have a ribbed design for added strength. Cap bolts are Grade 5 minimum with 60,000 psi tensile strength.

- Quickest replacement of bearing insert whenever change out is needed.
- Once installed, the housing base *always* remains aligned with the shaft... doesn't need to be disturbed.
- Reduce downtime, replacement costs.
- Guide pins in the housing base and mating holes in the cap help eliminate error during replacement. Guide pins *ensure* the proper orientation of the top housing - *in the same direction in which it was machined at the factory* - for optimum fitup and assembly.



UNITIZED REPLACEABLE CARTRIDGE INSERTS

The heart of the RPB Series bearing is the one-piece, self-aligning cartridge with integral seals and double locking collars. This represents a significant achievement in engineering and manufacture. Each cartridge fits into *any* RPB housing style for maximum control of inventory and easy replacement.

- Constructed from two precision ground outer race halves, *matched* to a Timken® bearing inner race assembly - for optimum end play control.
- Outer race halves are then carefully processed to form *one-piece* unit.
- The cartridge unit is sealed and packed with grease and is a ready-to-use self-contained insert - for assembly in SEALMASTER housings or as field replacement bearings.
- Optimum factory-controlled end play eliminates use of shims, snap rings, machined shoulders and lock nuts, ensures proper roller contact with the races reducing edge loading, eliminates field adjustment problems found with other designs.

**UNIQUE...UNCHALLENGED...THE UNDISPUTED LEADER
IN QUALITY AND VALUE-ADDED ADVANTAGES**

SEALMASTER® MOUNTED ROLLER BEARINGS

TIMKEN® TAPERED ROLLER BEARINGS

Offer rugged design, proven performance and outstanding reliability in a diversity of heavy-duty applications...

- Inner race, rollers and cage assemblies manufactured by Timken®, with over 80 years' experience in this type of bearing.. tapered rollers provide true rolling motion with minimum friction.
- Inner race and rollers of case-hardened, alloy steel - provide long fatigue life under heavy loads.
- Ensures optimum performance under combined radial and thrust loads. Can carry high thrust loads where spherical bearings in the same type of application may be limited.

ONE-PIECE SPHERICAL OUTER RACE

- Manufactured from through-hardened 52100 steel with a spherical outside diameter; black oxide treated for corrosion protection.
- Precision fit with the spherical seat in the housing... provides even load distribution, allows full 3° static misalignment capability - more than twice the capability of most other spherical bearings - the 3° self-aligning feature reduces abnormal stress on bearing components and seals...overcomes alignment problems common in rigid type tapered roller bearings with one-piece housings.

ALIGNMENT PIN

- Inserted between the mating outer race halves - fits into a recess in the housing top.
- Ensures positive lubrication - one of two cartridge lubrication openings always lines up with the grease fitting.
- Prevents outer race rotation of the cartridge insert; the hardened steel outer race cannot rotate in the housing under load, thus keeping intact the factory-adjusted fit between the housing and cartridge... the race will not wear away the cast iron housing because it is locked in place.

POSITIVE LUBRICATION SYSTEM

Lubrication doesn't have to travel around an annular grease groove - it follows a short path directly into the bearing!

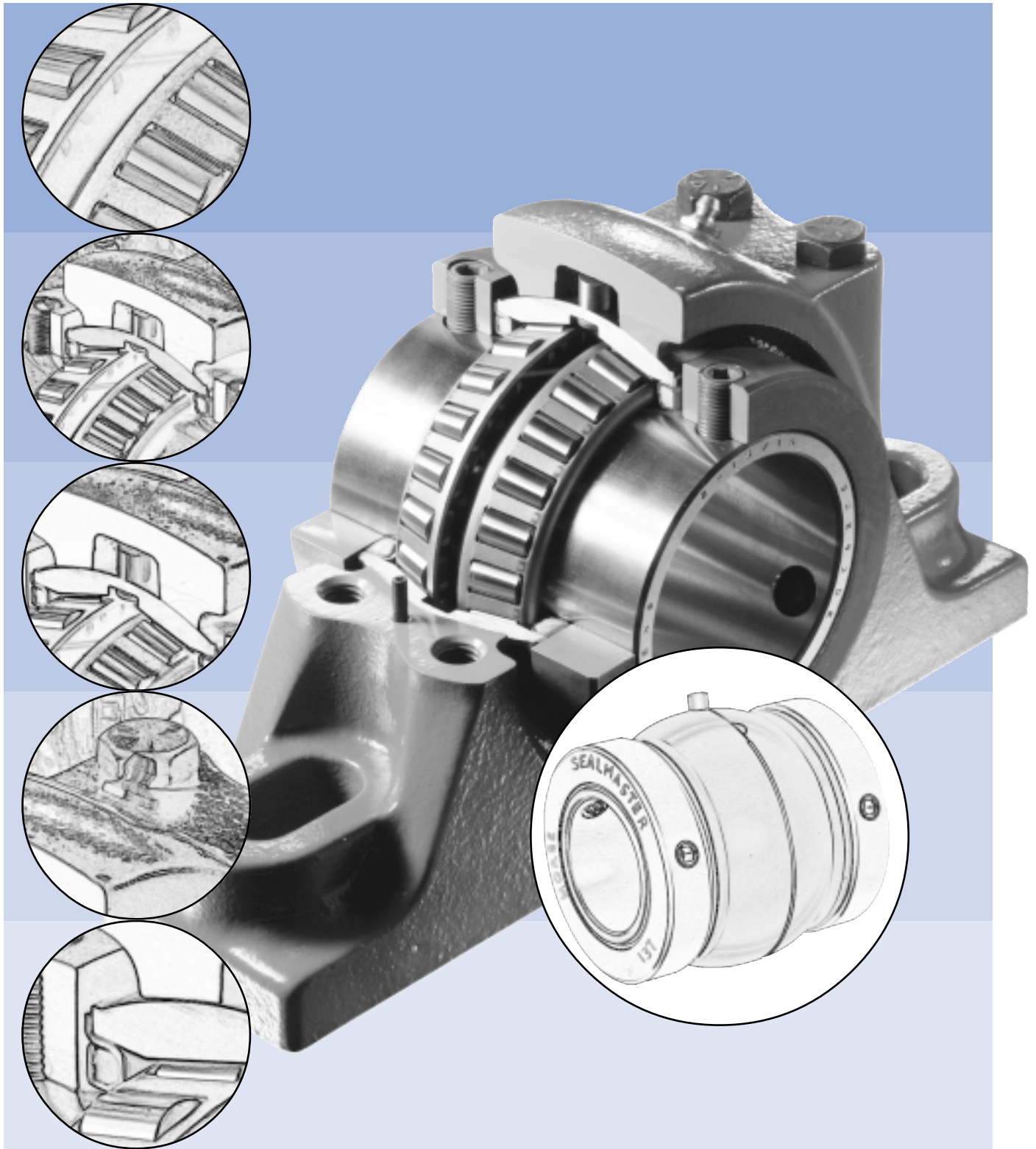
- Cartridge contains two lubrication ports and one relief port... extra lube ports prevent seal damage by venting excess pressure from overgreasing.
- Rubber grommet is located in the housing cavity beneath the grease fitting - lines up with one of the lube ports in the cartridge to direct the grease into the bearing... competitive spherical roller bearings with one-piece outer races are designed with a circumferential grease groove and oil hole to direct grease into the bearing; soap base greases (conforming to NLGI grade #2) can dry out, cake and harden if the bearing is stored for long periods of time or not lubricated frequently. This can obstruct clean grease from entering the bearing and possibly lead to a premature bearing failure.
- The cartridge is designed for universal assembly into any RPB housing style... can be a major cost-saver where many bearings are used.

PATENTED FELT LABYRINTH RACE MOUNTED SEALS

Direct contaminants away from the sealing surfaces... provide a tight fit to exclude foreign material... have less drag and less heat generation than radial lip rubber contact seals.

- Same proven design used in SEALMASTER Gold Line Ball Bearings.
- Outer shield rotates with the shaft, creating a flinger action which reduces contaminant build-up. Outer flinger-shield extends slightly into bearing chamber to churn and break up the grease flow and direct it back into the rolling elements.
- Effective sealing in dry, dusty or dirty environments - felt acts as a filter, has low friction.
- Race mounted seals are not subject to misalignment distortion.
- Shields are black oxide treated for corrosion protection.

TOUGH AS THEY COME!



***UNIQUE...UNCHALLENGED...THE UNDISPUTED LEADER
IN QUALITY AND VALUE-ADDED ADVANTAGES***

SEALMASTER® MOUNTED ROLLER BEARINGS

SINGLE LIP RACE MOUNTED CONTACT SEALS

Available on all bearing sizes recommended where moisture conditions prevail...

- Consists of an elastomeric rubber sealing element bonded to a steel shield.
- Functions well in wet and dirty environments up to 250° F.
- Has good chemical resistance properties.
- Race mounted seals are not subject to misalignment distortion.
- Shields are black oxide treated for corrosion protection.

CONCENTRIC DOUBLE LOCKING COLLARS

The RPB locking system has **MORE HOLDING POWER** compared to spherical roller bearings with one lock collar (4 setscrews instead of 2)

- Each collar has 2 setscrews spaced at 120° - provides balanced three-point contact and symmetrical locking.
- Hardened setscrews in a soft collar provide maximum holding power in applications involving heavy loads, reversing and vibration... a special coating on the setscrews reduces the friction when inserting and torquing them into the lock collars, resulting in more holding power.
- Double extended inner races provide excellent shaft support - load is distributed evenly over a wide area.
- Collars also serve as 2 extra flingers that rotate with the shaft to repel contaminants away from the seal.
- Black oxide treated for added corrosion protection.

OTHER FEATURES AND OPTIONS

1. SINGLE LOCKING COLLARS

Generally for applications involving shaft length considerations or limited space.

- Available from stock in bore sizes, 1 3/4" - 3 15/16".
- Designated with "A" suffix, e.g. RPBA207-2... see pages 105, 108, 109, 115, 117, and 120.

2. CYLINDRICAL CARTRIDGE INSERTS

Designed to mount directly into customer housings and as inserts in expansion RPB housings.

- Available from stock in 1 3/4" - 5" bore sizes with felt and contact seals.
- High temperature grease and seals can be supplied on request.

3. EXPANSION TWO AND FOUR BOLT PILLOW BLOCKS

- Available from stock in bore sizes 1 3/4" - 5".
- Total expansion 3/16" - 3/8"... see pages 106, 109 and 111.

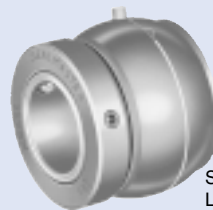
4. CAST STEEL PILLOW BLOCKS

For applications requiring greater housing strength than cast iron.

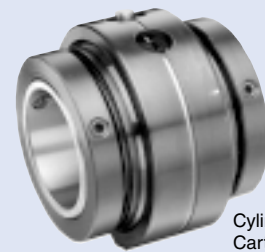
- Two bolt bases - bore sizes 1 1/2" - 3 1/2"... see page 112.
- Four bolt bases - bore sizes 3 15/16" - 5"... see page 112.

5. INDUSTRY INTERCHANGEABILITY

- Same bolt centers and base-to-shaft centerline as most competitive one-piece housings. (Metal nameplate attached securely beneath the grease fitting for long-lasting identification.)
- Longer bolt slots permit easy replacement for most competitive brands.
- New RPBXT Series has interchangeable shaft-to-centerline dimensions and bolt hole spacing with the popular 500 Series SAF style spherical roller bearing pillow blocks... see pages 110 and 111.



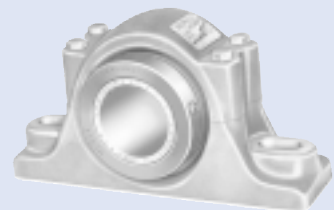
Single
Locking
Collars



Cylindrical
Cartridge
Inserts

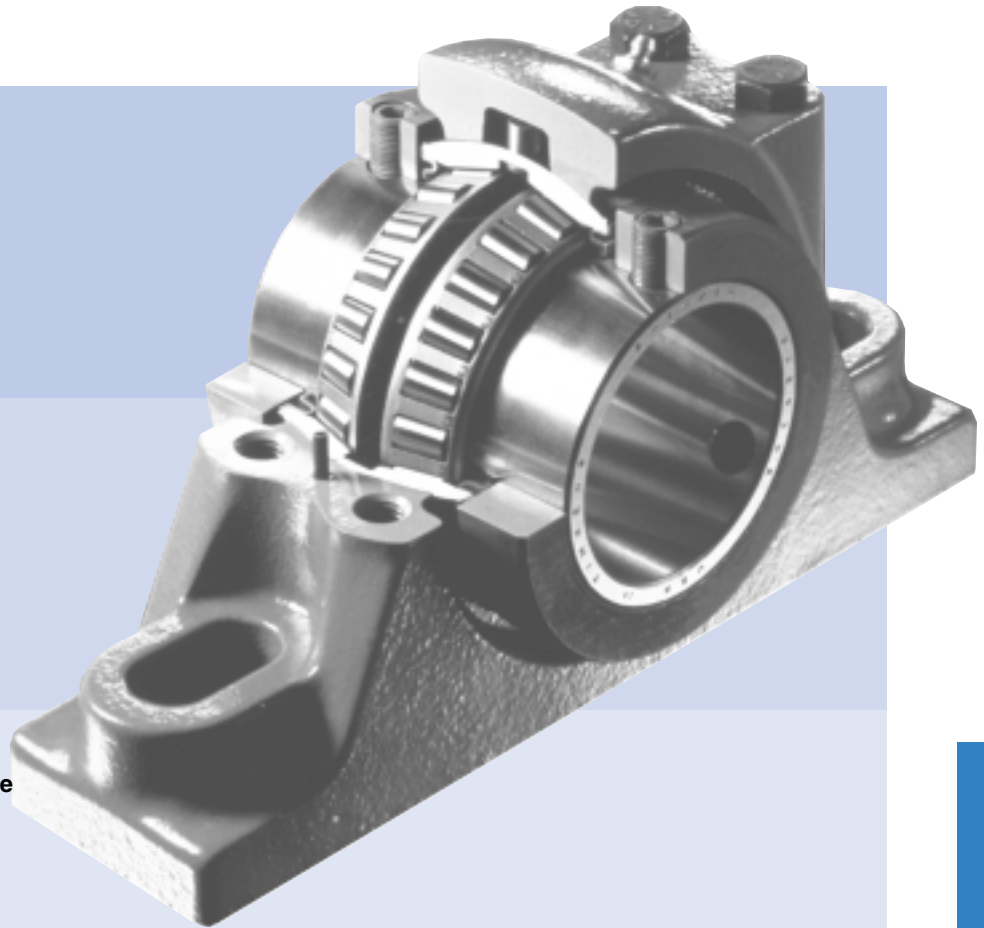
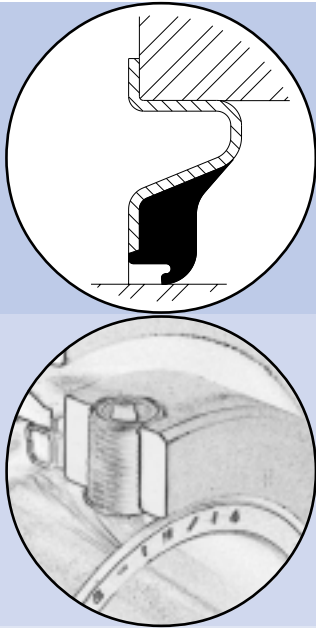


Expansion
Two & Four Bolt
Pillow Blocks



Cast Steel
Pillow Blocks

TOUGH AS THEY COME!



6. CUSTOM CAPABILITIES

Versatile RPB Series roller bearings are adaptable to a broad range of custom design features. Price and delivery furnished on request. Some of these include...

A: TIGHT HOUSING FITS

- Tight housing fit "TF" for vibrating conveyor applications.

Some applications require a tight fit-up between the bearing cartridge O.D. and the housing. Typical applications of this type are on vibrating conveyors and shaker screens where eccentric and rotating loads exist. The tight fit-up prevents the movement of the cartridge in the housing. The RPB-TF units are shipped from the factory with cap bolts snugged by hand and tagged with the proper torque specifications. It is important to allow the cartridge insert to seat itself properly *before* torquing the capscrews and cap bolts.

See pages 140-141 for Vibratory Application information.

B: CUSTOM HOUSINGS

Generally require pattern and tooling charges - price and delivery furnished on request.

- Tapped base pillow blocks.
- Housing styles to match competitive base-to-centerline and bolt spacing dimensions.
- Ductile iron or steel.

C: REDUCED END PLAY

Requires an application review by our engineering department. Ask our Engineers for additional information.

D: HIGH TEMPERATURE

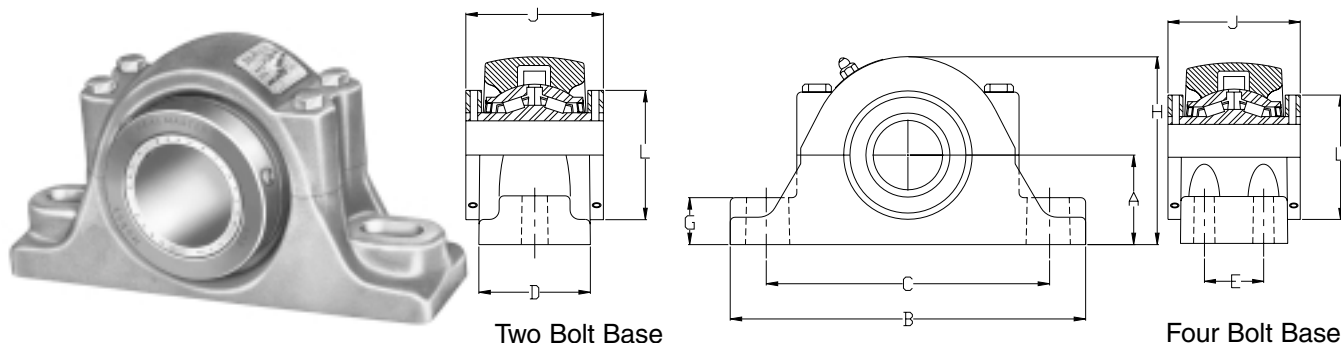
- High temperature seals and grease - "Nomex" material is used in place of felt where requested for elevated temperature environments...the current high temperature grease standard is Mobile SHC 460.
- Price and delivery of customer lubricants including (OSP) oil saturated polymer can be furnished on request.

For all tough applications... where performance and reliability count... specify SEALMASTER Self-Aligning RPB Series tapered roller bearings.

Refer to specifications and dimensions on the following pages.

Contact SEALMASTER Applications at 630-898-9620.

**UNIQUE...UNCHALLENGED...THE UNDISPUTED LEADER
IN QUALITY AND VALUE-ADDED ADVANTAGES**



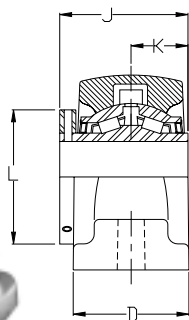
RPB Series Pillow Blocks...Two Bolt Base

SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES										BASE BOLTS	
	PART NO.	PART NO.	PART NO.		A	B	C		D	E	G	H	J	L	NO.	SIZE
							MIN.	MAX.								
1 3/16 1 1/4	RPB-103-2 RPB-104-2	RPB-103-C2 RPB-104-C2	RPB-103-N2 RPB-104-N2	4.80	1 1/2	6 1/4	4 9/16	4.94	1.88	-	.88	3.12	2.75	2.25	2	1/2
1 3/8 1 7/16	RPB-106-2 RPB-107-2	RPB-106-C2 RPB-107-C2	RPB-106-N2 RPB-107-N2	7.7	1 7/8	7 1/4	5 5/16	5.94	2.06	-	1.12	3.81	3.00	2.62	2	1/2
1 1/2 1 5/8 1 11/16	RPB-108-2 RPB-110-2 RPB-111-2	RPB-108-C2 RPB-110-C2 RPB-111-C2	RPB-108-N2 RPB-110-N2 RPB-111-N2	10.9	2 1/8	7 3/4	5 9/16	6.44	2.31	-	1.25	4.38	3.38	2.88	2	1/2
1 3/4 1 15/16 2	RPB-112-2 RPB-115-2 RPB-200-2	RPB-112-C2 RPB-115-C2 RPB-200-C2	RPB-112-N2 RPB-115-N2 RPB-200-N2	13.2	2 1/4	8 7/8	6 5/16	7.19	2.44	-	1.25	4.62	3.50	3.25	2	5/8
2 3/16	RPB-203-2	RPB-203-C2	RPB-203-N2	15.7	2 1/2	9 5/8	6 11/16	7.94	2.56	-	1.44	5.12	3.75	3.62	2	5/8
2 1/4 2 7/16 2 1/2	RPB-204-2 RPB-207-2 RPB-208-2	RPB-204-C2 RPB-207-C2 RPB-208-C2	RPB-204-N2 RPB-207-N2 RPB-208-N2	20.7	2 3/4	10 3/8	6 15/16	8.69	2.75	-	1.62	5.62	4.00	3.94	2	5/8
2 11/16 2 3/4 2 15/16 3	RPB-211-2 RPB-212-2 RPB-215-2 RPB-300-2	RPB-211-C2 RPB-212-C2 RPB-215-C2 RPB-300-C2	RPB-211-N2 RPB-212-N2 RPB-215-N2 RPB-300-N2	29.3	3 1/8	11 3/4	8 1/6	9.69	3.00	-	1.75	6.38	4.50	4.75	2	3/4
3 3/16 3 7/16 3 1/2	RPB-303-2 RPB-307-2 RPB-308-2	RPB-303-C2 RPB-307-C2 RPB-308-C2	RPB-303-N2 RPB-307-N2 RPB-308-N2	56.0	3 3/4	13 3/4	10 1/8	11.25	4.12	-	2.06	7.75	5.00	5.55	2	7/8

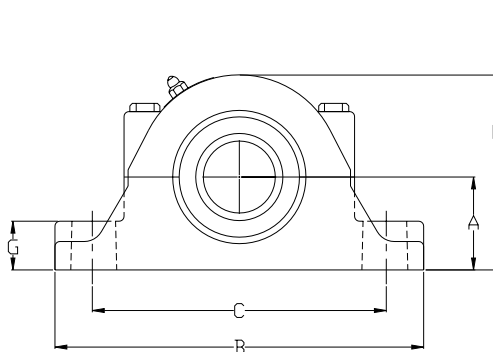
RPB Series Pillow Blocks...Four Bolt Base

SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES										BASE BOLTS	
	PART NO.	PART NO.	PART NO.		A	B	C		D	E	G	H	J	L	NO.	SIZE
							MIN.	MAX.								
2 1/4 2 7/16 2 1/2	RPB-204-4 RPB-207-4 RPB-208-4	RPB-204-C4 RPB-207-C4 RPB-208-C4	RPB-204-N4 RPB-207-N4 RPB-208-N4	22.4	2.75	10.38	7.75	8.75	3.50	1.88	1.62	5.62	4.00	3.94	4	5/8
2 11/16 2 3/4 2 15/16 3	RPB-211-4 RPB-212-4 RPB-215-4 RPB-300-4	RPB-211-C4 RPB-212-C4 RPB-215-C4 RPB-300-C4	RPB-211-N4 RPB-212-N4 RPB-215-N4 RPB-300-N4	31.5	3.12	11.75	8.75	10.00	3.75	2.12	1.75	6.38	4.50	4.75	4	5/8
3 3/16 3 7/16 3 1/2	RPB-303-4 RPB-307-4 RPB-308-4	RPB-303-C4 RPB-307-C4 RPB-308-C4	RPB-303-N4 RPB-307-N4 RPB-308-N4	59.6	3.75	13.75	10.56	11.50	4.50	2.38	2.06	7.75	5.00	5.55	4	5/8
3 15/16 4	RPB-315-4 RPB-400-4	RPB-315-C4 RPB-400-C4	RPB-315-N4 RPB-400-N4	76.9	4.25	15.25	11.00	13.00	4.50	2.25	2.44	8.62	6.25	6.00	4	5/8
4 7/16 4 1/2	RPB-407-4 RPB-408-4	RPB-407-C4 RPB-408-C4	RPB-407-N4 RPB-408-N4	95.6	4.75	16.50	11.75	13.88	4.62	2.50	2.75	9.62	6.75	6.50	4	3/4
4 15/16 5	RPB-415-4 RPB-500-4	RPB-415-C4 RPB-500-C4	RPB-415-N4 RPB-500-N4	143.6	5.50	18.50	13.50	15.88	5.12	2.75	3.12	11.00	7.25	7.31	4	7/8

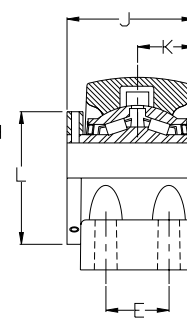
See page 105 for seal arrangements. (1) High temp units are factory assembled-to-order basis.
For Load Ratings, see page 121.



Two Bolt Base



The RPB-A series is similar in design to RPB series, but has only one locking collar, and is recommended where axial shaft space is limited.



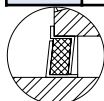
Four Bolt Base

RPB-A Series Pillow Blocks...Two Bolt Base

SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES											BASE BOLTS	
	PART NO.	PART NO.	PART NO.		A	B	C		D	E	G	H	J	K	L		
							MIN.	MAX.								NO.	SIZE
1 3/16	RPBA-103-2	RPBA-103-C2	RPBA-103-N2	4.8	1.50	6.25	4.56	4.94	1.88	-	.88	3.12	2.37	1.00	2.25	2	1/2
1 1/4	RPBA-104-2	RPBA-104-C2	RPBA-104-N2		1.50	6.25	4.56	4.94	1.88	-	.88	3.12	2.37	1.00	2.25	2	1/2
1 3/8	RPBA-106-2	RPBA-106-C2	RPBA-106-N2	7.7	1.88	7.25	5.31	5.94	2.06	-	1.12	3.81	2.53	1.15	2.62	2	1/2
1 7/16	RPBA-107-2	RPBA-107-C2	RPBA-107-N2		1.88	7.25	5.31	5.94	2.06	-	1.12	3.81	2.53	1.15	2.62	2	1/2
1 1/2	RPBA-108-2	RPBA-108-C2	RPBA-108-N2	10.9	2.12	7.75	5.56	6.44	2.31	-	1.25	4.38	2.84	1.15	2.88	2	1/2
1 5/8	RPBA-110-2	RPBA-110-C2	RPBA-110-N2		2.12	7.75	5.56	6.44	2.31	-	1.25	4.38	2.84	1.15	2.88	2	1/2
1 11/16	RPBA-111-2	RPBA-111-C2	RPBA-111-N2	13.2	2.25	8.88	6.31	7.19	2.44	-	1.25	4.62	2.95	1.20	3.25	2	5/8
1 3/4	RPBA-112-2	RPBA-112-C2	RPBA-112-N2		2.25	8.88	6.31	7.19	2.44	-	1.25	4.62	2.95	1.20	3.25	2	5/8
1 15/16	RPBA-115-2	RPBA-115-C2	RPBA-115-N2	13.2	2.25	8.88	6.31	7.19	2.44	-	1.25	4.62	2.95	1.20	3.25	2	5/8
2	RPBA-200-2	RPBA-200-C2	RPBA-200-C2		2.25	8.88	6.31	7.19	2.44	-	1.25	4.62	2.95	1.20	3.25	2	5/8
2 3/16	RPBA-203-2	RPBA-203-C2	RPBA-203-N2	15.7	2.50	9.62	6.69	7.94	2.56	-	1.44	5.12	3.12	1.25	3.62	2	5/8
2 1/4	RPBA-204-2	RPBA-204-C2	RPBA-204-N2	20.7	2.75	10.38	6.94	8.69	2.75	-	1.82	5.62	3.31	1.31	3.94	2	5/8
2 7/16	RPBA-207-2	RPBA-207-C2	RPBA-207-N2		2.75	10.38	6.94	8.69	2.75	-	1.82	5.62	3.31	1.31	3.94	2	5/8
2 1/2	RPBA-208-2	RPBA-208-C2	RPBA-208-N2	29.3	3.12	11.75	8.06	9.69	3.00	-	1.75	6.38	3.69	1.44	4.75	2	3/4
2 11/16	RPBA-211-2	RPBA-211-C2	RPBA-211-N2		3.12	11.75	8.06	9.69	3.00	-	1.75	6.38	3.69	1.44	4.75	2	3/4
2 3/4	RPBA-212-2	RPBA-212-C2	RPNA-212-N2	29.3	3.12	11.75	8.06	9.69	3.00	-	1.75	6.38	3.69	1.44	4.75	2	3/4
2 15/16	RPBA-215-2	RPBA-215-C2	RPBA-215-N2		3.12	11.75	8.06	9.69	3.00	-	1.75	6.38	3.69	1.44	4.75	2	3/4
3	RPBA-300-2	RPBA-300-C2	RPBA-300-N2	56.0	3.75	13.75	10.12	11.25	4.12	-	2.06	7.75	4.19	1.89	5.55	2	7/8
3 3/16	RPBA-303-2	RPBA-303-C2	RPBA-303-N2		3.75	13.75	10.12	11.25	4.12	-	2.06	7.75	4.19	1.89	5.55	2	7/8
3 7/16	RPBA-307-2	RPBA-307-C2	RPBA-307-N2	56.0	3.75	13.75	10.12	11.25	4.12	-	2.06	7.75	4.19	1.89	5.55	2	7/8
3 1/2	RPBA-308-2	RPBA-308-C2	RPBA-308-N2		3.75	13.75	10.12	11.25	4.12	-	2.06	7.75	4.19	1.89	5.55	2	7/8

RPB-A Series Pillow Blocks...Four Bolt Base

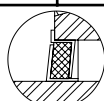
SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES											BASE BOLTS	
	PART NO.	PART NO.	PART NO.		A	B	C		D	E	G	H	J	K	L		
							MIN.	MAX								NO.	SIZE
2 1/4	RPBA-204-4	RPBA-204-C4	RPBA-204-N4	22.4	2.75	10.38	7.75	8.75	3.50	1.88	1.82	5.62	3.31	1.31	3.94	4	5/8
2 7/16	RPBA-207-4	RPBA-207-C4	RPBA-207-N4														
2 1/2	RPBA-208-4	RPBA-208-C4	RPBA-208-N4														
2 11/16	RPBA-211-4	RPBA-211-C4	RPBA-211-N4	31.5	3.12	11.75	8.75	10.00	3.75	2.12	1.75	6.38	3.69	1.44	4.75	4	3/4
2 3/4	RPBA-212-4	RPBA-212-C4	RPNA-212-N4														
2 15/16	RPBA-215-4	RPBA-215-C4	RPBA-215-N4														
3	RPBA-300-4	RPBA-300-C4	RPBA-300-N4	59.8	3.75	13.75	10.56	11.50	4.50	2.38	2.06	7.75	4.19	1.89	5.55	4	7/8
3 3/16	RPBA-303-4	RPBA-303-C4	RPBA-303-N4														
3 7/16	RPBA-307-4	RPBA-307-C4	RPBA-307-N4														
3 1/2	RPBA-308-4	RPBA-308-C4	RPBA-308-N4	76.9	4.25	15.25	11.00	13.00	4.50	2.25	2.44	8.62	5.25	2.13	6.00	4	5/8
3 15/16	RPBA-315-4	RPBA-315-C4	RPBA-315-N4														
4	RPBA-400-4	RPBA-400-C4	RPBA-400-N4														
4 7/16	RPBA-407-4	RPBA-407-C4	RPBA-407-N4	95.6	4.75	16.50	11.75	13.88	4.62	2.50	2.87	9.63	5.50	2.12	6.50	4	3/4
4 1/2	RPBA-408-4	RPBA-408-C4	RPBA-408-N4														
4 15/16	RPBA-415-4	RPBA-415-C4	RPBA-415-N4														
5	RPBA-500-4	RPBA-500-C4	RPBA-500-N4	143.6	5.50	18.50	13.50	15.88	5.12	2.75	3.12	11.00	6.21	2.58	7.31	4	7/8



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



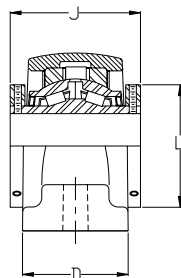
Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail.



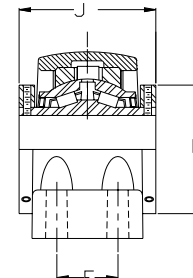
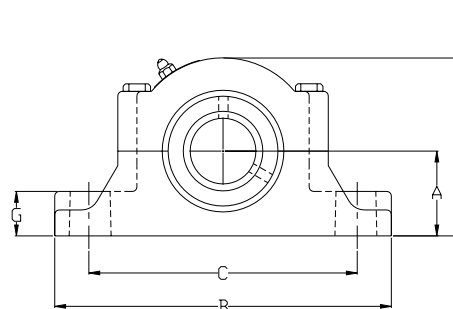
Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range.

For Replacement Cartridge Insert See Page 120.
For Load Ratings See Page 121.
For Metric Bores, See Page 127.

(1) Hi-Temp Units are factory assembled-to-order basis.



Two Bolt Base



Four Bolt Base

ERPB Series Expansion Type Pillow Blocks...Two Bolt Base

SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES										BASE BOLTS		TOTAL EXPANSION
	PART NO.	PART NO.	PART NO.		A	B	C		D	E	G	H	J	L	NO.	SIZE	
							MIN.	MAX.									
1 3/4 1 15/16 2	ERPB-112-2 ERPB-115-2 ERPB-200-2	ERPB-112-C2 ERPB-115-C2 ERPB-200-C2	ERPB-112-N2 ERPB-115-N2 ERPB-200-N2	14.9	2.25	8.88	6.31	7.19	2.89	—	1.25	4.88	3.50	3.25	2	5/8	3/16
2 3/16	ERPB-203-2	ERPB-203-C2	ERPB-203-N2	17.8	2.50	9.62	6.69	7.94	3.03	—	1.44	5.31	3.75	3.62	2	5/8	3/16
2 1/4 2 7/16 2 1/2	ERPB-204-2 ERPB-207-2 ERPB-208-2	ERPB-204-C2 ERPB-207-C2 ERPB-208-C2	ERPB-204-N2 ERPB-207-N2 ERPB-208-N2	23.0	2.75	10.38	6.94	8.69	3.41	—	1.62	5.75	4.00	3.94	2	5/8	1/4
2 11/16 2 3/4 2 15/16 3	ERPB-211-2 ERPB-212-2 ERPB-215-2 ERPB-300-2	ERPB-211-C2 ERPB-212-C2 ERPB-215-C2 ERPB-300-C2	ERPB-211-N2 ERPB-212-N2 ERPB-215-N2 ERPB-300-N2	32.0	3.12	11.75	8.06	9.69	3.48	—	1.75	6.56	4.50	4.75	2	3/4	5/16
3 3/16 3 7/16 3 1/2	ERPB-303-2 ERPB-307-2 ERPB-308-2	ERPB-303-C2 ERPB-307-C2 ERPB-308-C2	ERPB-303-N2 ERPB-307-N2 ERPB-308-N2	64.0	3.75	13.75	10.12	11.25	4.51	—	2.06	7.94	5.00	5.55	2	7/8	5/16

ERPB Series Expansion Type Pillow Blocks...Four Bolt Base

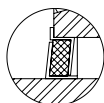
SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES										BASE BOLTS		TOTAL EXPANSION
	PART NO.	PART NO.	PART NO.		A	B	C		D	E	G	H	J	L	NO.	SIZE	
							MIN.	MAX.									
3 15/16 4	ERPB-315-4 ERPB-400-4	ERPB-315-C4 ERPB-400-C4	ERPB-315-N4 ERPB-400-N4	90.0	4.25	15.25	11.00	13.00	5.15	2.25	2.44	8.88	6.25	6.00	4	3/4	3/8
4 7/16 4 1/2	ERPB-407-4 ERPB-408-4	ERPB-407-C4 ERPB-408-C4	ERPB-407-N4 ERPB-408-N4	110.6	4.75	16.50	11.75	13.88	5.35	2.50	2.75	9.88	6.75	6.50	4	3/4	3/8
4 15/16 5	ERPB-415-4 ERPB-500-4	ERPB-415-C4 ERPB-500-C4	ERPB-415-N4 ERPB-500-N4	161.0	5.50	18.50	13.50	15.88	6.07	2.75	3.12	11.31	7.25	7.31	4	7/8	3/8

The ERPB series of expansion roller bearing pillow blocks is designed for use in conjunction with the RPB and RPBA series where a "floating" or expansion type block is required.

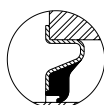
While two fixed units mounted on one shaft are normally satisfactory for most applications, expansion units are recommended:

1. Where bearing supports are not rigid.
2. Where significant temperature differentials are expected between shafts and mounting structures.
3. Where shaft is unusually long.

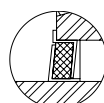
At least one bearing on each shaft must be of the fixed type.



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail.



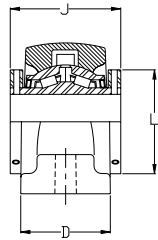
Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range.

For Replacement Cartridge Insert See Page 120.

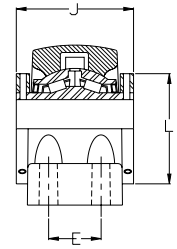
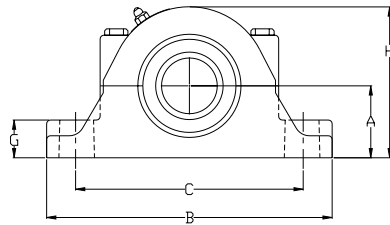
For Load Ratings See Page 121.

For Metric Bores, See Page 127.

(1) Hi-Temp Units are factory assembled-to-order basis.



Two Bolt Base



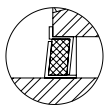
Four Bolt Base

DRPB Series Pillow Blocks...Two Bolt Base (DI INTERCHANGE)

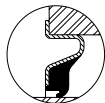
SHAFT DIAM. IN.	STANDARD SEAL PART NO.	CONTACT SEAL PART NO.	HI-TEMP (1) SEAL PART NO.	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES										BASE BOLTS	
					A	B	C		D	E	G	H	J	L	NO.	SIZE
							MIN.	MAX								
1 3/4 1 15/16 2	DRPB-112-2 DRPB-115-2 DRPB-200-2	DRPB-112-C2 DRPB-115-C2 DRPB-200-C2	DRPB-112-N2 DRPB-115-N2 DRPB-200-N2	17.5	2.88	10.00	6.75	8.50	2.57	—	1.50	5.25	3.50	3.25	2	5/8
2 3/16	DRPB-203-2	DRPB-203-C2	DRPB-203-N2	19.7	3.00	11.00	7.75	9.25	2.56	—	1.56	5.62	3.75	3.62	2	5/8
2 1/4 2 7/16 2 1/2	DRPB-204-2 DRPB-207-2 DRPB-208-2	DRPB-204-C2 DRPB-207-C2 DRPB-208-C2	DRPB-204-N2 DRPB-207-N2 DRPB-208-N2	25.5	3.25	12.00	8.50	10.38	2.88	—	1.75	6.12	4.00	3.94	2	5/8
2 11/16 2 3/4 2 15/16 3	DRPB-211-2 DRPB-212-2 DRPB-215-2 DRPB-300-2	DRPB-211-C2 DRPB-212-C2 DRPB-215-C2 DRPB-300-C2	DRPB-211-N2 DRPB-212-N2 DRPB-215-N2 DRPB-300-N2	35.2	3.75	13.50	9.32	11.56	3.12	—	2.00	7.00	4.50	4.75	2	3/4
3 3/16 3 7/16 3 1/2	DRPB-303-2 DRPB-307-2 DRPB-308-2	DRPB-303-C2 DRPB-307-C2 DRPB-308-C2	DRPB-303-N2 DRPB-307-N2 DRPB-308-N2	67.8	4.50	16.00	10.87	13.27	4.38	—	2.25	8.50	5.00	5.55	2	7/8

DRPB Series Pillow Blocks...Four Bolt Base (DI INTERCHANGE)

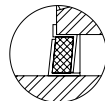
SHAFT DIAM. IN.	STANDARD SEAL PART NO.	CONTACT SEAL PART NO.	HI-TEMP (1) SEAL PART NO.	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES										BASE BOLTS	
					A	B	C		D	E	G	H	J	L	NO.	SIZE
							MIN.	MAX								
3 15/16 4	DRPB-315-4 DRPB-400-4	DRPB-315-C4 DRPB-400-C4	DRPB-315-N4 DRPB-400-N4	93.0	5.00	17.50	12.00	15.00	4.67	2.00	2.75	9.38	6.25	6.00	4	3/4



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail.



Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range.

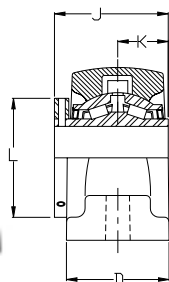
The DRPB units have a high base-to shaft centerline and wide base mounting dimensions, and are interchangeable with competitive "DI" types. Bearing load and speed capabilities are equal to RPB.

For Replacement Cartridge Insert See Page 120.

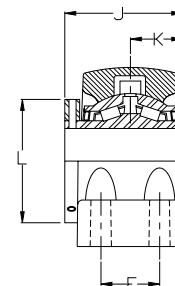
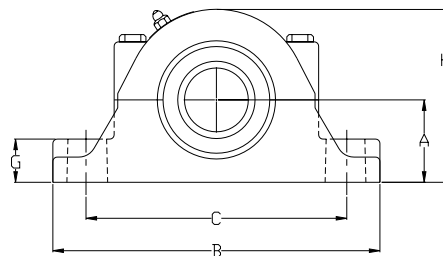
For Load Ratings See Page 121.

For Metric Bores, See Page 127.

(1) Hi-Temp Units are factory assembled-to-order basis.



Two Bolt Base



Four Bolt Base

DRPB-A Series Pillow Blocks...Two Bolt Base (K INTERCHANGE)

SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES											BASE BOLTS	
	PART NO.	PART NO.	PART NO.		A	B	C		D	E	G	H	J	K	L	NO.	SIZE
							MIN.	MAX									
1 3/4 1 15/16 2	DRPBA-112-2 DRPBA-115-2 DRPBA-200-2	DRPBA-112-C2 DRPBA-115-C2 DRPBA-200-C2	DRPBA-112-N2 DRPBA-115-N2 DRPBA-200-N2	17.5	2.88	10.00	6.75	8.50	2.57	—	1.50	5.25	2.95	1.20	3.25	2	5/8
2 3/16	DRPBA-203-2	DRPBA-203-C2	DRPBA-203-N2	19.7	3.00	11.00	7.75	9.25	2.56	—	1.56	5.62	3.12	1.25	3.62	2	5/8
2 1/4 2 7/16 2 1/2	DRPBA-204-2 DRPBA-207-2 DRPBA-208-2	DRPBA-204-C2 DRPBA-207-C2 DRPBA-208-C2	DRPBA-204-N2 DRPBA-207-N2 DRPBA-208-N2	25.5	3.25	12.00	8.50	10.38	2.88	—	1.75	6.12	3.31	1.31	3.94	2	5/8
2 11/16 2 3/4 2 15/16 3	DRPBA-211-2 DRPBA-212-2 DRPBA-215-2 DRPBA-300-2	DRPBA-211-C2 DRPBA-212-C2 DRPBA-215-C2 DRPBA-300-C2	DRPBA-211-N2 DRPBA-212-N2 DRPBA-215-N2 DRPBA-300-N2	35.2	3.75	13.50	9.32	11.56	3.12	—	2.00	7.00	3.69	1.44	4.75	2	3/4
3 3/16 3 7/16 3 1/2	DRPBA-303-2 DRPBA-307-2 DRPBA-308-2	DRPBA-303-C2 DRPBA-307-C2 DRPBA-308-C2	DRPBA-303-N2 DRPBA-307-N2 DRPBA-308-N2	67.8	4.50	16.00	10.87	13.27	4.38	—	2.25	8.50	4.19	1.69	5.55	2	7/8

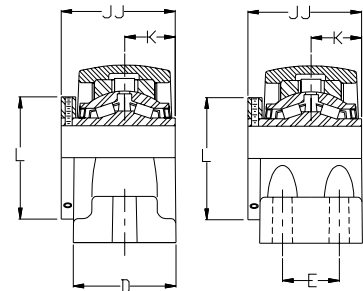
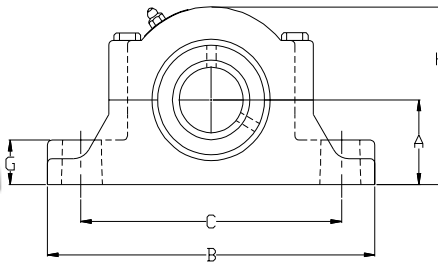
DRPB-A Series Pillow Blocks...Four Bolt Base (K INTERCHANGE)

SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES											BASE BOLTS	
	PART NO.	PART NO.	PART NO.		A	B	C		D	E	G	H	J	K	L	NO.	SIZE
							MIN.	MAX.									
3 15/16 4	DRPBA-315-4 DRPBA-400-4	DRPBA-315-C4 DRPBA-400-C4	DRPBA-315-N4 DRPBA-400-N4	93.0	5.00	17.50	12.00	15.00	4.67	2.00	2.75	9.38	5.25	2.13	6.00	4	3/4

See page 109 for seal arrangements.

(1) High temp units are factory assembled-to-order basis.

The DRPB-A units have a high base-to shaft centerline and wide base mounting dimensions, and are interchangeable with competitive "K" types. Bearing load and speed capabilities are equal to RPB. The DRPB-A series units are similar in design to DRPB series, but have only one cone extension and one locking collar, and are recommended where axial shaft space is limited.



Two Bolt Base Four Bolt Base

EDPB-A Series Expansion Type Pillow Blocks...Two Bolt Base

SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES											BASE BOLTS		TOTAL EXPANSION
	PART NO.	PART NO.	PART NO.		A	B	C		D	E	G	H	JJ	K	L	NO.	SIZE	
							MIN.	MAX.										
1 3/4 1 15/16 2	EDPBA-112-2 EDPBA-115-2 EDPBA-200-2	EDPBA-112-C2 EDPBA-115-C2 EDPBA-200-C2	EDPBA-112-N2 EDPBA-115-N2 EDPBA-200-N2	19.2	2.88	10.00	6.75	8.50	2.57	—	1.50	5.50	2.95	1.20	3.25	2	5/8	3/16
2 3/16	EDPBA-203-2	EDPBA-203-C2	EDPBA-203-N2	21.8	3.00	11.00	7.75	9.25	2.56	—	1.56	5.81	3.12	1.25	3.62	2	5/8	3/16
2 1/4 2 7/16 2 1/2	EDPBA-204-2 EDPBA-207-2 EDPBA-208-2	EDPBA-204-C2 EDPBA-207-C2 EDPBA-208-C2	EDPBA-204-N2 EDPBA-207-N2 EDPBA-208-N2	27.8	3.25	12.00	8.50	10.38	2.88	—	1.75	6.25	3.31	1.31	3.94	2	5/8	1/4
2 11/16 2 3/4 2 15/16 3	EDPBA-211-2 EDPBA-212-2 EDPBA-215-2 EDPBA-300-2	EDPBA-211-C2 EDPBA-212-C2 EDPBA-215-C2 EDPBA-300-C2	EDPBA-211-N2 EDPBA-212-N2 EDPBA-215-N2 EDPBA-300-N2	38.0	3.75	13.50	9.32	11.56	3.12	—	2.00	7.18	3.69	1.44	4.75	2	3/4	5/16
3 3/16 3 7/16 3 1/2	EDPBA-303-2 EDPBA-307-2 EDPBA-308-2	EDPBA-303-C2 EDPBA-307-C2 EDPBA-308-C2	EDPBA-303-N2 EDPBA-307-N2 EDPBA-308-N2	75.8	4.50	16.00	10.87	13.27	4.38	—	2.25	8.69	4.19	1.69	5.55	2	7/8	5/16

EDPB-A Series Expansion Type Pillow Blocks...Four Bolt Base

SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES										BASE BOLTS		TOTAL EXPANSION	
	PART NO.	PART NO.	PART NO.		A	B	C		D	E	G	H	JJ	K	L	NO.		SIZE
							MIN.	MAX.										
3 15/16 4	EDPBA-315-4 EDPBA-400-4	EDPBA-315-C4 EDPBA-400-C4	EDPBA-315-N4 EDPBA-400-N4	106.00	5.00	17.50	12.00	15.00	4.67	2.00	2.75	9.62	5.25	2.13	6.00	4	3/4	3/8

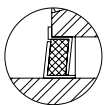
The EDPB-A series of expansion roller bearing pillow blocks with single locking collar is designed for use in conjunction with the DRPB-A series where a "floating" or expansion type block is required.

Matching mounting dimensions provides for ease in application.

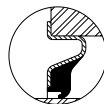
While two fixed units mounted on one shaft are normally satisfactory for most applications, expansion units are recommended:

1. Where bearing supports are not rigid.
2. Where significant temperature differentials are expected between shafts and mounting structures.
3. Where shaft is unusually long.

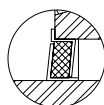
At least one bearing on each shaft must be of the fixed type.



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail.



Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range.

For Replacement Cartridge Insert See Page 120.

For Load Ratings See Page 121.

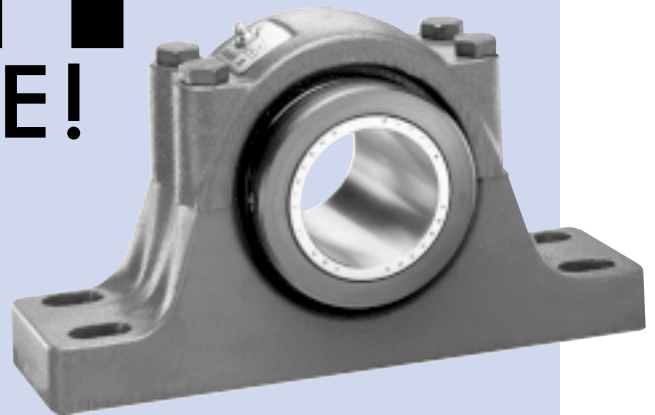
For Metric Bores, See Page 127.

(1) Hi-Temp Units are factory assembled-to-order basis.

TOUGH AS THEY COME!

RPBXT and ERPBXT Mounted Roller Bearings...

The Time-Savers...



That are a Dimensional Interchange with SAF... Bearings

The **RPBXT/ERPBXT** lines offer users significantly reduced costs for assembly and installation. This line of four-bolt nonexpansion (RPBXT) and expansion (ERPBXT) roller bearing pillow blocks is available in bore sizes from 2 1/4" through 5". It offers users a factory assembled, self-aligning, mounted tapered roller bearing unit that *interchanges* shaft-to-centerline and bolt hole spacing with the popular 500 series SAF style spherical roller bearing pillow blocks.

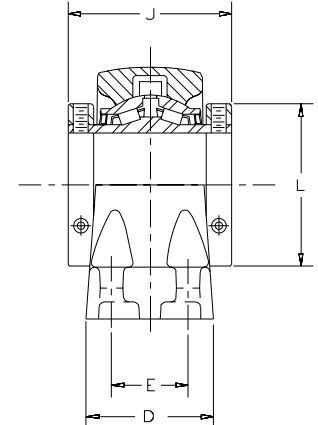
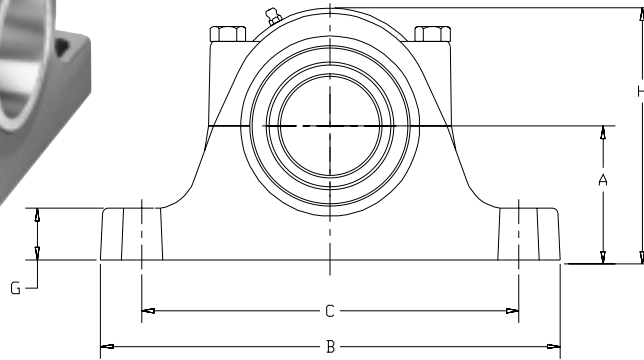
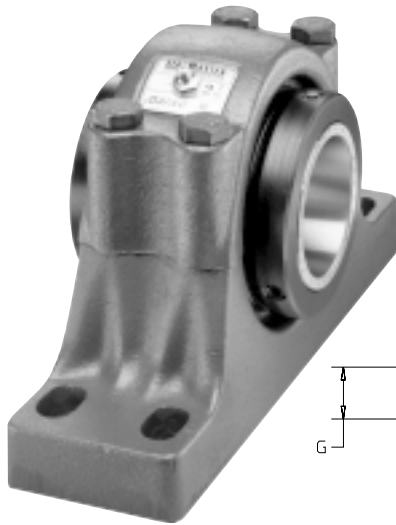
RPBXT Series Bearings Eliminate Assembly and Adjustment at Installation.

When users replace 500 series SAF style pillow blocks with the New SEALMASTER RPBXT, installation is *easier* and *faster*. Here's why:

RPBXT Units	VS	SAF Units
• RPBXT units are fully-assembled, sealed and factory lubricated, ready to install right onto the shaft when they're received. <i>You save time and money.</i> • At installation, the RPBXT unit is simply secured to the shaft with concentric double locking collars, each of which has two setscrews at 120°, providing balanced three-point contact and symmetrical locking.		• SAF Units require complete assembly: The bearing, housing, seals, adapter nut, sleeve and washer are <i>all</i> shipped loose. The user must assemble <i>all</i> components, adjust bearing clearances during assembly and lubricate the bearing unit. • SAF Units are locked to the shaft with an adapter sleeve and tightened with a locknut/lockwasher assembly.

Misalignment is a Tough Challenge for Bearings and Seals... RPBXT Handles it Better!

RPBXT Units	VS	SAF Units
RPBXT units have race mounted seals that move with the cartridge insert and are <i>not</i> subjected to shaft misalignment stress. RPBXT Seals can accommodate up to $\pm 3^\circ$ degrees of shaft misalignment stress without loss of seal effectiveness. RPBXT roller bearings offer the user a wide choice of seals to suit application needs including patented labyrinth seals, proven in thousands of applications, a single lip contact seal, or the high temperature (Nomex) seal. Once the lubricant permeates the felt (seal), a lower coefficient of friction (reduced drag) and extended operating life result.		SAF style pillow blocks operate successfully in misaligned conditions up to $\pm 1\ 1/2^\circ$ because the spherical O.D. of the bearing matches the spherical I.D. of the outer race. Thus, misalignment is internal. The seals however are mounted between the stationary housing and the shaft and are subject to movement when misaligned. The seals are designed with clearances to allow for the movement therefore reducing their effectiveness.



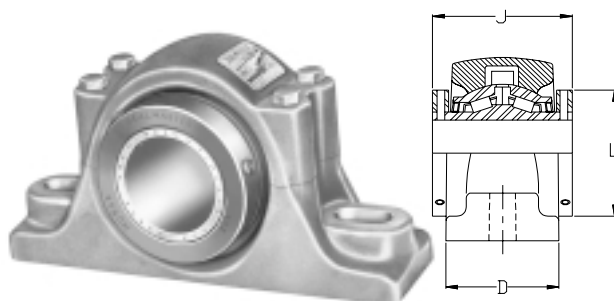
RPBXT Series Pillow Blocks...Four Bolt Base

SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES										BASE BOLTS	
	PART NO.	PART NO.	PART NO.		A	B	C		D	E	G	H	J	L	NO.	SIZE
							MIN.	MAX.								
2 1/4 2 7/16 2 1/2	RPBXT-204-4 RPBXT-207-4 RPBXT-208-4	RPBXT-204-C4 RPBXT-207-C4 RPBXT-208-C4	RPBXT-204-N4 RPBXT-207-N4 RPBXT-208-N4	25.5	3.25	11.25	8.62	9.62	3.12	1.88	1.25	6.12	4.00	3.94	4	1/2
2 11/16 2 3/4 2 15/16 3	RPBXT-211-4 RPBXT-212-4 RPBXT-215-4 RPBXT-300-4	RPBXT-211-C4 RPBXT-212-C4 RPBXT-215-C4 RPBXT-300-C4	RPBXT-211-N4 RPBXT-212-N4 RPBXT-215-N4 RPBXT-300-N4	36.2	3.75	13.00	10.00	11.00	3.50	2.12	1.50	7.00	4.50	4.75	4	5/8
3 1/4 3 7/16 3 1/2	RPBXT-304-4 RPBXT-307-4 RPBXT-308-4	RPBXT-304-C4 RPBXT-307-C4 RPBXT-308-C4	RPBXT-304-N4 RPBXT-307-N4 RPBXT-308-N4	67.8	4.50	15.25	11.75	12.75	4.38	2.38	1.75	8.50	5.00	5.55	4	3/4
3 15/16 4	RPBXT-315-4 RPBXT-400-4	RPBXT-315-C4 RPBXT-400-C4	RPBXT-315-N4 RPBXT-400-N4	93.0	4.94	16.50	12.88	14.12	4.75	2.75	2.00	9.31	6.25	6.00	4	3/4
4 7/16 4 1/2	RPBXT-407-4 RPBXT-408-4	RPBXT-407-C4 RPBXT-408-C4	RPBXT-407-N4 RPBXT-408-N4	114.7	6.00	18.38	14.50	16.00	5.25	3.25	2.50	10.88	6.75	6.50	4	7/8
4 15/16 5	RPBXT-415-4 RPBXT-500-4	RPBXT-415-C4 RPBXT-500-C4	RPBXT-415-N4 RPBXT-500-N4	172.4	6.00	20.12	15.62	17.38	6.00	3.38	2.50	11.50	7.25	7.31	4	1

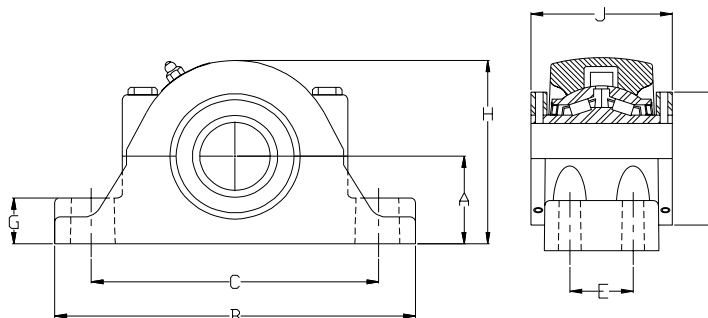
ERPBT Series Pillow Blocks...Four Bolt Base

SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES										BASE BOLTS	
	PART NO.	PART NO.	PART NO.		A	B	C		D	E	G	H	J	L	NO.	SIZE
							MIN.	MAX.								
2 1/4 2 7/16 2 1/2	ERPBT-204-4 ERPBT-207-4 ERPBT-208-4	ERPBT-204-C4 ERPBT-207-C4 ERPBT-208-C4	ERPBT-204-N4 ERPBT-207-N4 ERPBT-208-N4	27.7	3.25	11.25	8.62	9.62	3.42	1.88	1.25	6.25	4.00	3.94	4	1/2
2 11/16 2 3/4 2 15/16 3	ERPBT-211-4 ERPBT-212-4 ERPBT-215-4 ERPBT-300-4	ERPBT-211-C4 ERPBT-212-C4 ERPBT-215-C4 ERPBT-300-C4	ERPBT-211-N4 ERPBT-212-N4 ERPBT-215-N4 ERPBT-300-N4	39.0	3.75	13.00	10.00	11.00	3.50	2.12	1.50	7.19	4.50	4.75	4	5/8
3 1/4 3 7/16 3 1/2	ERPBT-304-4 ERPBT-307-4 ERPBT-308-4	ERPBT-304-C4 ERPBT-307-C4 ERPBT-308-C4	ERPBT-304-N4 ERPBT-307-N4 ERPBT-308-N4	75.3	4.50	15.25	11.75	12.75	4.50	2.38	1.75	8.69	5.00	5.55	4	3/4
3 15/16 4	ERPBT-315-4 ERPBT-400-4	ERPBT-315-C4 ERPBT-400-C4	ERPBT-315-N4 ERPBT-400-N4	106.0	4.94	16.50	12.88	14.12	5.18	2.75	2.00	9.56	6.25	6.00	4	3/4
4 7/16 4 1/2	ERPBT-407-4 ERPBT-408-4	ERPBT-407-C4 ERPBT-408-C4	ERPBT-407-N4 ERPBT-408-N4	140.0	6.00	18.38	14.50	16.00	5.40	3.25	2.50	11.13	6.75	6.50	4	7/8
4 15/16 5	ERPBT-415-4 ERPBT-500-4	ERPBT-415-C4 ERPBT-500-C4	ERPBT-415-N4 ERPBT-500-N4	190.0	6.00	20.12	15.62	17.38	6.09	3.38	2.50	11.81	7.25	7.31	4	1

See page 109 for seal arrangements. (1) High temp units are factory assembled-to-order basis.
For Load Ratings, See Page 121.



Two Bolt Base



Four Bolt Base

SPB Series Pillow Blocks...Two Bolt Base (Cast Steel Housing)

SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES										BASE BOLTS	
	PART NO.	PART NO.	PART NO.		A	B	C		D	E	G	H	J	L	NO.	SIZE
							MIN.	MAX								
1 1/2 1 5/8 1 11/16	SPB-108-2 SPB-110-2 SPB-111-2	SPB-108-C2 SPB-110-C2 SPB-111-C2	SPB-108-N2 SPB-110-N2 SPB-111-N2	12.0	2.12	7.75	5.56	6.44	2.31	—	1.25	4.38	3.38	2.88	2	1/2
1 3/4 1 15/16 2	SPB-112-2 SPB-115-2 SPB-200-2	SPB-112-C2 SPB-115-C2 SPB-200-C2	SPB-112-N2 SPB-115-N2 SPB-200-N2	14.5	2.25	8.88	6.31	7.19	2.44	—	1.25	4.62	3.50	3.25	2	5/8
2 3/16	SPB-203-2	SPB-203-C2	SPB-203-N2	17.3	2.50	9.62	6.69	7.94	2.56	—	1.44	5.12	3.75	3.62	2	5/8
2 1/4 2 7/16 2 1/2	SPB-204-2 SPB-207-2 SPB-308-2	SPB-204-C2 SPB-207-C2 SPB-208-C2	SPB-204-N2 SPB-207-N2 SPB-208-N2	22.8	2.75	10.38	6.94	8.69	2.75	—	1.62	5.62	4.00	3.94	2	5/8
2 11/16 2 3/4 2 15/16 3	SPB-211-2 SPB-212-2 SPB-215-2 SPB-300-2	SPB-211-C2 SPB-212-C2 SPB-213-C2 SPB-300-C2	SPB-211-N2 SPB-212-N2 SPB-213-N2 SPB-300-N2	32.2	3.12	11.75	8.06	9.69	3.00	—	1.75	6.38	4.50	4.75	2	3/4
3 3/16 3 7/16 3 1/2	SPB-303-2 SPB-307-2 SPB-308-2	SPB-303-C2 SPB-307-C2 SPB-308-C2	SPB-303-N2 SPB-307-N2 SPB-308-N2	65.6	3.75	13.75	10.12	11.25	4.12	—	2.06	7.75	5.00	5.55	2	7/8

SPB Series Pillow Blocks...Four Bolt Base (Cast Steel Housing)

SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES										BASE BOLTS	
	PART NO.	PART NO.	PART NO.		A	B	C		D	E	G	H	J	L	NO.	SIZE
							MIN.	MAX								
3 15/16 4	SPB-315-4 SPB-400-4	SPB-315-C2 SPB-400-C2	SPB-315-N2 SPB-400-N2	84.6	4.25	15.25	11.00	13.00	4.50	2.25	2.44	8.62	6.25	6.00	4	3/4
4 7/16 4 1/2	SPB-407-4 SPB-408-4	SPB-407-C2 SPB-408-C2	SPB-407-N2 SPB-408-N2	105.2	4.75	16.50	11.75	13.88	4.62	2.50	2.75	9.62	6.75	6.50	4	3/4
4 15/16 5	SPB-415-4 SPB-500-4	SPB-415-C2 SPB-500-C2	SPB-415-N2 SPB-500-N2	158.0	5.50	18.50	13.50	15.88	5.12	2.75	3.12	11.00	7.25	7.31	4	7/8

See page 109 for seal arrangements. (1) High temp units are factory assembled-to-order basis.

The SPB series pillow blocks use a rugged cast steel housing which provides maximum housing strength at a given unit weight. These factory assembled-to-order units have housings meeting SAE J43T specifications, 65,000 PSI. They come with Sealmaster felt lined flinger seals as standard but the contact or Hi-Temp seal may be specified.

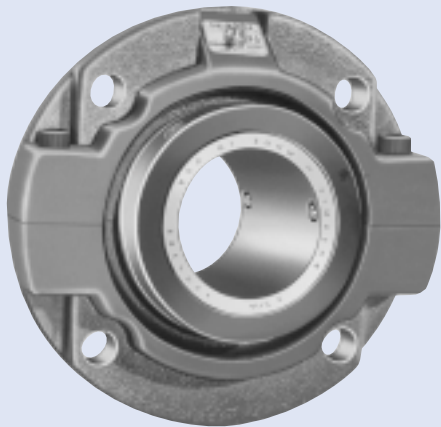
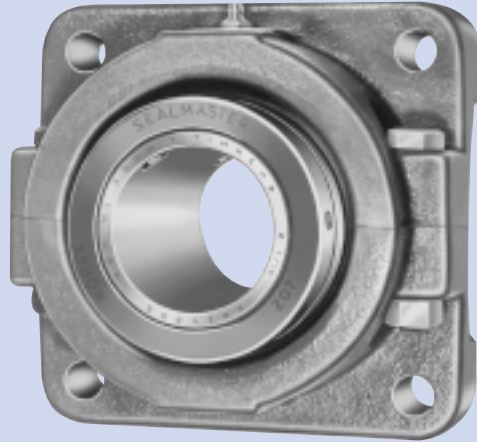
For Load Ratings, See Page 121.

TOUGH AS THEY COME!

FLANGE UNITS...

SEALMASTER split housed four-bolt flange units are designed for face mounting against vertical or horizontal structures where a minimum amount of machining is required. These flange housings have machined foot pads on the base to facilitate installation and removal of double locking collar styles. Flange units are available from 1 3/16" to 4 1/2" bore sizes in both single and double locking collars.

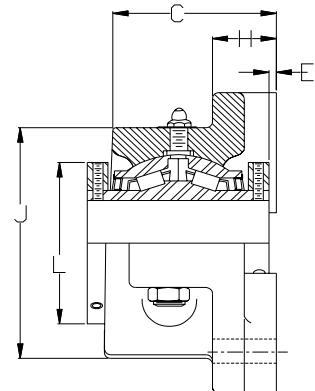
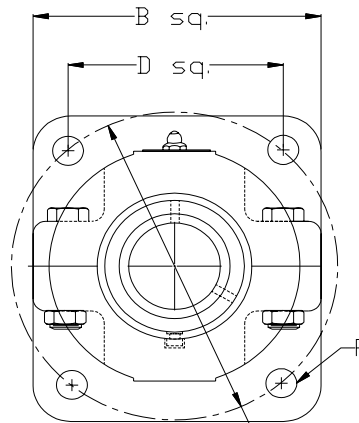
These units can be supplied with a choice of *three seals; felt, contact and high temperature nomex*. They are strongest when loads are applied in the thrust direction through the machined face.



PILOTED FLANGE UNITS...

SEALMASTER split housed piloted flange units are commonly used in applications where rotating and eccentric loads are present. Typical applications include vibrating conveyors material handling, construction, and mixers. The combination of flange and pilot features allow them to be integrally mounted in both horizontal and vertical shaft applications.

The split housing is designed with a machined pilot extension that provides added support, thus reducing stress on the mounting bolts. SEALMASTER piloted flange housings are round and stocked in *shaft sizes from 1 3/16" - 5"*. *Units through 4" contain four mounting bolts; sizes 4 7/16" through 5" contain six mounting bolts*. These units can be supplied with a *choice of three seals; felt, contact and high temperature nomex*. This series is available with both single and double lock collars. Provisions should be incorporated to facilitate installation and removal of double locking collar styles.

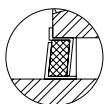


DD-Bolt Circle Diam.

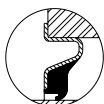
RFB Series Flange Units

SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES									
	PART NO.	PART NO.	PART NO.		A	B	C	D	DD	E	F BOLT	H	J	L
1 3/16 1 1/4	RFB-103 RFB-104	RFB-103-C RFB-104-C	RFB-103-N RFB-104-N	6.0	2.81	4.00	2.31	2.88	4.07	.06	3/8	1.00	3.50	2.25
1 3/8 1 7/16	RFB-106 RFB-107	RFB-106-C RFB-107-C	RFB-106-N RFB-107-N	8.1	3.06	4.62	2.56	3.50	4.95	.06	1/2	1.00	3.88	2.62
1 1/2 1 5/8 1 11/16	RFB-108 RFB-110 RFB-111	RFB-108-C RFB-110-C RFB-111-C	RFB-108-N RFB-110-N RFB-111-N	12.3	3.50	5.38	2.94	4.12	5.82	.12	1/2	1.19	4.50	2.88
1 3/4 1 15/16 2	RFB-112 RFB-115 RFB-200	RFB-112-C RFB-115-C RFB-200-C	RFB-112-N RFB-115-N RFB-200-N	14.5	3.62	5.62	3.06	4.38	6.19	.12	1/2	1.19	4.75	3.25
2 3/16	RFB-203	RFB-203-C	RFB-203-N	19.0	3.88	6.25	3.25	4.88	6.90	.12	5/8	1.38	5.25	3.62
2 1/4 2 7/16 2 1/2	RFB-204 RFB-207 RFB-208	RFB-204-C RFB-207-C RFB-208-C	RFB-204-N RFB-207-N RFB-208-N	24.0	4.19	6.88	3.56	5.38	7.61	.19	5/8	1.50	5.75	3.94
2 11/16 2 3/4 2 15/16 3	RFB-211 RFB-212 RFB-215 RFB-300	RFB-211-C RFB-212-C RFB-215-C RFB-300-C	RFB-211-N RFB-212-N RFB-215-N RFB-300-N	33.4	4.69	7.75	3.94	6.00	8.48	.19	3/4	1.62	6.50	4.75
3 3/16 3 7/16 3 1/2	RFB-303 RFB-307 RFB-308	RFB-303-C RFB-307-C RFB-308-C	RFB-303-N RFB-307-N RFB-308-N	57.4	5.25	9.25	4.50	7.00	9.90	.25	3/4	1.88	8.00	5.50
3 15/16 4	RFB-315 RFB-400	RFB-315-C RFB-400-C	RFB-315-N RFB-400-N	81.8	6.50	10.25	5.62	7.75	10.96	.25	7/8	2.12	8.88	6.00
4 7/16 4 1/2	RFB-407 RFB-408	RFB-407-C RFB-408-C	RFB-407-N RFB-408-N	110.0	7.00	11.50	6.00	8.75	12.37	.25	1	2.62	9.75	6.50

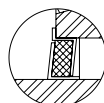
The RFB series of roller bearing flange units is designed for applications in industrial machinery where heavy loads at low, medium, or relatively high speeds exist. They are ideal for face mounting against vertical or horizontal frames where a minimum amount of machining is required.



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail.



Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range.

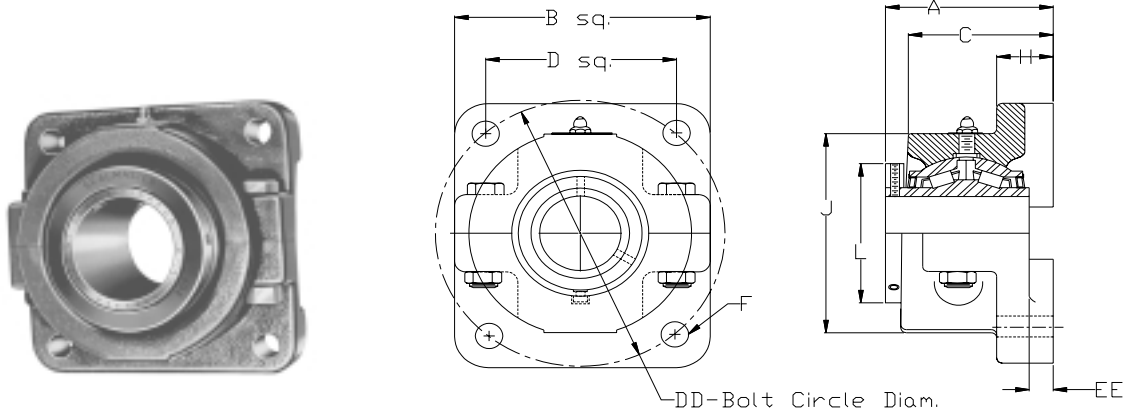
For Replacement Cartridge Insert See Page 120.

For Load Ratings See Page 121.

For Metric Bores, See Page 127.

Installation alignment correction is ± 3 degrees equal to .052" per inch.

(1) Hi-Temp Units are factory assembled-to-order basis.



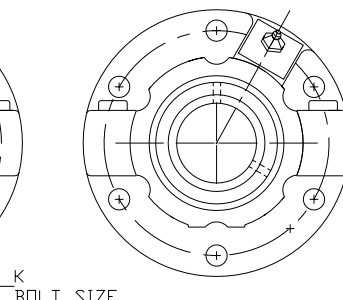
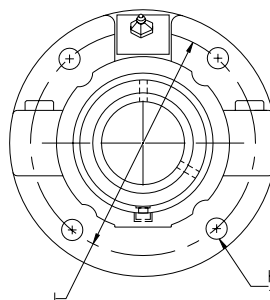
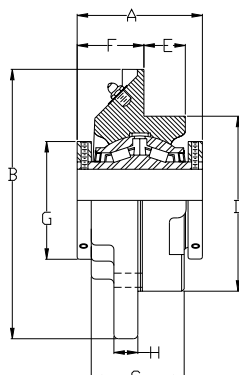
RFB-A Series Flange Units

SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES									
	PART NO.	PART NO.	PART NO.		A	B	C	D	DD	EE	F BOLT	H	J	L
1 3/16 1 1/4	RFBA-103 RFBA-104	RFBA-103-C RFBA-104-C	RFBA-103-N RFBA-104-N	6.0	2.81	4.00	2.31	2.88	4.07	.44	3/8	1.00	3.50	2.25
1 3/8 1 7/16	RFBA-106 RFBA-107	RFBA-106-C RFBA-107-C	RFBA-106-N RFBA-107-N	8.1	3.06	4.62	2.56	3.50	4.95	.53	1/2	1.00	3.88	2.62
1 1/2 1 5/8 1 11/16	RFBA-108 RFBA-110 RFBA-111	RFBA-108-C RFBA-110-C RFBA-111-C	RFBA-108-N RFBA-110-N RFBA-111-N	12.3	3.50	5.38	2.94	4.12	5.82	.67	1/2	1.19	4.50	2.88
1 3/4 1 15/16 2	RFBA-112 RFBA-115 RFBA-200	RFBA-112-C RFBA-115-C RFBA-200-C	RFBA-112-N RFBA-115-N RFBA-200-N	14.5	3.62	5.62	3.06	4.38	6.19	.67	1/2	1.19	4.75	3.25
2 3/16	RFBA-203	RFBA-203-C	RFBA-203-N	19.0	3.88	6.25	3.25	4.88	6.90	.75	5/8	1.38	5.25	3.62
2 1/4 2 7/16 2 1/2	RFBA-204 RFBA-207 RFBA-208	RFBA-204-C RFBA-207-C RFBA-208-C	RFBA-204-N RFBA-207-N RFBA-208-N	24.0	4.19	6.88	3.56	5.38	7.61	.88	5/8	1.50	5.75	3.94
2 11/16 2 3/4 2 15/16 3	RFBA-211 RFBA-212 RFBA-215 RFBA-300	RFBA-211-C RFBA-212-C RFBA-215-C RFBA-300-C	RFBA-211-N RFBA-212-N RFBA-215-N RFBA-300-N	33.4	4.69	7.75	3.94	6.00	8.48	1.00	3/4	1.62	6.50	4.75
3 3/16 3 7/16 3 1/2	RFBA-303 RFBA-307 RFBA-308	RFBA-303-C RFBA-307-C RFBA-308-C	RFBA-303-N RFBA-307-N RFBA-308-N	57.4	5.25	9.25	4.50	7.00	9.90	1.06	3/4	1.88	8.00	5.50
3 15/16 4	RFBA-315 RFBA-400	RFBA-315-C RFBA-400-C	RFBA-315-N RFBA-400-N	81.8	6.50	10.25	5.62	7.75	10.96	1.25	7/8	2.12	8.88	6.00
4 7/16 4 1/2	RFBA-407 RFBA-408	RFBA-407-C RFBA-408-C	RFBA-407-N RFBA-408-N	110.0	7.00	11.50	6.00	8.75	12.37	1.50	1	2.62	9.75	6.50

See page 114 for seal arrangements. (1) High temp units are factory assembled-to-order basis.

The RFB-A series is similar in design to RFB series, but has single locking collar. These units are designed for applications in industrial machinery where moderate loads at low to medium high speeds exist or where space along the shaft is at a premium.

For Load Ratings, See Page 121.

