

Shaft Seal Kits

Catalog Numbers VPL-SSN, VPF-SSN, MPL-SSN, MPF-SST, MPS-SST, TL-SSN

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About Shaft Seals

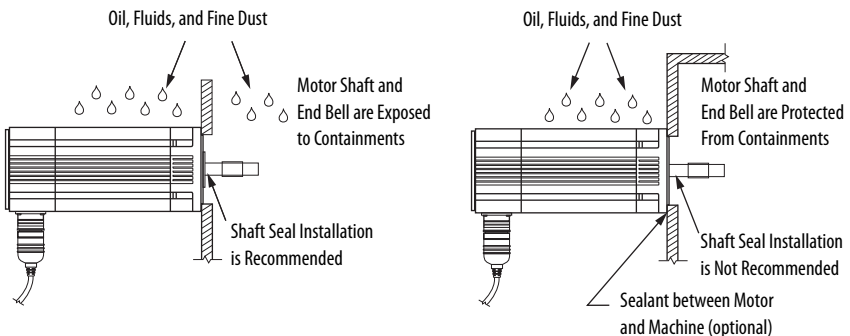
A shaft seal is recommended if the motor shaft and end bell are exposed to significant amounts of contaminants, such as oil, fluids, or fine dust. Use a shaft seal in these environments to prolong the life of the motor. A shaft seal and Bulletin 2090 cables with environmentally sealed connectors are required for an IP66 rating or greater.

See Kinetix® Motion Accessories Specifications Technical Data, publication [GMC-TD004](#), to find Bulletin 2090 cables with environmentally sealed connectors for your motor.

IMPORTANT The shaft seal is not recommended in applications where the motor shaft and end bell are free of oil, fluids, or fine dust, and a lower IP rating is sufficient.

Shaft seals are subject to wear and require periodic inspection and replacement. Replacement is recommended every 3 months, not to exceed 12 months, depending on use.

If you paint the motor, do not get paint on the shaft seal area or the shaft. This can decrease the life of the shaft seal.



Required Tools

Use these tools to install a shaft seal:

- Rubber/wooden mallet, or a metal hammer and wooden work piece
- Socket, pipe, or tubing (various sizes)
- Abrasive cloth (to remove any nicks or burrs from the motor shaft)

Install a Shaft Seal



ATTENTION: To avoid injury or damage to the equipment, remove power from the motor before installing the shaft seal.

Follow these steps to install the shaft seal.

1. Verify that power is removed from the motor.
2. Remove the shaft key (if installed).
3. Remove the old shaft seal (if installed).
4. Remove any dirt or grease from the motor shaft and the area around the front end bell of the motor near the bearing.
5. Use an abrasive cloth to remove any nicks or burrs from the motor shaft.
6. Cover the sharp edges of the keyway with tape to protect the seal lip from damage.
7. Lubricate the inner and outer lip of the shaft seal with the lubricant in the kit.

IMPORTANT Shaft seals must be lubricated. Lubricant is supplied with the shaft seal kits.

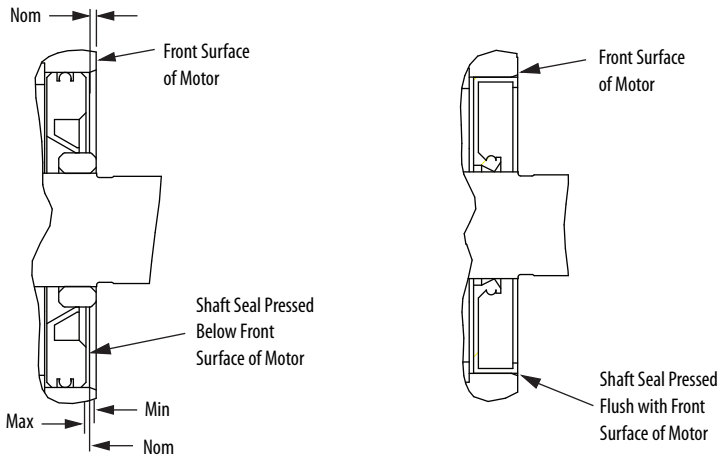
8. Position the shaft seal so that the sealing lip faces outward on the shaft.
9. Slide the shaft seal onto the motor shaft.
10. See [Shaft Seal Installation Clearances on page 3](#) for the correct installation clearance of the shaft seal.
11. Use one of the [Shaft Seal Installation Methods on page 4](#) to gently press the outer diameter of the shaft seal into the motor.

