Dichtomatik Americas – USA
1087 Park Place
Shakopee, MN 55379
Tel 800 328 2840
Fax 952 894 1588
34 Zaca Lane
San Luis Obispo, CA 93401
Tel 805 546 9600
Fax 805 546 0234
14445 Hethcroy Forest Parkway
Houston, TX 77092
Tel 800 297 1511
Fax 800 682 9103

Dichtomatik Americas – Canada
950 Denison Street #21
Markham, Ontario, Canada L3R 3K5
Tel 905 470 2266
Fax 905 470 2055
WWW.DICHTOMATIK.CA

Dichtomatik Americas – Mexico
Av. de las Misiones 3, S.
Fracc. Industrial Bernardo Quintana
72246 El Barquillo, QRO.
Tel 52 442 221 6303
Fax 52 442 221 6327
WWW.DICHTOMATIKMEX.COM

Dichtomatik Americas – Brazil
Av Piraporninha, 411
Vila Oriential, Diadema - SP
CEP 09250-902
Tel 55 11 4072 8023
Fax 55 11 4072 8723
WWW.DICHTOMATIKBRASIL.COM.BR

We Are
Seals
| SHAFT-EZE™SHAFT SLEEVES

Radial Shaft Seals
Oil Seals
Grease Seals
Medium Duty Oil Bath Seals
AP Excluder Seals
Axial Face Seals
Vrings
oste Stem Seals
End Caps
Shaft-Eze™ Shaft Sleeves
Pressure Seals

Fluid Power Seals
NuPac Seals - O-Ring Energized U-Cups
 Tie Seals
Polyurethane U-Cups
MA25 Symmetrical U-Cup
MA26 Double Rod Seal
MA28 Asymmetrical Piston Seal
NSR U-Cups
AN9226 Series
B420/B500 Series
Pipe Seals
Wear Rings
Rod Washers - A, D, H, Metal Clad
Back-Up Rings

Spliced Rings and Extruded Cord
Spiced O-Rings, Precision Vulcanized
Extruded Cord in Various Compounds
and Cross-Sections
Splicing Kits
Fitting and Fastener Seals
Thread Seals
Fastener Seals
Bonded Seals

Custom Molded Rubber
Rubber Only
Rubber-to-Metal Bonded
Unique Shapes and Materials to Your Specifications

O-Rings
All AS568 Sizes in Stock, Including
NBR 70 and 90
FKM 75 Black and Brown
PMV 70
Silicone 70
Metric O-Rings
Select Sizes of
PTFE Encapsulated FKM and Silicone
Polyurethane
Solid PTFE
Wide Variety of Materials Available
O-Ring Kits
X-Rings
U-Rings
Square Rings
Back-Up Rings

©2012 Dichtomatik Americas
TM is a trademark of Dichtomatik Americas LP
SEALS

WE ARE

SEALS.

BETTER SEALS: BETTER SUPPORT.

It’s not marketing speak or something we aspire to be. Seals are in our DNA. Everything we do is about providing our customers with what they need, when they need it.

We want to be the company you call when you need seals, our customers with what they need, when they need it. It’s not marketing speak or something we aspire to be.

BeTTer S eALS. Be TTer Suppor T.

ADVANTAGES:
• Installs in minutes
• Stainless steel sleeve with a hardness of 950HR
• Fits tightly on shaft
• Original size seal does not change
• 6-30 micro inch sleeve finish
• Precision ground surface
• No machine shaft lead coil to draw contaminants into the protected area or force lubricants out
• Offered for shaft diameters up to 8.000".

Installation is easy:
• Install onto the shaft with the provided installation tool
• Drive the SHAFT-EZE™ over the worn shaft
• Remove the flange
• Install a new seal into the application
• You’re up and running in minutes!

MAXIMIZE YOUR UP TIME WITH SHAFT-EZE™

SHAFT-EZE™ has set a new standard for trouble free re-lubing of shafts. Shaft-Eze’s thin-wall flange slides over the worn shaft in minutes, creating a new shaft finish. With ShaftEze’s precision ground tolerance you still use the original size seal!

