

## BEARING INSTALLATION INSTRUCTIONS

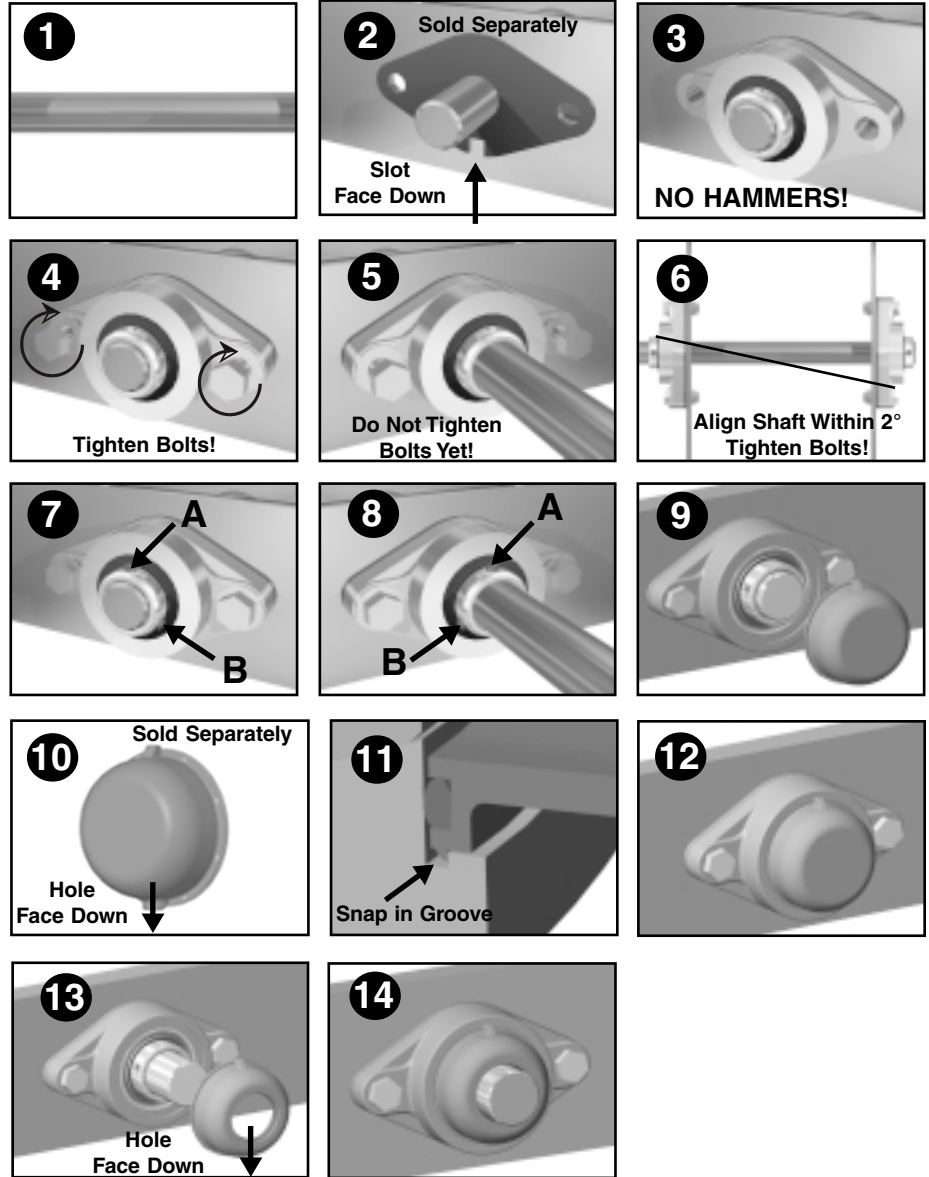
### For CRES CR Gold and TDC Gold



### CAUTION

Failure to read & follow all instructions could result in malfunction, injury, or property damage.

