



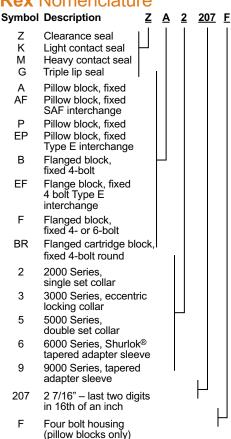
The Bearing

Field Guide

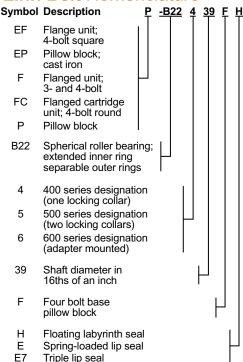


Rex Link-Belt

Rex Nomenclature



Link-Belt Nomenclature



Interchange

Use the charts below to find the corresponding Rex or Link-Belt roller bearing nomenclature between another company's housing style. If you are unsure of the components of your bearing, contact one of our many trained Rexnord Customer Care Specialists today for assistance.

	Housing Style					
Bearing Type	Pillow Block - Standard 2 bolt	Pillow Block - Standard 4 bolt	Pillow Block - Type "E"	Flange Block - 4 bolt	Flange Block - Type "E"	
Rex	ZAXXXX	ZA 0000F	ZEPXXXX	ZBXXXX	ZEFXXXX	
Link-Belt	PB22XXXH	PB22XXXFH	EPB22XXXH	FB22XXXH	EFRB22>OO(H	
Dodge	P2B-S2-XXX	P4B-S2-XXX	P2B-E-XXX	FB-S2-XXX	FB-E-XXX	
SKF	SYRX	FSYRX	SYEX	FYRX	FYEX	
Browning	SPB1000NEX	SPB1000FNEX	PBE920X	SFB1000NEX	FBE920X	
Sealmaster	RPB)OO(2	RPB>>>4	ERPB)OO(2	RFBAXXX	RFBXXX	

	Housing Style					
Bearing Type	A Piloted Flange	B Flange Bracket	C Takeup- Center Pull	D Takeup- Protected Screw	E Takeup Frame- Protected Screw	
Rex	ZBRXXXX	N/A	ZTX-XXX ZTXX-XXX	ZNX-X00X ZNXX-XXX	N/A	
Link-Belt	FCB22XXXH	FBB22XXXH	TB22XXXH	DSB22XXXH	LHD	
Dodge	FC-S2-XXX	NONE	WSTU-S2-XXX	TPHU-S2-XXX	HD	
SKF	FYRPX	NONE	TBRX	TRHX	TFT	
Browning	SFC1000NEX	NONE	STU1000NEX TUE920X	TU900X	T2000	
Sealmaster	RFPACOX	NONE	STUXXXX USTU5000X	NONE	NONE	

Seals

Rex® Seals*

Link-Belt® Seals**



Rex K Seal Light Contact Seal



Rex M Seal Heavy Contact Seal



Rex G Seal Triple Lip Seal



Rex Z Seal Non-Contact Seal



Link-Belt E Seal Heavy Contact Seal



Link-Belt E7 Seal Triple Lip Seal



Link-Belt H Seal Non-Contact Seal

*Additional Rex seal options available. Contact a Rexnord Customer Care Specialist for more information

**Three proven seal choices

Bearing Seal Replacement Guide

Step A: Applies to Seals Z, K, H, G, and E7 Replacement

Tools Needed: Safety glasses, screwdrivers (very small flathead to remove snap ring and seal, large flat or Phillips to remove Micro-Lok), tools to remove shaft locking device.





1. Remove shaft-locking device.



Place pillow block on face (lay flat on back).



 Remove Micro-Lok key, washer and screw. Keep washer in screw and do not lose.



4. Mark Micro-Lok position by marking slot in threaded cover and hole in housing.



Remove snap ring. Place small flathead screwdriver tip behind the bend of the snap ring; place hand over the face of the bearing to maintain control of the snap ring. Refer to page 12 for step 5 if replacing an M or E seal.