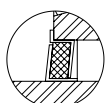


K
BOLT SIZE

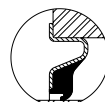
RFP Series Piloted Flange Units

SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES									
	PART NO.	PART NO.	PART NO.		A	B	C	D (2) +.000 -.002	E	F	G	H	J	K
1 3/16 1 1/4	RFP-103 RFP-104	RFP-103-C RFP-104-C	RFP-103-N RFP-104-N	5.5	2.75	5.00	1.75	3.375	.88	1.31	2.25	.44	4.12	.38
1 3/8 1 7/16	RFP-106 RFP-107	RFP-106-C RFP-107-C	RFP-106-N RFP-107-N	6.8	3.00	5.25	2.00	3.625	.94	1.50	2.62	.50	4.38	.38
1 1/2 1 5/8 1 11/16	RFP-108 RFP-110 RFP-111	RFP-108-C RFP-110-C RFP-111-C	RFP-108-N RFP-110-N RFP-111-N	10.1	3.38	6.12	2.25	4.250	1.12	1.56	2.88	.50	5.12	.44
1 3/4 1 15/16 2	RFP-112 RFP-115 RFP-200	RFP-112-C RFP-115-C RFP-200-C	RFP-112-N RFP-115-N RFP-200-N	11.6	3.50	6.38	2.31	4.500	1.25	1.56	3.25	.56	5.38	.44
2 3/16	RFP-203	RFP-203-C	RFP-203-N	14.5	3.75	7.12	2.50	5.000	1.31	1.69	3.62	.56	6.00	.50
2 1/4 2 7/16 2 1/2	RFP-204 RFP-207 RFP-208	RFP-204-C RFP-207-C RFP-208-C	RFP-204-N RFP-207-N RFP-208-N	19.0	4.00	7.62	2.75	5.500	1.44	1.81	3.94	.62	6.50	.50
2 11/16 2 3/4 2 15/16 3	RFP-211 RFP-212 RFP-215 RFP-300	RFP-211-C RFP-212-C RFP-215-C RFP-300-C	RFP-211-N RFP-212-N RFP-215-N RFP-300-N	26.7	4.50	8.75	2.88	6.375	1.56	2.00	4.75	.75	7.50	.62
3 3/16 3 7/16 3 1/2	RFP-303 RFP-307 RFP-308	RFP-303-C RFP-307-C RFP-308-C	RFP-303-N RFP-307-N RFP-308-N	42.6	5.00	10.25	3.38	7.375	1.62	2.44	5.50	.88	8.62	.75
3 15/16 4	RFP-315 RFP-400	RFP-315-C RFP-400-C	RFP-315-N RFP-400-N	55.2	6.25	10.88	4.38	8.125	2.44	2.69	6.00	.94	9.38	.75
4 7/16 4 1/2	RFP-407 RFP-408	RFP-407-C RFP-408-C	RFP-407-N RFP-408-N	91.0	6.75	13.50	4.62	10.250	2.38	3.03	6.50	1.00	11.75*	.75
4 15/16 5	RFP-415 RFP-500	RFP-415-C RFP-500-C	RFP-415-N RFP-500-N	115.0	7.25	14.75	5.38	11.000	2.88	2.97	7.31	1.25	12.75*	.88

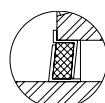
The RFB series of roller bearing flange units is designed for applications in industrial machinery where heavy loads at low, medium, or relatively high speeds exist. They are ideal for face mounting against vertical or horizontal frames where a minimum amount of machining is required.



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail.



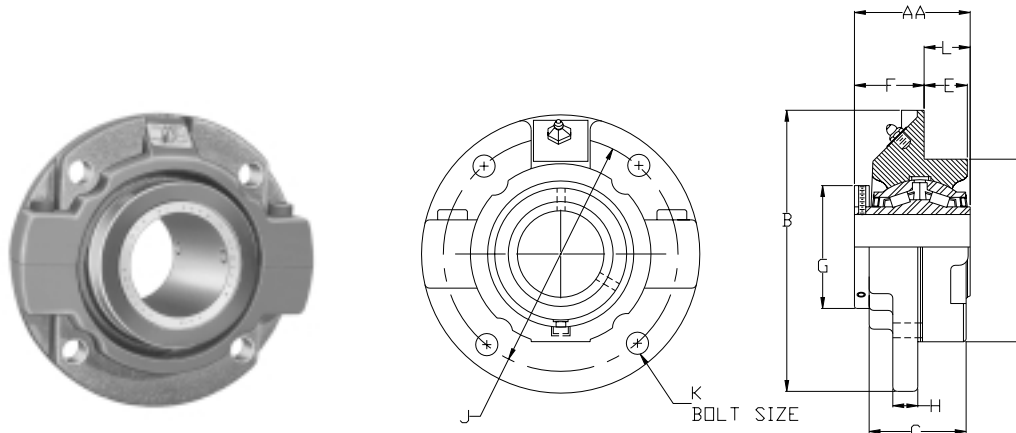
Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range.

For Replacement Cartridge Insert See Page 120.

For Load Ratings See Page 121.

For Metric Bores, See Page 127.

- (1) Hi-Temp Units are factory assembled-to-order basis.
- (2) Bore of frame should be the "D" dimension shown in table above. +.002", +.005", to assure adequate support of bearing pilot.
- * 6 Bolt—All others four bolt.



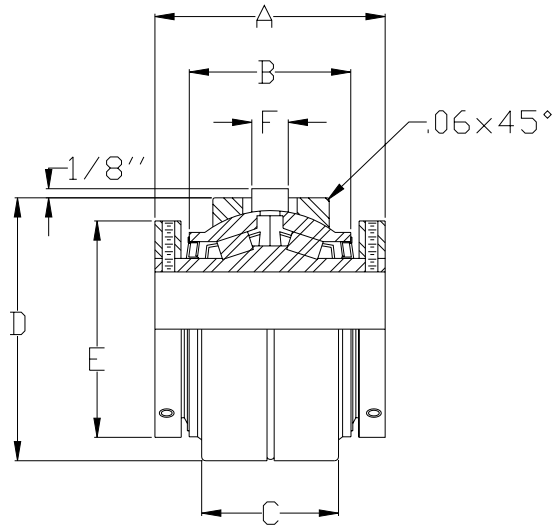
RFP-A Series Piloted Flange Units

SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES										
	PART NO.	PART NO.	PART NO.		AA	B	C	D (2) +.000 -.002	E	F	G	H	J	K	L
1 3/16 1 1/4	RFPA-103 RFPA-104	RFPA-103-C RFPA-104-C	RFPA-103-N RFPA-104-N	5.5	2.37	5.00	1.75	3.375	.88	1.31	2.25	.44	4.12	.38	1.06
1 3/8 1 7/16	RFPA-106 RFPA-107	RFPA-106-C RFPA-107-C	RFPA-106-N RFPA-107-N	6.8	2.53	5.25	2.00	3.625	.94	1.50	2.62	.50	4.38	.38	1.03
1 1/2 1 5/8 1 11/16	RFPA-108 RFPA-110 RFPA-111	RFPA-108-C RFPA-110-C RFPA-111-C	RFPA-108-N RFPA-110-N RFPA-111-N	10.1	2.84	6.12	2.25	4.250	1.12	1.56	2.88	.50	5.12	.44	1.28
1 3/4 1 15/16 2	RFPA-112 RFPA-115 RFPA-200	RFPA-112-C RFPA-115-C RFPA-200-C	RFPA-112-N RFPA-115-N RFPA-200-N	11.6	2.95	6.38	2.31	4.500	1.25	1.56	3.25	.56	5.38	.44	1.39
2 3/16	RFPA-203	RFPA-203-C	RFPA-203-N	14.5	3.12	7.12	2.50	5.000	1.31	1.69	3.62	.56	6.00	.50	1.44
2 1/4 2 7/16 2 1/2	RFPA-204 RFPA-207 RFPA-208	RFPA-204-C RFPA-207-C RFPA-208-C	RFPA-204-N RFPA-207-N RFPA-208-N	19.0	3.31	7.62	2.75	5.500	1.44	1.81	3.94	.62	6.50	.50	1.50
2 11/16 2 3/4 2 15/16 3	RFPA-211 RFPA-212 RFPA-215 RFPA-300	RFPA-211-C RFPA-212-C RFPA-215-C RFPA-300-C	RFPA-211-N RFPA-212-N RFPA-215-N RFPA-300-N	26.7	3.69	8.75	2.88	6.375	1.56	2.00	4.75	.75	7.50	.62	1.69
3 3/16 3 7/16 3 1/2	RFPA-303 RFPA-307 RFPA-308	RFPA-303-C RFPA-307-C RFPA-308-C	RFPA-303-N RFPA-307-N RFPA-308-N	42.6	4.19	10.25	3.38	7.375	1.62	2.44	5.50	.88	8.62	.75	1.75
3 15/16 4	RFPA-315 RFPA-400	RFPA-315-C RFPA-400-C	RFPA-315-N RFPA-400-N	55.2	5.25	10.88	4.38	8.125	2.44	2.69	6.00	.94	9.38	.75	2.56
4 7/16 4 1/2	RFPA-407 RFPA-408	RFPA-407-C RFPA-408-C	RFPA-407-N RFPA-408-N	91.0	5.50	13.50	4.62	10.250	2.38	3.03	6.50	1.00	11.75*	.75	2.47
4 15/16 5	RFPA-415 RFPA-500	RFPA-415-C RFPA-500-C	RFPA-415-N RFPA-500-N	115.0	6.21	14.75	5.38	11.000	2.88	2.97	7.31	1.25	12.75*	.88	3.24

The RFBA series is similar in design to RFP series, but has single locking collar. These units are designed for applications in industrial machinery where moderate loads at low to medium high speeds exist or where space along the shaft is at a premium.

- (1) Hi-Temp Units are factory assembled-to-order basis.
- (2) Bore of frame should be the "D" dimension shown in table above.
+.002", +.005", to assure adequate support of bearing pilot.
- * 6 Bolt—All others four bolt.

See page 116 for seal arrangements.
For Load Ratings, See Page 121.

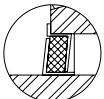


ERCI Series Cylindrical Cartridge Inserts

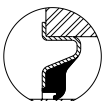
SHAFT DIAM. IN.	STANDARD SEAL	CONTACT SEAL	HI-TEMP (1) SEAL	APPROX. WT. IN LBS.	DIMENSIONS IN INCHES					
	PART NO.	PART NO.	PART NO.		A	B	C	D (2) +.000 -.002	E	F
1 3/4 1 15/16 2	ERCI-112 ERCI-115 ERCI-200	ERCI-112-C ERCI-115-C ERCI-200-C	ERCI-112-N ERCI-115-N ERCI-200-N	6.5	3.50	2.10	1.75	3.939	3.25	.25
2 3/16	ERCI-203	ERCI-203-C	ERCI-203-N	7.7	3.75	2.25	1.75	4.439	3.62	.38
2 1/4 2 7/16 2 1/2	ERCI-204 ERCI-207 ERCI-208	ERCI-204-C ERCI-207-C ERCI-208-C	ERCI-204-N ERCI-207-N ERCI-208-N	10.0	4.00	2.38	1.80	4.782	3.94	.38
2 11/16 2 3/4 2 15/16 3	ERCI-211 ERCI-212 ERCI-215 ERCI-300	ERCI-211-C ERCI-212-C ERCI-215-C ERCI-300-C	ERCI-211-N ERCI-212-N ERCI-215-N ERCI-300-N	13.0	4.50	2.50	2.00	5.376	4.75	.38
3 3/16 3 7/16 3 1/2	ERCI-303 ERCI-307 ERCI-308	ERCI-303-C ERCI-307-C ERCI-308-C	ERCI-303-N ERCI-307-N ERCI-308-N	22.0	5.00	3.00	2.25	6.595	5.50	.50
3 15/16 4	ERCI-315 ERCI-400	ERCI-315-C ERCI-400-C	ERCI-315-N ERCI-400-N	30.0	6.25	4.00	3.13	7.189	6.00	.50
4 7/16 4 1/2	ERCI-407 ERCI-408	ERCI-407-C ERCI-408-C	ERCI-407-N ERCI-408-N	38.4	6.75	4.00	3.25	8.001	6.50	.50
4 15/16 5	ERCI-415 ERCI-500	ERCI-415-C ERCI-500-C	ERCI-415-N ERCI-500-N	55.0	7.25	4.50	3.75	9.063	7.31	.50

The ERCI series of steel cylindrical roller bearing cartridge units is designed for mounting in a cylindrical bore for a wide range of general machine applications. Units are equipped with Timken® roller bearings which are factory adjusted, grease lubricated, and sealed. They have full self-aligning capability.

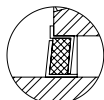
When used as a "fixed" bearing, provision must be made for locating outer ring in housing to prevent lateral movement. Provision for lubrication is recommended utilizing holes in cartridge O. D. located 30° on either side of the alignment pin. Recommended housing bore is nominal, +.002", -.000". ERCI cylindrical cartridge units are replacement cartridges for ERPB expansion type pillow blocks.



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.

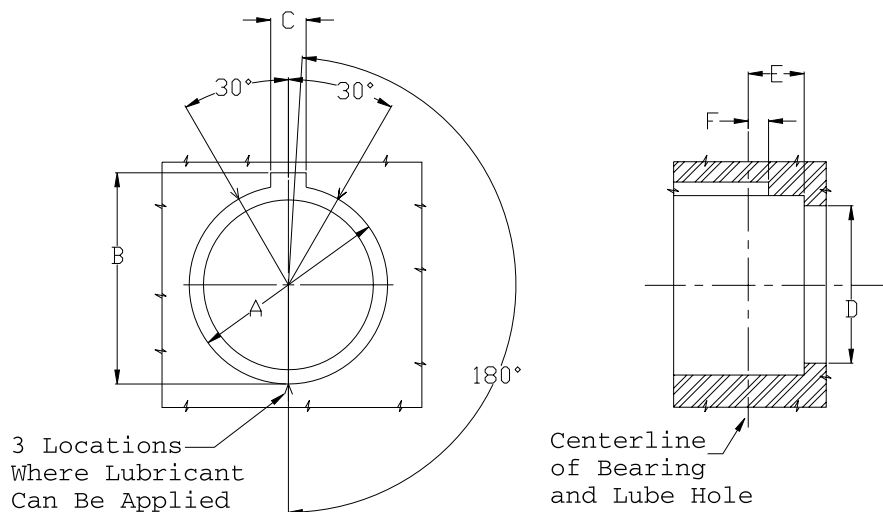


Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail.



Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range.

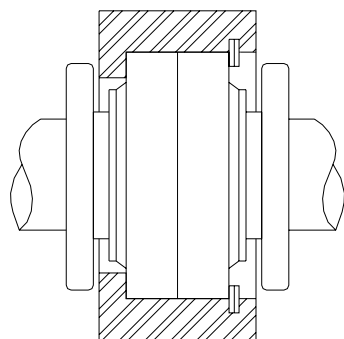
Installation alignment correction is ± 3 degrees equal to .052" per inch.
For Load Ratings, See Page 121.



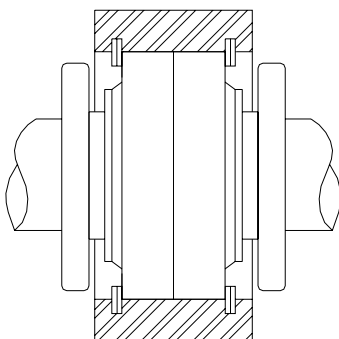
ERCI Series Housing Bore Dimensions

SHAFT DIAM.	"A" DIM. +.002/-0.000	"B" DIM. +.01/.00	"C" DIM. +.01/-0.00	"D" DIM. ±.01	"E" DIM. ±.01	"F" DIM. MIN. ±.005
1 3/4 1 15/16 2	3.939	4.12	.44	3.63	.97	.25
2 3/16	4.439	4.62	.56	4.00	.97	.38
2 1/4 2 7/16 2 1/2	4.782	5.01	.56	4.38	1.03	.38
2 11/16 2 3/4 2 15/16 3	5.376	5.50	.56	5.12	1.16	.38
3 3/16 3 7/16 3 1/2	6.595	6.89	.75	6.00	1.28	.50
3 15/16 4	7.189	7.46	.75	6.62	1.75	.50
4 7/16 4 1/8	8.001	8.28	.75	7.25	1.81	.50
4 15/16 5	9.063	9.34	.75	8.50	2.06	.50

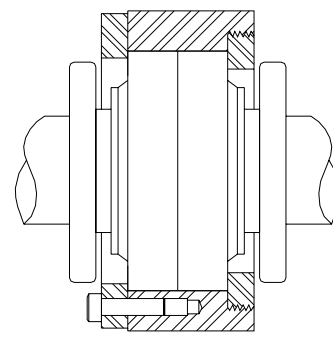
TYPICAL HOUSING INSTALLATIONS



Cartridge Fixed Between
Shoulder & Snap Ring



Cartridge Set For Expansion
And Held Between Snap Rings



Cartridge Fixed Between Two
Types of Collars



MOUNTED ROLLER BEARINGS SEALMASTER®

RCI Series Double Extension Two Locking Collars

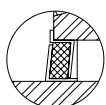


RCIA Series Single Extension One Locking Collar

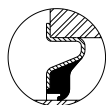


RCI & RCIA Series Replacement Cartridge Inserts*

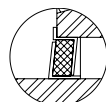
RCI FELT SEAL	CONTACT SEAL	HI-TEMP SEAL	SHAFT DIAM. IN.	APPROX. SHIPPING WEIGHT LBS.	RCIA FELT SEAL	CONTACT SEAL	FELT SEAL
RCI-103	RCI-103-C	†RCI-103-N	1 3/16	2.0	†RCIA-103	†RCIA-103-C	†RCIA-103-N
RCI-104	RCI-104-C	†RCI-104-N	1 1/4	1.9	†RCIA-104	†RCIA-104-C	†RCIA-104-N
RCI-106	RCI-106-C	†RCI-106-N	1 3/8	2.9	†RCIA-106	†RCIA-106-C	†RCIA-106-N
RCI-107	RCI-107-C	†RCI-107-N	1 7/16	2.7	†RCIA-107	†RCIA-107-C	†RCIA-107-N
RCI-108	RCI-108-C	†RCI-108-N	1 1/2	4.5	†RCIA-108	†RCIA-108-C	†RCIA-108-N
RCI-110	RCI-110-C	†RCI-110-N	1 5/8	4.2	†RCIA-110	†RCIA-110-C	†RCIA-110-N
RCI-111	RCI-111-C	†RCI-111-N	1 11/16	4.0	†RCIA-111	†RCIA-111-C	†RCIA-111-N
RCI-112	RCI-112-C	†RCI-112-N	1 3/4	5.3	RCIA-112	RCIA-112-C	RCIA-112-N
RCI-115	RCI-115-C	†RCI-115-N	1 15/16	4.8	RCIA-115	RCIA-115-C	RCIA-115-N
RCI-200	RCI-200-C	†RCI-200-N	2	4.6	RCIA-200	RCIA-200-C	RCIA-200-N
RCI-203	RCI-203-C	†RCI-203-N	2 3/16	6.2	RCIA-203	RCIA-203-C	RCIA-203-N
RCI-204	RCI-204-C	†RCI-204-N	2 1/4	8.4	RCIA-204	RCIA-204-C	RCIA-204-N
RCI-207	RCI-207-C	†RCI-207-N	2 7/16	7.4	RCIA-207	RCIA-207-C	RCIA-207-N
RCI-208	RCI-208-C	†RCI-208-N	2 1/2	7.2	RCIA-208	RCIA-208-C	RCIA-208-N
RCI-211	RCI-211-C	†RCI-211-N	2 11/16	11.5	RCIA-211	RCIA-211-C	RCIA-211-N
RCI-212	RCI-212-C	†RCI-212-N	2 3/4	11.3	RCIA-212	RCIA-212-C	RCIA-212-N
RCI-215	RCI-215-C	†RCI-215-N	2 15/16	10.3	RCIA-215	RCIA-215-C	RCIA-215-N
RCI-300	RCI-300-C	†RCI-300-N	3	10.0	RCIA-300	RCIA-300-C	RCIA-300-N
RCI-303	RCI-303-C	†RCI-303-N	3 3/16	19.6	RCIA-303	RCIA-303-C	RCIA-303-N
RCI-307	RCI-307-C	†RCI-307-N	3 7/16	17.8	RCIA-307	RCIA-307-C	RCIA-307-N
RCI-308	RCI-308-C	†RCI-308-N	3 1/2	17.3	RCIA-308	RCIA-308-C	RCIA-308-N
RCI-315	RCI-315-C	†RCI-315-N	3 15/16	23.1	RCIA-315	RCIA-315-C	RCIA-315-N
RCI-400	RCI-400-C	†RCI-400-N	4	22.6	RCIA-400	†RCIA-400-C	RCIA-400-N
RCI-407	RCI-407-C	†RCI-407-N	4 7/16	30.4	RCIA-407	†RCIA-407-C	RCIA-407-N
RCI-408	RCI-408-C	†RCI-408-N	4 1/2	29.9	RCIA-408	†RCIA-408-C	RCIA-408-N
RCI-415	RCI-415-C	†RCI-415-N	4 15/16	45.6	RCIA-415	†RCIA-415-C	RCIA-415-N
RCI-500	RCI-500-C	†RCI-500-N	5	44.4	RCIA-500	†RCIA-500-C	RCIA-500-N



Felt Seal Standard
Positive sealing for low, medium, and high speed operation.



Single Lip Contact Seal
Available on all sizes. Recommended where moisture conditions prevail.



Hi-Temp Seal
Available as an option where operating temperatures are in 250-400° range.

* Insert package includes factory lubed, adjusted, and sealed cartridge complete with single or double locking collars.

† Contact Customer Service Center for availability.
For Load Ratings, See Page 121.

LOAD RATING TABLES - RPB ROLLER BEARINGS

This chart displays the Sealmaster RPB Roller Bearing's load capacity for a given L10 life, speed, and shaft size. Areas designated by “-” exceed maximum value for standard bearings. Consult Sealmaster Application Engineering for load and speed applications not covered in this table or for operation at high speeds or high loads.

REVOLUTIONS PER MINUTE															
SHAFT SIZE	L10 HOURS	50	100	250	500	750	1000	1250	1500	1750	2000	2500	3000	3500	4000
1 3/16	5000	3360	3360	3142	2552	2260	2073	1939	1836	1753	1684	1575	1491	1424	1368
	10000	3360	3360	2552	2073	1836	1684	1575	1491	1424	1368	1279	1211	1156	1111
	30000	2975	2416	1836	1491	1320	1211	1279	1072	1024	984	920	871	832	902
	50000	2552	2073	1575	1279	1133	1039	1081	920	878	844	789	747	714	763
	100000	2073	1684	1279	1039	920	844	971	747	714	685	641	607	580	685
1 7/16	5000	5376	5376	5028	4084	3616	3317	3104	2937	2804	2694	2520	2386	2278	-
	10000	5376	5376	4084	3317	2937	2694	2521	2386	2278	2188	2047	1938	1850	-
	30000	4760	3866	2937	2386	2112	1938	2048	1716	1638	1574	1472	1394	1331	-
	50000	4084	3317	2520	2047	1812	1662	1732	1472	1406	1350	1263	1196	1142	-
	100000	3317	2694	2047	1662	1472	1350	1555	1196	1142	1097	1026	971	927	-
1 1/2	5000	6934	6934	6485	5268	4664	4279	4000	3789	3617	3475	3250	3077	-	-
	10000	6934	6934	5268	4279	3789	3475	3249	3077	2938	2823	2640	2500	-	-
	30000	6140	4987	3789	3077	2725	2500	2640	2213	2113	2030	1899	1798	-	-
	50000	5268	4279	3250	2640	2338	2144	2231	1899	1813	1742	1629	1542	-	-
	100000	4279	3475	2640	2144	1899	1742	2007	1542	1473	1415	1323	1253	-	-
1 5/8	5000	9114	9114	8524	6923	6130	5624	5259	4979	4754	4568	4272	-	-	-
	10000	9114	9114	6923	5624	4979	4568	4271	4045	3862	3710	3470	-	-	-
	30000	8070	6555	4979	4045	3581	3285	3470	2909	2777	2668	2496	-	-	-
	50000	6923	5624	4272	3470	3072	2818	2934	2496	2383	2289	2141	-	-	-
	100000	5624	4568	3470	2818	2496	2289	2636	2027	1935	1859	1739	-	-	-
2	5000	9679	9679	9052	7352	6510	5972	5584	5288	5049	4851	4537	-	-	-
	10000	9679	9679	7352	5972	5288	4851	4587	4295	4101	3940	3685	-	-	-
	30000	8570	6961	5288	4295	3803	3489	3684	3089	2950	2834	2650	-	-	-
	50000	7352	5972	4538	3585	3263	2993	3115	2650	2530	2431	2274	-	-	-
	100000	5972	4851	3685	2993	2650	2431	2799	2153	2055	1975	1847	-	-	-
2 3/16	5000	10198	10198	9538	7747	6860	6293	5940	5572	5320	5111	-	-	-	-
	10000	10198	10198	7747	6293	5572	5111	4824	4526	4321	4152	-	-	-	-
	30000	9030	7335	5572	4526	4007	3676	3918	3255	3108	2986	-	-	-	-
	50000	7747	6293	4780	3883	3438	3154	3313	2793	2666	2562	-	-	-	-
	100000	6293	5111	3883	3154	2793	2562	2977	2268	2166	2081	-	-	-	-
2 7/16	5000	10876	10876	10171	8262	7316	6711	6279	5942	5674	-	-	-	-	-
	10000	10876	10876	8262	6711	5942	5451	5100	4826	4608	-	-	-	-	-
	30000	9630	7822	5942	4826	4274	3920	4143	3471	3314	-	-	-	-	-
	50000	8262	6711	5098	4141	3666	3363	3502	2978	2843	-	-	-	-	-
	100000	6711	5451	4141	3363	2978	2732	3147	2419	2310	-	-	-	-	-
2 1/2	5000	10198	10198	9538	7747	6860	6293	5940	5572	5320	5111	-	-	-	-
	10000	10198	10198	7747	6293	5572	5111	4824	4526	4321	4152	-	-	-	-
	30000	9030	7335	5572	4526	4007	3676	3918	3255	3108	2986	-	-	-	-
	50000	7747	6293	4780	3883	3438	3154	3313	2793	2666	2562	-	-	-	-
	100000	6293	5111	3883	3154	2793	2562	2977	2268	2166	2081	-	-	-	-
3	5000	10876	10876	10171	8262	7316	6711	6279	5942	5674	-	-	-	-	-
	10000	10876	10876	8262	6711	5942	5451	5100	4826	4608	-	-	-	-	-
	30000	9630	7822	5942	4826	4274	3920	4143	3471	3314	-	-	-	-	-
	50000	8262	6711	5098	4141	3666	3363	3502	2978	2843	-	-	-	-	-
	100000	6711	5451	4141	3363	2978	2732	3147	2419	2310	-	-	-	-	-
3 3/16	5000	17302	17302	16181	13143	11638	10676	9983	9453	-	-	-	-	-	-
	10000	17302	17302	13143	10676	9453	8671	8109	7678	-	-	-	-	-	-
	30000	15320	12444	9453	7678	6799	6237	6587	5522	-	-	-	-	-	-
	50000	13143	10676	8110	6587	5833	5351	5569	4738	-	-	-	-	-	-
	100000	10676	8671	6587	5351	4738	4346	5004	3848	-	-	-	-	-	-
3 7/16	5000	23694	23694	22159	17999	15938	14620	13673	-	-	-	-	-	-	-
	10000	23694	23694	17999	14620	12945	11875	11106	-	-	-	-	-	-	-
	30000	20980	17041	12945	10515	9311	8541	9021	-	-	-	-	-	-	-
	50000	17999	14620	11106	9021	7988	7327	7627	-	-	-	-	-	-	-
	100000	14620	11875	9021	7327	6488	5952	6852	-	-	-	-	-	-	-
3 1/2	5000	29081	29081	27198	22091	19561	17944	16783	-	-	-	-	-	-	-
	10000	29081	29081	22091	17944	15889	14575	13632	-	-	-	-	-	-	-
	30000	25750	20915	15889	12906	11427	10483	10072	-	-	-	-	-	-	-
	50000	22091	17944	13631	11072	9804	8993	9362	-	-	-	-	-	-	-
	100000	17944	14575	11072	8993	7963	7305	8412	-	-	-	-	-	-	-
4	5000	40114	40114	37517	30473	26983	24752	-	-	-	-	-	-	-	-
	10000	40114	40114	30473	24752	21917	20105	-	-	-	-	-	-	-	-
	30000	35520	28851	21917	17802	15763	14460	-	-	-	-	-	-	-	-
	50000	30473	24752	18803	15273	13524	12405	-	-	-	-	-	-	-	-
	100000	24752	20105	15273	12405	10985	10076	-	-	-	-	-	-	-	-

For high load-high speed applications, see page 204.
For Bearing Selection and Engineering, see page 176.

TOUGH AS THEY COME!

Corrosion-Resistant Bearings

All RPB Series Pillow Block, Flange and Piloted Flange Units can be provided with “CR” housings *to resist corrosion in many difficult environments*. RPB-CR bearings feature a corrosion-resistant matrix with a fluoropolymer rich surface on a molecular binder layer that provides significant application advantages in harsh atmospheres:

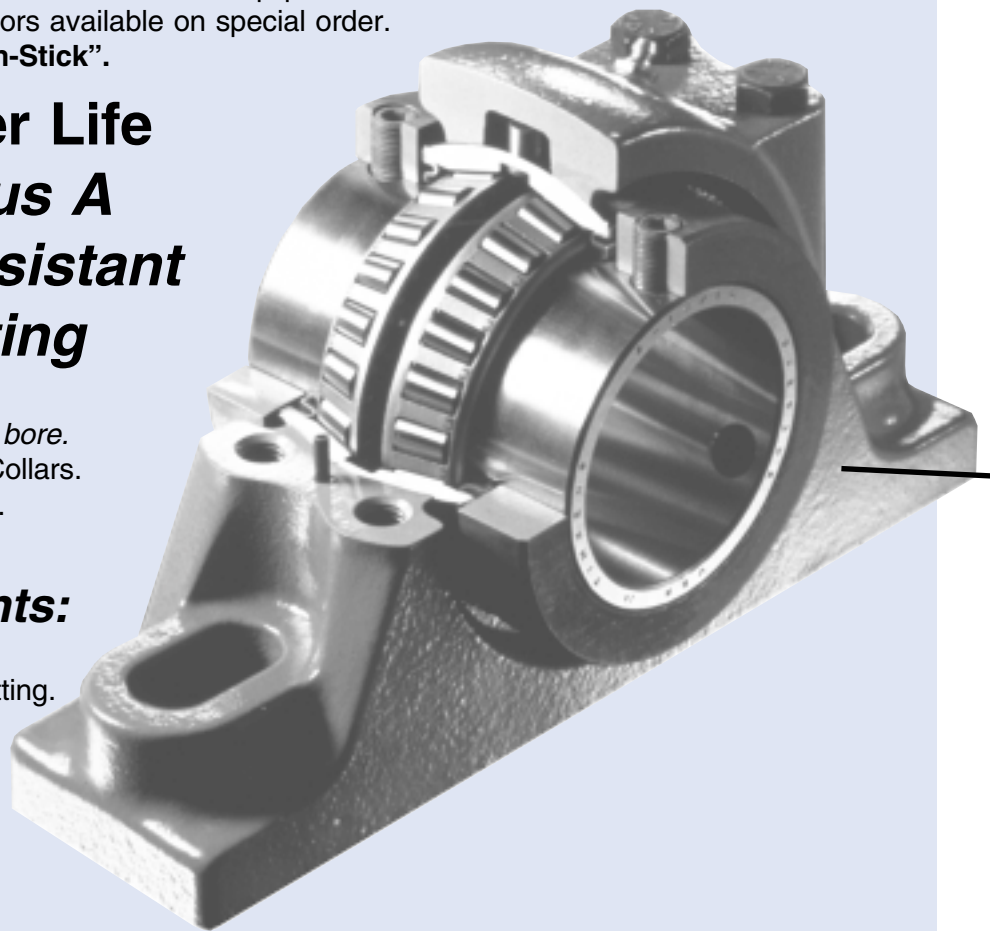
- Excellent corrosion-resistance.
- Excellent weathering resistance.
- Hard (Matrix) polymer resists abrasion.
- Molecular binder resists peeling, etc.
- Standard silver color blends well with other equipment.
- A wide variety of other colors available on special order.
- Fluoropolymer means “Non-Stick”.

All The Longer Life Features... *Plus A Corrosion-Resistant Polymer Coating*

- Split housing, entirely polymer coated, *including bore*.
- Polymer coated Locking Collars.
- Polymer coated Cap bolts.

Other Components:

- Stainless Steel Grease Fitting.
- Stainless Steel Washers.
- Standard Contact Seal.
- Black Oxide Outer Race.
- Standard Setscrews.



For more information on wet environments, see applications section, page 136.

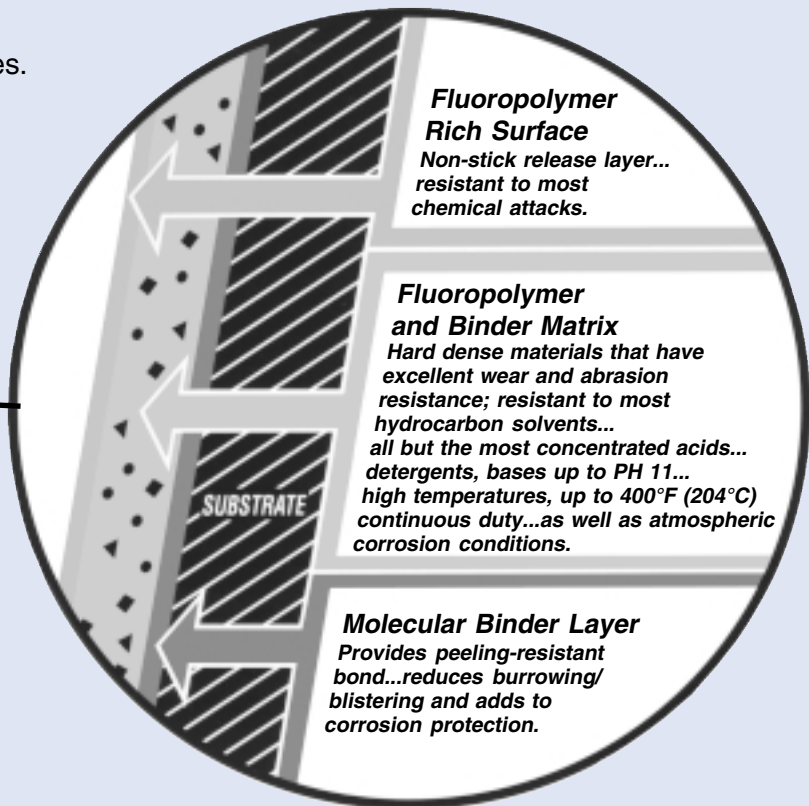


SEALMASTER Corrosion-Resistant Mounted Roller Bearings Take On The Tough Applications...

We begin with the best... and then improve the design to the most demanding specific services.

The RPB Series Bearings are used in applications where they may be subjected to moisture, corrosive and abrasive atmosphere. Typical applications include:

- Food Processing Equipment.
- Chemical Processing Plants.
- Rubber and Plastic Plants.
- Pulp and Paper Mills.
- Marine and Naval Applications.
- Waste Water Treatment Facilities.
- Bulk Material Handling.



How To Specify:

SEALMASTER RPB-CR Units are identified on the metal nametag.

To specify, add "CR" to the basic part number: "RPB215-2CR"

***UNIQUE...UNCHALLENGED...THE UNDISPUTED LEADER
IN QUALITY, VALUE-ADDED ADVANTAGES
AND CUSTOM DESIGNS***

TOUGH AS THEY COME!

SEALMASTER RPB-AH *Air Handling* Roller Bearings...

With Enhanced Performance... for the World-Wide HVAC Industry...

Roller bearing units for HVAC applications are subjected to a number of unique challenges that include:

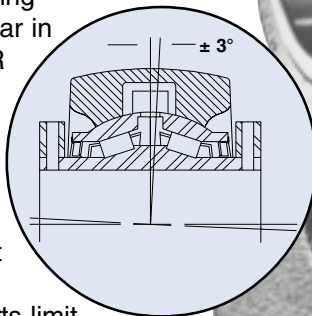
1. Running at *higher* operating speeds.
2. Exposure to *vibration*.
3. Running with *low* noise levels.
4. Mounting on fan frames that have reduced *structural* mass.

SEALMASTER RPB-AH tapered roller bearings units are ***specially-designed with engineering features that address each of these challenges***, and offer overall enhanced performance in air handling services. Here are several reasons why...

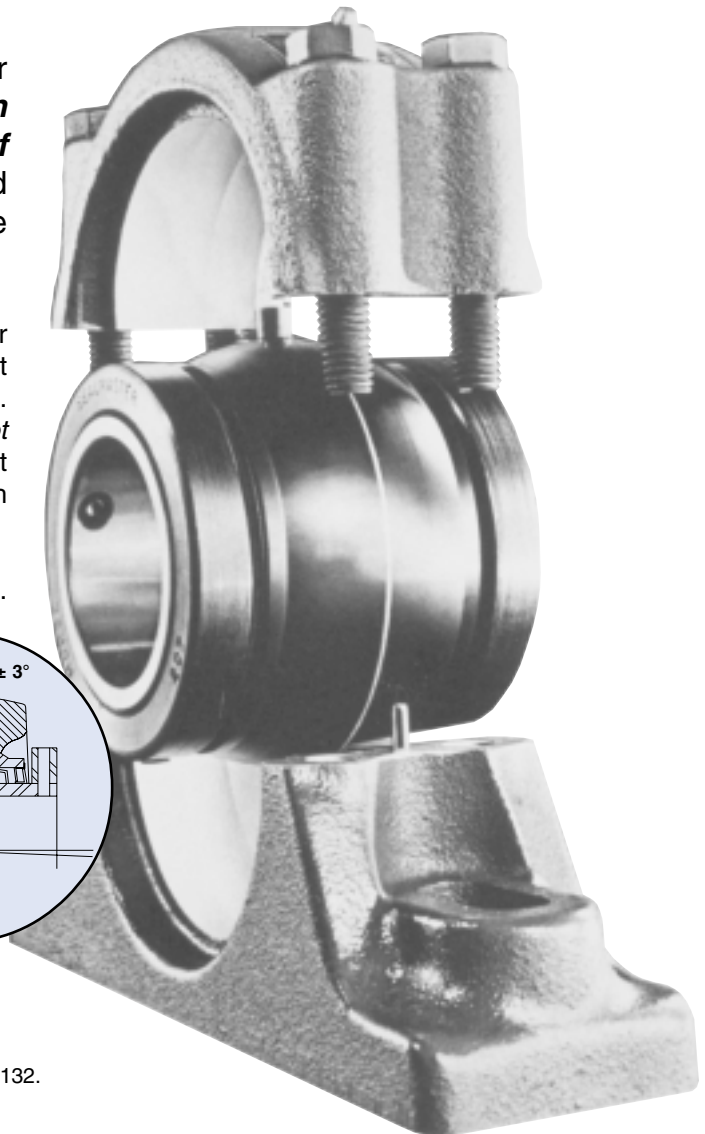
HIGH LOAD CAPACITIES... RPB-AH Tapered roller bearings offer both high radial as well as high thrust load capacities, or any combination of the two. Spherical roller bearings, on the other hand, are *not* known for their thrust capacity, and are generally not selected/specified for vertical shaft applications which are often encountered in HVAC.

PINNED OUTER RACE PREVENTS ITS ROTATION...

The RPB-AH bearing has a self-aligning capability of $\pm 3^\circ$. This design is similar in concept to the proven SEALMASTER ball bearing units which utilize a spherical O.D. insert mounted in a spherical I.D. cast iron housing, equipped with a locating pin. This anti-rotation pin prevents outer race rotation under load and does not limit the RPB-AH self-aligning capability. The extensions on the cartridge inserts limit misalignment to $\pm 3^\circ$.



CUSTOM FIT-UP... SEALMASTER engineers have developed a custom fit-up between the bearing cartridge O.D. and the bearing housing specifically for air handling applications. This fit is looser than standard which provides lighter misalignment torque. Fan frames are generally light weight which may deflect before the bearing insert adjusts for misalignment in standard units. This special feature also allows full roller contact with the races and reduces roller edge loading in the bearing.