AVANTAGES:
• Installs in minutes
• Stainless steel sleeve with a hardness of 950HR
• Fits tightly on shaft
• Original size seal does not change
• 6-30 micro inch sleeve finish
• Precision ground surface
• No machine shaft lead coil to draw contaminants into the protected area or force lubricants out
• Offered for shaft diameters up to 8.000".

Installation is easy:
• Install onto the shaft with the provided installation tool
• Drive the SHAFT-EZE™ over the worn shaft
• Remove the flange
• Install a new seal into the application
• You’re up and running in minutes!

MAXIMIZE YOUR UP TIME WITH SHAFT-EZE™

SHAFT SHAFT WIDTH OVERALL FLANGE INSTALL.

SHAFT-EZE™ has set a new standard for trouble free re-lubing of shafts. Shaft-Eze’s thin-wall flange slides over the worn shaft in minutes, creating a new shaft finish. With ShaftEze’s precision ground tolerance you still use the original size seal!

ADVANTAGES:
• Installs in minutes
• Stainless steel sleeve with a hardness of 950HR
• Fits tightly on shaft
• Original size seal does not change
• 6-30 micro inch sleeve finish
• Precision ground surface
• No machine shaft lead coil to draw contaminants into the protected area or force lubricants out
• Offered for shaft diameters up to 8.000".

Installation is easy:
• Install onto the shaft with the provided installation tool
• Drive the SHAFT-EZE™ over the worn shaft
• Remove the flange
• Install a new seal into the application
• You’re up and running in minutes!

MAXIMIZE YOUR UP TIME WITH SHAFT-EZE™

SHAFT SHAFT WIDTH OVERALL FLANGE INSTALL.

SHAFT-EZE™ has set a new standard for trouble free re-lubing of shafts. Shaft-Eze’s thin-wall flange slides over the worn shaft in minutes, creating a new shaft finish. With ShaftEze’s precision ground tolerance you still use the original size seal!

ADVANTAGES:
• Installs in minutes
• Stainless steel sleeve with a hardness of 950HR
• Fits tightly on shaft
• Original size seal does not change
• 6-30 micro inch sleeve finish
• Precision ground surface
• No machine shaft lead coil to draw contaminants into the protected area or force lubricants out
• Offered for shaft diameters up to 8.000".

Installation is easy:
• Install onto the shaft with the provided installation tool
• Drive the SHAFT-EZE™ over the worn shaft
• Remove the flange
• Install a new seal into the application
• You’re up and running in minutes!
## Installation

1. Clean the worn shaft and remove any burrs.
2. Measure the shaft diameter in three locations and determine the average diameter. Select a Shaft-Eze for which the average diameter falls within the specified shaft range for that sleeve. (See Figure A).
3. Place the Shaft-Eze squarely onto the sleeve. (See Figure B).
4. Place the Shaft-Eze installation tool over the Sleeve and press down. (See Figure B).
5. Hammer gently on the installation tool until the worn area is covered by the Shaft-Eze. (See Figure C).
6. If necessary, the flange on the Shaft-Eze can be removed after installation. Using a pair of side cutters cut all the way around the sleeve groove line. Fold the flange back and forth until flange breaks off. (See Figure D)

