



Corrosion Resistant Engineered Solutions OVERVIEW



SLIC MOUNT - Mounted Bearing



SEALMASTER® SLIC MOUNT

Component Material

- Sleeve:** 316 Passivated Stainless Steel
- Bushing:** Low Friction, Low Wear, High Temperature Polymer
- Shell:** 316 Passivated Stainless Steel
- Housing:** High Strength Reinforced Composite

Housing Features

- High Strength Reinforced Composite
- Reinforced Stainless Steel Bolt Ferrules
- Solid Construction - Machined Base
- Specialized Unit Identification System

Housing Benefits

- Stronger Construction for Longer Life
- Increased Strength Around Bolt Holes
- Minimized Gaps, No Fillings, Smooth Easy to Clean Surfaces
- Permanent Brand & Nomenclature Marking - Easy to Reorder

Insert Features

- SLIC Assembly (Self Lubricating Integral Composite)
- No Rolling Elements, Retainers, or Seals
- No Oil or Grease
- 316 Passivated Stainless Steel Shell & Sleeve
- Available Hand Held Arbor Tool

Insert Benefits

- Superior "Food Processing" Performance
- Sanitary, Easy to Clean
- Sanitary, No Lubrication Necessary
- Exceptional Corrosion Resistance
- Easy Installation and Removal of Replacement Bushings

Consult Technical Customer Service for Additional Information on:

- Chemical Resistance
- Detailed Component Dimensional Specification
- Installation & Maintenance Instructions
- Interchange Information
- Application Selection
- Operating Temperatures beyond -40° to 150°
- Dimension Information
 - Setscrew Sizes
 - Misalignment Capabilities

Technical Assistance
Aurora, IL 60504
1-630-898-9620
1-630-898-6064 Fax

EPT Customer Service
1-800-626-2120
1-800-626-3292 Fax

Customer Service
Canada
Markham, ONT L3P 3J3
1-800-268-4149
1-800-668-9005 Fax

WWW.EMERSON-EPT.COM

The CRES Family of Products



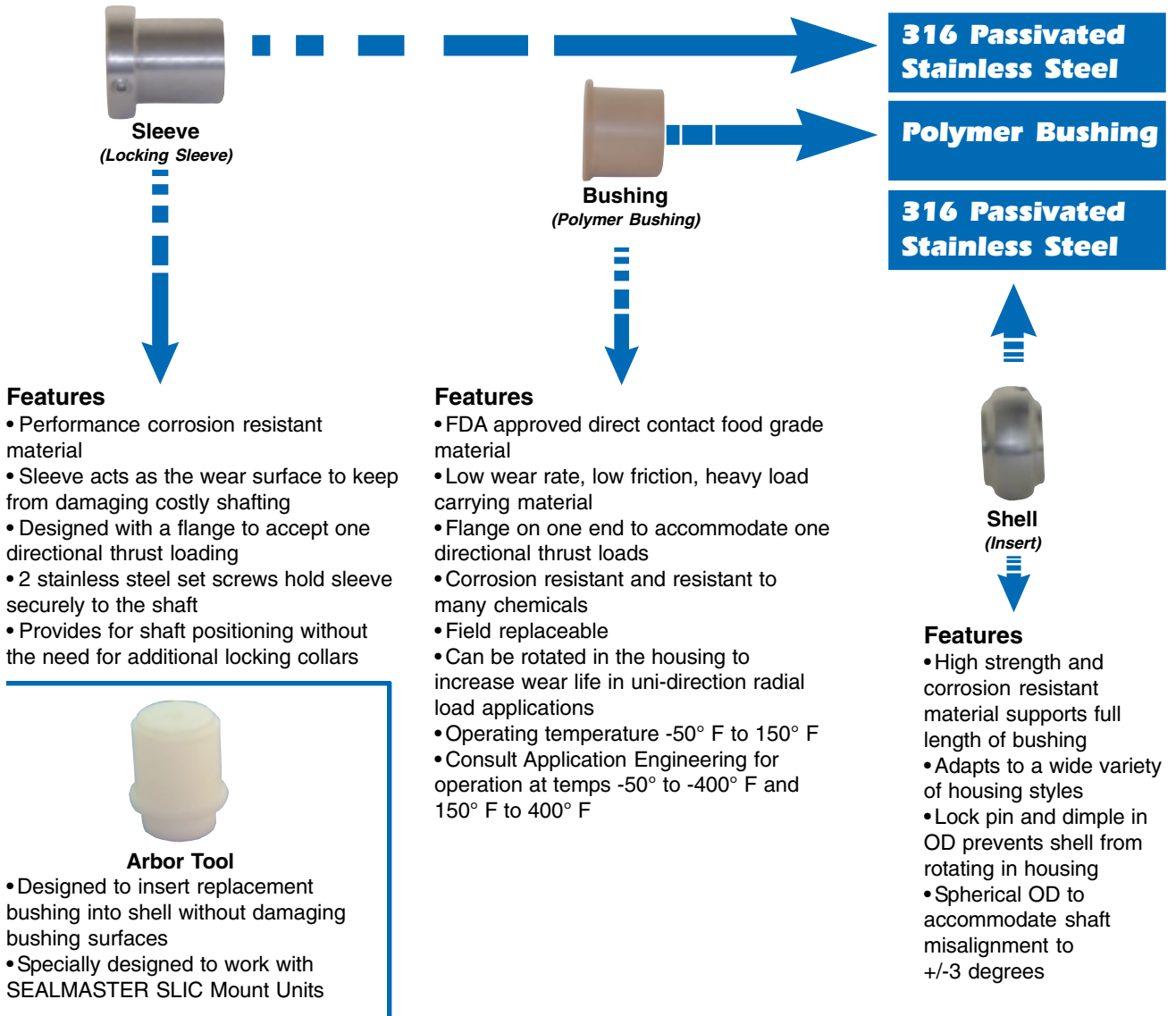
A Better Design for Healthy Peace of Mind