IMPORTANT Verify that the shaft seal is installed to the correct installation clearance.

If the shaft seal is installed too deep, it can be subject to excessive wear and require frequent replacement.

If the shaft seal is installed too shallow, it can reduce the effectiveness of the protective seal.

Shaft Seal Installation Clearances

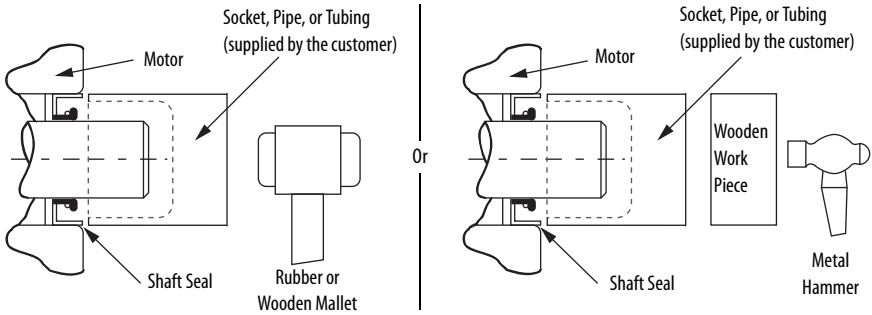


Motor Cat. No.	Shaft Seal Installation Clearance		
	Min, mm (in.)	Nom, mm (in.)	Max, mm (in.)
VPL-A/Bxxx	Press the shaft seal so that the seal is flush or below the front surface of the motor.		
VPF-A/Bxxx	1.40 (0.055)	1.50 (0.060)	1.65 (0.065)
VPS-Bxxx			
MPL-A/B15xx	1.50 (0.060)	2.00 (0.080)	3.00 (0.120)
MPL-A/B2xx			
All other MPL-A/Bxxx	Press the shaft seal so that the seal is flush or below the front surface of the motor.		
MPF-A/Bxxx	1.40 (0.055)	1.50 (0.060)	1.65 (0.065)
MPS-A/Bxxx			
MPM-xxxx	Press the shaft seal so that the seal is flush or below the front surface of the motor.		
MDF-SBxxx	1.40 (0.055)	1.50 (0.060)	1.65 (0.065)
TL-Series	Press the shaft seal so that the seal is flush or below the front surface of the motor.		

Shaft Seal Installation Methods

This section shows the recommended installation methods for the shaft seals.

IMPORTANT Do not hammer directly on the shaft seal. Gently tap the socket, pipe, or tubing evenly around the outer edge of the shaft seal until the shaft seal is pressed into place.



Shaft Seal Kit Catalog Numbers

IMPORTANT Third-party shaft seals are not approved for use with these motors. The use of third-party shaft seals voids any implied or expressed warranties.

Kinetix VP Low Inertia Motors

Motor Cat. No.	Shaft Seal Kit Cat. No.
VPL-A063xx and VPL-B063xx	VPL-SSN-F063075
VPL-A075xx and VPL-B075xx	
VPL-A100xx and VPL-B100xx	MPL-SSN-A3B3
VPL-A115xx and VPL-B115xx	MPL-SSN-A4B4
VPL-A130xx and VPL-B130xx	MPL-SSN-A5B5
VPL-B165xx	MPL-SSN-F165

Kinetix VP Food Grade Motors

Motor Cat. No.	Shaft Seal Kit Cat. No.
VPF-A063xx and VPF-B063xx	VPF-SSN-F063075
VPF-A075xx and VPF-B075xx	
VPF-A100xx and VPF-B100xx	MPF-SST-A3B3
VPF-A115xx and VPF-B115xx	MPF-SST-A4B4
VPF-A130xx and VPF-B130xx	MPF-SST-A45B45
VPF-B165xx	MPF-SST-F165

Kinetix VP Stainless Steel Motors

Motor Cat. No.	Shaft Seal Kit Cat. No.
VPS-B1304D	MPS-SST-A45B45
VPS-B1653D	MPS-SST-F165

MP-Series Low Inertia Motors

Motor Cat. No.	Shaft Seal Kit Cat. No.
MPL-A15xx and MPL-B15xx	MPL-SSN-F63F75
MPL-A2xx and MPL-B2xx	
MPL-A3xx and MPL-B3xx	MPL-SSN-A3B3
MPL-A4xx and MPL-B4xx	MPL-SSN-A4B4
MPL-A45xx and MPL-B45xx	MPL-SSN-A5B5
MPL-A520 and MPL-B520 MPL-A540 and MPL-B540 MPL-A560 and MPL-B560	MPL-SSN-F165
MPL-B580	MPL-SSN-F165-32MM
MPL-B6xx	MPL-SSN-A6B6
MPL-B8xx	MPL-SSN-A8B8
MPL-B9xx	MPL-SSN-A9B9