DURABLE CAST IRON SPLIT HOUSING - Compact split housing provides quickest replacement of bearing inserts, reduced downtime and replacement costs.

PATENTED FELT LABYRINTH SEALS - Proven design directs contaminants away from sealing surfaces, provides a tight fit to exclude foreign material; once grease permeates the felt there's a lower coefficient of friction (or reduced drag), less heat generation, extended operating life.

EXTENDED INNER RACES - With double locking collars provides a more secure locking system, more holding power and greater stability on the shaft.

MORE CHOICES... MORE STYLES AND SIZES

Air Handling - Self Aligning Roller Bearing Units

SHAFT SIZE INCH	HOUSING SIZE RANGE SIZE	2 BOLT PILLOW BLOCKS		4 BOLT PILLOW BLOCKS			FLANGE BLOCKS PILOTED FLANGES				MAX SPEEDS**
		RPB	RPB-A DRPB DRPB-A	RPB RPBXT	RPB-A	DRPB DRPB-A	RFB	RFB-A	RFP	RFP-A	
1 3/16 - 1 1/4	103/104	■	-	-	-	-	■	-	■	-	4000
1 3/8 - 1 7/16	106/107	■	-	-	-	-	■	-	■	-	3500
1 1/2 - 1 11/16	108/111	■	■	-	-	-	■	-	■	-	3000
1 3/4 - 2	112/200	■	■	-	-	-	■	■	■	■	2500
2 3/16	203	■	■	■	■	-	■	■	■	■	2500
2 1/4 - 2 1/2	204/208	■	■	■	■	-	■	■	■	■	2000
2 11/16 - 3	211/300	■	■	■	■	-	■	■	■	■	1750
3 3/16 - 3 1/2	303/308	■	■	■	■	-	■	■	■	■	1500
3 15/16 - 4	315/400	-	-	■	■	■	■	-	■	■	1250
4 7/16 - 4 1/2	407/408	-	-	■	-	-	-	-	■	-	1250
4 15/16 - 5	415/500	-	-	■	-	-	-	-	■	-	1000
SEE PAGE FOR SPECIFICATIONS		104	105,107,108	104,111	105	107,108	114	115	116	117	

■ Available as Air Handling Units.

Replacement Cartridge inserts, see page 120.

**HVAC applications are normally lightly loaded but may require higher speed capability. For these applications consult SEALMASTER Engineering for assistance.

OTHER OPTIONS:

- **EXPANSION BEARINGS** - Type ERPB-AH
Expansion bearings are available on request.
- **HIGH TEMPERATURE OPERATIONS** - Standard bearings can be modified for operation at higher temperatures.

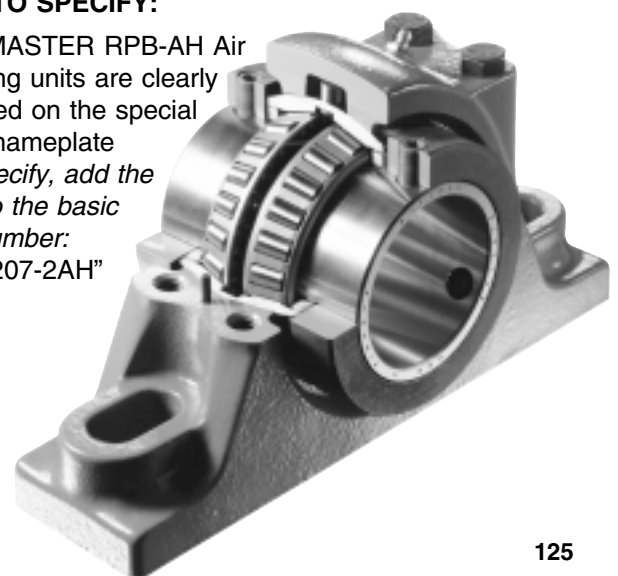
For more details on full range of features and benefits, refer to pages 98-103.

NAMEPLATE IDENTIFICATION

RPB-AH Air Handling units are identified with a special SEALMASTER metal nameplate indicating that they are equipped with the special housing fit and are custom engineered for HVAC Air Handling applications.

HOW TO SPECIFY:

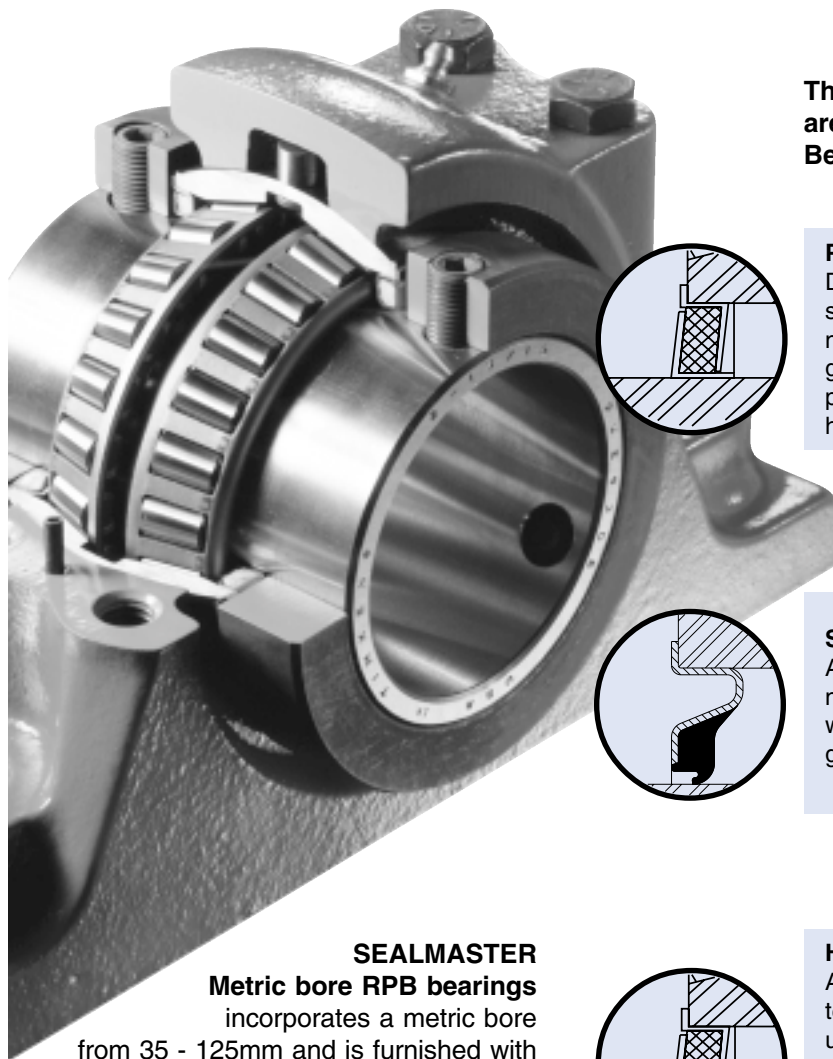
SEALMASTER RPB-AH Air Handling units are clearly identified on the special metal nameplate
- to specify, add the "AH" to the basic part number:
"RPB-207-2AH"



TOUGH AS THEY COME!

SEALMASTER RPB-M Series Metric Bore Bearings

The RPB-M Series Metric bore bearing is available in the full range of sizes and various mounted bearing styles as shown in the Table on the opposite page. These metric bearings have the full range of features and benefits of the RPB Series self-aligning bearings described in detail on pages 98-103.

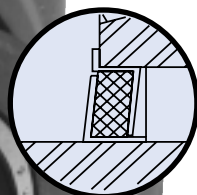


**SEALMASTER
Metric bore RPB bearings**
incorporates a metric bore
from 35 - 125mm and is furnished with
metric setscrews. All other components and
hardware are standard.

**Three basic sealing arrangements
are offered for the RPB-M Metric Bore
Bearing...**

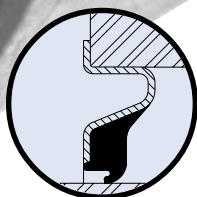
Patented Felt Labyrinth Seal...

Directs contaminants away from the sealing surfaces... provides a tight fit to exclude foreign material... has less drag (friction) and less heat generation than radial lip contact seals; provides positive sealing for low, medium, and high speed operation.



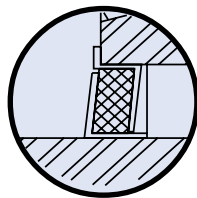
Single Lip Contact Seal...

Available in all sizes... recommended where moisture conditions prevail... functions well in wet and dirty environments up to 250°F... has good chemical resistance properties.



High Temperature Seal...

Available extra-cost option where operating temperatures are in the 250 - 400°F range; units with these sealing arrangements are prelubricated at the factory with a special high temperature synthetic lubricant which is normally satisfactory for the temperature range of -40°F to +400°F.





METRIC BORE Self-Aligning Roller Bearing Units

SHAFT SIZE METRIC	SHAFT SIZE RANGE (INCH)	HOUSING SIZE RANGE (INCH)	2 BOLT PILLOW BLOCKS				4 BOLT PILLOW BLOCKS					FLANGE BLOCKS PILOTED FLANGE CYLINDRICAL CARTRIDGE INSERTS					
			RPB	RPB-A	ERPB DRPB DRPB-A EDPB-A	SPB	RPB RPBXT ERPBXT	RPB-A	ERPB	DRPB DRPB-A EDPB EDPB-A	SPB	RFB	RFB-A	RFP	RFP-A	ERCI	
35	1 3/8 - 1 7/16	106/107	■	-	-	-	-	-	-	-	-	■	-	■	-	-	
40	1 1/2 - 1 11/16	108/111	■	-	-	■	-	-	-	-	-	■	-	■	-	-	
45	1 3/4 - 2	112/200	■	■	■	■	-	-	-	-	-	■	■	■	■	■	
50	1 3/4 - 2	112/200	■	■	■	■	-	-	-	-	-	■	■	■	■	■	
55	2 3/16	203	■	■	■	■	-	-	-	-	-	■	■	■	■	■	
60	2 1/4 - 2 1/2	204/208	■	■	■	■	■	■	-	-	-	■	■	■	■	■	
65	2 1/4 - 2 1/2	204/208	■	■	■	■	■	■	-	-	-	■	■	■	■	■	
70	2 11/16 - 3	211/300	■	■	■	■	■	■	-	-	-	■	■	■	■	■	
75	2 11/16 - 3	211/300	■	■	■	■	■	■	-	-	-	■	■	■	■	■	
80	3 3/16 - 3 1/2	303/308	■	■	■	■	■	■	-	-	-	■	■	■	■	■	
85	3 3/16 - 3 1/2	303/308	■	■	■	■	■	■	-	-	-	■	■	■	■	■	
90	3 3/16 - 3 1/2	303/308	■	■	■	■	■	■	-	-	-	■	■	■	■	■	
95	3 3/16 - 3 1/2	303/308	■	■	■	■	■	■	-	-	-	■	■	■	■	■	
100	3 15/16 - 4	315/400	-	-	-	-	■	■	■	■	■	■	■	■	■	■	
105	3 15/16 - 4	315/400	-	-	-	-	■	■	■	■	■	■	■	■	■	■	
110	4 7/16 - 4 1/2	407/408	-	-	-	-	■	-	■	-	■	-	-	■	-	■	
115	4 7/16 - 4 1/2	407/408	-	-	-	-	■	-	■	-	■	-	-	■	-	■	
120	4 15/16 - 5	415/500	-	-	-	-	■	-	■	-	■	-	-	■	-	■	
125	4 15/16 - 5	415/500	-	-	-	-	■	-	■	-	■	-	-	■	-	■	
See Page For Mounting Dimensions			104	105	106,107,108	112	104,111	105	106	107,108	112	114	115	116	117	118,119	

■ Available as metric bore units, including metric setscrews. To order: Add "M" to part number. Example: RPB-65M-C2

RCI-M & RCIA-M Replacement Cartridge Units

RCI-M SERIES				RCIA-M SERIES			
BORE SIZE	FELT SEAL	CONTACT SEAL	HI-TEMP SEAL	BORE SIZE	FELT SEAL	CONTACT SEAL	HI-TEMP SEAL
35	RCI-35M	RCI35M-C	RCI35M-N	35	RCIA-35M	RCIA35M-C	RCIA35M-N
40	RCI-40M	RCI40M-C	RCI40M-N	40	RCIA-40M	RCIA40M-C	RCIA40M-N
45	RCI-45M	RCI45M-C	RCI45M-N	45	RCIA-45M	RCIA45M-C	RCIA45M-N
50	RCI-50M	RCI50M-C	RCI50M-N	50	RCIA-50M	RCIA50M-C	RCIA50M-N
55	RCI-55M	RCI55M-C	RCI55M-N	55	RCIA-55M	RCIA55M-C	RCIA55M-N
60	RCI-60M	RCI60M-C	RCI60M-N	60	RCIA-60M	RCIA60M-C	RCIA60M-N
65	RCI-65M	RCI65M-C	RCI65M-N	65	RCIA-65M	RCIA65M-C	RCIA65M-N
70	RCI-70M	RCI70M-C	RCI70M-N	70	RCIA-70M	RCIA70M-C	RCIA70M-N
75	RCI-75M	RCI75M-C	RCI75M-N	75	RCIA-75M	RCIA75M-C	RCIA75M-N
80	RCI-80M	RCI80M-C	RCI80M-N	80	RCIA-80M	RCIA80M-C	RCIA80M-N
85	RCI-85M	RCI85M-C	RCI85M-N	85	RCIA-85M	RCIA85M-C	RCIA85M-N
90	RCI-90M	RCI90M-C	RCI90M-N	90	RCIA-90M	RCIA90M-C	RCIA90M-N
95	RCI-95M	RCI95M-C	RCI95M-N	95	RCIA-95M	RCIA95M-C	RCIA95M-N
100	RCI-100M	RCI100M-C	RCI100M-N	100	RCIA-100M	RCIA100M-C	RCIA100M-N
105	RCI-105M	RCI105M-C	RCI105M-N	105	RCIA-105M	RCIA105M-C	RCIA105M-N
110	RCI-110M	RCI110M-C	RCI110M-N	110	RCIA-110M	RCIA110M-C	RCIA110M-N
115	RCI-115M	RCI115M-C	RCI115M-N	115	RCIA-115M	RCIA115M-C	RCIA115M-N
120	RCI-120M	RCI120M-C	RCI120M-N	120	RCIA-120M	RCIA120M-C	RCIA120M-N
125	RCI-125M	RCI125M-C	RCI125M-N	125	RCIA-125M	RCIA125M-C	RCIA125M-N

* Insert package includes factory lubed, adjusted, and sealed cartridge complete with single or double locking collars.

SEALMASTER® APPLICATION WORKSHEET

EMERSON POWER TRANSMISSION

EPT MOUNTED BEARING DIVISION

Mail To: Sealmaster Bearings - Application Engineering
1901 Bilter Rd.
Aurora IL 60507

Fax to: Application Engineering 630-898-6064

Distributor Information	Customer Information
Distributor Name	Company Name
Contact Name	Contact Name
Street Address	Street Address
City/State/Zip	City/State/Zip
Phone	Phone
Fax	Fax
Internet E-Mail	Internet E-Mail
Is the Customer an: OEM or End User	Industry

Application Information	
Is this a new application	Yes or No
Speed: (rpm)	EXPLAIN: Climate Conditions: Wet ☐ Washdown ☐ Dry ☐ Clean ☐ Dirty ☐ Chemicals ☐
Service Life Required: (hours):	
Shaft Diameter:	
Load Information (lbs.):	Operating Temperature (°F): Is the bearing in the elevated temp? Yes / No Is the heat coming through the shaft? Yes / No
Radial (lbs.):	
Axial / Thrust (lbs.):	
Load Conditions: Steady ☐	Can the bearings be re-lubricated? Yes ☐ No ☐
Shock ☐	
Thrust ☐	
Oscillation ☐	Motor Driven Pulley Diameter (in.): Distance Between Bearings:
If loads unknown attach detailed sketch*** Other ☐	
Complete Application Description: Horsepower (bhp):	

***PLEASE ATTACH DETAILED SKETCH OF APPLICATION.

INCLUDE ALL DIMENSIONS AND SYSTEM LOAD LOCATIONS

MODIFICATION AND SPECIAL CAPABILITIES

HIGH TEMPERATURE Pages 130-131



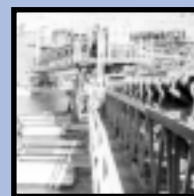
AIR HANDLING Pages 132-133



CONSTRUCTION Pages 134-135



WET ENVIRONMENTS Pages 136-137



AGGREGATE/MINING Pages 138-139



ECCENTRIC DRIVES Pages 140-141



MIXERS Pages 142-143



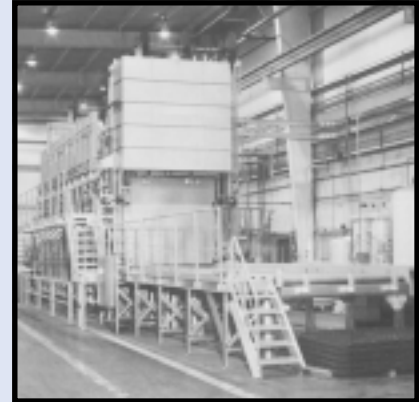
HIGH TEMPERATURE...

High temperature bearings are found in a broad range of industries. Temperature changes throughout the mounted bearings and shaft system impact the molecular structure of the materials causing expansion and contraction. Also, bearing components such as seals, grease, retainers, races, balls, etc., are affected by the high temperature and may require design modifications to optimize bearing performance.

Key Concerns... include effects on material and shaft expansion ranges.

SEALMASTER bearings are frequently specified for:

- Industrial Furnaces.
- Bakery Ovens.
- Heat Treat Equipment.
- Incinerators.
- Drying Ovens.
- Fans and Blowers.



MOST BEARINGS REQUIRE MORE THAN ONE COMPONENT MODIFICATION TO INCREASE ITS EFFECTIVE OPERATING TEMPERATURE LEVEL. SEALMASTER BEARINGS CAN BE MODIFIED TO OPERATE AT UP TO 375°F.

GOLD LINE SOLUTIONS FOR HIGH TEMPERATURE APPLICATIONS.

Material Temperature Ranges:

Seals...

BALL - SEALMASTER Gold Line Ball Bearings have a variety of special high temperature labyrinth and annular contact sealing options available per request. The most frequently used high temperature seals on ball bearings are the Nomex seal design (similar to the standard felt seal), HeatGard Seal (silicon fiberglass contact), or HeatGard Ultra Seal (spring loaded FKM oil seals). *Refer to the seal section found on page 188.*

ROLLER - SEALMASTER RPB Bearings offer the high temperature Nomex seal design (similar to the felt seal).

Lubrication...

Sealmaster offers a wide selection of high temperature lubricants formulated to specifically meet specific application conditions. Relubrication frequency may need to be increased to ensure adequate lubrication is maintained.

Retainer...

BALL - The optional Brass Land riding retainer provides a low coefficient of material expansion and is able to withstand elevated temperatures.

ROLLER - Metal cage is standard with all SEALMASTER Gold Tapered Roller Bearings.

Races and Balls...

SEALMASTER high quality bearing steel extends the maximum effective operating temperature to 375°F.

Material Expansion:

Internal Clearances...

Individual bearing components may expand due to wide temperature changes. This condition can cause preloading or bearing seizing. By adjusting internal clearances in the manufacturing process, bearings can be customized to function in specific high temperature applications.

BALL - The application's temperature changes physically dictate the amount of clearance required. SEALMASTER's extensive experience with high temperature applications have resulted in six unique and proprietary specifications for diametral clearance.

ROLLER - The standard Roller Bearing design has the inherent ability to accommodate expansion and contraction of bearing materials. *For more information on Bearing Clearances, see page 193.*

Shaft Expansion...

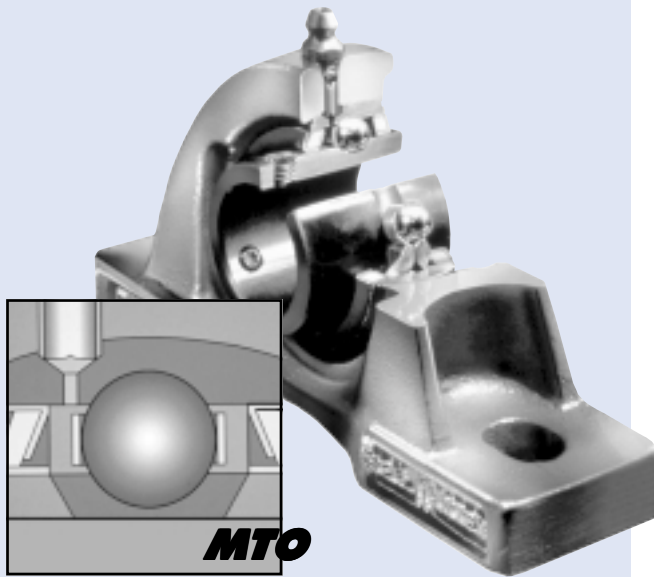
BALL - SEALMASTER Ball Bearings handle shaft expansion through the use of an external insert expansion ring (AR, EMP) or the use of a unique half-dog set screw and lock wire arrangement. Refer to the SEALMASTER standard Gold Line expansion ball bearing unit sizes for maximum allowable shaft growth. When shaft expansion requirements exceed these standard specifications, an alternate method is shaft slotting combined with the use of a special half-dog set screw and lock wire arrangement. *Contact SEALMASTER Applications engineering for information regarding this option.*

ROLLER - SEALMASTER Gold Line Tapered Roller Bearings are also offered with cylindrical insert cartridges (ERCI) that can move axially with shaft lengthening. *Refer to the expansion roller bearing unit pages for exact expansion specifications.*

Contact application engineering with your application parameters for exact bearing selection (630-898-9620).

STANDARD & CUSTOM SOLUTIONS FOR HIGH TEMPERATURE APPLICATIONS

**GOOD AS
GOLD...
NO EQUAL!**



Larger Diametral Clearances



Expansion Ball Bearings



Half-dog set screw & wire



Nomex Seals



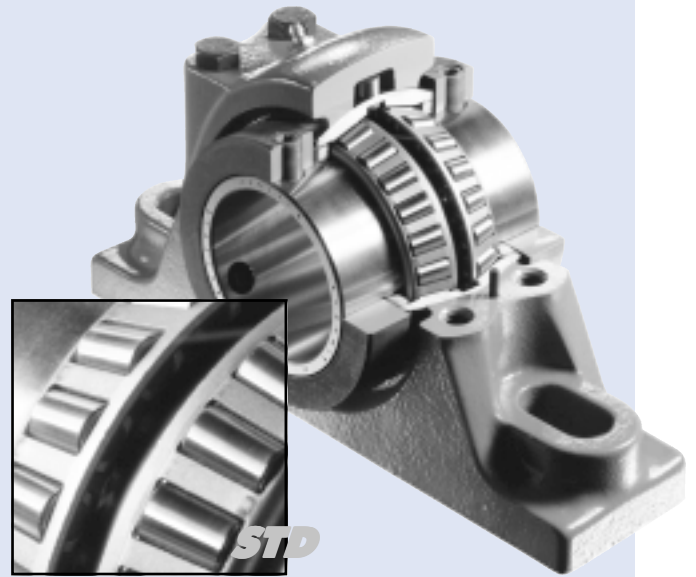
Brass Retainer



HeatGard Seal



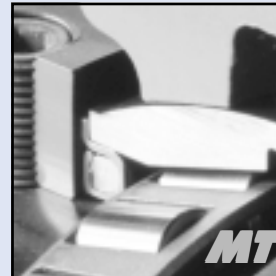
HeatGard Ultra Seals



Metal Cage



Expansion Roller Bearings



Nomex Seals

See Our...

Standard High Temperature Gold Line Furnace Bearings
in the Ball Bearing section on pages 90 & 91.

Note: **MTO** (Made To Order), **STD** (Standard)

SEALMASTER® APPLICATIONS...

AIR HANDLING...

SEALMASTER Gold Line Bearings are used in Air Handling Applications more than any other type of equipment. They are found in a wide variety of industries including Heating, Ventilation, and Cooling (HVAC) equipment and industrial blowers. SEALMASTER bearings have been extremely effective in air handling applications for over 50 years because of the cohesive interplay of Gold Line design features that satisfy many needs of this industry.

Air Handling equipment runs at relatively high speeds with high frequency vibration and ordinarily requires quiet bearing operation. Bearings are frequently mounted on light weight frames which can deform during bearing installation. In industrial blower and material handling applications, bearings are often subjected to intermittent shock loads. Energy consumption is also a growing issue in the air handling industry.

Key Concerns... are high speed, vibration, noise, frame structures, and energy efficiency.

GOLD LINE SOLUTIONS FOR AIR HANDLING APPLICATIONS.

Operating Conditions:

Misalignment...

The SEALMASTER misalignment capabilities, $\pm 2^\circ$ on ball and, $\pm 3^\circ$ roller bearings overcome static alignment problems associated with the installation of mounted bearings on air handling equipment.

Housing Fits...

SEALMASTER increases useful bearing life by incorporating a special air handling fit between the bearing insert/cartridge and the housing that allows the bearing to properly self-align when mounted on lightweight frame structures, without causing frame deflection.

Noise Test...

During SEALMASTER's Ball Bearing manufacturing process, an extra noise test check point is added to identify those bearings that meet the exacting noise level needs of the air handling industry. Sealmaster also performs a honing operation after grinding to further polish the surface finish for quiet operation.

Vertical Mounting...

Sealmaster special "Rainshield" protective cover, available on certain Mounted Ball Bearings, is often specified on vertical shaft applications where condensation and water tends to travel down the shaft and cascade over the bearing. The special flinger design repels moisture build up through rotating motion or centrifugal force. Ask SEALMASTER Application engineers about the S2100 Series "Rainshield" Bearings.

Label Identification...

Ball - AC/NT bearing units are labeled with a metal nameplate riveted into the housing that indicates that the unit is a SEALMASTER Air Handling Unit.

Roller - Sealmaster RPB-AH Air Handling units (see page 125) are identified with a special **SEALMASTER metal nameplate** indicating that they are equipped with the special housing fit and custom engineered for HVAC Air Handling applications.

High Speed and Vibration:

Locking Mechanism...

Often during high speed operation, any eccentricity resonates throughout the air handling system. Inner ring roundness is critical to smooth operation and longer useful bearing life. SEALMASTER's balanced 3-point contact setscrew shaft lock system has been field tested and technically studied to provide longer useful bearing life. Double sided set screw shaft locking is standard on roller bearings and also available on medium duty ball bearings using four set screws to hold the bearing to the shaft and is recommended for high speed air handling applications. (See page 49).

Ball - SEALMASTER Gold Line standard wide inner ring combined with our diamond faceted precision ground setscrews and zone hardened ball path all work together to increase shaft stability and improve our shaft lock ability during the most severe vibrating conditions.

For our most concentric locking available in a mounted ball bearing, see the SKWEZLOC Section on page 64.

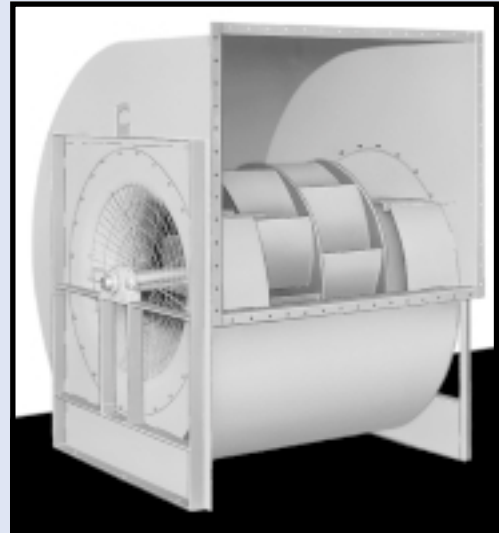
Locking Pin...

The locking pin design significantly lessens the likelihood of outer ring rotation that could compromise the integrity of the lubrication system and contribute to corrosive fretting between the outer race and housing.

Efficiency:

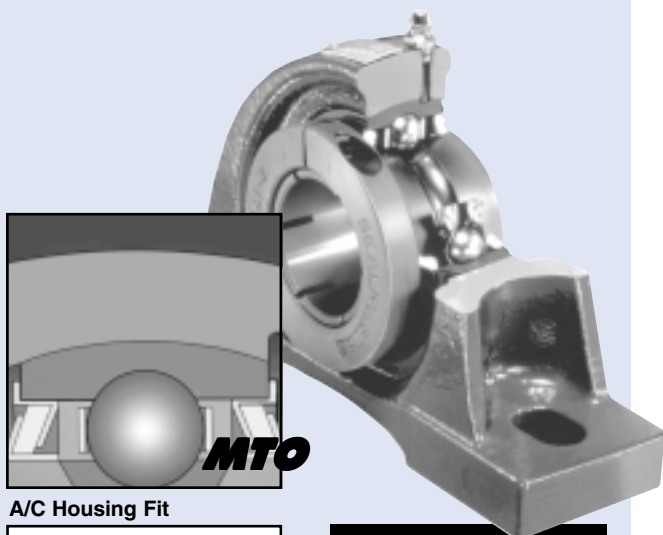
Seals...

SEALMASTER's field proven felt lined labyrinth seals are ideally suited for air handling energy concerns. The labyrinth construction has an inherent low coefficient of friction between the metal flingers and the filtering material. Standard breakaway and running torques are significantly lower than contact seal designs. Sealmaster labyrinth seals can be modified to provide even lower break away and running torque values.



STANDARD & CUSTOM SOLUTIONS FOR AIR HANDLING APPLICATIONS

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A/C Housing Fit



Wide Inner Ring



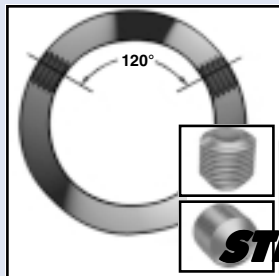
Solid Base Housing



Diamond Faceted Set Screw



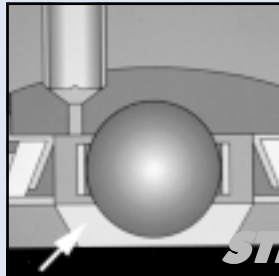
Pin & Dimple



120° Set Screw Positioning



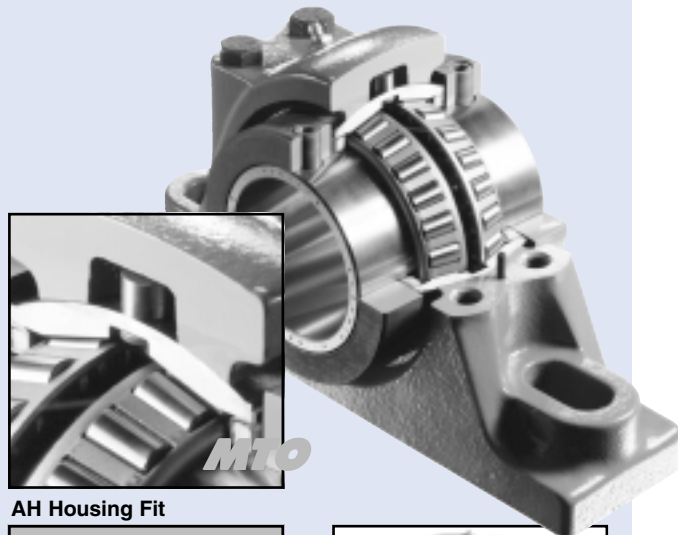
Skwezloc Locking



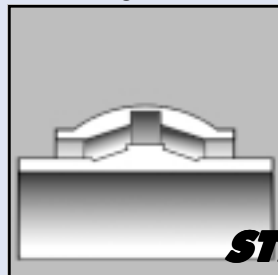
Inner Ring Zone Hardening



Felt Seal



AH Housing Fit



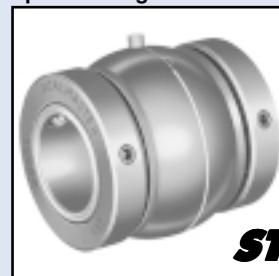
Wide Inner Race



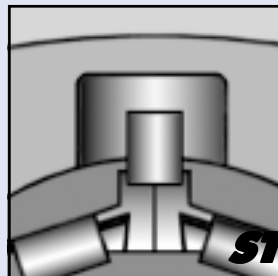
Split Housing



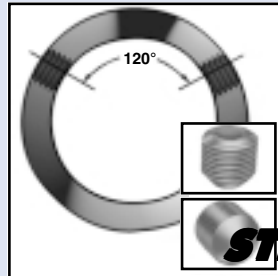
Felt Seals



Double Locking Set Screw



Lock Pin



120° Set Screw Locking

SEALMASTER® APPLICATIONS...

CONSTRUCTION...

Construction equipment varies widely from hot asphalt pavers to earth movers to large material handlers, etc... The timing of construction projects is critical and it is important that equipment lasts through an entire season. Unexpected downtime delays are unacceptable.

Construction machinery typically is used outdoors and requires protection from weather, dirt, road debris, wide temperature fluctuations, etc... Bearings are normally subjected to heavy loads with vibration and operate at slow to high speeds. Seals may be exposed to abrasive materials and sharp objects found in construction environments which can lead to instant bearing problems.

In particular: Paver bearings support augers that come into direct contact with hot grading asphalt that quickly wears seals and races away. In this application bearings operate at slow to moderate speeds.

Another example: Construction saws need to cut both dry and wet concrete are also subjected to vibration and abrasive contaminant from the concrete dust. Mounted Bearings support the arbor shafts and are unusually ceiling mounted.

Key Concerns... include seal damage, shock loading, vibration, abrasives, loss of shaft lock, high temperatures, high speeds, and liquid and dry contamination.

SEALMASTER bearings are frequently specified for:

- Concrete Saws.
- Street Sweepers.
- Front End Loaders.
- Wheel Compactors.
- Excavators.
- Paving Equipment.
- Spreaders.
- Backhoes.
- Cranes.
- Power Shovels.



GOLD LINE SOLUTIONS FOR CONSTRUCTION APPLICATIONS.

Vibration/Shock and Impact Loading:

Housing Fits...

Tight housing fit (interference) between the bearing insert and housing may be required to prevent the outer race from rotating in the housing. This minimizes fretting on the outer race and housing bore. Available as made to order on ball and roller bearings.

Locking Pin...

The locking pin design significantly lessens the likelihood of outer ring rotation that could compromise the integrity of the lubrication system.

Misalignment...

The SEALMASTER misalignment capabilities $\pm 2^\circ$ on ball and $\pm 3^\circ$ on roller bearings overcome static alignment problems during installation which can be caused by inaccuracies in framework design.

Housing Style...

Piloted Flange housings are often recommended for these applications due to the 360° mounting shoulder for positive installation in the machine structure. This added support greatly reduces bolt stresses. Six mounting holes are standard on 4 7/16" through 5" roller bearing bore sizes. Sealmaster also recommends the use of 4 bolt hole mounting configurations on the pillow block style housing.

Throughout the Sealmaster ball bearing line solid base housings are standard and contribute to a more rigid mounting system.

Locking Mechanism...

Double sided set screw shaft locking, available standard on roller and medium duty ball bearings, uses four set screws to hold the bearing to the shaft and is recommended for these applications.

Contamination:

Seals...

SEALMASTER's field proven felt lined labyrinth seals keep contaminants out and lubrication in. The felt filtering material is a highly effective barrier against abrasive particulate and the labyrinth construction allows for the grease and contamination to purge during re-lubrication. Depending upon individual application needs, other optional sealing arrangements can be considered and are found in the engineering section starting on page 176.

SEALMASTER has developed a specialized MTO product known as "Shielded Ball". See picture on facing page. This extraordinary bearing incorporates a heavy duty multiple barrier sealing system that has proven valuable in the aggregate environment. One impressive feature is the use of thick structural shields staked onto the inner race to repel large aggregates. These shields protect the multiple barrier sealing system which consists of a dense high durometer seal wedge, a wave spring seal feature, and a third metal flinger contact seal. Between these features are grease chambers. Contact SEALMASTER application engineering for more information on this most unique MTO product.

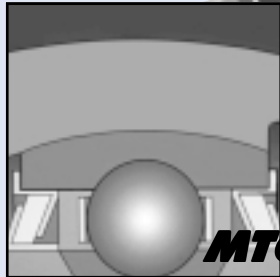
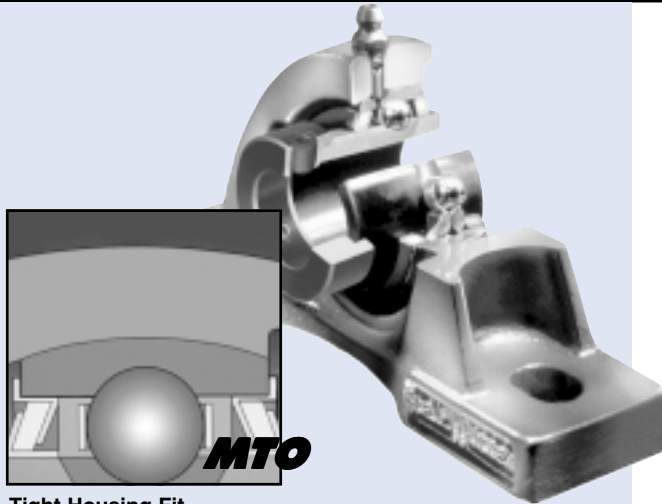
End Caps...

There are a variety of made to order end caps that can be manufactured for specific needs. End caps can be produced from stainless or low carbon steels, with or without coatings, to suit application needs. See *Beverage Bearing and HF/HFT Furnace bearing product lines for End Cap solution examples.*

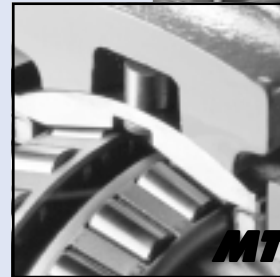
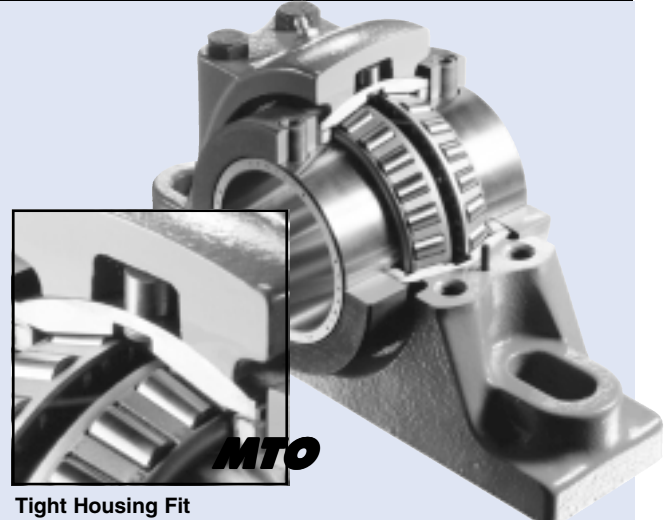
Elevated Temperatures... Refer to the High Temperature application section on pages 130-131.