- 1 Insure shafting is clean and within spec. See Table below. Remove all burrs.
- 2 Place back-side shield on shaft, if used. Drain slot **MUST** be face down.
- 3 Place first bearing onto shaft. **DO NOT HAMMER.**
- 4 Install Bolts and Stainless Steel washers (if used). **Tighten down housing mounting bolts.**
- 5 Repeat Steps 2-4 for the second bearing but **DO NOT** tighten down housing mounting bolts yet.
- 6 Align bearings and shaft. Shaft should be within  $\pm 2$  degrees. Set screws on both bearings should face the same direction. **Tighten Mounting Bolts.**
- 7 BEARING ONE SET SCREW TIGHTENING DIRECTIONS:  
HALF - Tighten Set Screw "A" to 1/2 the recommended torque in Table below.  
FULL - Tighten Set Screw "B" to the full recommended torque in Table below.  
FULL - Tighten Set Screw "A" to the full recommended torque in Table.
- 8 Repeat tightening of the set screws in step 7 for the second bearing. Set screws on both bearings should face the same direction.
- 9 OPTIONAL CLOSED END CAP INSTRUCTIONS: The polymer end cap snaps into the housing.
- 10 The drain hole should be placed so it is facing down when the cap is installed.
- 11 Press the cap into the housing until it snaps into the groove in the housing.
- 12 Closed End Cap assembly completed.
- 13 OPTIONAL OPEN END CAP INSTRUCTIONS: The polymer end cap snaps into the housing. The drain hole in the cap must face down.
- 14 Slide the cap over the shaft. Make sure there is no contact between the shaft and the end cap.
- 15 Rotate bearing several times. Look, Feel, and Listen for anything unusual.
- 16 To remove cap, pry the cap off the housing using the pry tab on the top of the cap.



SHAFT TOLERANCES	
Shaft Diameter (in.)	Shaft Tolerance (in.)
1/2" to 1-15/16"	Plus .0000 to minus .0005
2" to 2-15/16"	Plus .0000 to minus .0010

SET SCREW TIGHTENING				
CR Gold, TDC Gold, Bev Gold				
Shaft Size (in)	Set Screw Diameter	Hex size across flats	Torque	
			in-lbs	ft-lbs.
3/4 - 1 1/4R	1/4	1/8	65-85	
1 1/4 - 1 3/4	5/16	5/32	125-165	
1 13/16 - 2 7/16	3/8	3/16	230-300	20-25
2 1/2 - 3 7/16	7/16	7/32	350-450	29-38

End Caps and Back Side Shields not available on all units. Sold Separately

# LUBRICATION INSTRUCTIONS

**1**

**STEP 1 - Select the proper lubrication, based on unit type**

The **unit type** is marked on the bearing housing

Bev Gold: BP, BF, BFT, BFB  
 TDC Gold: CRPC, CRTBC, CRFC, CRFTC  
 CR Gold: NP-C CR, FB-C CR, SF-C CR, SFT-C CR

Grease Type	Table #1
Thickener	Aluminium Complex
Oil	Synthetic
Thickness	NLGI #2
Anti Wear	Yes
Operating temperature	-25°F to 200° F Intermittent to 250° F
Viscosity	100 SUS @ 100°F
<b>FOOD GRADE GREASE</b>	

## READ CAREFULLY

Compatibility of grease is critical. To insure proper grease compatibility, choose a grease with the same properties shown in Table #1. For questions regarding grease compatibility, contact SEALMASTER Application Engineering or your grease manufacturer.

Relubricatable SEALMASTER bearings are supplied with grease fittings for ease of lubrication with hand or automatic grease guns. Always wipe the fitting and grease nozzle clean.

## CAUTION

For safety, stop rotating equipment. Add one half the recommended amount shown in Table #3. Start bearing, and run for a few minutes. Stop bearing and add the second half of the recommended amount. A temperature rise, sometimes 30°F (17°C), after relubrication is normal. Bearing should operate at temperatures less than 200°F (94°C) and should not exceed 225°F (107°C) for intermittent operation. Follow steps below for lubrication schedule and amount. For any applications that are not in the ranges of the table, contact SEALMASTER Application Engineering.

NOTE: The tables below state general lubrication recommendations based on our experience 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.