Walk seal out of bearing past inner race hubs using small flathead screwdriver.



- Place Z,K,H,G, or E7 seal in place
 - a. Make sure raised indent on seal is in front.
 - b. Slide over inner race hub until back face of seal hits seal groove face.
 - c. If installing M or E seal, go to Step B.



Note: Raised indent and final position of snap ring.





- 8. Replace snap ring. Start snap ring into housing groove up against raised tab in seal. Wind snap ring into place until completely seated in groove. Use flathead screw driver to push on snap ring to make sure it has popped into the seal groove all the way around. Make sure raised tab of seal is between the two snap ring ends. If not, use flathead screwdriver to move seal tab between ends of snap ring.
- 9. Replace Micro-Lok key, screw and washer into marked position. If threaded cover has rotated during seal installation, rotate back to marked position. Make sure compression washer is between screw head and key, and that the bend is down on the Micro-Lok key. Tighten screw until washer is compressed.

Caution: Do not overtighten.







Step B: If Replacing Z, K, H, G, or E7 with M or E Seal

Placing an M or E Seal in the Bearing Follow Steps 1 – 7 in Step A;

Continue steps 10 - 12 below.

Tools Needed: Safety glasses, flat nosed punch, ball peen hammer.

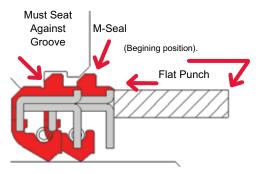




With the metal side out, push M or E over inner race hub until it rests on housing.



11. Place flat nose punch over junction of two metal pieces. Begin bumping the seal free while moving punch around seal in 90° increments until seal is completely seated in seal groove of housing. Refer to diagram at top of next page.



Key is making sure the rubber is seated all the way into the groove.

12. Replace Micro-Lok key, screw and washer into marked position. If threaded cover has rotated during seal installation, rotate back to marked position. Make sure compression washer is between screw head and key, and the bend is down on the Micro-Lok key. Tighten screw until washer is compressed.

Caution: Do not overtighten.







How to Remove M or E Seal

Tools Needed: Safety glasses, large flathead screwdriver.



 Place screwdriver between the junction of the metal and rubber at the outside diameter of the seal.

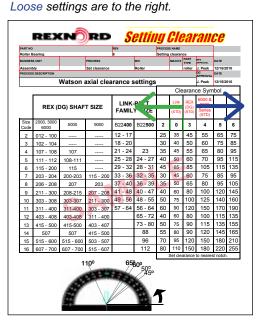


Pry seal using a rotating motion of the screwdriver until seal pops out of housing groove. Will need to pry in several locations to completely pop seal out of groove in housing. Refer to page 10 for installation of new seal.

Rexnord Setting Clearance

Steps A - C (i, ii, iii)

NOTE: Tight settings are to the left.



A. You must know what brand, series, shaft size or size code. The example we are using is Rex 2000 series 2 7/16" shaft, size code 8.

Clearance Symbol						
	Link REX 9000 & 9000 Series (STD)					
2	0	3	4	5		
25	35	45	55	65		
30	40	50	60	75		
35	45	55	65	80		
40	50	60	70	95		
4.5	^-	5	405	445		

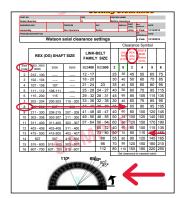
B. Review "REX (STD)." (STD) means standard clearance setting from factory.

	义	REX (DG) SHAFT SIZE			
	Size Code	2000, 3000 6000	9000		
· ·	2	012 - 100			
	3	102 - 104			
	4	107 - 108	107		
	5	111 - 112	108-111		
	6	115 - 200	115		
)	203 - 204	200-203	115 - 200	
\rightarrow	8	206 - 208	207	203	
	9	211 - 300	208-215	207 - 208	
	10	303 - 308	303-307	211 - 300	

C. In this example find size code 8.

i. Move across chart to column Rex (STD) and note the angle of rotation; in this case, 65°.