STANDARD & CUSTOM SOLUTIONS FOR CONSTRUCTION APPLICATIONS

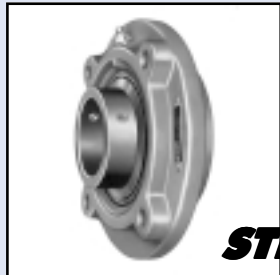
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Tight Housing Fit



Tight Housing Fit



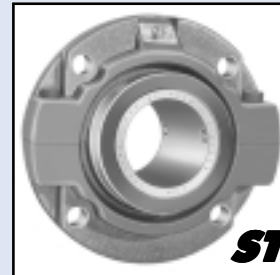
STD



STD

Piloted Flange Housing

4 Bolt Pillow Block



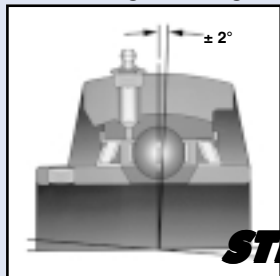
STD



STD

Piloted Flange Housing

4 Bolt Pillow Blocks



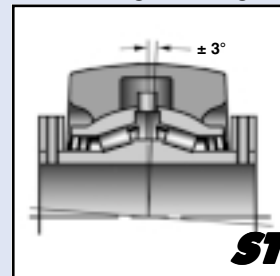
STD

± 2° Misalignment



STD

Solid Base Housing



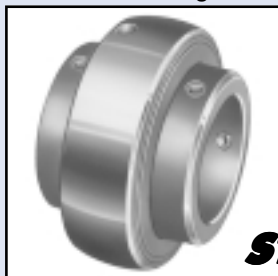
STD

± 3° Misalignment



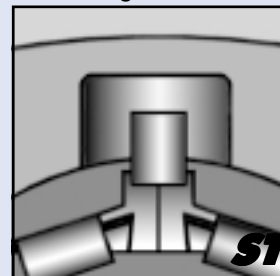
STD

Locking Pin & Dimple



STD

Double Lock Insert



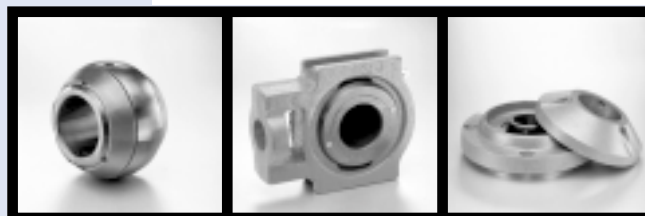
STD

Locking Pin



STD

Felt Seals



MTO

Examples of "Shielded Ball" Ball Bearings

Note: **MTO** (Made To Order), **STD** (Standard)

SEALMASTER® APPLICATIONS...

WET ENVIRONMENTS...

Many harsh applications expose bearings to water and chemicals which can contaminate bearing rolling elements and housings thereby reducing bearing life. Increased uptime is an overriding need in these applications and can be accomplished by preventing this rapid corrosion.

For example, machinery that packages food and beverages must remain extremely clean and is frequently washed down with high pressure caustic cleaning solutions. This can initiate corrosion, contaminate the bearing, and wash out valuable grease.

Another application where water creates a problem for mounted bearings is waste water treatment. Orbals and belt presses are subjected to moisture, chemicals, and sewage contamination. Keeping bearings operational and free from internal corrosion is critical to optimizing bearing life.

Key Concerns... include slurry, moisture, pressure wash, and chemicals.

Sealmaster bearings are frequently specified for:

- Truck and Water Washers.
- Food Processing.
- Beverage Filling.
- Pulp and Paper.
- Waste Water Treatment.
- Vertical Stroke Shake-Outs.
- Fluidizing Beds.
- Foundry Shake-Out Conveyors.
- Deburring Machines.
- Marine Applications.



GOLD LINE SOLUTIONS FOR WET ENVIRONMENTS APPLICATIONS.

Contamination and Corrosion:

Seals...

The SEALMASTER standard contact seal has good chemical resistance properties and lubrication retention characteristics in operating conditions up to 250°F.

SEALMASTER Gold Line Ball Bearings can be customized with a variety of contact seal options. Auxiliary flingers are also available when needed. The most frequently used wet condition MTO seals on ball bearings are the UltraGard Seal (spring loaded buna oil seals) and the ProGard Seals (double lip contact). Refer to the seal section found on page 188 in the engineering section.

End Caps...

There are a variety of end caps that can be manufactured for specific application needs. End caps can be produced from stainless or low carbon steels, with or without coatings, and in open or closed configuration. *See our Beverage Bearing product line on page 86.*

Auxiliary Shield...

On some housing configurations, supplementary shields and gaskets can be included to protect the back side seals from corrosive materials and high pressure sprays that may be in the surrounding climate.

Lubrication...

Lubrication frequency may need to be increased to ensure adequate lubrication is maintained. Optional food grade greases are available where required. SEALMASTER has had good experience with special wash out preventative lubricants. Contact application engineering for further information.

Coatings...

Sealmaster CR Duty mounted ball and roller bearings can be manufactured with a unique fluoropolymer coated cast iron corrosion-resistant housings. This offers excellent resistance to:

- Moisture.
- Abrasion.
- Peeling.
- Sticky Contaminants.
- High Pressure Washes.
- Most Chemical Solvents up to PH Levels of eleven.

See page 88 for a detailed description of CR Ball Bearings, and page 122 for CR Roller Bearings.

Thin dense chrome (TDC) coated races are available on request. This coating resists corrosion 10 to 15 times longer than ordinary bearing materials. TDC totally covers the entire surface area of the inner and outer race and is between 10-15% harder than industry standard bearing raceways.

Materials...

The following corrosive retardant components can be assembled into your bearings:

- Coated Set Screws
- TDC Raceways
- Brass and Nylon Coated Retainers
- Stainless Steel...Balls, Washers, End Caps, Seals, Lubrication Fittings, Flingers.

Contact application engineering with your application parameters for exact bearing selection (630-898-9620).

STANDARD & CUSTOM SOLUTIONS FOR WET ENVIRONMENTS APPLICATIONS

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STD

Contact Seal



MTO

Ultra Gard Seal



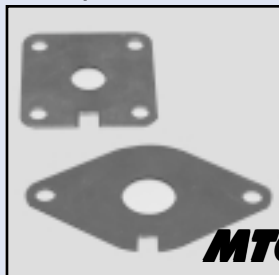
MTO

ProGard Seal



MTO

End Caps



MTO

Auxiliary Shield



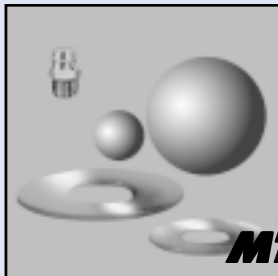
**STD
MTO**

Fluoropolymer Cast Iron Coating



**STD
MTO**

TDC Inner Ring



MTO

Stainless Steel Components



STD

Contact Seal

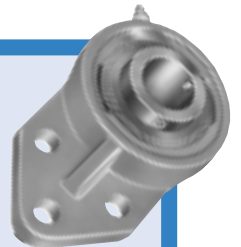


MTO

Fluoropolymer Cast Iron Coating

See Our Standard CR Duty Ball Bearings

Corrosion-Resistant Product
Line on pages 88-89



Also See Our Standard CR Duty Roller Bearings

Corrosion-Resistant Product
Line on pages 122-123



And See Our Standard Beverage Bearing

Product Line on pages 86-87



SEALMASTER® APPLICATIONS...

AGGREGATE/MINING...

Aggregate and Mining applications vary widely in the types of equipment used and in the types of material being conveyed. Aggregate conveyors move stone and rock between primary, secondary, and tertiary crushers and transport finished product into trucks for highway construction projects, and industrial, commercial and residential building needs.

Bearings are subjected to heavy loads with vibration and are exposed to rock dust and grit that tend to build-up on the seals. Generally, the speeds are slow to moderate. Conveyors are often sprayed with water to keep the dust down, thus creating a slurry. Often, bearing components are buried in the sand making sealing more difficult.

Key Concerns... include shock loads, loss of shaft lock, abrasive media, and water and dust contamination.

SEALMASTER bearings are frequently specified for:

- Conveyor Pulleys.
- Augers.
- Screens.
- Crushers...Cone, Roll, Impact, Jaw, Gyratory.
- Conveyor Take-Ups.
- Screw Conveyors.
- Stackers.
- Feeders... Vibrating, Stepdeck, Reciprocating, Wobblers.



GOLD LINE SOLUTIONS FOR AGGREGATE/MINING APPLICATIONS.

Contamination:

Seals...

SEALMASTER's field proven felt lined labyrinth seals keep contaminants out and lubrication in. The felt filtering material is a highly effective barrier against abrasive particulate and the labyrinth construction allows for grease and contamination to purge during re-lubrication. Rock plants generate an appreciable amount of stone dust. Water washdown is commonly used to calm the dust. Contact seals are recommended for these applications. Depending upon your individual application needs, you may consider the other optional sealing arrangements found on page 188 in our engineering section.

SEALMASTER has developed a specialized MTO Ball Bearing known as "Shielded Ball". See picture on facing page. This extraordinary bearing incorporates a heavy duty multiple barrier sealing system that has proven valuable in the aggregate environment. One impressive feature is the use of thick structural shields staked onto the inner race to repel large aggregates. These shields protect the multiple barrier sealing system which consists of a dense high durometer seal wedge, a wave spring seal feature, and yet a third metal flinger contact seal. In between these features are grease chambers. Contact SEALMASTER application engineering for more information.

Wide Inner and Outer Race...

This feature distributes the dynamic misalignment forces over a larger surface area between the bearing insert/cartridge and housing. This also provides a greater internal chamber volume that allows for increased grease capacity.

Shock and Impact Loading:

Housing Fit...

Tight housing fit (interference) may be required between the bearing insert and the housing to prevent the outer race from rotating in the housing. This minimizes fretting on the outer race and housing bore. Available as made to order on ball and roller design.

Locking Pin...

The locking pin design significantly lessens the likelihood of outer ring rotation that could compromise the integrity of the lubrication system.

Misalignment...

The SEALMASTER misalignment capabilities, $\pm 2^\circ$ on ball and $\pm 3^\circ$ on roller bearings overcome static alignment problems caused by inaccuracy in framework design and settling of the equipment on uneven ground.

Internal Clearances...

Reduced internal clearance can be applied to ball bearings on a made to order basis to reduce pounding forces and internal stresses created from vibration and impact loads.

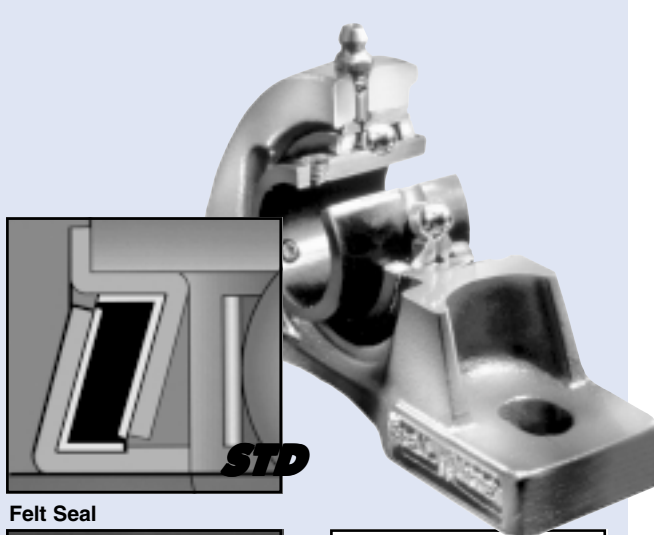
If required, Tapered Roller Bearings can be modified with reduced clearance ("endplay") which minimizes edge loading. This distributes forces more uniformly across each loaded roller. Contact application engineering for application review.

Locking Mechanism...

Double sided set screw shaft locking, available standard on roller and medium duty ball bearings, uses four set screws to hold the bearing to the shaft and is recommended for these applications.

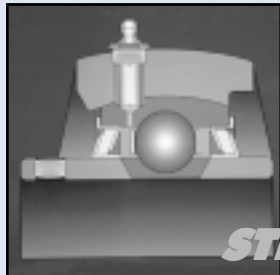
STANDARD & CUSTOM SOLUTIONS FOR AGGREGATE/MINING APPLICATIONS

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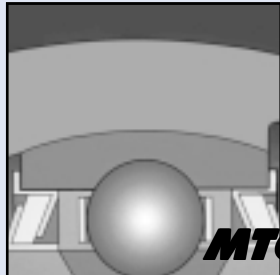
STD

Felt Seal



STD

Wide Inner & Outer Ring



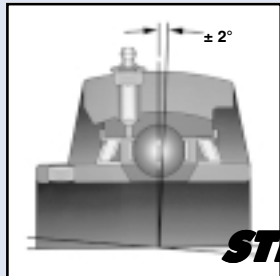
MTO

Tight Housing Fit



STD

Locking Pin & Dimple



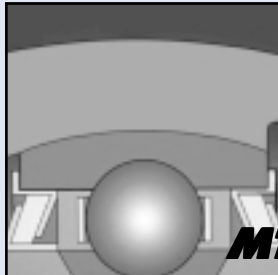
STD

± 2° Misalignment



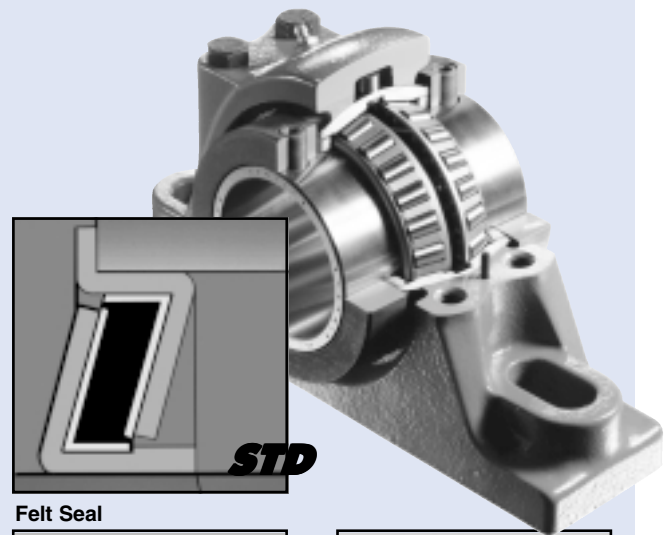
STD

Double Side Set Screw Locking



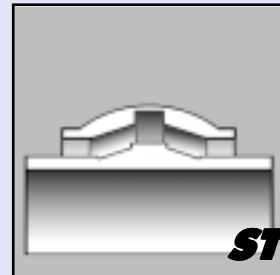
MTO

Reduced Internal Clearance



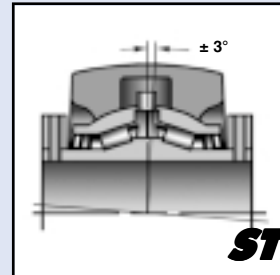
STD

Felt Seal



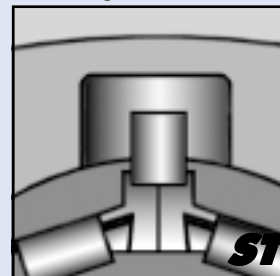
STD

Wide Inner & Outer Ring



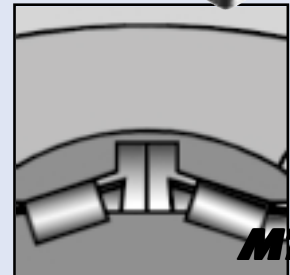
STD

3° Misalignment



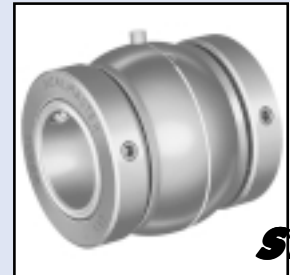
STD

Locking Pin



MTO

Reduced Internal Clearance



STD

Double Side Set Screw Locking



MTO

Examples of "Shielded Ball" Ball Bearings

SEALMASTER® APPLICATIONS...

ECCENTRIC DRIVES...

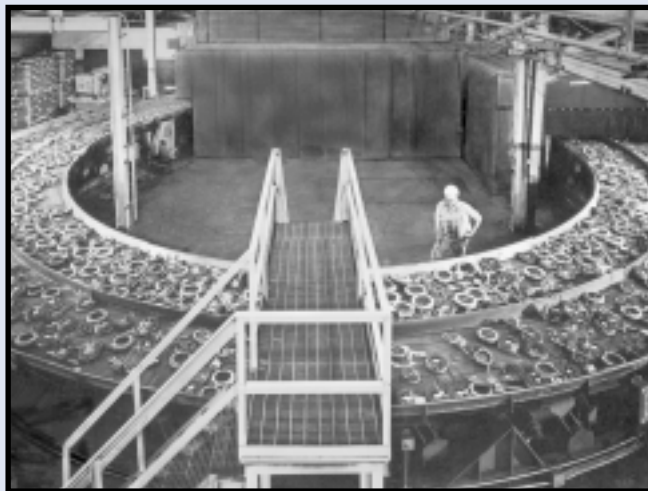
This equipment transfers or separates product through a reciprocating motion produced by an eccentric drive. Eccentric drive systems utilize a weight displaced asymmetrically from the centerline of rotation which creates a constantly changing force. Constant vibration and shock loads can pound the bearing rolling elements and races to reduce operational life by brinneling raceways and accelerating metal fatigue.

Eccentric drive applications tend to operate under high vibration and impact loading. The dynamic forces can cause high stress in bearing components. Many of these applications also operate in highly contaminated environments such as sand, dust, chips, etc.

Key Concerns... include shock and impact loading, vibration, loss of shaft lock, contamination, misalignment.

SEALMASTER bearings are frequently specified for:

- Gyration Screens.
- Vertical Stroke Shake-Outs.
- Vibrating Conveyors.
- Fluidizing Beds.
- Agitators.
- Foundry Shake-Out Conveyors.
- Sand Reclamation.
- Deburring Machines.



Quality-made SEALMASTER bearings help vibrate 60-tons of conveyor and hot castings in this **tough** installation. This 45-ton dynamically-balanced conveyor, vibrating at 360 cycles/minute, handles and cools 15 tons of hot foundry castings on a continuous basis. It operates on custom-modified SEALMASTER ball and roller bearings which have special tight housing fit-ups for this demanding vibratory service.

GOLD LINE SOLUTIONS FOR ECCENTRIC DRIVES APPLICATIONS.

Vibration/Shock and Impact Loading:

Housing Fit...

Tight housing fit (interference) is required between the bearing insert and housing to prevent the outer race from rotating in the housing. This minimizes fretting on the outer race OD and Housing bore. Available as made to order on ball and roller design.

Misalignment...

The Sealmaster misalignment capabilities, $\pm 2^\circ$ on ball and $\pm 3^\circ$ on roller bearings overcome static alignment problems during installation which can be caused by inaccuracy in framework design.

Internal Clearances...

Reduced internal clearance can be applied to ball bearings on a made to order basis to reduce pounding forces and internal stresses created from vibration and impact loads.

If required, Tapered Roller Bearings can be modified with reduced clearance ("endplay") which minimizes edge loading. This distributes forces more uniformly across each loaded roller. Contact application engineering for application review.

Housing Styles...

Piloted Flange housings are often recommended for these applications due to the 360° mounting shoulder for precision installation in the machine structure. This added support greatly reduces bolt stresses. Six mounting holes are standard on 4 7/16" through 5" roller bearing bore sizes. SEALMASTER also recommends the use of four bolt hole mounting configurations on the pillow block style housings.

Throughout the SEALMASTER ball bearing line, solid base housings are standard and contribute to a more rigid mounting system.

Locking Mechanism...

Double sided set screw shaft locking, available standard on roller and medium duty ball bearings, uses four set screws to hold the bearing to the shaft and is recommended for these applications.

Contamination:

Seals...

SEALMASTER's field proven felt lined labyrinth seals keep contaminants out and lubrication in. The felt filtering material is highly effective barrier against abrasive particulate and the labyrinth construction allows for the grease and contamination purge during re-lubrication. Depending upon your individual application needs, you may consider the other optional sealing arrangements found on page 188 in our engineering section.

Commonly Used SEALMASTER Bearings:

Generally, Roller bearings are specified with a "TF" suffix and will be modified with a Tight Fit between the housing and the bearing insert. All Tight Fit bearings are furnished with the cap bolts snugged by hand and tagged with proper torque specifications. For reduced internal clearances ("RC suffix) contact SEALMASTER Engineering for application review.

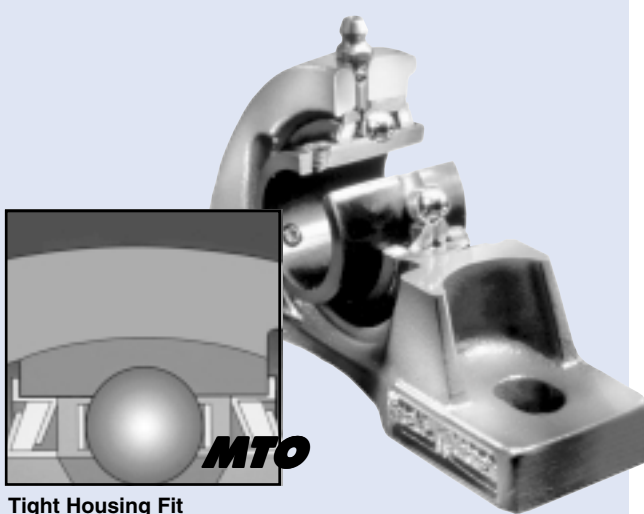
To order a Tight Fit bearing, add "TF" to the catalog part number.

For example: "RPB215-2TF"

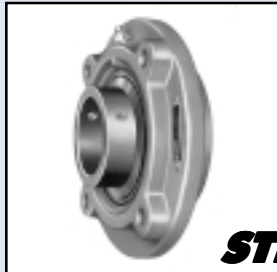
SEALMASTER ENGINEERING SHOULD BE CONTACTED TO REVIEW ANY SPECIFIC APPLICATION REQUIREMENTS.

STANDARD & CUSTOM SOLUTIONS FOR ECCENTRIC DRIVES APPLICATIONS

**GOOD AS
GOLD...
NO EQUAL!**



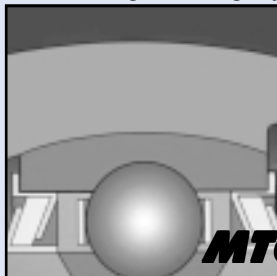
Tight Housing Fit



Piloted Flange Housing Styles



Four Bolt Pillow Blocks



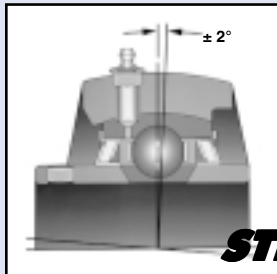
Tight Internal Clearances



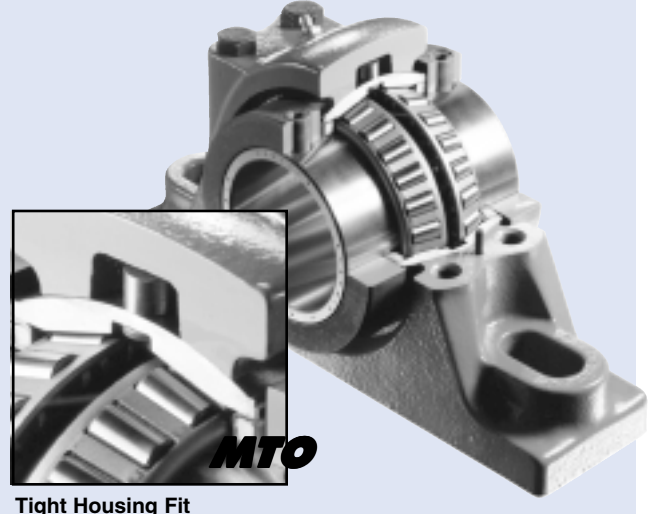
Solid Base Housing Styles



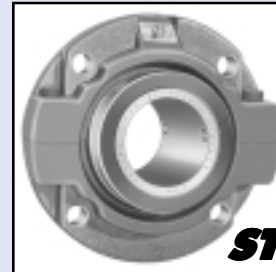
Double Side Set Screw Locking



$\pm 2^\circ$ Misalignment



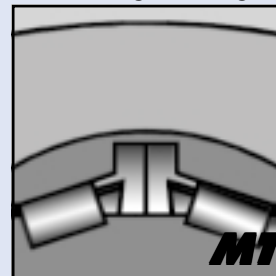
Tight Housing Fit



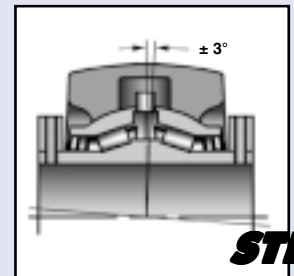
Piloted Flange Housing Styles



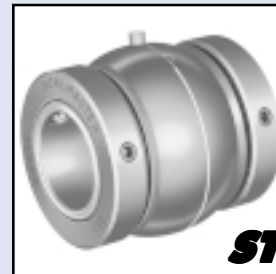
Four Bolt Pillow Block



Tight Internal Clearances



$\pm 3^\circ$ Misalignment



Double Side Set Screw Locking

SEALMASTER® APPLICATIONS...

MIXERS...

Industrial mixers are designed to combine materials in industries such as paint, ink, film, chemicals and food products. Mixers benefit from the standard Gold platform as well as special bearing modifications that address the demanding application dynamics.

Thrust loads are present due to the shaft weight, the mixing wheel, and the media being mixed. Often, mixers have a vertical shaft orientation. The bearings typically have close center distances and an extended shaft cantilevered into a mixing drum. The blade is positioned at the end of the mixing shaft to blend media. Shaft deflection results in dynamic loading on the bearing which causes dynamic misalignment. Often bearings must be protected from liquid splash or dry media debris.

Key Concerns... include misalignment, thrust, system imbalance, loss of shaft lock, and liquid, dry, and chemical contamination.



GOLD LINE SOLUTIONS FOR MIXERS APPLICATIONS.

Misalignment:

The SEALMASTER misalignment capabilities, $\pm 2^\circ$ on ball and $\pm 3^\circ$ on roller bearings overcome static alignment problem associated with the extended cantilever set up found in mixers.

Thrust Loading:

Bearing Load Capability...

SEALMASTER RPB tapered roller bearings are the recommended bearing choice for mixers because of their increased ability to perform heavy combined radial and thrust loading. Although, high speed applications may require the use of mounted ball bearings.

Locking Mechanism...

Double sided set screw shaft locking, available standard on roller and medium duty ball bearings, uses four set screws to hold the bearing to the shaft and is recommended for these applications.

System Imbalance:

Wide Inner and Outer Race...

This feature distributes the dynamic misalignment forces over a large surface area between the bearing insert/cartridge and housing. This also provides a greater internal chamber volume that allows for increased grease capacity.

Locking Pin...

The locking pin design significantly lessens the likelihood of outer ring rotation that could compromise the integrity of the lubrication system.

Housing Fits...

SEALMASTER provides increased useful bearing life by incorporating a custom fit between the bearing insert/cartridge and the housing to minimize corrosive fretting, and accommodate dynamic misalignment.

Internal Clearances...

In SEALMASTER RPB Roller Bearings the optional, reduced clearance modification diminishes edge loading from dynamic shaft misalignment caused by bending of the shaft and the overhung load due to viscous or heavy media.

Contamination:

Seals...

In wet or slurry applications the SEALMASTER contact seal with protective flingers is suggested. Seal materials may need to be considered if media being mixed contains any aggressive chemicals.

Non-purgable spring loaded "V" seals (oil seals) can be utilized for grease retention on ball bearings in these vertical applications.

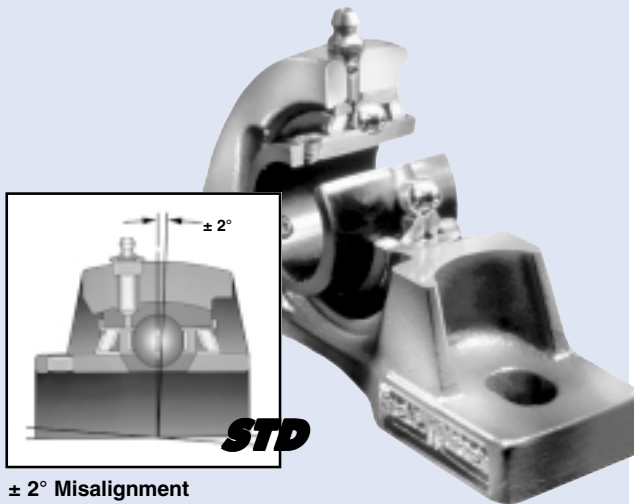
Lubrication...

Lubrication frequency may need to be increased to ensure adequate lubrication is maintained. Optional food grade greases are available where required.

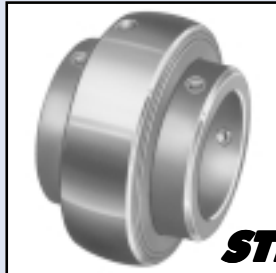
Contact application engineering with your application parameters for exact bearing selection (630-898-9620).

STANDARD & CUSTOM SOLUTIONS FOR MIXERS APPLICATIONS

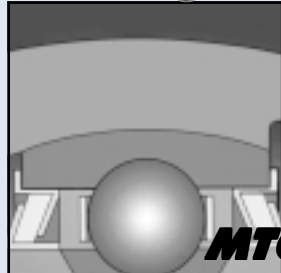
**GOOD AS
GOLD...
NO EQUAL!**



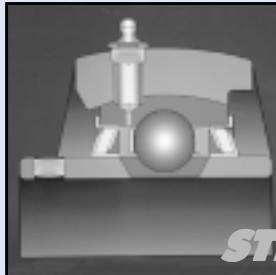
± 2° Misalignment



Double Sided Set Screw Locking



Reduced Internal Clearance



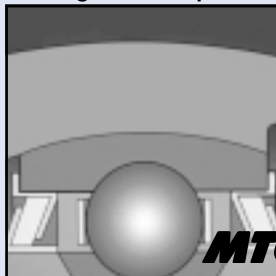
Wide Inner & Outer Race



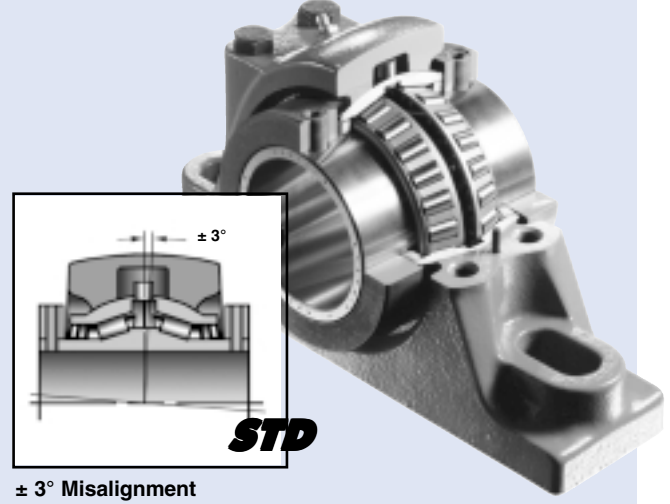
Spring Loaded "V" Seal



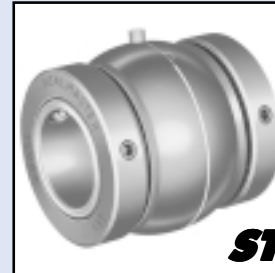
Locking Pin & Dimple



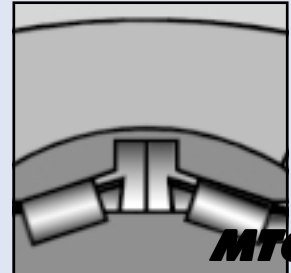
Tight Housing Fit



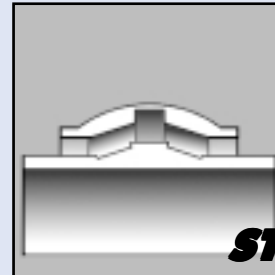
± 3° Misalignment



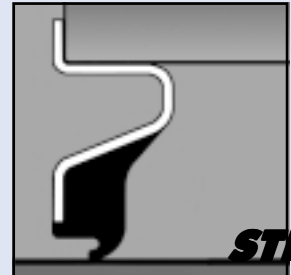
Double Sided Set Screw Locking



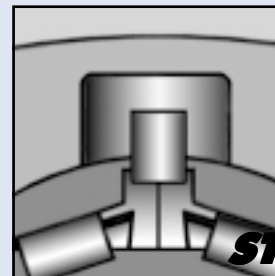
Reduced Internal Clearance



RCI Inner & Outer Race



Contact Seal



Locking Pin



Tight Housing Fit



SEALMASTER[®]
PERFORMANCE MOUNTED SPHERICALS

Unitized Spherical Roller Bearings




EMERSON[™]
Industrial Automation

EMERSON. CONSIDER IT SOLVED.[™]

Another bearing breakthrough from the name you trust

For more than 70 years, the Sealmaster name has meant the very best in bearing quality, reliability and performance. Over those years we have brought an array of cutting-edge technical improvements and platform advancements to applications around the world. Since 1976, Sealmaster® Roller Pillow Block (RPB) tapered roller bearings have set the standard for performance in some of the toughest job sites.

Now Emerson Power Transmission is continuing our tradition of innovation, with the Sealmaster Unitized Spherical Roller Bearing (USRB). This new series builds on the rich heritage of past Sealmaster bearings and brings you design enhancements of an entirely new level.

The Sealmaster Unitized Spherical Roller Bearing (USRB) is available in two distinct locking systems: collar mount with bore sizes from 1 1/8" to 7"; and adapter mount with bore sizes from 1 1/8" to 8". Its race-mounted seals accommodate +/-2° misalignment. Plus, for easy installation and maintenance the new pillow blocks from 5 7/16" to 8" are shaft ready with replaceable cartridge inserts that mount more quickly than competitive versions. Just as important, the new Emerson Power Transmission™ Sealmaster performance mounted roller bearing brings you the time-tested reliability of the Sealmaster brand, a unique advantage that helps maximize uptime and minimize overall operating costs.

Our engineers have developed new geometries that let us create an innovative double-row spherical roller bearing for load capacity, misalignment and speed capabilities. The Sealmaster performance mounted roller bearing is an advanced spherical roller bearing design that combines traditional Sealmaster features and built-in benefits with even more performance and value. Among the key design features of the Sealmaster performance mounted roller bearing are two locking systems.

Sealmaster Unitized Spherical Roller Bearing (USRB) collar mount bearings are anchored to the shaft with concentric locking collars and setscrews at 120°, providing a balanced three-point contact and extra holding power.

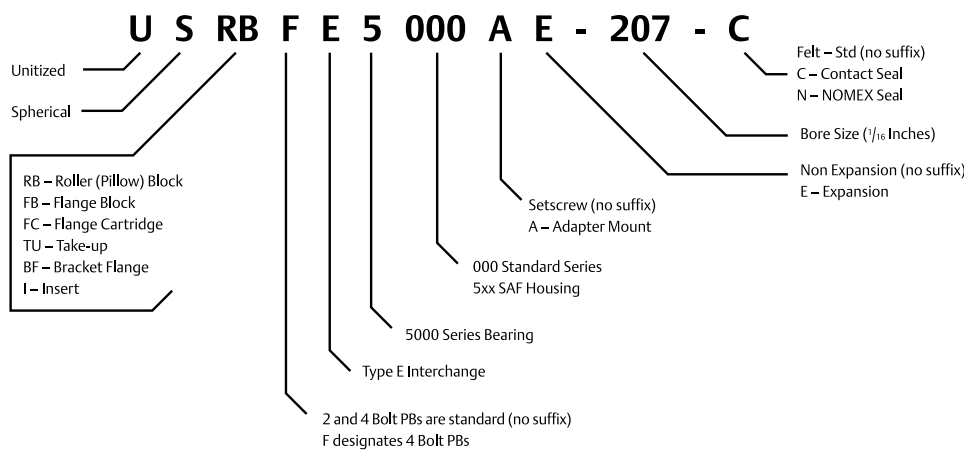
Sealmaster USRB Unitized Spherical Roller Bearing adapter mount bearings grip the shaft with an advanced adapter-lock system, for fast installation and removal. Our advanced integral locking system incorporates axial cap screws that let you mount and dismount the bearing from one side. The result: this highly engineered locking system requires less force and installs more quickly than competitive bearings. Sealmaster Unitized Spherical Roller Bearings (USRB) are also shaft ready and require only a hex key and torque wrench to install.

The new Sealmaster mounted spherical roller bearing blends traditional Sealmaster features with innovative technology, for exceptional performance. This combination dramatically cuts the potential for downtime and provides the kind of interchangeability, lower operating costs and reliability you need to keep your equipment – and your business – running 24/7.

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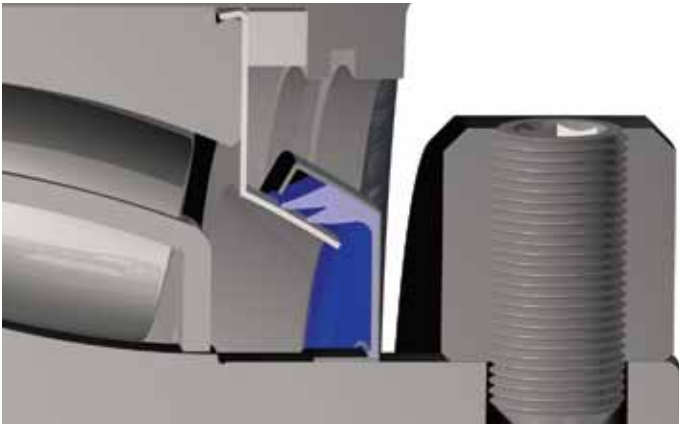
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Pillow Block USRBF 5000 & 5000A	7-8
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Take-Up USTU 5000 & 5000A	13-14
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Sealmaster USRB Nomenclature



Felt Seal

Felt seal (U.S. patent #5002406) – The Sealmaster patented felt-lined rotating flinger seal, mounted between races, allows up to $\pm 2^\circ$ of misalignment. The outer member rotates with the inner race, to help direct contamination away from the seal. Due to the unique spherical geometric design of the seal contact areas, sealing effectiveness is maintained throughout the entire specified range of misalignment. The patented felt design provides a tight labyrinth seal, which acts as a filter to help exclude foreign material and has low friction. The seal stampings are black oxide coated for corrosion resistance.