### CAUTION
Do not pull on flange as it may cause damage to the sleeve.

7. Check the repair area and Shaft-Eze for any burrs that may harm the seal during installation.
8. Lubricate the Shaft-Eze prior to installing the seal.
9. Proceed with installing a seal onto the shaft.
<table>
<thead>
<tr>
<th>PART #</th>
<th>MIN (IN.)</th>
<th>MAX (IN.)</th>
<th>FLANGE (IN.)</th>
<th>INSTALL. (IN.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>99163</td>
<td>1.614</td>
<td>1.608</td>
<td>0.500</td>
<td>0.626</td>
</tr>
<tr>
<td>99182</td>
<td>1.693</td>
<td>1.687</td>
<td>0.500</td>
<td>0.626</td>
</tr>
<tr>
<td>99091</td>
<td>0.910</td>
<td>0.908</td>
<td>0.315</td>
<td>0.437</td>
</tr>
<tr>
<td>99112</td>
<td>1.125</td>
<td>1.123</td>
<td>0.315</td>
<td>0.437</td>
</tr>
<tr>
<td>99167</td>
<td>1.688</td>
<td>1.685</td>
<td>0.315</td>
<td>0.437</td>
</tr>
<tr>
<td>99159</td>
<td>1.569</td>
<td>1.566</td>
<td>0.626</td>
<td>0.752</td>
</tr>
<tr>
<td>99082</td>
<td>0.706</td>
<td>0.704</td>
<td>0.315</td>
<td>0.433</td>
</tr>
<tr>
<td>99147</td>
<td>1.496</td>
<td>1.490</td>
<td>0.512</td>
<td>0.669</td>
</tr>
<tr>
<td>99133</td>
<td>1.375</td>
<td>1.371</td>
<td>0.315</td>
<td>0.437</td>
</tr>
<tr>
<td>99169</td>
<td>1.650</td>
<td>1.647</td>
<td>0.563</td>
<td>0.689</td>
</tr>
<tr>
<td>99165</td>
<td>1.656</td>
<td>1.653</td>
<td>0.551</td>
<td>0.689</td>
</tr>
<tr>
<td>99080</td>
<td>0.781</td>
<td>0.780</td>
<td>0.315</td>
<td>0.437</td>
</tr>
<tr>
<td>99049</td>
<td>0.472</td>
<td>0.469</td>
<td>0.236</td>
<td>0.331</td>
</tr>
<tr>
<td>99094</td>
<td>0.969</td>
<td>0.966</td>
<td>0.188</td>
<td>0.257</td>
</tr>
<tr>
<td>99215</td>
<td>2.735</td>
<td>2.732</td>
<td>0.626</td>
<td>0.752</td>
</tr>
<tr>
<td>99214</td>
<td>2.735</td>
<td>2.732</td>
<td>0.626</td>
<td>0.752</td>
</tr>
<tr>
<td>99213</td>
<td>2.735</td>
<td>2.732</td>
<td>0.626</td>
<td>0.752</td>
</tr>
<tr>
<td>99212</td>
<td>2.735</td>
<td>2.732</td>
<td>0.626</td>
<td>0.752</td>
</tr>
<tr>
<td>99211</td>
<td>2.735</td>
<td>2.732</td>
<td>0.626</td>
<td>0.752</td>
</tr>
<tr>
<td>99210</td>
<td>2.735</td>
<td>2.732</td>
<td>0.626</td>
<td>0.752</td>
</tr>
<tr>
<td>99209</td>
<td>2.735</td>
<td>2.732</td>
<td>0.626</td>
<td>0.752</td>
</tr>
<tr>
<td>99208</td>
<td>2.735</td>
<td>2.732</td>
<td>0.626</td>
<td>0.752</td>
</tr>
<tr>
<td>99207</td>
<td>2.735</td>
<td>2.732</td>
<td>0.626</td>
<td>0.752</td>
</tr>
<tr>
<td>99206</td>
<td>2.735</td>
<td>2.732</td>
<td>0.626</td>
<td>0.752</td>
</tr>
</tbody>
</table>
### SHAFT-EZE™ INSTALLATION

1. Clean the worn shaft and remove any burrs.
2. Measure the shaft diameter in three locations and determine the average diameter. Select a Shaft-Eze for which the average diameter falls within the shaft range for that sleeve. (See Figure A).
3. Place the Shaft-Eze squarely onto the end of the shaft.
4. Place the Shaft-Eze installation tool over the Shaft-Eze sleeve. If the tool supplied with the sleeve is too short, a pipe or tube can be used as an installation tool. (See Figure B)
5. Hammer gently on the installation tool until the worn area is covered by the Shaft-Eze. (See Figure C)
6. If necessary, the flange on the Shaft-Eze can be removed after installation. Using a pair of side cutters cut all the way around the sleeve along the groove line. Fold the flange back and forth until it breaks apart. Using a hammer gently on the installation tool until the flange breaks off. (See Figure D)

### CAUTION: Do not pull on flange as it may cause damage to the sleeve.

7. Check the repair area and Shaft-Eze for any burrs that may harm the seal during installation.
8. Lubricate the Shaft-Eze prior to installing the seal.
9. Proceed with installing a seal onto the Shaft-Eze.
WE ARE SEALS.