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The "SLIC" Solution



Purchase Options

1. Completely assembled unit
 2. Components separately (Sleeve, Bushing, Shell, Arbor Tool)*
- * Arbor Tool should be purchased with option #2 to properly install bushing into shell

The CRES Story

SLIC Mount Units can be used in a wide variety of applications. They excel in applications that require high corrosion resistance and applications where it may not be practical to relubricate. The SLIC Mount bearings can be used in lower speed applications where light to heavy loads are applied (See PV chart). The SLIC Mount Unit is ideal for oscillating applications. SLIC Mount is suitable for low temp freezer applications to -50° F. SLIC Mount is also ideal for heavy washdown applications and can even operate submerged in a variety of liquids or gases. Many

common commercial and industrial liquids actually act as a lubricant reducing wear in SLIC Mount. SLIC Mount has no trapped volume of grease. SLIC Mount housings are interchangeable with common pillow block, 2, and 4 bolt flange units currently in use on many commercial and industrial applications. Alternate bushings, sleeves, shells, and housings may be specified for a variety of applications including high temperatures, higher speeds, etc... Consult SEALMASTER Application Engineering when applying in unique applications or where loads and speeds are considered high.



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The PV Story

Calculation of PV:

- Pressure P (psi) = Load [lb.]/Bushing ID [in] / Length [in].
- Surface Velocity V (fpm) = 0.262 * Shaft Speed (rpm) * Bushing ID (in)
- PV Value = P (psi) * V (fpm)
- Neither P, V, or PV shall be larger than the limiting Pmax, Vmax, or Pvmax.

SLIC Mount Bearings are selected using a Pressure and Velocity relationship known as “PV”, where P=Load or Pressure(psi) and V=Velocity or speed(fpm). For SLIC Mount P*V= a constant which is 5,000 psi*fpm. Therefore increasing the load may require a decrease in speed and the opposite is true that increasing the speed may require a reduction of load. See chart to the right for maximum pressure and velocity. Bushing is normally replaced when an unacceptable amount of wear has been achieved.

Maximum Load (lb.) at the shaft speed

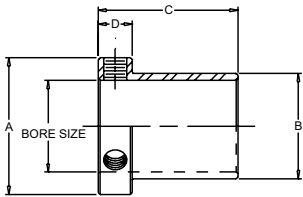
| Shaft Size | Bushing ID | Bushing Length | Shaft Speed - rpm | | | | | | | |
|------------|------------|----------------|-------------------|------|-----|-----|-----|-----|-----|------|
| | | | 10 | 25 | 50 | 100 | 250 | 500 | 750 | 1000 |
| 1/2 | 0.899 | 1.09 | 980 | 832 | 416 | 208 | 83 | 42 | 28 | 21 |
| 5/8 | 0.899 | 1.09 | 980 | 832 | 416 | 208 | 83 | 42 | 28 | 21 |
| 3/4 | 0.899 | 1.09 | 980 | 832 | 416 | 208 | 83 | 42 | 28 | 21 |
| 1 | 1.149 | 1.15 | 1320 | 878 | 439 | 219 | 88 | 44 | 29 | |
| 1 3/16 | 1.399 | 1.34 | 1875 | 1023 | 511 | 256 | 102 | 51 | | |
| 1 1/4R | 1.399 | 1.34 | 1875 | 1023 | 511 | 256 | 102 | 51 | | |
| 1 1/4 | 1.649 | 1.4 | 2310 | 1069 | 534 | 267 | 107 | 53 | | |
| 1 7/16 | 1.649 | 1.4 | 2310 | 1069 | 534 | 267 | 107 | 53 | | |
| 1 1/2 | 1.774 | 1.56 | 2765 | 1191 | 595 | 298 | 119 | | | |