Contact Seal

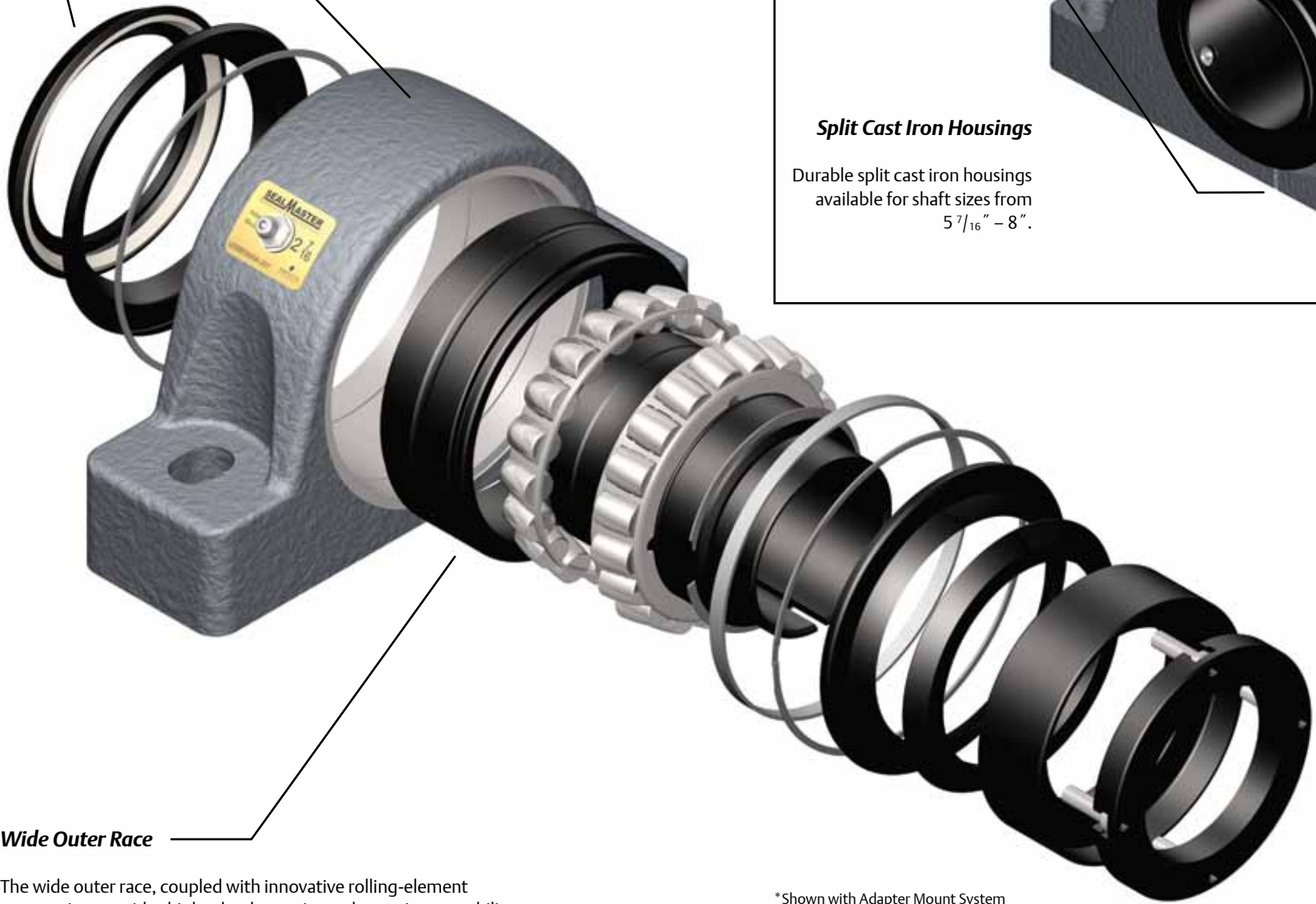
Contact seal (patent pending) – The Sealmaster double-lip contact seal, mounted between races, also allows up to $\pm 2^\circ$ of misalignment. The outer member rotates with the inner race, to help direct contamination away from the seal. Due to the unique spherical geometric design of the seal contact areas, sealing effectiveness is maintained throughout the entire specified range of misalignment. This seal operates with low drag, making it a smart choice for dry, dusty or wet conditions. The rotating double-lip hinge seal design delivers exceptional limiting speed.

Misalignment

The arrangement of rolling elements and races in Sealmaster Mounted Spherical Roller Bearings compensates for $\pm 2^\circ$ of misalignment – up to twice an SAF – while maintaining catalog load ratings and sealing effectiveness. The Sealmaster Mounted Spherical Roller Bearing has a replaceable cartridge insert that consists of a double-row spherical roller bearing with patented race-mounted seals. These integrally sealed, one-piece cartridge inserts can also be used for mounting in cylindrical-bore housings for an even wider range of applications, including extruders, mill equipment and coating lines, where space is at a premium.

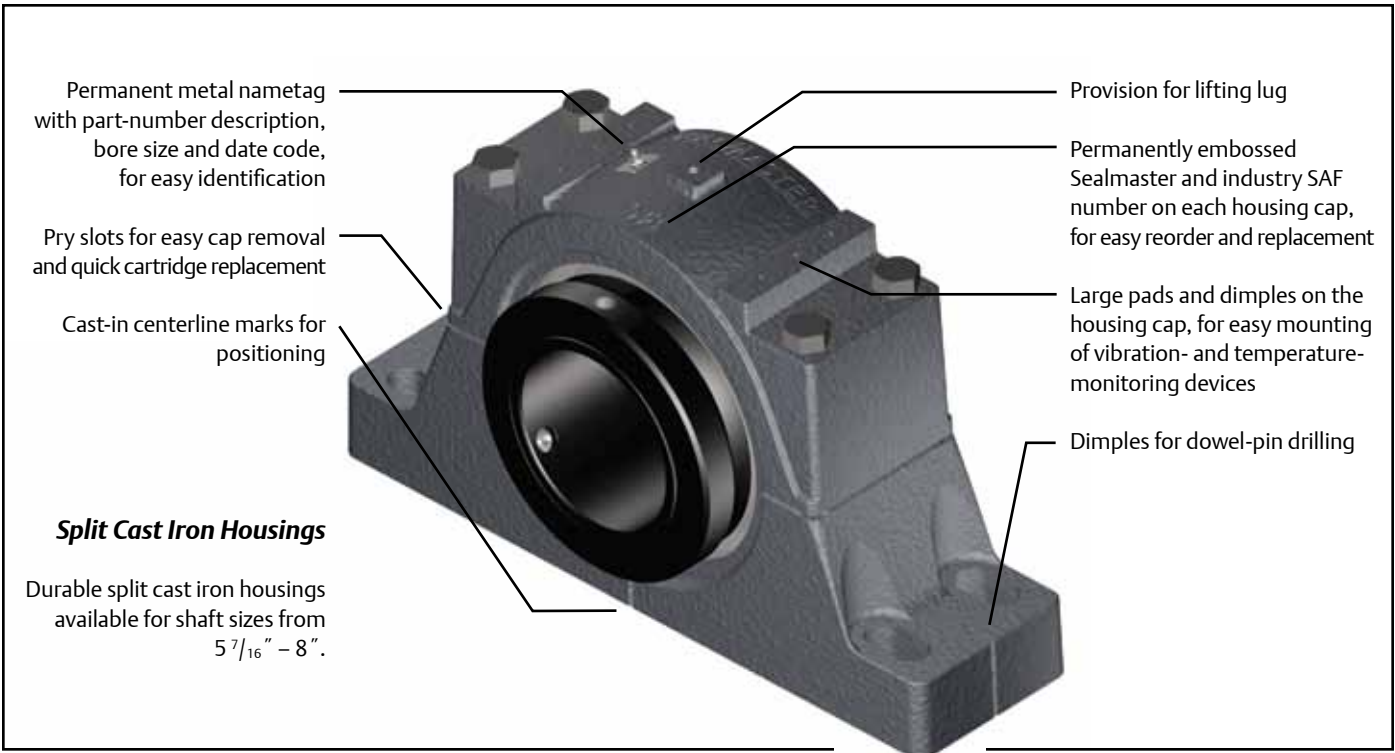
One-Piece Housing

Durable one-piece cast-iron housings for shaft sizes from $1\frac{1}{8}''$ – $5''$. Ductile iron housings with type E mounting dimensions from $1\frac{15}{16}''$ – $4''$.



Wide Outer Race

The wide outer race, coupled with innovative rolling-element geometries, provides higher load capacity and more insert stability in the housing. More important, the wide outer race provides for better sealing and creates a large internal grease chamber, for more grease capacity. The outer races are black oxide coated for corrosion protection. All Sealmaster Unitized Spherical Roller Bearings (USRB) contain high-capacity double-row spherical roller bearings designed to handle a combination of loads. New geometries developed by Sealmaster engineers result in an innovative double-row spherical roller bearing with load capacity, misalignment and speed capability.



Split Cast Iron Housings

Durable split cast iron housings available for shaft sizes from $5\frac{7}{16}''$ – $8''$.

Collar Mount

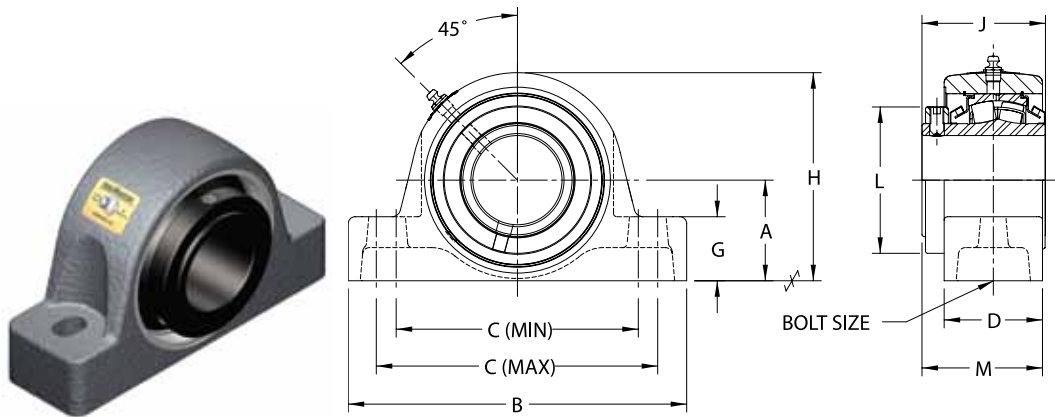
Sealmaster performance mounted roller bearing pillow blocks are anchored to the shaft with two concentric locking collars and setscrews at 120° , providing a balanced three-point contact and extra holding power.

Adapter Mount*

The Sealmaster performance mounted roller bearings grip the shaft with an advanced adapter mount system (patent pending), for fast installation and removal. Our advanced integral locking system incorporates axial cap screws that let you mount and dismount the bearing from one side. The result: this highly engineered locking system requires less force and installs up to six times more quickly than competitive bearings. Sealmaster Mounted Spherical Roller Bearings are also shaft ready and require only a hex key and torque wrench to install; no special tools or feeler gauges are required.

*Shown with Adapter Mount System

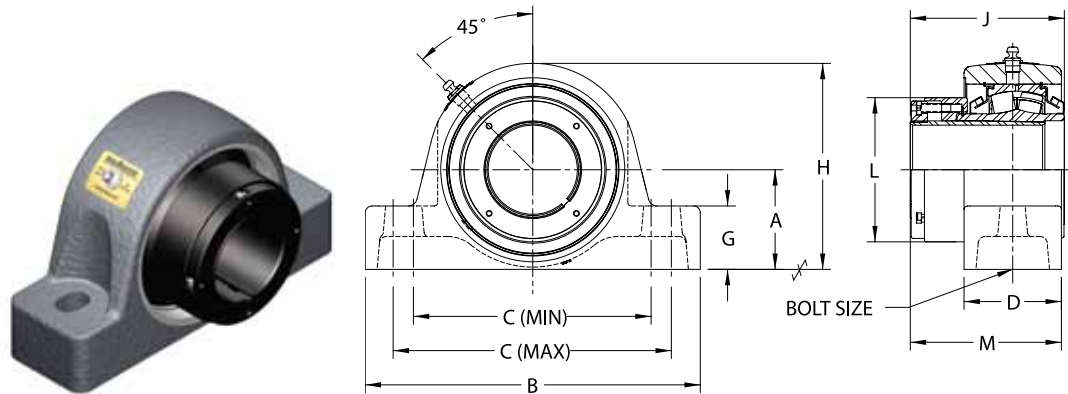
Pillow Block
USRB 5000



Two Bolt Base, Collar Mount												
Nomenclature	Shaft Diameter (INCHES)	A	B	C		D	G	H	J	L	M*	Bolt Size
				Min.	Max.							
USRB5000-102	1 1/8											
USRB5000-103	1 3/16	1 3/4	6 5/16	4 1/2	5	2 3/16	1 1/16	3 3/4	2 3/4	2 49/64	2 3/4	3/8
USRB5000-104	1 1/4											
USRB5000-106	1 3/8											
USRB5000-107	1 7/16	1 7/8	6 7/8	4 11/16	5 5/16	2 3/16	1 3/16	3 7/8	2 3/4	2 49/64	2 3/4	1/2
USRB5000-108	1 1/2											
USRB5000-111	1 11/16											
USRB5000-112	1 3/4	2 1/8	7 3/8	5 3/16	5 13/16	2 3/16	1 5/16	4 1/4	2 7/8	2 3/4	2 51/64	1/2
USRB5000-115	1 15/16											
USRB5000-200	2	2 1/4	8 3/8	5 5/16	6 9/16	2 3/16	1 3/8	4 9/16	2 7/8	3	2 25/32	5/8
USRB5000-203	2 3/16	2 1/2	8 7/8	6 9/16	7 1/16	2 7/16	1 5/8	5	3 1/8	3 1/4	3 5/64	5/8
USRB5000-207	2 7/16											
USRB5000-208	2 1/2	2 3/4	9 1/4	6 13/16	7 7/16	2 11/16	1 3/4	5 11/16	3 3/8	4	3 9/32	5/8
USRB5000-211	2 11/16											
USRB5000-212	2 3/4											
USRB5000-215	2 15/16	3 1/4	10 7/16	7 13/16	8 7/16	2 13/16	2 1/4	6 7/16	3 7/8	4 17/32	3 3/4	3/4
USRB5000-300	3											
USRB5000-303	3 3/16											
USRB5000-307	3 7/16	3 3/4	13	9 1/4	10 3/4	3 3/16	2 1/4	7 1/2	4 15/32	5 5/16	4 15/64	7/8
USRB5000-308	3 1/2											
USRB5000-311	3 11/16											
USRB5000-315	3 15/16	4 1/8	14 1/4	10	11 3/4	3 9/16	2 1/2	8 7/16	4 15/16	6	4 23/32	1
USRB5000-400	4											

* For expansion bearings, this dimension can increase by the corresponding value listed in Table 7 on page 28.

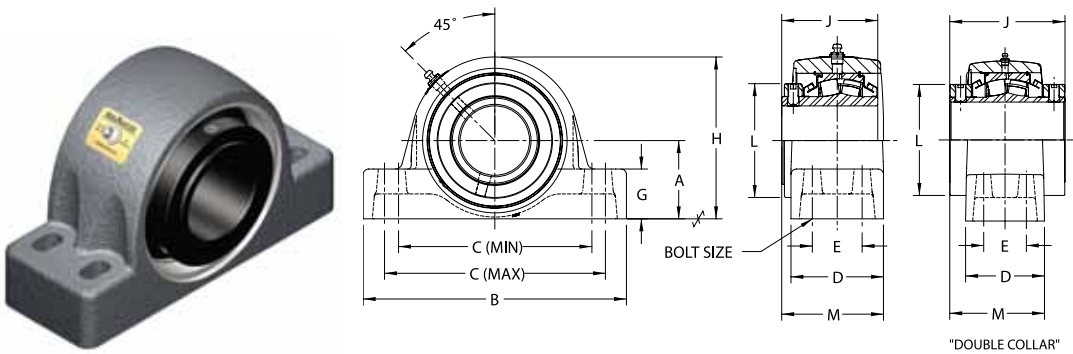
Pillow Block
USRB 5000A



Two Bolt Base, Adapter Mount												
Nomenclature	Shaft Diameter (INCHES)	A	B	C		D	G	H	J	L	M*	Bolt Size
				Min.	Max.							
USRB5000A-102	1 1/8											
USRB5000A-103	1 3/16	1 3/4	6 5/16	4 1/2	5	2 3/16	1 1/16	3 3/4	3 23/64	2 47/64	3 11/32	3/8
USRB5000A-104	1 1/4											
USRB5000A-106	1 3/8											
USRB5000A-107	1 7/16	1 7/8	6 7/8	4 11/16	5 5/16	2 3/16	1 3/16	3 7/8	3 23/64	2 47/64	3 11/32	1/2
USRB5000A-108	1 1/2											
USRB5000A-111	1 11/16											
USRB5000A-112	1 3/4	2 1/8	7 3/8	5 3/16	5 13/16	2 3/16	1 5/16	4 1/4	3 29/64	2 63/64	3 3/8	1/2
USRB5000A-115	1 15/16											
USRB5000A-200	2	2 1/4	8 3/8	5 5/16	6 9/16	2 3/16	1 3/8	4 9/16	3 1/2	3 3/16	3 13/32	5/8
USRB5000A-203	2 3/16	2 1/2	8 7/8	6 9/16	7 1/16	2 7/16	1 5/8	5	3 57/64	3 29/64	3 27/32	5/8
USRB5000A-207	2 7/16											
USRB5000A-208	2 1/2	2 3/4	9 1/4	6 13/16	7 7/16	2 11/16	1 3/4	5 11/16	4 5/16	3 63/64	4 7/32	5/8
USRB5000A-211	2 11/16											
USRB5000A-212	2 3/4											
USRB5000A-215	2 15/16	3 1/4	10 7/16	7 13/16	8 7/16	2 13/16	2 1/4	6 7/16	4 31/64	4 25/64	4 3/8	3/4
USRB5000A-300	3											
USRB5000A-303	3 3/16											
USRB5000A-307	3 7/16	3 3/4	13	9 1/4	10 3/4	3 3/16	2 1/4	7 1/2	5 35/64	5 15/32	5 21/64	7/8
USRB5000A-308	3 1/2											
USRB5000A-311	3 11/16											
USRB5000A-315	3 15/16	4 1/8	14 1/4	10	11 3/4	3 9/16	2 1/2	8 7/16	5 15/16	5 13/16	5 23/32	1
USRB5000A-400	4											

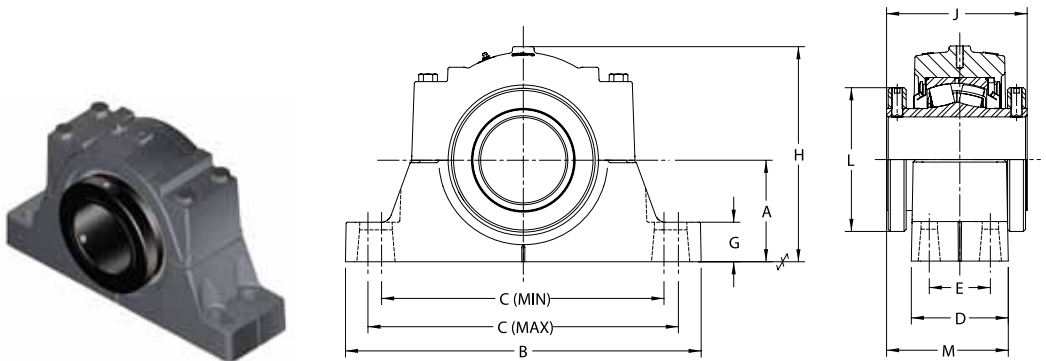
* For expansion bearings, this dimension can increase by the corresponding value listed in Table 7 on page 28.

Pillow Block
USRBF 5000



Four Bolt Base, Collar Mount													
Nomenclature	Shaft Diameter (INCHES)	A	B	C		D	E	G	H	J	L	M*	Bolt Size
				Min.	Max.								
USRBF5000-207	2 7/16	2 3/4	9 1/4	6 7/8	7 5/8	3 1/4	1 3/4	1 3/4	5 11/16	3 3/8	4	3 43/64	1/2
USRBF5000-208	2 1/2	2 3/4	9 1/4	6 7/8	7 5/8	3 1/4	1 3/4	1 3/4	5 11/16	3 3/8	4	3 43/64	1/2
USRBF5000-211	2 11/16	3 1/4	10 7/16	7 7/8	8 3/8	3 3/4	1 7/8	2 1/4	6 7/16	3 7/8	4 17/32	4 19/64	5/8
USRBF5000-212	2 3/4	3 1/4	10 7/16	7 7/8	8 3/8	3 3/4	1 7/8	2 1/4	6 7/16	3 7/8	4 17/32	4 19/64	5/8
USRBF5000-215	2 15/16	3 1/4	10 7/16	7 7/8	8 3/8	3 3/4	1 7/8	2 1/4	6 7/16	3 7/8	4 17/32	4 19/64	5/8
USRBF5000-300	3	3 3/4	13	9 1/4	10 3/4	3 7/8	2	2 1/4	7 1/2	4 15/32	5 5/16	4 19/32	3/4
USRBF5000-303	3 3/16	3 3/4	13	9 1/4	10 3/4	3 7/8	2	2 1/4	7 1/2	4 15/32	5 5/16	4 19/32	3/4
USRBF5000-307	3 7/16	3 3/4	13	9 1/4	10 3/4	3 7/8	2	2 1/4	7 1/2	4 15/32	5 5/16	4 19/32	3/4
USRBF5000-308	3 1/2	3 3/4	13	9 1/4	10 3/4	3 7/8	2	2 1/4	7 1/2	4 15/32	5 5/16	4 19/32	3/4
USRBF5000-311	3 11/16	4 1/4	15 1/4	11	13	4 1/2	2 1/4	2 5/8	8 9/16	4 15/16	6	5 13/64	3/4
USRBF5000-315	3 15/16	4 1/4	15 1/4	11	13	4 1/2	2 1/4	2 5/8	8 9/16	4 15/16	6	5 13/64	3/4
USRBF5000-400	4	4 3/4	16 3/64	13	14	4 5/8	2 1/2	2 3/4	9 3/8	6 3/4	6 1/2	5 33/64	3/4
USRB5000-407	4 7/16	4 3/4	16 3/64	13	14	4 5/8	2 1/2	2 3/4	9 3/8	6 3/4	6 1/2	5 33/64	3/4
USRB5000-408	4 1/2	4 3/4	16 3/64	13	14	4 5/8	2 1/2	2 3/4	9 3/8	6 3/4	6 1/2	5 33/64	3/4
USRB5000-415	4 15/16	5 1/2	18 1/2	15	16	5 1/8	2 3/4	3	10 7/8	7 27/64	7	6 3/32	7/8

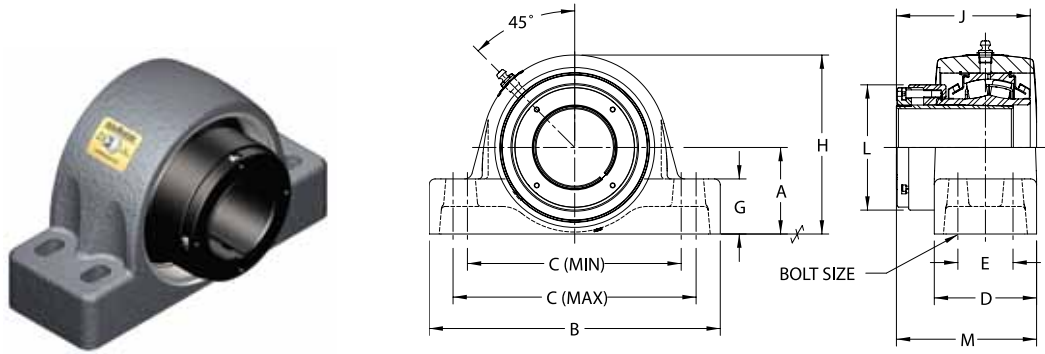
Pillow Block
USRB 5500



Four Bolt Base, Collar Mount													
Nomenclature	Shaft Diameter (INCHES)	A	B	C		D	E	G	H	J	L	M*	Bolt Size
				Min.	Max.								
USRB5532-507	5 7/16	6 11/16	22	17 3/8	19 1/4	6 1/4	3 3/4	2 5/8	13 17/32	9 1/32	8 1/2	7 27/32	1
USRB5534-515	5 15/16	7 1/16	24 3/4	19 3/8	21 5/8	6 3/4	4 1/4	2 3/4	14 31/32	9 25/32	10	8 15/32	1
USRB5536-607	6 7/16	7 1/2	26 3/4	20 7/8	23 5/8	7 1/8	4 5/8	3	15 61/64	10 1/2	11	9 1/64	1
USRB5536-608	6 1/2	7 1/2	26 3/4	20 7/8	23 5/8	7 1/8	4 5/8	3	15 61/64	10 1/2	11	9 1/64	1
USRB5538-615	6 15/16	7 7/8	28	21 5/8	24 3/8	7 1/2	4 1/2	3 1/8	16 9/16	10 1/2	11	9 13/64	1 1/4
USRB5538-700	7	7 7/8	28	21 5/8	24 3/8	7 1/2	4 1/2	3 1/8	16 9/16	10 1/2	11	9 13/64	1 1/4

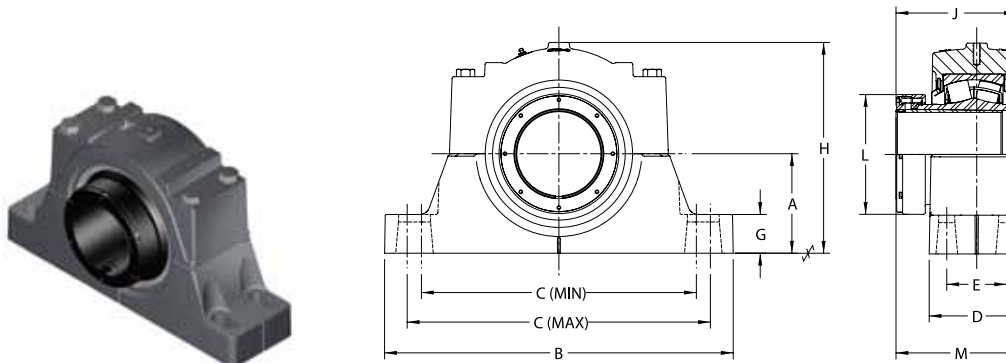
* For expansion bearings, this dimension can increase by the corresponding value listed in Table 7 on page 28.

Pillow Block
USRBF 5000A



Four Bolt Base, Adapter Mount													
Nomenclature	Shaft Diameter (INCHES)	A	B	C		D	E	G	H	J	L	M*	Bolt Size
				Min.	Max.								
USRBF5000A-207	2 7/16	2 3/4	9 1/4	6 7/8	7 5/8	3 1/4	1 3/4	1 3/4	5 11/16	4 5/16	3 63/64	4 39/64	1/2
USRBF5000A-208	2 1/2	2 3/4	9 1/4	6 7/8	7 5/8	3 1/4	1 3/4	1 3/4	5 11/16	4 5/16	3 63/64	4 39/64	1/2
USRBF5000A-211	2 11/16	3 1/4	10 7/16	7 7/8	8 3/8	3 3/4	1 7/8	2 1/4	6 7/16	4 31/64	4 25/64	4 29/32	5/8
USRBF5000A-212	2 3/4	3 1/4	10 7/16	7 7/8	8 3/8	3 3/4	1 7/8	2 1/4	6 7/16	4 31/64	4 25/64	4 29/32	5/8
USRBF5000A-215	2 15/16	3 1/4	10 7/16	7 7/8	8 3/8	3 3/4	1 7/8	2 1/4	6 7/16	4 31/64	4 25/64	4 29/32	5/8
USRBF5000A-300	3	3 3/4	13	9 1/4	10 3/4	3 7/8	2	2 1/4	7 1/2	5 35/64	5 15/32	5 43/64	3/4
USRBF5000A-303	3 3/16	3 3/4	13	9 1/4	10 3/4	3 7/8	2	2 1/4	7 1/2	5 35/64	5 15/32	5 43/64	3/4
USRBF5000A-307	3 7/16	3 3/4	13	9 1/4	10 3/4	3 7/8	2	2 1/4	7 1/2	5 35/64	5 15/32	5 43/64	3/4
USRBF5000A-308	3 1/2	3 3/4	13	9 1/4	10 3/4	3 7/8	2	2 1/4	7 1/2	5 35/64	5 15/32	5 43/64	3/4
USRBF5000A-311	3 11/16	4 1/4	15 1/4	11	13	4 1/2	2 1/4	2 5/8	8 9/16	5 15/16	5 13/16	6 13/64	3/4
USRBF5000A-315	3 15/16	4 1/4	15 1/4	11	13	4 1/2	2 1/4	2 5/8	8 9/16	5 15/16	5 13/16	6 13/64	3/4
USRBF5000A-400	4	4 3/4	16 3/64	13	14	4 5/8	2 1/2	2 3/4	9 3/8	6 27/64	6 11/32	6 31/64	3/4
USRB5000A-407	4 7/16	4 3/4	16 3/64	13	14	4 5/8	2 1/2	2 3/4	9 3/8	6 27/64	6 11/32	6 31/64	3/4
USRB5000A-408	4 1/2	4 3/4	16 3/64	13	14	4 5/8	2 1/2	2 3/4	9 3/8	6 27/64	6 11/32	6 31/64	3/4
USRB5000A-415	4 15/16	5 1/2	18 1/2	15	16	5 1/8	2 3/4	3	10 7/8	7 1/8	7 13/64	7 3/32	7/8
USRB5000A-500	5	5 1/2	18 1/2	15	16	5 1/8	2 3/4	3	10 7/8	7 1/8	7 13/64	7 3/32	7/8

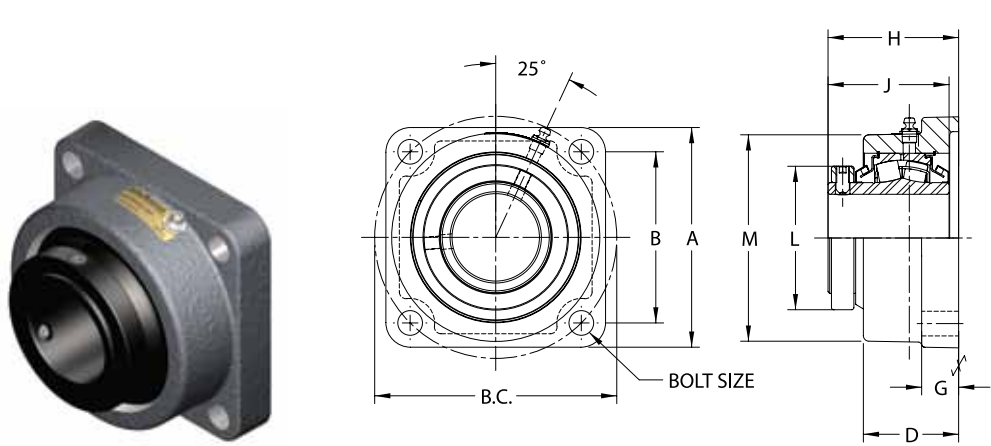
Pillow Block
USRB 5500A



Four Bolt Base, Adapter Mount													
Nomenclature	Shaft Diameter (INCHES)	A	B	C		D	E	G	H	J	L	M*	Bolt Size
				Min.	Max.								
USRB5532A-507	5 7/16	6 11/16	22	17 3/8	19 1/4	6 1/4	3 3/4	2 5/8	13 17/32	7 35/64	7 47/64	8 17/64	1
USRB5534A-515	5 15/16	7 1/16	24 3/4	19 3/8	21 5/8	6 3/4	4 1/4	2 3/4	14 31/32	8 17/32	8 1/2	9 7/64	1
USRB5536A-607	6 7/16	7 1/2	26 3/4	20 7/8	23 5/8	7 1/8	4 5/8	3	15 61/64	9 3/8	9 11/16	9 13/16	1
USRB5536A-608	6 1/2	7 1/2	26 3/4	20 7/8	23 5/8	7 1/8	4 5/8	3	15 61/64	9 3/8	9 11/16	9 13/16	1
USRB5538A-615	6 15/16	7 7/8	28	21 5/8	24 3/8	7 1/2	4 1/2	3 1/8	16 9/16	9 3/8	9 11/16	10	1 1/4
USRB5538A-700	7	7 7/8	28	21 5/8	24 3/8	7 1/2	4 1/2	3 1/8	16 9/16	9 3/8	9 11/16	10	1 1/4
USRB5544A-708	7 1/2	9 1/2	32 3/4	24 3/4	27 7/8	8 3/4	5 1/4	3 3/4	19 5/8	10 13/32	11 7/64	11 3/8	1 1/2
USRB5544A-715	7 15/16	9 1/2	32 3/4	24 3/4	27 7/8	8 3/4	5 1/4	3 3/4	19 5/8	10 13/32	11 7/64	11 3/8	1 1/2
USRB5544A-800	8	9 1/2	32 3/4	24 3/4	27 7/8	8 3/4	5 1/4	3 3/4	19 5/8	10 13/32	11 7/64	11 3/8	1 1/2

* For expansion bearings, this dimension can increase by the corresponding value listed in Table 7 on page 28.

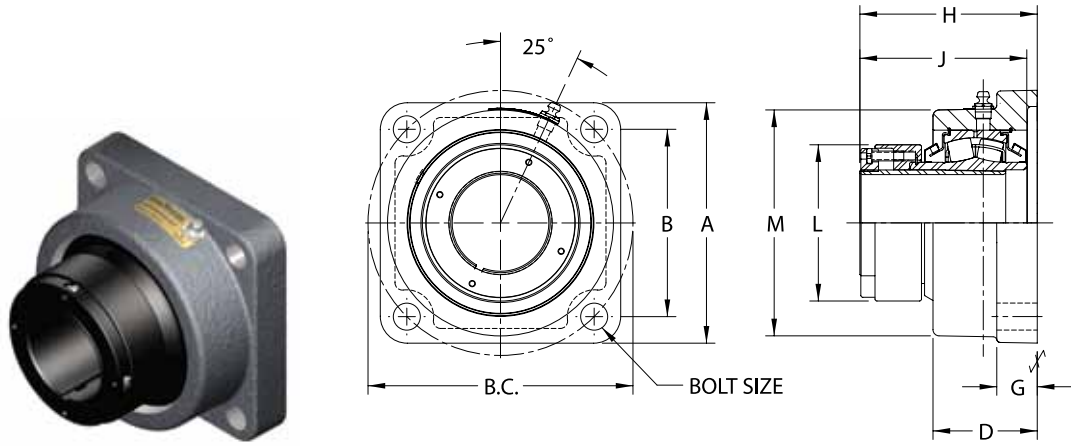
Flange Block
USFB 5000



Four Bolt Base, Collar Mount											
Nomenclature	Shaft Diameter (INCHES)	A	B	B.C.	D	G	H*	J	L	M	Bolt Size
USFB5000-106	1 3/8	4 5/8	3 17/32	5	2 1/16	3/4	2 25/32	2 3/4	2 49/64	3 7/8	1/2
USFB5000-107	1 7/16										
USFB5000-108	1 1/2										
USFB5000-111	1 11/16	5	3 57/64	5 1/2	2 1/4	3/4	2 29/32	2 7/8	2 3/4	4 1/2	1/2
USFB5000-112	1 3/4										
USFB5000-115	1 15/16	5 3/16	4 1/16	5 3/4	2 1/4	3/4	2 29/32	2 7/8	3	4 3/4	1/2
USFB5000-200	2										
USFB5000-203	2 3/16	5 7/8	4 1/2	6 3/8	2 7/16	13/16	3 5/32	3 1/8	3 1/4	5 1/8	5/8
USFB5000-207	2 7/16	6 1/8	4 49/64	6 3/4	2 21/32	1 1/32	3 13/32	3 3/8	4	5 3/4	5/8
USFB5000-208	2 1/2										
USFB5000-211	2 11/16	7 3/16	5 9/16	7 7/8	2 7/8	15/16	3 57/64	3 7/8	4 17/32	6 5/8	3/4
USFB5000-212	2 3/4										
USFB5000-215	2 15/16										
USFB5000-300	3										
USFB5000-303	3 3/16	8 3/8	6 23/32	9 1/2	3 7/32	1 1/8	4 1/2	4 15/32	5 5/16	7 5/8	3/4
USFB5000-307	3 7/16										
USFB5000-308	3 1/2										
USFB5000-311	3 11/16	9 1/2	7 19/32	10 3/4	3 1/2	1 1/8	4 31/32	4 15/16	6	8 3/8	7/8
USFB5000-315	3 15/16										
USFB5000-400	4										

* For expansion bearings, this dimension can increase by the corresponding value listed in Table 7 on page 28.

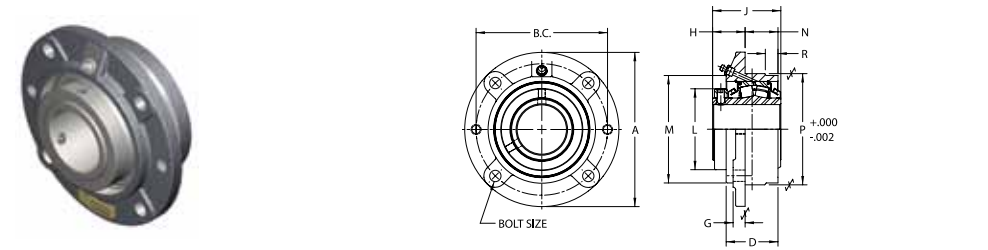
Flange Block
USFB 5000A



Four Bolt Base, Adapter Mount											
Nomenclature	Bore (INCHES)	A	B	B.C.	D	G	H*	J	L	M	Bolt Size
USFB5000A-106	1 3/8	4 5/8	3 17/32	5	2 1/16	3/4	3 3/8	3 23/64	2 47/64	3 7/8	1/2
USFB5000A-107	1 7/16										
USFB5000A-108	1 1/2										
USFB5000A-111	1 11/16	5	3 57/64	5 1/2	2 1/4	3/4	3 31/64	3 29/64	2 63/64	4 1/2	1/2
USFB5000A-112	1 3/4										
USFB5000A-115	1 15/16	5 3/16	4 1/16	5 3/4	2 1/4	3/4	3 17/32	3 1/2	3 3/16	4 3/4	1/2
USFB5000A-200	2										
USFB5000A-203	2 3/16	5 7/8	4 1/2	6 3/8	2 7/16	13/16	3 29/32	3 57/64	3 29/64	5 1/8	5/8
USFB5000A-207	2 7/16	6 1/8	4 49/64	6 3/4	2 21/32	1 1/32	4 21/64	4 5/16	3 63/64	5 3/4	5/8
USFB5000A-208	2 1/2										
USFB5000A-211	2 11/16	7 3/16	5 9/16	7 7/8	2 7/8	15/16	4 33/64	4 31/64	4 25/64	6 5/8	3/4
USFB5000A-212	2 3/4										
USFB5000A-215	2 15/16										
USFB5000A-300	3										
USFB5000A-303	3 3/16	8 3/8	6 23/32	9 1/2	3 7/32	1 1/8	5 19/32	5 35/64	5 15/32	7 5/8	3/4
USFB5000A-307	3 7/16										
USFB5000A-308	3 1/2										
USFB5000A-311	3 11/16	9 1/2	7 19/32	10 3/4	3 1/2	1 1/8	5 63/64	5 15/16	5 13/16	8 3/8	7/8
USFB5000A-315	3 15/16										
USFB5000A-400	4										

* For expansion bearings, this dimension can increase by the corresponding value listed in Table 7 on page 28.