BETTER SEALS: BETTER SUPPORT.

It’s not marketing speak or something we aspire to be.
Seals are in our DNA. Everything we do is about providing our customers with what they need, when they need it. We want to be the company you call when you need seals, and it starts with making sure promises are kept and the job gets done.

We are seals. Plain and simple.

MAXIMIZE YOUR UP TIME WITH SHAFT-EZE™ SHAFT SLEEVES

SHAFT-EZE™ has set a new standard for trouble free re-sleeving of shafts. Shaft-Eze’s thin-wall flange slides over the worn shaft in minutes, creating a new shaft finish. With ShaftEze’s precision ground tolerance you still use the original size seal!

ADVANTAGES:

• Installs in minutes
• Stainless steel sleeve with a hardness of 95HR
• Fits tightly on shaft
• Original size seal does not change
• 6-30 micro inch sleeve finish
• Precision ground surface
• No machine shaft lead coil to draw contaminants into the protected area or force lubricants out
• Offered for shaft diameters up to 8.000"

Installation is easy:

• Install onto the shaft with the provided installation tool
• Drive the SHAFT-EZE™ over the worn shaft
• Remove the flange
• Install a new seal into the application
• You’re up and running in minutes!

MAXIMIZE YOUR UP TIME WITH SHAFT-EZE™ SHAFT SLEEVES
Dichtomatik Americas – USA
1087 Park Place
Shakopee, MN 55379
Tel 800 328 2840
Fax 952 894 1588
34 Zaca Lane
San Luis Obispo, CA 93401
Tel 805 546 9600
Fax 805 546 0234
14445 Heathcove Forest Parkway
Houston, TX 77032
Tel 800 257 1151
Fax 800 682 9103
www.dichtomatik.us

Dichtomatik Americas – Canada
950 Despins Street #21
Markham, Ontario, Canada L3R 3K5
Tel 905 470 2266
Fax 905 470 2055
www.dichtomatik.ca

Dichtomatik Americas – Mexico
Av de las Misiones 3, S
Fracc. Industrial Bernardo Quintera
72246 El Marques, Qro.
Tel 52 442 221 6303
Fax 52 442 221 6327
www.dichtomatikmex.com

Dichtomatik Americas – Brazil
Av Pirapora, 411
Vila Oriental, Diadema - SP
Cep 09950-902
Tel 55 11 4072 8023
Fax 55 11 4072 2792
www.dichtomatikbrasil.com.br

Dichtomatik Americas Products
Radial Shaft Seals
Oil Seals
GreasSe Seals
Medium Duty Oil Bath Seals
AP Excluder Seals
Axial Face Seals
Vibrations
Hage Stem Seals
End Caps
Shaft-Eze™ Shaft Sleeves
Pressure Seals

Fluid Power Seals
Nupac Seals - O-Rings Energized U-Cups
Tee Seals
Polyurethane U-Cups
MA25 Symmetrical U-Cup
MA26 Double Rod Seal
MA26 Asymmetrical Piston Seal
NBR U-Cups
Angis 26 Series
8060/8500 Series
Pipe Seals
Wear Rings
Rope Wipers – A, D, H, Metal Clad
Back-Up Rings

Spliced Rings and Extruded Cord
Spliced O-Rings, Precision Vulcanized Extruded Cord in Various Compounds and Cross-Sections
Splicing Kits

Fitting and Fastener Seals
Thread Seals
Fastener Seals
Bonded Seals

Custom Molded Rubber
Rubber Only
Rubber to Metal Bonded
Unique Shapes and Materials to Your Specifications

O-Rings
All AS568 Sizes in Stock, Including
NBR 70 and 90
FKM 75 Black and Brown
FKM 80
EP 70
Silicone 70
Metric O-Rings
Select Sizes of
PTFE-Encapsulated FKM and Silicone
Polyurethane
Solid PTFE
Wide Variety of Materials Available
O-Ring Kits
Wearing Rings
Dowels

We Are
Seals |
Shaft-Eze™ Shaft Sleeves

Shaft-Eze™ Shaft Sleeves