	Size Code	6000	5000	9000	B22 400
	2	012 - 100			12 - 17
	3	102 - 104			18 - 20
	4	107 - 108	107		21 - 24
	5	111 - 112	108-111		25 - 28
	6	115 - 200	115	-	29 - 32
	7	203 - 204	200-203	115 - 200	33 - 36
	8	2 3 -200	.77	203	37 - 40
1	9	211 - 300	208-215	207 - 208	41 - 48
	10	303 - 308	303-307	211 - 300	49 - 56
	11	311 - 400	311-400	303 - 307	57 - 64
	12	403 - 408	403-408	311 - 400	
	13	415 - 500	415-500	403 - 407	
	14	507	507	415 - 500	
	15	515 - 600	515 - 600	503 - 507	



ii. Looser settings are to the right. Move one column to right and note angle; in this case, 80°.

ii.

iii.

iii. Subtract the two angles (80 - 65 = 15°). This is the amount of rotation counterclockwise to loosen threaded cover.

Loosening

When to Adjust

Looser Clearance

- High-speed
- High-temperature

Tools Needed: Safety glasses, screwdriver (Phillips & flathead), hammer, dead-blow hammer, Rexnord setting clearance chart, block of wood to support bearing housing unit.



Rexnord Setting Clearance Chart



Safety Glasses



Flathead Screwdriver



Ball Peen Hammer



Phillips Screwdriver



Drift / Flat-Nosed Punch



Dead-Blow Hammer



Supports for Bearing Back



 Remove shaftlocking device.



Remove Micro-Lok key, screw and washer. Make sure not to lose washer.



Mark position on threaded cover and housing.



 To adjust one setting loose, reference "Rexnord Setting Clearance Chart" for Steps A – C (i, ii, iii).

After reviewing "Rexnord Setting Clearance Chart" continue onto steps 5-12.



5. Noting the original marks, loosen threaded cover 15° using a hammer and flat screwdriver. For reference, the holes in the housing are spaced at 15°, and slots in the threaded cover are spaced at 30°.



Re-mark the new position for future reference.



Turn housing over and provide supports so inner race on opposite side sits above table.



Remove seal per seal removal instructions.



- Place a block of wood, which just fits over the face of the inner ring, on the inner ring face.
- 10. Using a hammer, hit the block of wood with several sharp blows, trying to keep inner race square to housing. This procedure moves the outer race up against the threaded cover, which was just loosened.



11. After hitting, turn bearing over and try to rotate threaded cover clockwise by hand. If it does not move, clearance has been set properly. If threaded cover moves, move it back to loosened position and repeat steps 9 and 10 until threaded cover will not rotate clockwise by hand. (In some cases, an arbor press may be required to perform steps 9 and 10).

12. Once clearance is set, install Micro-Lok assembly, making sure compression washer is between screw head and key, and the bend is down on the Micro-Lok key. Tighten screw until washer is compressed.







TighteningWhen to Adjust

Tightening Clearance

- · Impact or shock loads
- Minimize shaft movement or run-out
- Noise reduction in vibratory applications



1. Remove shaft-locking device.



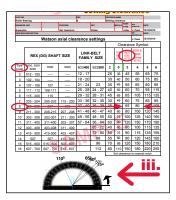
Remove Micro-Lok key, screw and washer. Make sure not to lose washer.



3. Mark position on threaded cover and housing.



4. To adjust one setting tight, reference "Rexnord Setting Clearance Chart" for Steps A – C (i, ii). See iii on next page. NOTE: Tight settings are to the left. Loose settings are to the right.



iii. Subtract the two angles. 65 - 50 = 15°. This is the amount of rotation clockwise to tighten threaded cover.