MP-Series Food Grade Motors

Motor Cat. No.	Shaft Seal Kit Cat. No.
MPF-A3xx and MPF-B3xx	MPF-SST-A3B3
MPF-A4xx and MPF-B4xx	MPF-SST-A4B4
MPF-A45xx and MPF-B45xx	MPF-SST-A45B45
MPF-A5xx and MPF-B5xx	MPF-SST-F165

MP-Series Stainless Steel Motors

Motor Cat. No.	Shaft Seal Kit Cat. No.
MPS-A3xx and MPS-B3xx	MPS-SST-A3B3
MPS-A45xx and MPS-B45xx	MPS-SST-A45B45
MPS-B5xx	MPS-SST-F165

MP-Series Medium Inertia Motors

Motor Cat. No.	Shaft Seal Kit Cat. No.
MPM-A115xx and MPM-B115xx	MPL-SSN-A4B4
MPM-A130xx and MPM-B130xx	MPL-SSN-A5B5
MPM-A165xx and MPM-B165xx	MPL-SSN-F165
MPM-A215xx and MPM-B215xx	MPL-SSN-A6B6

Kinetix 6000M Integrated Drive-Motor

Motor Cat. No.	Shaft Seal Kit Cat. No.
MDF-SB1003	MPF-SST-A3B3
MDF-SB1153	MPF-SST-A4B4
MDF-SB1304	MPF-SST-A45B45

TL-Series Motors

Motor Cat. No.	Shaft Seal Kit Cat. No.
TLY-A1xx and TL-A1xx	TL-SSN-1
TLY-A2xx and TL-A2xx	TL-SSN-2
TLY-A25xx and TL-A25xx	TL-SSN-3
TLY-A3xx	
TL-A4xx	TL-SSN-4

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
Kinetix Motion Control Selection Guide, publication GMC-5G001	Overview of Kinetix servo drives, motors, actuators, and motion accessories designed to help make initial decisions for the motion control products best suited for your system requirements.
Kinetix Rotary Motion Specifications, publication GMC-TD001	Product specifications for Kinetix VP (Bulletin VPL, VPF, VPS), MP-Series™ (Bulletin MPL, MPM, MPF, MPS), Kinetix 6000M (Bulletin MDF), TL-Series™, RDD-Series™, and HPK-Series™ rotary motors.
Kinetix Motion Accessories Specifications, publication GMC-TD004	Product specifications for Bulletin 2090 motor and interface cables, low-profile connector kits, drive power components, and other servo drive accessory items.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, http://www.ab.com	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at <http://www.rockwellautomation.com/literature/>. To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.

Notes:

Rockwell Automation Support

Rockwell Automation provides technical information on the Web to assist you in using its products.

At <http://www.rockwellautomation.com/support> you can find technical and application notes, sample code, and links to software service packs. You can also visit our Support Center at <https://rockwellautomation.custhelp.com/> for software updates, support chats and forums, technical information, FAQs, and to sign up for product notification updates.

In addition, we offer multiple support programs for installation, configuration, and troubleshooting. For more information, contact your local distributor or Rockwell Automation representative, or visit <http://www.rockwellautomation.com/services/online-phone>.

Installation Assistance

If you experience a problem within the first 24 hours of installation, please review the information that's contained in this manual. You can also contact a special Customer Support number for initial help in getting your product up and running.

United States or Canada	1.440.646.3434
Outside United States or Canada	Use the Worldwide Locator at http://www.rockwellautomation.com/rockwellautomation/support/overview_page , or contact your local Rockwell Automation representative.

New Product Satisfaction Return

Rockwell Automation tests all of its products to help ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned, follow these procedures.

United States	Contact your distributor. You must provide a Customer Support case number (call the phone number above to obtain one) to your distributor to complete the return process.
Outside United States	Please contact your local Rockwell Automation representative for the return procedure.

Documentation Feedback

Your comments will help us serve your documentation needs better. If you have any suggestions on how to improve this document, complete this form, publication [RA-DU002](#), available at <http://www.rockwellautomation.com/literature/>.

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