P max = 1000 psi

V max = 200 fpm

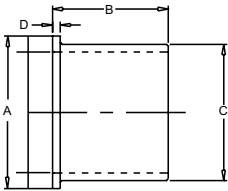
PV max = 5,000 psi-fpm

Sleeve



| DESCRIPTION | BORE DIA. | A | B | C | D | SETSCREW SIZE |
|-------------|-----------|------|--------|-------|------|---------------|
| SLV-1/2 | .500 | 1.24 | .8990 | 1.515 | .375 | 1/4-28 |
| SLV-5/8 | .6250 | 1.24 | .8990 | 1.515 | .375 | 1/4-28 |
| SLV-3/4 | .7500 | 1.24 | .8990 | 1.515 | .375 | 1/4-28 |
| SLV-1 | 1.0000 | 1.49 | 1.1490 | 1.578 | .375 | 1/4-28 |
| SLV-1 3/16 | 1.1875 | 1.74 | 1.3990 | 1.765 | .375 | 1/4-28 |
| SLV-1 1/4R | 1.2500 | 1.74 | 1.3990 | 1.765 | .375 | 1/4-28 |
| SLV-1 1/4 | 1.2500 | 1.99 | 1.6490 | 1.891 | .438 | 5/16-24 |
| SLV-1 7/16 | 1.4375 | 1.99 | 1.6490 | 1.891 | .438 | 5/16-24 |
| SLV-1 1/2 | 1.500 | 2.12 | 1.7740 | 2.047 | .438 | 5/16-24 |

Bushing

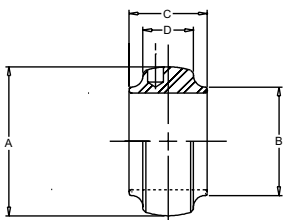


| DESCRIPTION | A | B | C | D |
|-------------|------|------|--------|-----|
| CRB-204 | 1.27 | 1.09 | 1.0845 | .10 |
| CRB-205 | 1.52 | 1.15 | 1.3355 | .10 |
| CRB-206 | 1.77 | 1.34 | 1.5865 | .10 |
| CRB-207 | 2.02 | 1.40 | 1.8375 | .10 |
| CRB-208 | 2.14 | 1.56 | 1.9630 | .10 |

Component Part Numbers Based on Shaft Sizes

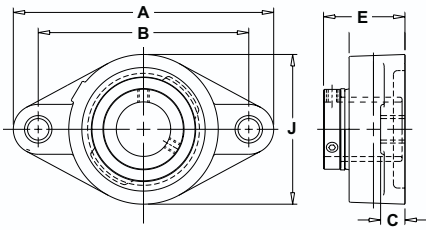
| SHAFT SIZE | SLEEVE | BUSHING | SHELL | ARBOR TOOL |
|------------|------------|---------|---------|------------|
| 1/2 | SLV-1/2 | CRB-204 | SBS-204 | ARB-204 |
| 5/8 | SLV-5/8 | CRB-204 | SBS-204 | ARB-204 |
| 3/4 | SLV-3/4 | CRB-204 | SBS-204 | ARB-204 |
| 1 | SLV-1 | CRB-205 | SBS-205 | ARB-205 |
| 1 3/16 | SLV-1 3/16 | CRB-206 | SBS-206 | ARB-206 |
| 1 1/4 R | SLV-1 1/4R | CRB-206 | SBS-206 | ARB-206 |
| 1 1/4 | SLV-1 1/4 | CRB-207 | SBS-207 | ARB-207 |
| 1 7/16 | SLV-1 7/16 | CRB-208 | SBS-208 | ARB-208 |
| 1 1/2 | SLV-1 1/2 | CRB-208 | SBS-208 | ARB-208 |