After reviewing
"Rexnord Setting
Clearance Chart, i., ii.,"
continue onto steps 5-6.



5. Noting the original marks, tighten threaded cover 15° using a hammer and flat screwdriver. For reference, the holes in the housing are spaced at 15°, and slots in the threaded cover are spaced at 30°.







Once clearance is set, install Micro-Lok assembly, making sure compression washer is between screw head and key, and the bend is down on the Micro-Lok key. Tighten screw until washer is compressed.

Bearing Installation Guide

Centrik-Lok

Tools Needed: Safety glasses, torque wrench, proper size hex key.



Safety Glasses



Torque Wrench



Proper Size Hex Key



1. Review service instructions: Link-Belt® Series CL 200 Centrik-Lok® (B-BBU-20-A.)



Make sure shaft is clean, round, and free of burrs and nicks; check size per installation instructions.



Slide bearings onto shaft and position. Lightly bolt housings to mounting structure.



 Align bearing units and securely fasten to mounting structure.

Recom	mended	Collar	Screw	Torque
	$\overline{}$	$\overline{}$		

Shaft Size (in)	Screw Size	Socket Size	Inch-Pounds
3/4 - 1 3/16	#10	5/32	65 - 72
1 1/4 - 1 3/4	1/4	3/16	151 - 168
1 7/8 - 2 7/16	5/6	1/4	313 - 348

Find collar screw torque in service instructions.



6. Set torque wrench to proper torque.



7. Snug both collar screws.



 Incrementally tighten collar screws by tightening one screw slightly more than the other until the specified torque is reached.

Bearing Installation Guide SHURLOK®

Tools Needed: Safety glasses, proper size hex key for set screw in nut, impact SHURLOK tool, "C" type SHURLOK tool with breaker bar or hammer and drift



- Review service instructions: Link-Belt Series K300
 Series Ball Bearings Installation Instruction Number
 PIN B-BBU-22-2 or Rex Shurlok 6000 Series
 Installation Instructions 105-99501-19.
- Make sure shaft is clean, round, and free of burrs and nicks and on size, per installation instructions.



Loosen set screws in SHURLOK locknut.



 Back-off locknut so bearing will slide onto shaft easily. Make sure locknut is still engaged with threads on inner ring.



- Check Spyglass™ Optical Strain Sensing Technology (OSS) – make sure the eye is clear.
- In general when mounting SHURLOK product, fixed and expansion bearings are used.



 Slide bearings onto shaft and position.
 Fixed bearing generally is positioned closest to drive.



 Tighten mounting bolts to mounting structure. This assumes the use of fixed and expansion bearings. Refer to service instructions for two fixed bearings.





- 9. Tighten adapter assembly of fixed unit first.
- 10. Hand-tighten locknut to take out the looseness, then snug using SHURLOK installation tools or hook spanner. This process removes the clearance between the shaft. sleeve and inner race.







11. Once snug, mark position of the locknut, sleeve and shaft with a marker.

12. Rotate locknut clockwise ½ turn using SHURLOK tools or a hammer and drift. Check the eyes for any color change. Always check both indicators.





13. Using the impact spanner, the "C" tool, breaker bar or hammer and drift, tighten locknut in 1/8 turn increments. Inspect both eyes for color change. (Only one eye needs to show color so you must check both eyes). Any color change as per the installation instructions is good. Continue this process until you see color change in one of the eyes in the locknut. If the color changes before you have reached the minimum locknut adjustment per the service instructions continue tightening locknut in 1/8-turn increments until minimum is achieved.



WRONG



CORRECT

14. Check set screw location to make sure they are not over the slot in the adapter sleeve. If they are, tighten locknut until screw clears slot.



- 15. Tighten set-screws using the torque table in the service instructions or use a hex key and tighten until hex key yields.
- Repeat process for expansion unit, only make sure to center expansion cartridge in center of housing.

Note: Once set-screws are tightened, the OSS eye may become clear or darker. This is normal.



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