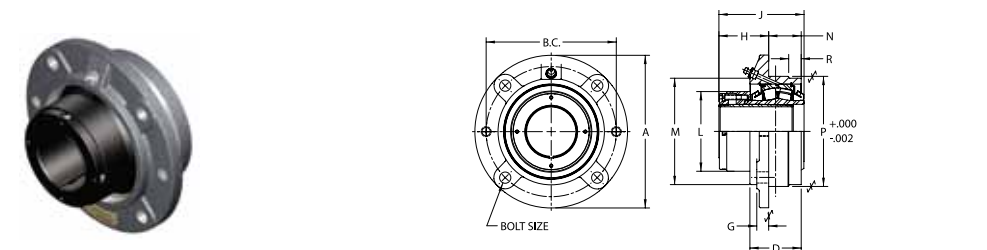
Flange Cartridge
USFC 5000



Collar Mount													
Nomenclature	Shaft Diameter (Inches)	A	B.C.	D	G	H*	J	L	M	N	P	R	Bolt Size
USFC5000-106	1 3/8	5 1/4	4 3/8	2 1/16	15/32	1 7/16	2 3/4	2 49/64	3 1/2	1 9/32	3 5/8	-	3/8
USFC5000-107	1 7/16												
USFC5000-108	1 1/2												
USFC5000-111	1 11/16	6 1/8	5 1/8	2 1/4	15/32	1 27/64	2 7/8	2 3/4	4	1 7/16	4 1/4	9/16	7/16
USFC5000-112	1 3/4												
USFC5000-115	1 15/16	6 3/8	5 3/8	2 1/4	17/32	1 25/64	2 7/8	3	4 3/8	1 15/32	4 1/2	19/32	7/16
USFC5000-200	2												
USFC5000-203	2 3/16	7 1/8	6	2 3/8	17/32	1 37/64	3 1/8	3 1/4	4 3/4	1 15/32	5	15/32	1/2
USFC5000-207	2 7/16												
USFC5000-208	2 1/2	7 5/8	6 1/2	2 9/16	19/32	1 19/32	3 3/8	4	5 5/16	1 5/8	5 1/2	5/8	1/2
USFC5000-211	2 11/16												
USFC5000-212	2 3/4	8 3/4	7 1/2	2 7/8	23/32	1 63/64	3 7/8	4 17/32	6	1 27/32	6 3/8	19/32	5/8
USFC5000-215	2 15/16												
USFC5000-300	3												
USFC5000-303	3 3/16												
USFC5000-307	3 7/16	10 1/4	8 5/8	3 7/64	53/64	2 13/32	4 15/32	5 5/16	7 3/16	1 27/32	7 3/8	19/32	3/4
USFC5000-308	3 1/2												
USFC5000-311	3 11/16	10 7/8	9 3/8	3 1/2	31/32	2 21/32	4 15/16	6	7 3/4	2 1/16	8 1/8	9/16	3/4
USFC5000-315	3 15/16												
USFC5000-400	4												

* For expansion bearings, this dimension can increase by the corresponding value listed in Table 7 on page 28.

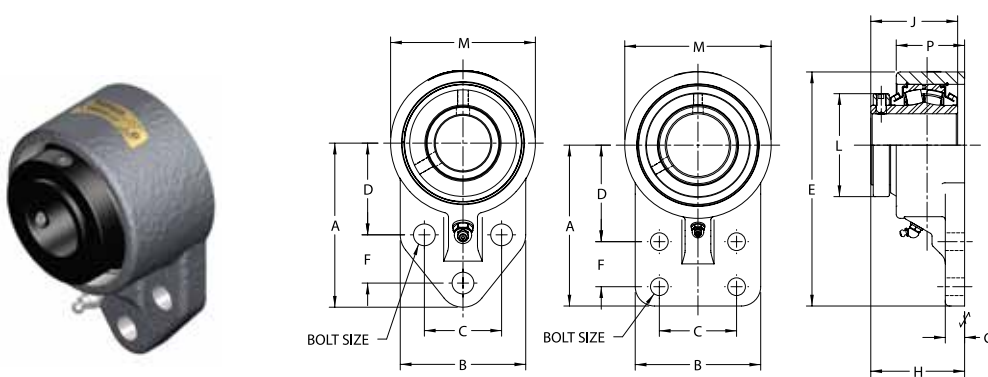
Flange Cartridge
USFC 5000A



Adapter Mount													
Nomenclature	Shaft Diameter (Inches)	A	B.C.	D	G	H*	J	L	M	N	P	R	Bolt Size
USFC5000A-106	1 3/8	5 1/4	4 3/8	2 1/16	15/32	2 3/64	3 23/64	2 47/64	3 1/2	1 9/32	3 5/8	-	3/8
USFC5000A-107	1 7/16												
USFC5000A-108	1 1/2												
USFC5000A-111	1 11/16	6 1/8	5 1/8	2 1/4	15/32	2	3 29/64	2 63/64	4	1 7/16	4 1/4	9/16	7/16
USFC5000A-112	1 3/4												
USFC5000A-115	1 15/16	6 3/8	5 3/8	2 1/4	17/32	2 1/64	3 1/2	3 3/16	4 3/8	1 15/32	4 1/2	19/32	7/16
USFC5000A-200	2												
USFC5000A-203	2 3/16	7 1/8	6	2 3/8	17/32	2 11/32	3 57/64	3 29/64	4 3/4	1 15/32	5	15/32	1/2
USFC5000A-207	2 7/16												
USFC5000A-208	2 1/2	7 5/8	6 1/2	2 9/16	19/32	2 17/32	4 5/16	3 63/64	5 5/16	1 5/8	5 1/2	5/8	1/2
USFC5000A-211	2 11/16												
USFC5000A-212	2 3/4	8 3/4	7 1/2	2 7/8	23/32	2 19/32	4 31/64	4 25/64	6	1 27/32	6 3/8	19/32	5/8
USFC5000A-215	2 15/16												
USFC5000A-300	3												
USFC5000A-303	3 3/16												
USFC5000A-307	3 7/16	10 1/4	8 5/8	3 7/64	53/64	3 1/2	5 35/64	5 15/32	7 3/16	1 27/32	7 3/8	19/32	3/4
USFC5000A-308	3 1/2												
USFC5000A-311	3 11/16	10 7/8	9 3/8	3 1/2	31/32	3 21/32	5 15/16	5 13/16	7 3/4	2 1/16	8 1/8	9/16	3/4
USFC5000A-315	3 15/16												
USFC5000A-400	4												

* For expansion bearings, this dimension can increase by the corresponding value listed in Table 7 on page 28.

Flange Bracket
USBF 5000

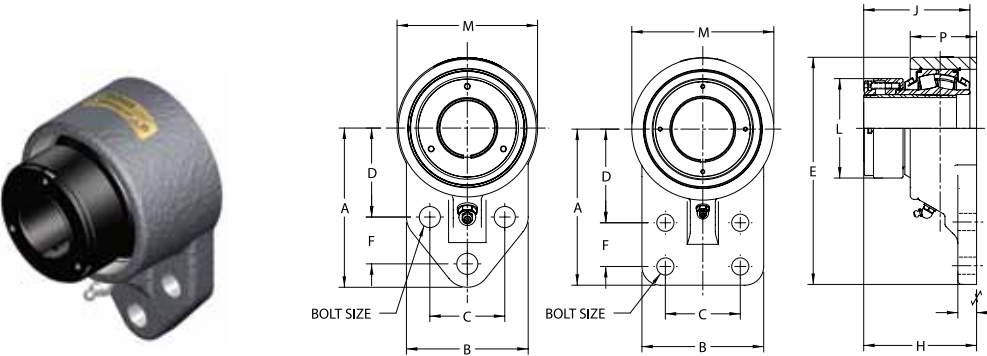


Three Bolt, Collar Mount													
Nomenclature	Bore (Inches)	A	B	C	D	E	F	G	H*	J	L	M	Bolt Size
USBF5000-107	1 7/16	4 1/4	3 1/4	2	2 3/8	6 1/8	1 1/4	5/8	2 25/32	2 3/4	2 49/64	3 3/4	1/2
USBF5000-115	1 15/16	5 3/16	4	2 3/4	2 15/16	7 5/16	1 5/8	9/16	2 29/32	2 7/8	3	4 1/4	1/2

Four Bolt, Collar Mount													
USBF5000-207	2 7/16	6 1/4	4 7/8	3	3 3/4	9 3/32	1 3/4	3/4	3 13/32	3 3/8	4	5 11/16	5/8

* For expansion bearings, this dimension can increase by the corresponding value listed in Table 7 on page 28.

Flange Bracket
USBF 5000A

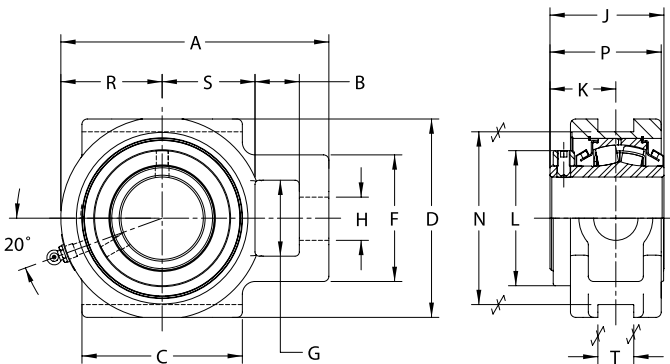


Three Bolt, Adapter Mount													
Nomenclature	Bore (Inches)	A	B	C	D	E	F	G	H*	J	L	M	Bolt Size
USBF5000A-107	1 7/16	4 1/4	3 1/4	2	2 3/8	6 1/8	1 1/4	5/8	3 3/8	3 23/64	2 47/64	3 3/4	1/2
USBF5000A-115	1 15/16	5 3/16	4	2 3/4	2 15/16	7 5/16	1 5/8	9/16	3 17/32	3 1/2	3 3/16	4 1/4	1/2

Four Bolt, Collar Mount													
USBF5000A-207	2 7/16	6 1/4	4 7/8	3	3 3/4	9 3/32	1 3/4	3/4	4 21/64	4 5/16	3 63/64	5 11/16	5/8

* For expansion bearings, this dimension can increase by the corresponding value listed in Table 7 on page 28.

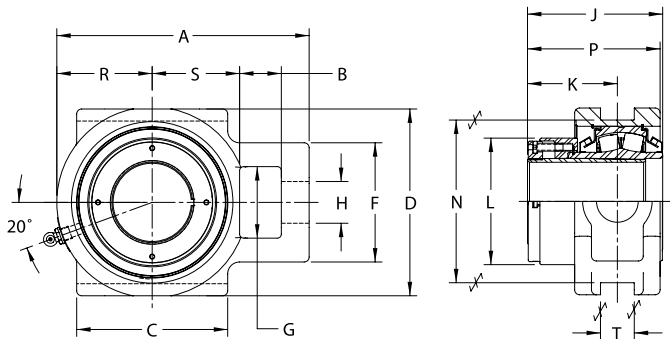
Take-Up
USTU 5000



Collar Mount

Nomenclature	Shaft Diameter (INCHES)	A	B	C		D	F	G	H	J	K	L	N	P	R	S	T
USTU5000-115	1 ¹⁵ / ₁₆	6 ³ / ₁₆	1 ¹ / ₁₆	3 ¹ / ₂		4 ³ / ₄	2 ⁷ / ₈	1 ¹⁵ / ₁₆	1 ¹ / ₁₆	2 ⁷ / ₈	1 ¹¹ / ₁₆	3	4	2 ²⁹ / ₃₂	2 ¹ / ₄	2 ¹ / ₈	¹¹ / ₁₆
USTU5000-200	2	6 ³ / ₁₆	1 ¹ / ₁₆	3 ¹ / ₂		5 ¹ / ₄	3 ¹ / ₂	2 ¹ / ₄	1 ³ / ₁₆	3 ¹ / ₈	1 ⁵⁵ / ₆₄	3 ¹ / ₄	4 ¹ / ₂	3 ⁹ / ₆₄	2 ¹ / ₂	2 ³ / ₈	¹³ / ₁₆
USTU5000-203	2 ³ / ₁₆	6 ¹³ / ₁₆	1 ³ / ₁₆	3 ³ / ₄		5 ⁷ / ₈	3 ³ / ₄	2 ¹ / ₄	1 ⁵ / ₁₆	3 ³ / ₈	1 ¹⁵ / ₁₆	4	5 ¹ / ₈	3 ⁹ / ₃₂	3	2 ³ / ₄	1 ¹ / ₁₆
USTU5000-207	2 ⁷ / ₁₆	7 ¹⁵ / ₁₆	1 ⁵ / ₁₆	4 ³ / ₄		6 ³ / ₄	4 ¹ / ₄	2 ³ / ₄	1 ⁹ / ₁₆	3 ⁷ / ₈	2 ¹¹ / ₃₂	4 ¹⁷ / ₃₂	5 ¹⁵ / ₁₆	3 ²⁷ / ₃₂	3 ³ / ₁₆	3	1 ¹³ / ₁₆
USTU5000-208	2 ¹ / ₂																
USTU5000-211	2 ¹¹ / ₁₆																
USTU5000-212	2 ³ / ₄	8 ³ / ₄	1 ⁹ / ₁₆	4 ³ / ₄													
USTU5000-215	2 ¹⁵ / ₁₆																
USTU5000-300	3					7 ⁵ / ₈	4 ⁷ / ₈	2 ⁷ / ₈	1 ¹³ / ₁₆	4 ¹⁵ / ₃₂	2 ⁴¹ / ₆₄	5 ⁵ / ₁₆	6 ¹³ / ₁₆	4 ²⁹ / ₆₄	4	3 ⁵ / ₈	1 ¹³ / ₁₆
USTU5000-303	3 ³ / ₁₆	10 ⁷ / ₁₆	1 ¹³ / ₁₆	6 ¹ / ₄													
USTU5000-307	3 ⁷ / ₁₆																
USTU5000-308	3 ¹ / ₂																
USTU5000-311	3 ¹¹ / ₁₆				9 ⁷ / ₁₆	5 ⁵ / ₈	3 ³ / ₈	2 ³ / ₁₆	4 ¹⁵ / ₁₆	2 ⁵⁹ / ₆₄	6	8 ⁵ / ₈	5 ¹¹ / ₆₄	4 ⁷ / ₁₆	4 ¹ / ₈	2 ¹ / ₁₆	
USTU5000-315	3 ¹⁵ / ₁₆	11 ¹³ / ₁₆	2 ¹ / ₈	7													
USTU5000-400	4																

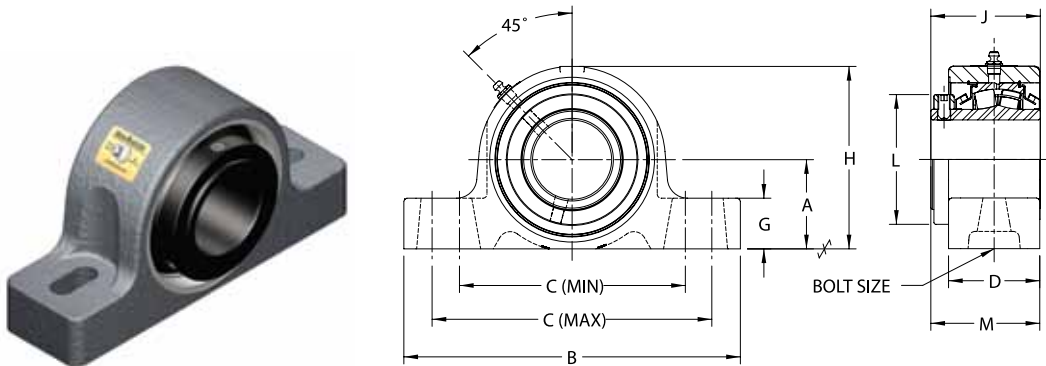
Take-Up
USTU 5000A



Adapter Mount

Nomenclature	Shaft Diameter (INCHES)	A	B	C		D	F	G	H	J	K	L	N	P	R	S	T
USTU5000A-115	1 ¹⁵ / ₁₆	6 ³ / ₁₆	1 ¹ / ₁₆	3 ¹ / ₂		4 ³ / ₄	2 ⁷ / ₈	1 ¹⁵ / ₁₆	1 ¹ / ₁₆	3 ¹ / ₂	2 ⁵ / ₁₆	3 ³ / ₁₆	4	3 ¹⁷ / ₃₂	2 ¹ / ₄	2 ¹ / ₈	¹¹ / ₁₆
USTU5000A-200	2	6 ¹³ / ₁₆	1 ³ / ₁₆	3 ³ / ₄		5 ¹ / ₄	3 ¹ / ₂	2 ¹ / ₄	1 ³ / ₁₆	3 ⁵⁷ / ₆₄	2 ⁵ / ₈	3 ²⁹ / ₆₄	4 ¹ / ₂	3 ²⁹ / ₃₂	2 ¹ / ₂	2 ³ / ₈	¹³ / ₁₆
USTU5000A-203	2 ³ / ₁₆	6 ¹³ / ₁₆	1 ³ / ₁₆	3 ³ / ₄		5 ⁷ / ₈	3 ³ / ₄	2 ¹ / ₄	1 ⁵ / ₁₆	4 ⁵ / ₁₆	2 ⁷ / ₈	3 ⁶³ / ₆₄	5 ¹ / ₈	4 ⁷ / ₃₂	3	2 ³ / ₄	1 ¹ / ₁₆
USTU5000A-207	2 ⁷ / ₁₆	7 ¹⁵ / ₁₆	1 ⁵ / ₁₆	4 ³ / ₄		6 ³ / ₄	4 ¹ / ₄	2 ³ / ₄	1 ⁹ / ₁₆	4 ³¹ / ₆₄	2 ⁶¹ / ₆₄	4 ²⁵ / ₆₄	5 ¹⁵ / ₁₆	4 ²⁹ / ₆₄	3 ³ / ₁₆	3	1 ¹³ / ₁₆
USTU5000A-208	2 ¹ / ₂	7 ¹⁵ / ₁₆	1 ⁵ / ₁₆	4 ³ / ₄													
USTU5000A-211	2 ¹¹ / ₁₆	8 ³ / ₄	1 ⁹ / ₁₆	4 ³ / ₄													
USTU5000A-212	2 ³ / ₄	8 ³ / ₄	1 ⁹ / ₁₆	4 ³ / ₄													
USTU5000A-215	2 ¹⁵ / ₁₆	8 ³ / ₄	1 ⁹ / ₁₆	4 ³ / ₄													
USTU5000A-300	3	10 ⁷ / ₁₆	1 ¹³ / ₁₆	6 ¹ / ₄		7 ⁵ / ₈	4 ⁷ / ₈	2 ⁷ / ₈	1 ¹³ / ₁₆	5 ³⁵ / ₆₄	3 ⁴⁷ / ₆₄	5 ¹⁵ / ₃₂	6 ¹³ / ₁₆	5 ³⁵ / ₆₄	4	3 ⁵ / ₈	1 ¹³ / ₁₆
USTU5000A-303	3 ³ / ₁₆	10 ⁷ / ₁₆	1 ¹³ / ₁₆	6 ¹ / ₄													
USTU5000A-307	3 ⁷ / ₁₆	10 ⁷ / ₁₆	1 ¹³ / ₁₆	6 ¹ / ₄													
USTU5000A-308	3 ¹ / ₂	11 ¹³ / ₁₆	2 ¹ / ₈	7	9 ⁷ / ₁₆	5 ⁵ / ₈	3 ³ / ₈	2 ³ / ₁₆	5 ¹⁵ / ₁₆	3 ⁵⁹ / ₆₄	5 ¹³ / ₁₆	8 ⁵ / ₈	6 ¹¹ / ₆₄	4 ⁷ / ₁₆	4 ¹ / ₈	2 ¹ / ₁₆	
USTU5000A-311	3 ¹¹ / ₁₆	11 ¹³ / ₁₆	2 ¹ / ₈	7													
USTU5000A-315	3 ¹⁵ / ₁₆	11 ¹³ / ₁₆	2 ¹ / ₈	7													
USTU5000A-400	4	11 ¹³ / ₁₆	2 ¹ / ₈	7													

Pillow Block
USRBE 5000

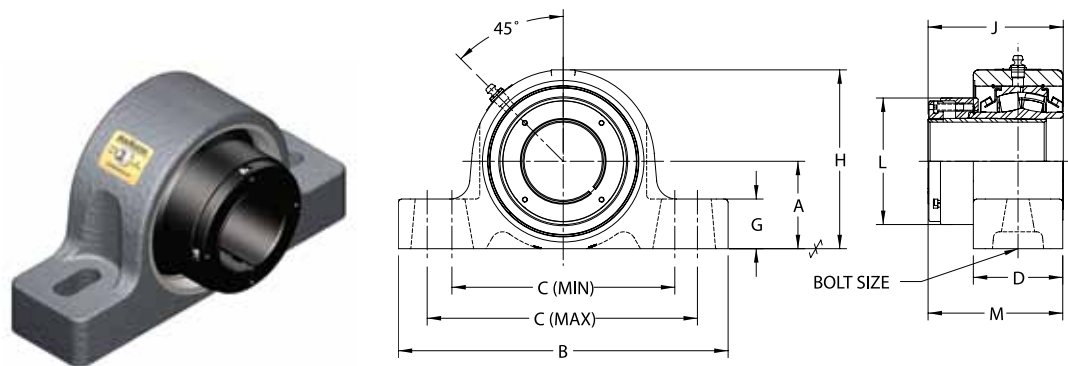


Two Bolt Base, Collar Mount with Type E Dimensions

Nomenclature	Shaft Diameter (INCHES)	A	B	C		D	G	H	J	L	M*	Bolt Size
				MIN.	MAX.							
USRBE5000-115	1 15/16	2 1/4	8 7/8	6	7 1/8	2 7/16	1 5/16	4 17/32	2 7/8	3	2 63/64	5/8
USRBE5000-200	2	2 1/2	9 5/8	6 1/2	7 7/8	2 1/2	1 7/16	4 31/32	3 1/8	3 1/4	3 7/64	5/8
USRBE5000-203	2 3/16	2 1/2	9 5/8	6 1/2	7 7/8	2 1/2	1 7/16	4 31/32	3 1/8	3 1/4	3 7/64	5/8
USRBE5000-207	2 7/16	2 3/4	10 3/8	6 7/8	8 5/8	2 13/16	1 9/16	5 5/8	3 3/8	4	3 11/32	5/8
USRBE5000-208	2 1/2	2 3/4	10 3/8	6 7/8	8 5/8	2 13/16	1 9/16	5 5/8	3 3/8	4	3 11/32	5/8
USRBE5000-211	2 11/16	3 1/8	11 5/8	7 7/8	9 5/8	2 5/8	1 5/8	6 1/16	3 7/8	4 17/32	3 21/32	3/4
USRBE5000-212	2 3/4	3 1/8	11 5/8	7 7/8	9 5/8	2 5/8	1 5/8	6 1/16	3 7/8	4 17/32	3 21/32	3/4
USRBE5000-215	2 15/16	3 1/8	11 5/8	7 7/8	9 5/8	2 5/8	1 5/8	6 1/16	3 7/8	4 17/32	3 21/32	3/4
USRBE5000-300	3	3 3/4	13 1/2	9 3/8	11 1/4	3 1/8	2 1/16	7 3/8	4 15/32	5 5/16	4 13/64	7/8
USRBE5000-303	3 3/16	3 3/4	13 1/2	9 3/8	11 1/4	3 1/8	2 1/16	7 3/8	4 15/32	5 5/16	4 13/64	7/8
USRBE5000-307	3 7/16	3 3/4	13 1/2	9 3/8	11 1/4	3 1/8	2 1/16	7 3/8	4 15/32	5 5/16	4 13/64	7/8
USRBE5000-308	3 1/2	3 3/4	13 1/2	9 3/8	11 1/4	3 1/8	2 1/16	7 3/8	4 15/32	5 5/16	4 13/64	7/8
USRBE5000-311	3 11/16	4 1/8	14 1/4	10	11 3/4	3 9/16	2 1/4	8 1/2	4 15/16	6	4 23/32	1
USRBE5000-315	3 15/16	4 1/8	14 1/4	10	11 3/4	3 9/16	2 1/4	8 1/2	4 15/16	6	4 23/32	1
USRBE5000-400	4	4 1/8	14 1/4	10	11 3/4	3 9/16	2 1/4	8 1/2	4 15/16	6	4 23/32	1

Housings are ductile iron.
* For expansion bearings, this dimension can increase by the corresponding value listed in Table 7 on page 28.

Pillow Block
USRBE 5000A

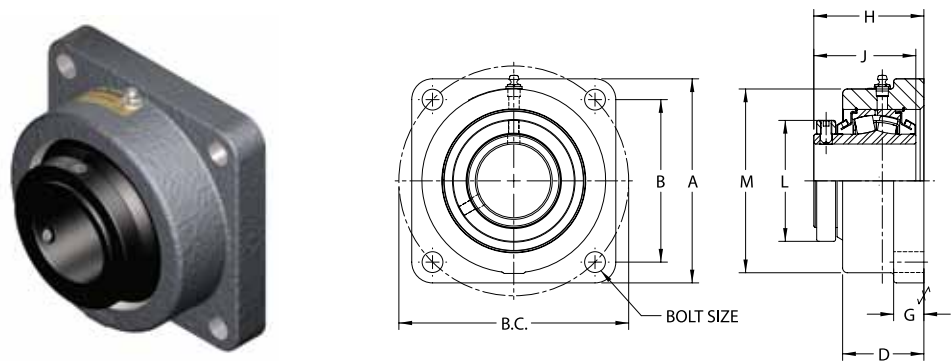


Two Bolt Base, Adapter Mount with Type E Dimensions

Nomenclature	Shaft Diameter (INCHES)	A	B	C		D	G	H	J	L	M*	Bolt Size
				MIN.	MAX.							
USRBE5000A-115	1 15/16	2 1/4	8 7/8	6	7 1/8	2 7/16	1 5/16	4 17/32	3 1/2	3 3/16	3 19/32	5/8
USRBE5000A-200	2	2 1/2	9 5/8	6 1/2	7 7/8	2 1/2	1 7/16	4 31/32	3 57/64	3 29/64	3 7/8	5/8
USRBE5000A-203	2 3/16	2 1/2	9 5/8	6 1/2	7 7/8	2 1/2	1 7/16	4 31/32	3 57/64	3 29/64	3 7/8	5/8
USRBE5000A-207	2 7/16	2 3/4	10 3/8	6 7/8	8 5/8	2 13/16	1 9/16	5 5/8	4 5/16	3 63/64	4 19/64	5/8
USRBE5000A-208	2 1/2	2 3/4	10 3/8	6 7/8	8 5/8	2 13/16	1 9/16	5 5/8	4 5/16	3 63/64	4 19/64	5/8
USRBE5000A-211	2 11/16	3 1/8	11 5/8	7 7/8	9 5/8	2 5/8	1 5/8	6 1/16	4 31/64	4 25/64	4 17/64	3/4
USRBE5000A-212	2 3/4	3 1/8	11 5/8	7 7/8	9 5/8	2 5/8	1 5/8	6 1/16	4 31/64	4 25/64	4 17/64	3/4
USRBE5000A-215	2 15/16	3 1/8	11 5/8	7 7/8	9 5/8	2 5/8	1 5/8	6 1/16	4 31/64	4 25/64	4 17/64	3/4
USRBE5000A-300	3	3 3/4	13 1/2	9 3/8	11 1/4	3 1/8	2 1/16	7 3/8	5 35/64	5 15/32	5 19/64	7/8
USRBE5000A-303	3 3/16	3 3/4	13 1/2	9 3/8	11 1/4	3 1/8	2 1/16	7 3/8	5 35/64	5 15/32	5 19/64	7/8
USRBE5000A-307	3 7/16	3 3/4	13 1/2	9 3/8	11 1/4	3 1/8	2 1/16	7 3/8	5 35/64	5 15/32	5 19/64	7/8
USRBE5000A-308	3 1/2	3 3/4	13 1/2	9 3/8	11 1/4	3 1/8	2 1/16	7 3/8	5 35/64	5 15/32	5 19/64	7/8
USRBE5000A-311	3 11/16	4 1/8	14 1/4	10	11 3/4	3 9/16	2 1/4	8 1/2	5 15/16	5 13/16	5 23/32	1
USRBE5000A-315	3 15/16	4 1/8	14 1/4	10	11 3/4	3 9/16	2 1/4	8 1/2	5 15/16	5 13/16	5 23/32	1
USRBE5000A-400	4	4 1/8	14 1/4	10	11 3/4	3 9/16	2 1/4	8 1/2	5 15/16	5 13/16	5 23/32	1

Housings are ductile iron.
* For expansion bearings, this dimension can increase by the corresponding value listed in Table 7 on page 28.

Flange Block
USFBE 5000

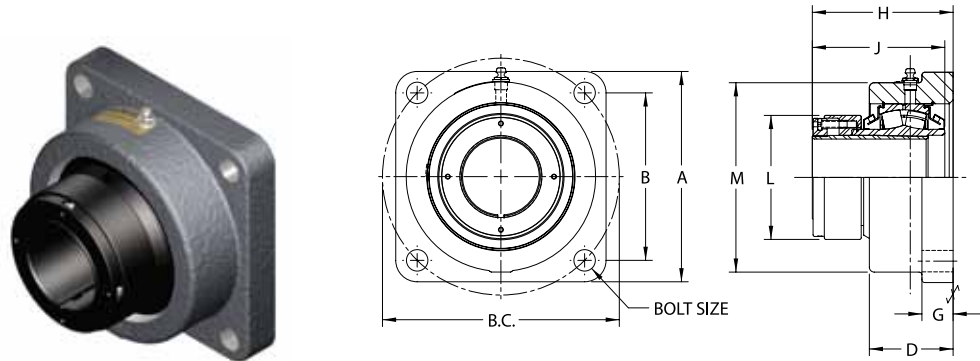


Four Bolt Base, Collar Mount with Type E Dimensions

Nomenclature	Shaft Diameter (INCHES)	A	B	B.C.	D	G	H*	J	L	M	Bolt Size
USFBE5000-115	1 15/16	5 1/2	4 3/8	6 3/16	2 9/16	7/8	2 29/32	2 7/8	3	4 31/32	1/2
USFBE5000-200	2										
USFBE5000-203	2 3/16	6 3/16	4 7/8	6 57/64	2 5/8	1	3 5/32	3 1/8	3 1/4	5 15/32	5/8
USFBE5000-207	2 7/16	6 3/4	5 3/8	7 19/32	2 11/16	1	3 13/32	3 3/8	4	6 3/32	5/8
USFBE5000-208	2 1/2										
USFBE5000-211	2 11/16										
USFBE5000-212	2 3/4	7 5/8	6	8 31/64	2 3/4	1 1/16	3 57/64	3 7/8	4 17/32	6 53/64	3/4
USFBE5000-215	2 15/16										
USFBE5000-300	3										
USFBE5000-303	3 3/16										
USFBE5000-307	3 7/16	8 5/8	7	9 29/32	3 1/4	1 1/4	4 33/64	4 15/32	5 5/16	7 31/32	3/4
USFBE5000-308	3 1/2										
USFBE5000-311	3 11/16										
USFBE5000-315	3 15/16	9 1/2	7 19/32	10 3/4	3 11/16	1 1/4	4 31/32	4 15/16	6	8 27/64	7/8
USFBE5000-400	4										

Housings are ductile iron.
* For expansion bearings, this dimension can increase by the corresponding value listed in Table 7 on page 28.

Flange Block
USFBE 5000A

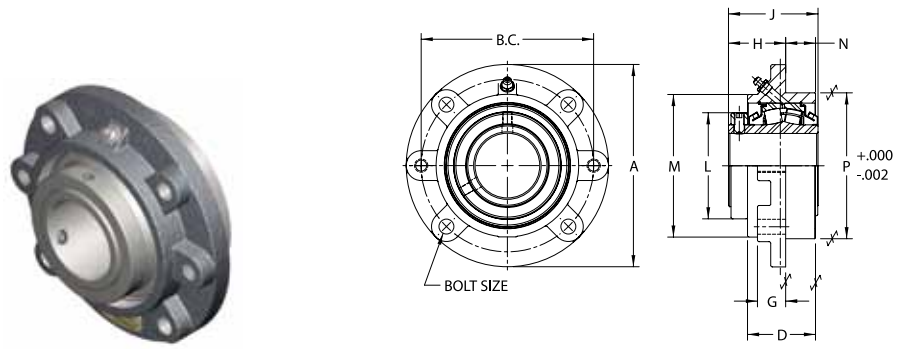


Four Bolt Base, Adapter Mount with Type E Dimensions

Nomenclature	Shaft Diameter (INCHES)	A	B	B.C.	D	G	H*	J	L	M	Bolt Size
USFBE5000A-115	1 15/16	5 1/2	4 3/8	6 3/16	2 9/16	7/8	3 17/32	3 1/2	3 3/16	4 31/32	1/2
USFBE5000A-200	2										
USFBE5000A-203	2 3/16	6 3/16	4 7/8	6 57/64	2 5/8	1	3 29/32	3 57/64	3 29/64	5 15/32	5/8
USFBE5000A-207	2 7/16	6 3/4	5 3/8	7 19/32	2 11/16	1	4 21/64	4 5/16	3 63/64	6 3/32	5/8
USFBE5000A-208	2 1/2										
USFBE5000A-211	2 11/16										
USFBE5000A-212	2 3/4	7 5/8	6	8 31/64	2 3/4	1 1/16	4 33/64	4 31/64	4 25/64	6 53/64	3/4
USFBE5000A-215	2 15/16										
USFBE5000A-300	3										
USFBE5000A-303	3 3/16										
USFBE5000A-307	3 7/16	8 5/8	7	9 29/32	3 1/4	1 1/4	5 19/32	5 35/64	5 15/32	7 31/32	3/4
USFBE5000A-308	3 1/2										
USFBE5000A-311	3 11/16										
USFBE5000A-315	3 15/16	9 1/2	7 19/32	10 3/4	3 11/16	1 1/4	5 63/64	5 15/16	5 13/16	8 27/64	7/8
USFBE5000A-400	4										

Housings are ductile iron.
* For expansion bearings, this dimension can increase by the corresponding value listed in Table 7 on page 28.

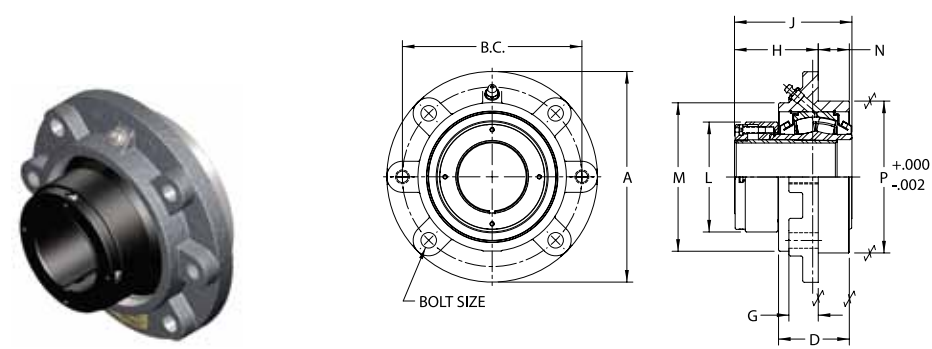
Flange Cartridge
USFCE 5000



Collar Mount with Type E Dimensions												
Nomenclature	Shaft Diameter (INCHES)	A	B.C.	D	G	H*	J	L	M	N	P	Bolt Size
USFCE5000-115	1 ¹⁵ / ₁₆	6 ³ / ₈	5 ³ / ₈	2 ⁷ / ₁₆	1	1 ⁵⁷ / ₆₄	2 ⁷ / ₈	3	4 ¹ / ₂	1 ¹ / ₁₆	4 ¹ / ₂	³ / ₈
USFCE5000-200	2											
USFCE5000-203	2 ³ / ₁₆	7 ¹ / ₈	6	2 ¹ / ₂	1	1 ⁶³ / ₆₄	3 ¹ / ₈	3 ¹ / ₄	4 ⁷ / ₈	1 ¹ / ₈	5	¹ / ₂
USFCE5000-207	2 ⁷ / ₁₆	7 ⁵ / ₈	6 ¹ / ₂	2 ⁹ / ₁₆	1 ¹ / ₁₆	2 ⁹ / ₆₄	3 ³ / ₈	4	5 ³ / ₈	1 ¹ / ₈	5 ¹ / ₂	¹ / ₂
USFCE5000-208	2 ¹ / ₂											
USFCE5000-211	2 ¹¹ / ₁₆											
USFCE5000-212	2 ³ / ₄	8 ³ / ₄	7 ¹ / ₂	2 ⁹ / ₁₆	¹⁵ / ₁₆	2 ²⁷ / ₆₄	3 ⁷ / ₈	4 ¹⁷ / ₃₂	6 ¹ / ₄	1 ¹ / ₄	6 ³ / ₈	⁵ / ₈
USFCE5000-215	2 ¹⁵ / ₁₆											
USFCE5000-300	3											
USFCE5000-303	3 ³ / ₁₆											
USFCE5000-307	3 ⁷ / ₁₆	10 ¹ / ₄	8 ⁵ / ₈	3 ¹ / ₈	1 ⁷ / ₁₆	2 ¹⁵ / ₁₆	4 ¹⁵ / ₃₂	5 ⁵ / ₁₆	7 ¹ / ₈	1 ⁵ / ₁₆	7 ³ / ₈	³ / ₄
USFCE5000-308	3 ¹ / ₂											
USFCE5000-311	3 ¹¹ / ₁₆											
USFCE5000-315	3 ¹⁵ / ₁₆	10 ⁷ / ₈	9 ³ / ₈	3 ¹ / ₂	1 ¹ / ₁₆	2 ²¹ / ₃₂	4 ¹⁵ / ₁₆	6	7 ³ / ₄	2 ¹ / ₁₆	8 ¹ / ₈	³ / ₄
USFCE5000-400	4											

Housings are ductile iron.
* For expansion bearings, this dimension can increase by the corresponding value listed in Table 7 on page 28.

Flange Cartridge
USFCE 5000A



Adapter Mount with Type E Dimensions												
Nomenclature	Shaft Diameter (INCHES)	A	B.C.	D	G	H*	J	L	M	N	P	Bolt Size
USFCE5000A-115	1 ¹⁵ / ₁₆	6 ³ / ₈	5 ³ / ₈	2 ⁷ / ₁₆	1	2 ³³ / ₆₄	3 ¹ / ₂	3 ³ / ₁₆	4 ¹ / ₂	1 ¹ / ₁₆	4 ¹ / ₂	³ / ₈
USFCE5000A-200	2											
USFCE5000A-203	2 ³ / ₁₆	7 ¹ / ₈	6	2 ¹ / ₂	1	2 ³ / ₄	3 ⁵⁷ / ₆₄	3 ²⁹ / ₆₄	4 ⁷ / ₈	1 ¹ / ₈	5	¹ / ₂
USFCE5000A-207	2 ⁷ / ₁₆	7 ⁵ / ₈	6 ¹ / ₂	2 ⁹ / ₁₆	1 ¹ / ₁₆	3 ⁵ / ₆₄	4 ⁵ / ₁₆	3 ⁶³ / ₆₄	5 ³ / ₈	1 ¹ / ₈	5 ¹ / ₂	¹ / ₂
USFCE5000A-208	2 ¹ / ₂											
USFCE5000A-211	2 ¹¹ / ₁₆											
USFCE5000A-212	2 ³ / ₄	8 ³ / ₄	7 ¹ / ₂	2 ⁹ / ₁₆	¹⁵ / ₁₆	3 ³ / ₆₄	4 ³¹ / ₆₄	4 ²⁵ / ₆₄	6 ¹ / ₄	1 ¹ / ₄	6 ³ / ₈	⁵ / ₈
USFCE5000A-215	2 ¹⁵ / ₁₆											
USFCE5000A-300	3											
USFCE5000A-303	3 ³ / ₁₆											
USFCE5000A-307	3 ⁷ / ₁₆	10 ¹ / ₄	8 ⁵ / ₈	3 ¹ / ₈	1 ⁷ / ₁₆	4 ¹ / ₃₂	5 ³⁵ / ₆₄	5 ¹⁵ / ₃₂	7 ¹ / ₈	1 ⁵ / ₁₆	7 ³ / ₈	³ / ₄
USFCE5000A-308	3 ¹ / ₂											
USFCE5000A-311	3 ¹¹ / ₁₆											
USFCE5000A-315	3 ¹⁵ / ₁₆	10 ⁷ / ₈	9 ³ / ₈	3 ¹ / ₂	1 ¹ / ₁₆	3 ²¹ / ₃₂	5 ¹⁵ / ₁₆	5 ¹³ / ₁₆	7 ³ / ₄	2 ¹ / ₁₆	8 ¹ / ₈	³ / ₄
USFCE5000A-400	4											

Housings are ductile iron.
* For expansion bearings, this dimension can increase by the corresponding value listed in Table 7 on page 28.