Shell



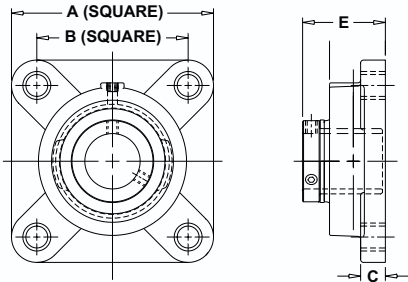
| DESCRIPTION | A | B | C | D |
|-------------|--------|-------|-------|-------|
| SBS-204 | 1.8497 | 1.24 | 1.000 | .625 |
| SBS-205 | 2.0464 | 1.24 | 1.063 | .688 |
| SBS-206 | 2.4401 | 1.24 | 1.250 | .875 |
| SBS-207 | 2.8338 | 1.49 | 1.313 | .938 |
| SBS-208 | 3.1488 | 1.953 | 1.469 | 1.094 |

2 Bolt Flange



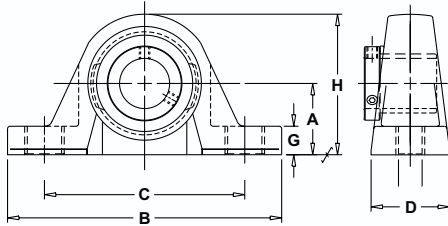
| DESCRIPTION | SHAFT SIZE | A | B | C | E | J | BOLT SIZE |
|---------------|------------|---------|---------|-------|---------|---------|-----------|
| CRBFTC-1/2 | 1/2 | 4 15/32 | 3 17/32 | 7/16 | 1 17/32 | 2 29/64 | 3/8 |
| CRBFTC-5/8 | 5/8 | 4 15/32 | 3 17/32 | 7/16 | 1 17/32 | 2 29/64 | 3/8 |
| CRBFTC-3/4 | 3/4 | 4 15/32 | 3 17/32 | 7/16 | 1 17/32 | 2 29/64 | 3/8 |
| CRBFTC-1 | 1 | 4 15/16 | 3 57/64 | 17/32 | 1 5/8 | 2 23/32 | 7/16 |
| CRBFTC-1 3/16 | 1 3/16 | 5 45/64 | 4 19/32 | 17/32 | 1 25/32 | 3 17/64 | 7/16 |
| CRBFTC-1 1/4R | 1 1/4 | 5 45/64 | 4 19/32 | 17/32 | 1 25/32 | 3 17/64 | 7/16 |
| CRBFTC-1 1/4 | 1 1/4 | 6 23/64 | 5 1/8 | 9/16 | 1 15/16 | 3 3/4 | 1/2 |
| CRBFTC-1 7/16 | 1 7/16 | 6 23/64 | 5 1/8 | 9/16 | 1 15/16 | 3 3/4 | 1/2 |
| CRBFTC-1 1/2 | 1 1/2 | 6 15/16 | 5 21/32 | 9/16 | 2 3/32 | 4 7/64 | 1/2 |

4 Bolt Flange



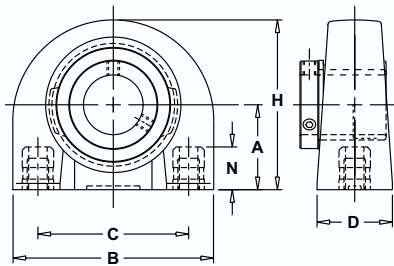
| DESCRIPTION | SHAFT SIZE | A | B | C | E | BOLT SIZE |
|--------------|------------|---------|-------|-------|---------|-----------|
| CRBFC-1/2 | 1/2 | 3 7/16 | 2 1/2 | 7/16 | 1 17/32 | 3/8 |
| CRBFC-5/8 | 5/8 | 3 7/16 | 2 1/2 | 7/16 | 1 17/32 | 3/8 |
| CRBFC-3/4 | 3/4 | 3 7/16 | 2 1/2 | 7/16 | 1 17/32 | 3/8 |
| CRBFC-1 | 1 | 3 51/64 | 2 3/4 | 17/32 | 1 5/8 | 7/16 |
| CRBFC-1 3/16 | 1 3/16 | 4 11/32 | 3 1/4 | 17/32 | 1 25/32 | 7/16 |
| CRBFC-1 1/4R | 1 1/4 | 4 11/32 | 3 1/4 | 17/32 | 1 25/32 | 7/16 |
| CRBFC-1 1/4 | 1 1/4 | 4 53/64 | 3 5/8 | 9/16 | 1 15/16 | 1/2 |
| CRBFC-1 7/16 | 1 7/16 | 4 53/64 | 3 5/8 | 9/16 | 1 15/16 | 1/2 |
| CRBFC-1 1/2 | 1 1/2 | 5 1/4 | 4 | 9/16 | 2 3/32 | 1/2 |