**2**

**STEP 2 - Determine the proper lubrication frequency, based on the application Environment, Speed, and Temperature**

**3**

**STEP 3 - Determine lubrication amount Based on Environment from Step 2**

**WITHOUT END CAPS**

Table 2		Speed (RPM)		
Environment	Temperature	100 - 500	500 to 1/2 Maximum Catalog	1/2 Maximum to Maximum Catalog
Clean	-20° F to 150° F	6 - 12 Months	3 - 6 Months	1 - 3 Months
	150° F to 175° F	3 - 6 Months	3 - 6 Months	1 - 3 Months
	175° F to 200° F	1 - 3 Months	1 - 3 Months	1 - 3 Months
Dirty / Moist	-20° F to 150° F	1/2 - 2 Weeks	Daily - 1 Week	Daily - 1 Week
	150° F to 175° F	Daily - 1 Week	Daily - 1 Week	Daily - 1 Week
	175° F to 200° F	Daily - 1 Week	Daily - 1 Week	Daily - 1 Week
Very Dirty / Wet	-20° F to 150° F	Daily	Daily	Daily
	150° F to 175° F	Daily	Daily	Daily
	175° F to 200° F	Daily	Daily	Daily
Severe Dry Contaminated / Frequent High Pressure Washdown	-20° F to 150° F	Daily	Daily	Daily
	150° F to 175° F	Daily	Daily	Daily
	175° F to 200° F	Daily	Daily	Daily

Table 3	Bore Size			
Environment	3/4", 1"	1 3/16", 1 1/4"	1 7/16"	1 1/2"
Clean	0.1 oz.	0.1 oz.	0.1 oz.	0.1 oz.
Dirty / Moist	Add sufficient grease to purge bearing / seals			
Very Dirty / Wet				
Severe Dry Contaminated / Frequent High Pressure Washdown				
Washdown				

**WITH END CAPS**

Table 4		Speed (RPM)		
Environment	Temperature	100 - 500	500 to 1/2 Maximum Catalog	1/2 Maximum to Maximum Catalog
Clean	-20° F to 150° F	6 - 12 Months	3 - 6 Months	1 - 3 Months
	150° F to 175° F	3 - 6 Months	3 - 6 Months	1 - 3 Months
	175° F to 200° F	1 - 3 Months	1 - 3 Months	1 - 3 Months
Dirty / Moist	-20° F to 150° F	6 - 12 Months	3 - 6 Months	1 - 3 Months
	150° F to 175° F	3 - 6 Months	3 - 6 Months	1 - 3 Months
	175° F to 200° F	1 - 3 Months	1 - 3 Months	1 - 3 Months
Very Dirty / Wet	-20° F to 150° F	1 - 4 Weeks	1/2 - 2 Weeks	Daily - 1 Week
	150° F to 175° F	1/2 - 2 Weeks	1/2 - 2 Weeks	Daily - 1 Week
	175° F to 200° F	Daily - 1 Week	Daily - 1 Week	Daily - 1 Week
Severe Dry Contaminated / Frequent High Pressure Washdown	-20° F to 150° F	Daily - 1 Week	Daily - 1 Week	Daily - 1 Week
	150° F to 175° F	Daily - 1 Week	Daily - 1 Week	Daily - 1 Week
	175° F to 200° F	Daily - 1 Week	Daily - 1 Week	Daily - 1 Week

**3**

**STEP 3 - Determine lubrication amount Based on Environment from Step 2**

Table 5	Bore Size						
Environment	3/4", 1"	1 3/16", 1 1/4"	1 7/16"	1 1/2"	1 11/16", 1 15/16"	2"	
Clean	0.1 oz.	0.1 oz.	0.1 oz.	0.2 oz.	0.2 oz.	0.3 oz.	
Dirty / Moist	0.1 oz.	0.2 oz.	0.3 oz.	0.4 oz.	0.5 oz.	0.6 oz.	
Very Dirty / Wet	Add sufficient grease to purge bearing / seals						
Severe Dry Contaminated / Frequent High Pressure Washdown							
Washdown							
Washdown							

## WARNING

Disconnect all power **before** installation and servicing.

## APPLICATION ASSISTANCE:

Please contact SEALMASTER Engineering at:

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