Flange Block
USF3B 5000

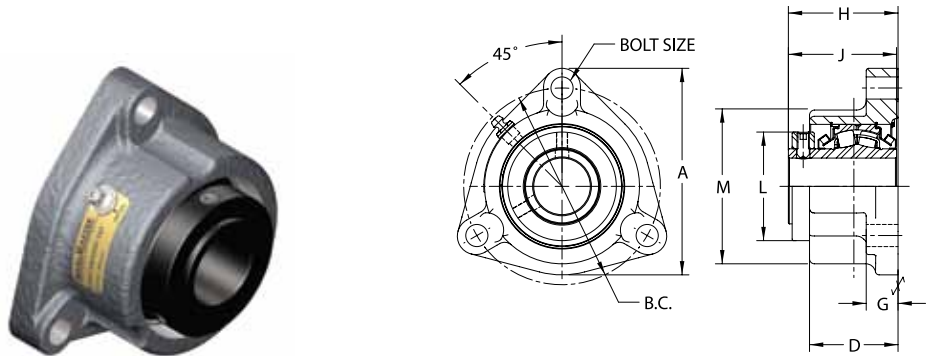
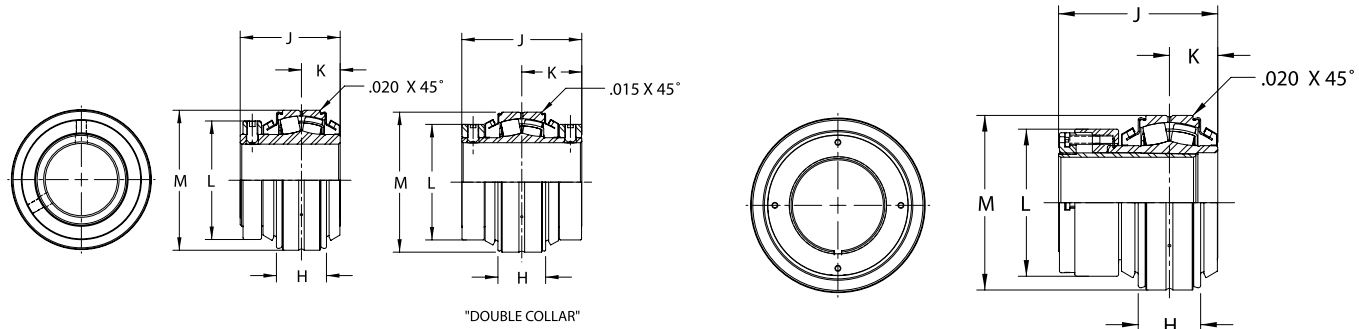


Table with 11 columns: Nomenclature, Shaft Diameter (INCHES), A, B.C., D, G, H*, J, L, M, Bolt Size. It lists various USF3B5000 models and their dimensions.

* For expansion bearings, this dimension can increase by the corresponding value listed in Table 7 on page 28.



Spherical Insert
USI 5000



Table with 7 columns: Nomenclature, Bore (INCHES), H, J, K, L, M (Nominal). It lists various USI5000 models and their dimensions.

Note:
- 1 1/8" - 4" bore sizes have a single-lock collar.
- 4 7/16" - 7" bore sizes have double-lock collars.

Spherical Insert
USI 5000A



Table with 7 columns: Nomenclature, Bore (INCHES), H, J, K, L, M (Nominal). It lists various USI5000A models and their dimensions.

Spherical Roller Bearing Life Calculations

This section outlines the formula used to select bearing size or calculate expected bearing life for USRB spherical roller bearings.

Bearing Symbols for Spherical Life Calculations

- C = Basic Dynamic Rating (lbs.) 1,000,000 rev.
- P = Equivalent Radial Load (lbs.)
- L₁₀ = Rated Life (hrs.)
- F_a = Applied Thrust Load
- F_r = Applied Radial Load
- n = Speed RPM
- X = Radial Factor
- Y = Thrust Factor
- e = Geometry Ratio

Spherical Roller Bearing Life Calculations

L_{10} = \left(\frac{C}{P}\right)^{\frac{10}{3}} \times \frac{16,667}{n}

Shock / Vibration Factor		Table 1
Steady Loading		1.0
Light Shock / Vibration		0.5
Moderate Shock / Vibration		0.3

Multiply the theoretical life by the above factors to determine adjusted theoretical life.

Combined Load Calculation

1. Calculate F_a/F_r and compare the value to the “e” value found in Table 2. F_a/F_r must be less than 1.

2. Choose values for “X” and “Y” from Table 2.

3. Calculate equivalent load using the following equation:
P = XF_r + YF_a

4. Calculate the expected L₁₀ life using the life equation on page 23.

5. Determine if the calculated L₁₀ meets application requirements.
6. If L₁₀ is not acceptable, select another bearing size as appropriate and recalculate the L₁₀ life. Continue this iterative process until an acceptable L₁₀ is obtained.

NOTE: Always use (1) fixed and (1) floating spherical roller bearing.

Max. thrust for adapter mount units is C/30 lbs.

X & Y Values for Combined Loading Equation										Table 2
Shaft Diameter	Basic Dynamic Rating C	Basic Static Rating C ₀	e	F _a /F _r ≤ e		F _a /F _r > e		Combined Static Load Factors		
				X	Y	X	Y	X ₀	Y ₀	
1 1/8 – 1 1/2	20368	23609	0.34	1.0	2.0	0.67	2.9	1.0	1.9	
1 11/16 – 1 3/4	22689	28021	0.32	1.0	2.1	0.67	3.2	1.0	2.1	
1 15/16 – 2	23520	29918	0.31	1.0	2.2	0.67	3.2	1.0	2.1	
2 3/16	28087	34981	0.30	1.0	2.3	0.67	3.4	1.0	2.2	
2 7/16 – 2 1/2	44691	59535	0.31	1.0	2.2	0.67	3.3	1.0	2.2	
2 11/16 – 3	47447	65610	0.29	1.0	2.3	0.67	3.4	1.0	2.3	
3 3/16 – 3 1/2	72640	105628	0.29	1.0	2.3	0.67	3.5	1.0	2.3	
3 11/16 – 4	96050	136151	0.30	1.0	2.3	0.67	3.4	1.0	2.2	
4 7/16 – 4 1/2	111537	161283	0.30	1.0	2.3	0.67	3.4	1.0	2.2	
4 15/16 – 5	158816	247307	0.32	1.0	2.1	0.67	3.2	1.0	2.1	
5 7/16	196682	290447	0.33	1.0	2.0	0.67	3.0	1.0	2.0	
5 15/16	261346	390391	0.35	1.0	1.9	0.67	2.9	1.0	1.9	
6 7/16 – 7	334229	498544	0.35	1.0	1.9	0.67	2.9	1.0	1.9	
7 1/2 – 8	363818	587106	0.35	1.0	1.9	0.67	2.9	1.0	1.9	

Note: Emerson Power Transmission believes that the information provided above is true and accurate; however, individual applications may vary.

Thus, the information provided above cannot be relied upon as complete. The customer assumes all risk from the use thereof, and Emerson Power Transmission assumes no responsibility for any use of the foregoing information by its customers.

Bearing Selection Chart

This chart may be used to select Sealmaster USRB Unitized Spherical Roller Bearings. Determine the operating speed and select the desired L₁₀ hours. Then select a bearing from the chart with a load rating that is greater than or equal to the actual load. Loads in this chart give the indicated L₁₀ hours and are calculated in accordance with ANSI/ABMA Standard 11 – Load Ratings and Fatigue Life for Roller Bearings. Areas designated by “-” exceed the maximum speed value. See table 4 on page 27 for maximum seal speeds.

Bearings should operate at temperatures less than 200°F (94°C) and should not exceed 250°F (121°C) for intermittent operation. For temperatures outside of this range, consult Emerson Power Transmission Application Engineering.

Table 3																	
Series	Shaft Size	L ₁₀ Hours	Revolutions per Minute		Revolutions per Minute												
			50	100		150	250	500	750	1000	1500	1750	2000	2500	3000	3500	4000
5107	1 1/8 1 3/16 1 1/4 1 3/8 1 7/16 1 1/2	5000	9039	7342		6501	5577	4530	4011	3680	3258	3111	2989	2795	2647	2527	2428
		10000	7342	5964		5281	4530	3680	3258	2989	2647	2527	2428	2271	2150	2053	1972
		30000	5281	4289		3798	3258	2647	2343	2150	1903	1817	1746	1633	1546	1476	1418
		50000	4530	3680		3258	2795	2271	2010	1844	1633	1559	1498	1401	1326	1266	1217
		100000	3680	2989		2647	2271	1844	1633	1498	1326	1266	1217	1138	1077	1029	988
5111	1 11/16 1 3/4	5000	10069	8179		7242	6213	5046	4468	4099	3630	3465	3329	3114	2948	2815	2704
		10000	8179	6643		5882	5046	4099	3630	3329	2948	2815	2704	2529	2395	2286	2197
		30000	5882	4778		4231	3630	2948	2610	2395	2120	2025	1945	1819	1722	1644	1580
		50000	5046	4099		3630	3114	2529	2240	2054	1819	1737	1669	1561	1478	1411	1355
		100000	4099	3329		2948	2529	2054	1819	1669	1478	1411	1355	1268	1200	1146	1101
5115	1 15/16 2	5000	10438	8478		7507	6441	5231	4632	4249	3762	3592	3451	3228	3056	2918	2803
		10000	8478	6886		6098	5231	4249	3762	3451	3056	2918	2803	2622	2482	2370	2277
		30000	6098	4953		4386	3762	3056	2706	2482	2198	2099	2016	1886	1785	1705	1638
		50000	5231	4249		3762	3228	2622	2322	2130	1886	1800	1730	1618	1532	1462	1405
		100000	4249	3451		3056	2622	2130	1886	1730	1532	1462	1405	1314	1244	1188	1141
5203	2 3/16	5000	12465	10124		8965	7691	6247	5532	5074	4493	4290	4122	3855	3650	3485	2649
		10000	10124	8224		7282	6247	5074	4493	4122	3650	3485	3348	3131	2964	2830	2820
		30000	7282	5915		5237	4493	3650	3232	2964	2625	2506	2408	2252	2132	2036	3113
		50000	6247	5074		4493	3855	3131	2772	2543	2252	2150	2066	1932	1829	1746	3259
		100000	5074	4122		3650	3131	2543	2252	2066	1829	1746	1678	1569	1486	1419	3469
5207	2 7/16 2 1/2	5000	19833	16110		14265	12238	9940	8802	8074	7149	6826	6558	6133	5807	3841	-
		10000	16110	13085		11586	9940	8074	7149	6558	5807	5545	5327	4982	4717	4088	-
		30000	11586	9411		8333	7149	5807	5142	4717	4177	3988	3831	3583	3392	4513	-
		50000	9940	8074		7149	6133	4982	4411	4047	3583	3421	3287	3074	2910	4725	-
		100000	8074	6558		5807	4982	4047	3583	3287	2910	2779	2670	2497	2364	5029	-
5215	2 11/16 2 3/4 2 15/16 3	5000	21056	17103		15144	12992	10553	9344	8572	7590	7247	6962	6512	6165	-	-
		10000	17103	13892		12301	10553	8572	7590	6962	6165	5886	5655	5289	5008	-	-
		30000	12301	9991		8847	7590	6165	5459	5008	4434	4234	4067	3804	3602	-	-
		50000	10553	8572		7590	6512	5289	4683	4296	3804	3632	3489	3264	3090	-	-
		100000	8572	6962		6165	5289	4296	3804	3489	3090	2950	2834	2651	2510	-	-
5307	3 3/16 3 7/16 3 1/2	5000	32237	26184		23185	19891	16157	14306	13123	11620	11095	10659	9969	-	-	-
		10000	26184	21268		18832	16157	13123	11620	10659	9439	9012	8658	8098	-	-	-
		30000	18832	15297		13545	11620	9439	8358	7666	6788	6482	6227	5824	-	-	-
		50000	16157	13123		11620	9969	8098	7170	6577	5824	5561	5342	4996	-	-	-
		100000	13123	10659		9439	8098	6577	5824	5342	4730	4517	4339	4058	-	-	-
5315	3 11/16 3 15/16 4	5000	42626	34623		30657	26302	21364	18917	17353	15365	14671	14095	7410	-	-	-
		10000	34623	28123		24902	21364	17353	15365	14095	12480	11916	11448	7887	-	-	-
		30000	24902	20226		17910	15365	12480	11051	10137	8976	8571	8234	8707	-	-	-
		50000	21364	17353		15365	13182	10707	9481	8697	7701	7353	7064	9117	-	-	-
		100000	17353	14095		12480	10707	8697	7701	7064	6255	5972	5738	9704	-	-	-
5407	4 7/16 4 1/2	5000	49499	40205		35601	30542	24808	21967	20150	17843	17036	8564	-	-	-	-
		10000	40205	32657		28917	24808	20150	17843	16367	14493	13838	9115	-	-	-	-
		30000	28917	23488		20798	17843	14493	12833	11772	10423	9952	10063	-	-	-	-
		50000	24808	20150		17843	15307	12434	11009	10099	8942	8538	10536	-	-	-	-
		100000	20150	16367		14493	12434	10099	8942	8203	7264	6935	11214	-	-	-	-
5415	4 15/16 5	5000	70481	57248		50691	43489	35324	31278	28692	25406	24258	-	-	-	-	-
		10000	57248	46500		41174	35324	28692	25406	23305	20636	19703	-	-	-	-	-
		30000	41174	33444		29613	25406	20636	18272	16762	14842	14171	-	-	-	-	-
		50000	35324	28692		25406	21796	17704	15676	14380	12733	12158	-	-	-	-	-
		100000	28692	23305		20636	17704	14380	12733	11680	10342	9875	-	-	-	-	-
5507	5 7/16 5 1/2	5000	87285	70897		62777	53858	43746	38736	35533	31463	-	-	-	-	-	-
		10000	70897	57587		50991	43746	35533	31463	28862	25556	-	-	-	-	-	-
		30000	50991	41418		36674	31463	25556	22629	20758	18381	-	-	-	-	-	-
		50000	43746	35533		31463	26993	21925	19414	17809	15769	-	-	-	-	-	-
		100000	35533	288862		25556	21925	17809	15769	14465	12808	-	-	-	-	-	-
5515	5 15/16	5000	115982	94207		83417	71565	58129	51471	47215	41808	-	-	-	-	-	-
		10000	94207	76520		67756	58129	47215	41808	38351	33958	-	-	-	-	-	-
		30000	67756	55035		48731	41808	33958	30069	27583	24424	-	-	-	-	-	-
		50000	58129	47215		41808	35867	29133	25797	23664	20953	-	-	-	-	-	-
		100000	47215	38351		33958	29133	23664	20953	19221	17019	-	-	-	-	-	-
5615	6 7/16 6 1/2 6 15/16 7	5000	143889	116874		103488	88784	72115	63856	58576	51867	-	-	-	-	-	-
		10000	116874	94931		84059	72115	58576	51867	47578	42129	-	-	-	-	-	-
		30000	84059	68277		60457	51867	42129	37304	34219	30300	-	-	-	-	-	-
		50000	72115	58576		51867	44498	36143	32004	29357	25995	-	-	-	-	-	-
		100000	58576	47578		42129	63143	29357	25995	23846	21115	-	-	-	-	-	-
5708	7 1/2 7 15/16 8	5000	161458	131145		116124	99625	80921	71653	65728	58200	-	-	-	-	-	-
		10000	131145	106523		94322	80921	65728	58200	53388	47273	-	-	-	-	-	-
		30000	94322	76613		67839	58200	47273	41859	38398	34000	-	-	-	-	-	-
		50000	80921	65728		58200	49931	40556	35911	32942	29169	-	-	-	-	-	-
		100000	65728	53388		47273	40556	32942	29169	26757	23693	-	-	-	-	-	-

Seal Speed

This chart displays maximum speed rating for USRB seals. Values in the table represent speeds at ideal conditions. Other application factors may reduce the speed rating of a bearing.

- Speed limits evaluated at a load of C/10.
- For speeds outside of those listed in this table, consult Emerson Power Transmission Application Engineering.

Seal Speed		Table 4
Shaft Size	Felt	Contact
1 1⁄8 - 1 1⁄2	4000	3000
1 11⁄16 - 1 3⁄4	4000	2750
1 15⁄16 - 2	4000	2500
2 3⁄16	3750	2200
2 7⁄16 - 2 1⁄2	3250	1750
2 11⁄16 - 3	3000	1600
3 3⁄16 - 3 1⁄2	2500	1350
3 11⁄16 - 4	2250	1200
4 7⁄16 - 4 1⁄2	2000	1100
4 15⁄16 - 5	1750	900
5 7⁄16 - 5 1⁄2	1500	900
5 15⁄16	1300	800
6 7⁄16 - 7	1200	750
7 1⁄2 - 8	1100	750

LINEAR SHAFT EXPANSION

For applications in which bearing shaft expansion is larger than the support structure expansion, this expansion must be taken into account. The change in length can be determined for steel shafts using the formula 0.0000063 x Shaft Length (Inches) x Temperature Change (Degrees F). Temperature change is defined as the maximum temperature difference between the shaft and bearing support structure.

To allow for linear shaft expansion, some applications will require the bearing(s) to be of expansion type. Before installation, make certain proper linear shaft expansion is accounted for. Expansion units should be placed in a location where relative movement between the bearing insert and the housing can be tolerated. For most applications using expansion-type units, the fixed unit (non-expansion unit) is placed at the drive end of the shaft. Use Table 7 to determine if the housing unit will allow the necessary expansion. If the application requires additional expansion, consult engineering.

Note: It is recommended that applications using adapter mount units utilize one expansion unit in conjunction with one non-expansion unit. Failure to utilize one expansion and one non-expansion unit could result in reduced bearing performance.

Notice: NOT PROVIDING EXPANSION WHERE NECESSARY MAY RESULT IN UNDESIRABLE LOADS, REDUCING THE LIFE OF THE BEARING!

Shaft Tolerance for Collar Mount Bearings		Table 5
Nominal Shaft Diameter	Tolerances (INCHES)	
1 1⁄8 - 2	- 0.0005	
2 3⁄16 - 4	- 0.0010	
4 7⁄16 - 5 15⁄16	- 0.0015	
6 7⁄16 - 7	- 0.0020	

Shaft Tolerance for Adapter Mount Bearings		Table 6
Nominal Shaft Diameter	Tolerances (INCHES)	
1 1/8 - 2	- 0.003	
2 3/16 - 4	- 0.004	
4 7/16 - 5 15/16	- 0.005	
6 7/16 - 8	- 0.006	

Housing Expansion		Table 7
Nominal Shaft Diameter	Collar Mount (INCHES)	Adapter Mount (INCHES)
1 1⁄8 - 1 1⁄2	3⁄16	5⁄32
1 11⁄16 - 3 1⁄2	1⁄4	7⁄32
3 11⁄16 - 4	5⁄16	1⁄4
4 7⁄16 - 8	3⁄8	9⁄32

Split Housing Cap Bolt Torque			Table 8
Shaft Size (INCHES)	Inch-Pounds	Foot-Pounds	
5 7/16 - 6 1/2	3190	265	
6 15/16 - 8	7200	600	

Collar Mount Setscrew Information			Table 9
Shaft Size (Inches)	Hex Size (INCHES)	Inch-Pounds	Foot-Pounds
1 1⁄8 - 1 3⁄4	5⁄32	165	14
1 15⁄16 - 2 1⁄2	3⁄16	295	25
2 11⁄16 - 3 1⁄2	1⁄4	655	55
3 11⁄16 - 4 1⁄2	5⁄16	1435	120
4 15⁄16 - 5 15⁄16	3⁄8	2150	180
6 7⁄16 - 7	1⁄2	5130	428

Adapter Mount Cap Screw Information			Table 10
Nominal Shaft Diameter	Inch-Pounds	Hex Size (INCHES)	# Cap Screws
1 1⁄8 - 1 1⁄2	45	1⁄8	3
1 11⁄16 - 1 3⁄4	40	1⁄8	3
1 15⁄16 - 2	30	1⁄8	3
2 3⁄16	45	1⁄8	3
2 7⁄16 - 2 1⁄2	60	1⁄8	4
2 11⁄16 - 3	55	1⁄8	4
3 3⁄16 - 3 1⁄2	80	3⁄16	4
3 11⁄16 - 4	80	3⁄16	4
4 7⁄16 - 4 1⁄2	115	3⁄16	4
4 15⁄16 - 5	130	3⁄16	6
5 7⁄16 - 5 1⁄2	115	3⁄16	6
5 15⁄16	175	3⁄16	8
6 7⁄16 - 7	225	1⁄4	8
7 1⁄2 - 8	275	1⁄4	8

LUBRICATION

Lubricant is a basic element in rolling element bearings. It is as essential to proper operation as are the races and rolling elements. Oil provides a separating layer between rolling elements and raceways and lubricates the sliding surfaces between the rolling elements and retainer. This lubrication layer eliminates or minimizes metal-to-metal contact and distributes stresses. Lubrication can also provide protection against corrosion, a barrier to contamination, and dissipation of heat.

Lubricant

All Sealmaster USRB Unitized Spherical Roller Bearings are delivered with a high-quality lithium-complex base grease with an EP additive. The bearing is ready for use with no initial lubrication required. The grease is a lithium-complex base mineral oil, NLGI Grade 2 consistency, with a base oil viscosity of ISO VG 220.

Compatibility of grease is critical; therefore, consult with Emerson Power Transmission Application Engineering and your grease supplier to review grease compatibility. For best performance it is recommended to relubricate with lithium-complex thickened grease with a comparable NLGI consistency and base oil type and viscosity.

Lubricatable Sealmaster bearings are supplied with grease fittings or zerks for ease of lubrication with hand or automatic grease guns. Always wipe the fitting and grease nozzle clean.

Grease Charge Table 11	
Shaft Size (INCHES)	Grease Charge (OUNCES)
1 1/8 - 1 1/2	0.2
1 11/16 - 1 3/4	0.2
1 15/16 - 2	0.25
2 3/16	0.4
2 7/16 - 2 1/2	0.6
2 11/16 - 3	0.75
3 3/16 - 3 1/2	1.2
3 11/16 - 4	2
4 7/16 - 4 1/2	2.75
4 15/16 - 5	6.1
5 7/16 - 5 1/2	6.1
5 15/16	10.6
6 7/16 - 7	13.9
7 1/2 - 8	17.6

Notice: *If possible, it is recommended to lubricate the bearing while rotating, until grease purge is seen from the seals. If this is not an option due to safety reasons, follow the alternate lubrication procedure below.*

Alternate Lubrication Procedure: Stop rotating equipment. Add one-half the recommended amount shown in Table 11. Start the bearing and run for a few minutes. Stop bearing and add the second half of the recommended amount. A temperature rise after lubrication, sometimes 30°F (17°C), is normal. Bearings should operate at temperatures less than 200°F (94°C) and should not exceed 250°F (121°C) for intermittent operation. For lubrication guide see Table 12.

Note: The tables below state general lubrication guides and are intended as suggested or starting points only. For best results, specific applications should be monitored regularly and lubrication intervals and amounts adjusted accordingly.

Relubrication Recommendations Table 12			
Environment	Temperature (°F)	Speed (% CATALOG MAX)	Frequency
Dirty	-20 to 250	0 - 100 %	Daily to 1 week
Clean	-20 to 125	0 - 25%	4 to 10 months
		26 - 50%	1 to 4 months
		51 - 75%	1 week to 1 month
		76 - 100%	Daily to 1 week
	125 to 175	0 - 25%	2 to 6 weeks
		26 - 50%	1 week to 1 month
		51 - 75%	Daily to 1 week
	175 to 250	76 - 100%	Daily to 1 week
		0 - 100 %	Daily to 1 week

Note: See table 4 on page 27 for maximum seal speeds. Refer to back cover for relevant disclaimer.

USRB Vibration Analysis

The following equations are used to calculate the fundamental frequencies for Sealmaster USRB Unitized Spherical Roller Bearings.

1. All information can be linked to three factors:
 - Shaft size
 - Unit number
 - For USRB5000-207-C, the shaft size is 2 7/16”.
 - Insert number
 - For USI5000-207-C the shaft size is 2 7/16”.
2. Use the information obtained from Step 1 to select the vibration geometry information (R, I, O and F) from Table 13.
3. Use this information to calculate the fundamental bearing frequencies:
 - Roller Spin Frequency (Hz) = R x RPM
 - Inner Roller Pass Frequency (Hz) = I x RPM
 - Outer Roller Pass Frequency (Hz) = O x RPM
 - Fundamental Train Frequency (Hz) = F x RPM

Bearing Symbols for Vibration Analysis

- RPM – Shaft Speed (Revolutions per Minute)
- R – Roller Spin Frequency Factor
- I – Inner Roller Pass Frequency Factor
- O – Outer Roller Pass Frequency Factor
- F – Fundamental Train Frequency Factor

Vibration Geomoetry Information				Table 13
Shaft Size (INCHES)	Factor for Roller Spin R	Factor for Inner Roller Pass I	Factor for Outer Roller Pass O	Factor for F.T.F. F
1 1⁄8 - 1 1⁄2	0.0977	0.1549	0.1117	0.0070
1 11⁄16 - 1 3⁄4	0.1077	0.1722	0.1278	0.0071
1 15⁄16 - 2	0.1151	0.1804	0.1363	0.0072
2 3⁄16	0.1106	0.1717	0.1283	0.0071
2 7⁄16 - 2 1⁄2	0.1105	0.1812	0.1354	0.0071
2 11⁄16 - 3	0.1204	0.1983	0.1517	0.0072
3 3⁄16 - 3 1⁄2	0.1205	0.1889	0.1444	0.0072
3 11⁄16 - 4	0.1088	0.1816	0.1351	0.0071
4 7⁄16 - 4 1⁄2	0.1138	0.1806	0.1360	0.0072
4 15⁄16 - 5	0.1171	0.1894	0.1439	0.0072
5 7⁄16 - 5 1⁄2	0.1037	0.1730	0.1270	0.0071
5 15⁄16	0.1009	0.1735	0.1265	0.0070
6 7⁄16 - 7	0.1020	0.1733	0.1267	0.0070
7 1⁄2 - 8	0.1115	0.1809	0.1357	0.0071

MOUNTING COLLAR MOUNT UNITS

1. INSPECT SHAFT and BORE

- Shaft should be within tolerance range shown in Table 5, page 28, clean and free of nicks and burrs.
- Mount bearings on unused section of shafting or repair/replace as required.
- Inspect shaft and bearing bore for debris or contaminants. Wipe clean as necessary.

2. CHECK SUPPORT SURFACES

- Make sure housing base and support surfaces are clean and free from nicks and burrs.
- If the housing elevation is adjusted with shims, these must cover the entire contact area between the housing and the support surface.

3. INSTALL UNIT

- Keep weight off bearing during mounting.
- Slide unit onto shaft by pushing on inner ring.
- If difficult to install, use a piece of emery cloth to reduce high spots on shaft.
- Do not hammer on any component of the bearing and/or the shaft.
- Split housings have the provision for a lifting lug. If used, this provision is only intended to support the weight of the housed bearing assembly.

4. FASTEN UNIT IN PLACE

- Install mounting bolts and check bearing alignment; align units as closely as possible.
- These bearings are designed for maximum permissible misalignment of +/- 2°. Installation, handling or operation of the bearing in excess of the maximum permissible misalignment of +/- 2° can cause reduction in bearing performance, resulting in equipment failure and/or personal injury.
- Once alignment is within the allowable range, tighten mounting bolts to recommended fastener torque.
- Check shaft for freedom of rotation by rotating shaft by hand in both directions.

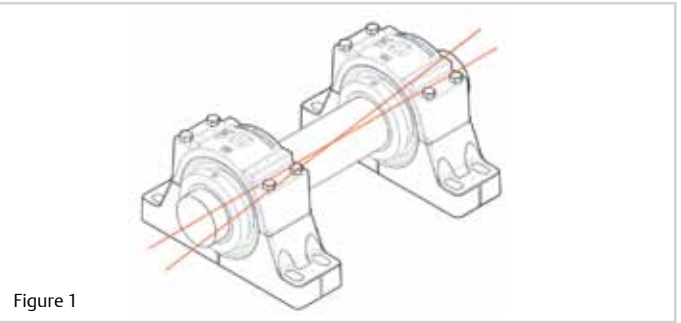


Figure 1

5. POSITION INSERT

- If expansion unit is used, it must be located in the housing to allow axial shaft expansion and/or contraction.
- Position bearing insert to maximize the axial expansion in the desired direction.
- It may be necessary to unload the bearing while positioning the bearing insert.

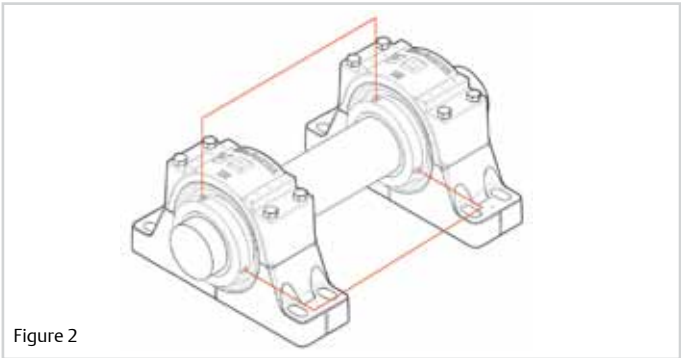


Figure 2

6. TIGHTEN SETSCREWS

- Setscrews in multiple bearing applications should be aligned as seen in Figure 2 above. Setscrews that are not properly aligned can induce shaft misalignment between two bearings.
- Step 1: Torque first setscrew to $\frac{1}{2}$ recommended torque (Table 9, page 28).
- Step 2: Torque second setscrew to full recommended torque (Table 9, page 28).
- Step 3: Torque first setscrew to full recommended torque (Table 9, page 28).
- Double-lock collar mount units: Repeat steps 1 to 3 on second lock collar.
- Rotate shaft by hand to make sure it turns smoothly.

MOUNTING ADAPTER MOUNT UNITS

1. INSPECT SHAFT AND BORE

- Shaft should be within tolerance range shown in Table 6, page 28, clean and free of nicks and burrs.
- Mount bearings on unused section of shafting or repair/replace as required.
- Inspect shaft and bearing bore for debris or contaminants. Wipe clean as necessary.

Warning: Do not apply grease, oil or anti-seize compound to the tapered surfaces, bore and shafting. If any of these substances are applied, equipment failure and personal injury may result.

2. CHECK SUPPORT SURFACES

- Make sure housing base and support surfaces are clean and free from nicks and burrs.
- If the housing elevation is adjusted with shims, these must cover the entire contact area between the housing and the support surface.

3. INSTALL UNIT

- It is recommended that applications using adapter mount units utilize one expansion unit in conjunction with one non-expansion unit.
- Failure to utilize one expansion and one non-expansion unit could result in reduced bearing performance.
- Keep weight off bearing during mounting.
- Slide unit onto shaft by pushing on inner ring.
- If difficult to install, use a piece of emery cloth to reduce high spots on shaft.
- Do not hammer on any component of the bearing and/or the shaft.
- Split housings have the provision for a lifting lug. If used, this provision is only intended to support the weight of the housed bearing assembly.

4. FASTEN UNIT IN PLACE

- Install mounting bolts and check bearing alignment; align bearing units as closely as possible.
- These bearings are designed for maximum permissible misalignment of +/- 2°. Installation, handling or operation of the bearing in excess of the maximum permissible misalignment of +/- 2° can cause reduction in bearing performance, resulting in equipment failure and/or personal injury.
- Once alignment is within the allowable range, tighten mounting bolts to recommended fastener torque.
- Check shaft for freedom of rotation by rotating shaft by hand in both directions.

5. POSITION INSERT

- If an expansion unit is used, the bearing must be located in the housing.
- If the direction of shaft growth is in the direction seen in Figure 3, align the bearing as shown.
- If the direction of shaft growth is opposite to that shown in Figure 3, center the insert in the housing.

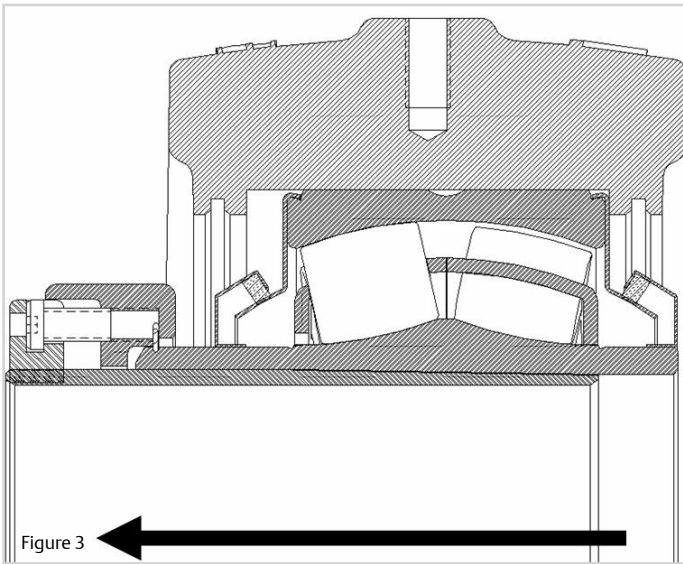


Figure 3

MOUNTING ADAPTER MOUNT UNITS (cont'd.)

6. SHAFT LOCK

- Step 1: Tighten cap screws in specified order as seen in Figure 4; continue tightening until all cap screws have become snug.
- Step 2: Using a torque wrench, tighten each screw to $\frac{1}{2}$ the appropriate torque value (Table 10, page 28).
- Step 3: In the same order, repeat the procedure. tightening each screw to the full appropriate torque value (Table 10, page 28).
- Step 4: Follow the same pattern and verify that each cap screw has met the appropriate torque value and all cap screws have achieved equivalent resistance.
- Step 5: Continue to tighten all other bearings in the same fashion, continuously checking for freedom of rotation.

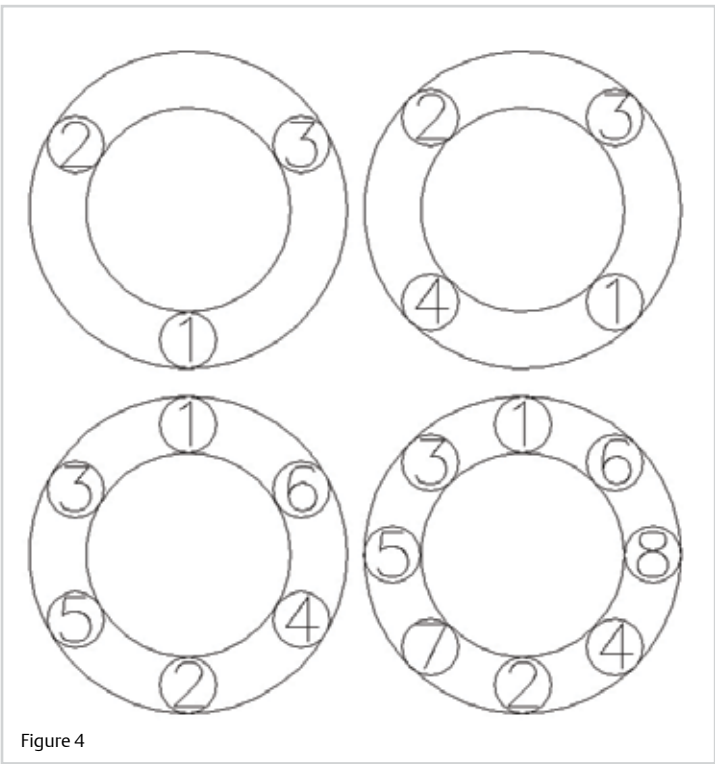


Figure 4

REPLACING EXISTING SEALMASTER INSERTS

REMOVAL:

1. REMOVE HOUSING

- **TWO-PIECE HOUSINGS**
 - Remove cap bolts.
 - Remove top half of housing.
- **ONE-PIECE HOUSINGS**
 - Remove snap ring and spacer ring from housing bore.
 - Do not lose snap ring or spacer ring.

2. REMOVE BEARING FROM SHAFT

- Setscrew units: Loosen setscrews and slide bearing off shaft.
- Adapter mount units: Loosen cap screws in the specified order as seen in Figure 4 and slide the bearing off the shaft.
- **DO NOT HAMMER ON ANY COMPONENT OF THE BEARING AND/OR SHAFT.**

REPLACEMENT:

1. LOAD NEW INSERT

- Shaft should be within applicable tolerance range shown in Table 5 or 6, page 28, clean and free of nicks and burrs.
- Mount bearings on unused section of shafting or repair/replace as required.
- Inspect shaft, bearing bore, housing bore and spacer ring for debris or contaminates. Wipe clean as necessary.

Warning: Do not apply grease, oil or anti-seize compound to the tapered surfaces, bore and shafting. If any of these substances are applied, equipment failure and personal injury may result.

2. SECURE IN HOUSING

- Be sure to check the bearing for proper alignment; align bearing units as closely as possible.
- These bearings are designed for maximum permissible misalignment of $\pm 2^\circ$. Installation, handling or operation of the bearing in excess of the maximum permissible misalignment of $\pm 2^\circ$ can cause reduction in bearing performance, resulting in equipment failure and/or personal injury.
- **TWO-PIECE HOUSINGS**
 - Install top half of the housing; ensure alignment between location pin and location hole.
 - Tighten down the cap bolts to the recommended torque in Table 8, page 28.
- **ONE-PIECE HOUSINGS**
 - Replace spacer ring into bearing housing.
 - Replace snap ring into snap-ring groove in bearing housing.

3. REFER TO STEPS 5 AND 6 FROM PREVIOUS INSTALLATION SECTIONS FOR THE RESPECTIVE SHAFT LOCKING MECHANISM.

Refer to back cover for relevant disclaimer.



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