Pillow Block



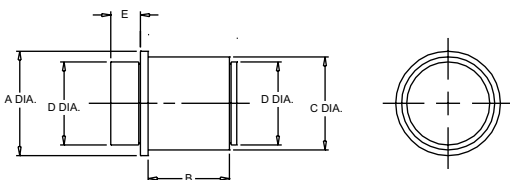
| DESCRIPTION | SHAFT SIZE | A | B | C _{MAX} | C _{MIN} | D | G | H | BOLT SIZE |
|--------------|------------|---------|--------|------------------|------------------|---------|-------|---------|-----------|
| CRBPC-1/2 | 1/2 | 1 5/16 | 5 | 4 1/16 | 3 7/16 | 1 1/2 | 35/64 | 2 35/64 | 3/8 |
| CRBPC-5/8 | 5/8 | 1 5/16 | 5 | 4 1/16 | 3 7/16 | 1 1/2 | 35/64 | 2 35/64 | 3/8 |
| CRBPC-3/4 | 3/4 | 1 5/16 | 5 | 4 1/16 | 3 7/16 | 1 1/2 | 35/64 | 2 35/64 | 3/8 |
| CRBPC-1 | 1 | 1 7/16 | 5 1/2 | 4 7/16 | 3 13/16 | 1 1/2 | 35/64 | 2 13/16 | 3/8 |
| CRBPC-1 3/16 | 1 3/16 | 1 11/16 | 6 1/2 | 5 | 4 1/2 | 1 55/64 | 43/64 | 3 21/64 | 1/2 |
| CRBPC-1 1/4R | 1 1/4 | 1 11/16 | 6 1/2 | 5 | 4 1/2 | 1 55/64 | 43/64 | 3 21/64 | 1/2 |
| CRBPC-1 1/4 | 1 1/4 | 1 7/8 | 6 9/16 | 5 1/4 | 4 3/4 | 1 7/8 | 11/16 | 3 3/4 | 1/2 |
| CRBPC-1 7/16 | 1 7/16 | 1 7/8 | 6 9/16 | 5 1/4 | 4 3/4 | 1 7/8 | 11/16 | 3 3/4 | 1/2 |
| CRBPC-1 1/2 | 1 1/2 | 1 15/16 | 7 1/4 | 5 5/8 | 5 1/8 | 2 1/8 | 11/16 | 4 1/64 | 1/2 |

Tapped Base



| DESCRIPTION | SHAFT SIZE | A | B | C | D | H | N | BOLT SIZE |
|---------------|------------|---------|-------|-------|-------|---------|-----|-----------|
| CRBTBC-1/2 | 1/2 | 1 5/16 | 3 1/8 | 2 | 1 1/2 | 2 9/16 | 1/2 | 3/8-16 |
| CRBTBC-5/8 | 5/8 | 1 5/16 | 3 1/8 | 2 | 1 1/2 | 2 9/16 | 1/2 | 3/8-16 |
| CRBTBC-3/4 | 3/4 | 1 5/16 | 3 1/8 | 2 | 1 1/2 | 2 9/16 | 1/2 | 3/8-16 |
| CRBTBC-1 | 1 | 1 7/16 | 3 | 2 | 1 1/2 | 2 13/16 | 1/2 | 3/8-16 |
| CRBTBC-1 3/16 | 1 3/16 | 1 11/16 | 4 | 3 | 1 1/2 | 3 3/8 | 5/8 | 7/16-14 |
| CRBTBC-1 1/4R | 1 1/4 | 1 11/16 | 4 | 3 | 1 1/2 | 3 3/8 | 5/8 | 7/16-14 |
| CRBTBC-1 1/4 | 1 1/4 | 1 7/8 | 4 1/4 | 3 1/4 | 1 7/8 | 3 3/4 | 3/4 | 1/2-13 |
| CRBTBC-1 7/16 | 1 7/16 | 1 7/8 | 4 1/4 | 3 1/4 | 1 7/8 | 3 3/4 | 3/4 | 1/2-13 |
| CRBTBC-1 1/2 | 1 1/2 | 1 15/16 | 4 5/8 | 3 1/2 | 1 7/8 | 3 15/16 | 3/4 | 1/2-13 |

Arbor Tool



| DESCRIPTION | A | B | C | D | E |
|-------------|------|------|-------|-------|------|
| ARB-204 | 1.25 | 1.10 | 1.060 | .890 | .500 |
| ARB-205 | 1.50 | 1.25 | 1.310 | 1.140 | .500 |
| ARB-206 | 1.75 | 1.36 | 1.560 | 1.390 | .500 |
| ARB-207 | 2.00 | 1.42 | 1.815 | 1.640 | .500 |
| ARB-208 | 2.12 | 1.58 | 1.935 | 1.765 | .500 |

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