USER SAFETY RESPONSIBILITY STATEMENT FOR ALL PARKER PRODUCTS

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

- This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.
- The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.



MANUFACTURED BY PARKER - PGI DIVISION

March 2014

Form FVC058 Rev 03

Installation & Repair Instructions for AL107, Al109 & Al111 RotaSeal Swivels

IMPORTANT: KEEP THIS DOCUMENT WITH THE PRODUCT UNTIL IT REACHES THE END USER.

WARNING!

- Contact with or inhalation of Liquid Anhydrous Ammonia (NH₃) can cause SERIOUS INJURY OR DEATH.
- 2. Before installation or removal of RotaSeal Swivels, the system must be purged of all product.
- 3. Personal Protective Equipment (PPE), safety gloves, goggles and clothing should be worn.
- 4. For proper handling and storage of NH₃, refer to ANSI Standard K61.1.
- 5. For LP-Gas Service, follow **NFPA / ANSI 58 Standard** for the Storage and Handling of Liquefied Petroleum Gases, plus any and all Local and State Safety Regulations.
- An abundant supply of fresh water should be available to provide immediate first aid treatment for exposure to NH₃.
- 7. To ensure long term safe operation, the manufacturer recommends that under normal service conditions this product should be inspected at least once every year and be repaired or replaced as required.

USE PROPER SAFETY EQUIPMENT AT ALL TIMES, PURGE THE SYSTEM COMPLETELY OF ALL PRODUCT.

TOOLS REQUIRED

Safety Equipment (i.e. gloves, goggles, and clothing), 3/32" Allen Wrench, 12" Crescent® Wrench, 14" Pipe

NOTE: The AL107, AL109 and AL111 are **WARRANTED** to be free from defects in material and/or workmanship and seal leaks for a period of two (2) years from the date stamped on the unit. This **WARRANTY** is valid only if the product has been used in normal propane or anhydrous ammonia operations. Should your RotaSeal leak during the Warranty Period, return it to any authorized distributor for replacement. If the warranty has expired, a seal kit may be purchased and the RotaSeal repaired as explained below.

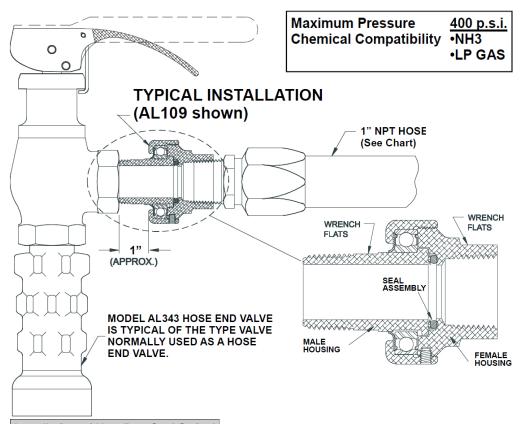
Model Number	Seal Kit Number	Inlet/Outlet Size
AL107	109-0022	3/4" MNPT x 3/4" FNPT
AL109	109-0022	1" MNPT x 1" FNPT
AL111	111-0022	1-1/4" MNPT x 1-1/4" FNPT

Seal Kit includes Seal Assembly, Lubricant & Set Screw.

While this information is presented in good faith and believed to be accurate, Individuals using this literature must exercise their independent judgment in evaluating product selection and determining product appropriateness for their particular purpose, system requirements and certifications. The manufacturer reserves the right to change product designs and specifications without notice.

While this information is presented in good faith and believed to be accurate, Individuals using this literature must exercise their independent judgment in evaluating product selection and determining product appropriateness for their particular purpose, system requirements and certifications. The manufacturer reserves the right to change product designs and specifications without notice.

Form FVC 058-Rev 03 GEARS 45362 4 of 4 Form FVC 058-Rev 03 GEARS 45362 1 of 4



Installation of New RotaSeal Swivel

Note: Safety Equipment (i.e. gloves, goggles, and clothing) must be worn before continuing with the next step.

Step 1: Apply PTFE tape or other thread sealant on the male pipe threads of the Male Housing. Avoid excessive use of thread sealant.

Step 2: Install the Male Housing to the hose end valve. Place the 12" Crescent® wrench on the wrench flats on the Male Housing to tighten. Do not overtighten.



- Step 3: Apply PTFE tape or other thread sealant to the 1" NPT that will be mated with the Female Housing. Avoid excessive use of thread sealant.
- Step 4: Install the 1" NPT hose to the Female Housing. Hold the RotaSeal from turning with the 14" pipe wrench and place the 12" Crescent® wrench on the hose fitting to tighten. Do not overtighten.

While this information is presented in good faith and believed to be accurate, Individuals using this literature must exercise their independent judgment in evaluating product selection and determining product appropriateness for their particular purpose, system requirements and certifications. The manufacturer reserves the right to change product designs and specifications without notice.

Replacing the Seal Assembly

Note: Safety Equipment (i.e. gloves, goggles, and clothing) must be worn before continuing with the next step.

Step 1: Before performing maintenance on the RotaSeal Swivel, ensure that all pressure is bled from the system.

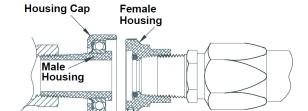
Step 2: Mark the Housing Cap and the Female Housing with a permanent marker, as shown below. These marks will be used to re-align the components during re-assembly.



Step 3: Using a 3/32" Allen wrench, remove the Set Screw COMPLETELY from the Housing Cap.

Step 4: Remove the Female Housing by loosening the Housing Cap with the 14" Pipe Wrench.

DO NOT REMOVE ANTI-SEIZE COMPOUND FROM THREADS.

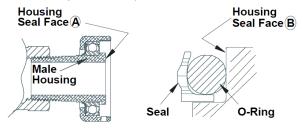


Locking Set Screw

Step 5: Remove the Seal and O-Ring from the Female Housing.



Step 6: Wipe debris from Housing Seal face A and B. Inspect seal face A. If surface A is not smooth, the RotaSeal assembly should be replaced.



- Step 7: Lightly lubricate the replacement O-Ring only with Dow 111 lubricant (provided when Seal Kit is ordered)
- Step 8: Place the new Seal and O-Ring in the Female Housing, as depicted in step 5.
- Step 9: Re-install the Female Housing to the Housing Cap.
- **Note:** When the Housing Cap is tightened to approximately 60 ft. lbs., the marks on the two components should be re-aligned and the Set Screw may be re-installed.
- Step 10: Reinstall the Set Screw and test pressurize the system.

While this information is presented in good faith and believed to be accurate, Individuals using this literature must exercise their independent judgment in evaluating product selection and determining product appropriateness for their particular purpose, system requirements and certifications. The manufacturer reserves the right to change product designs and specifications without notice.

Form FVC 058-Rev 03 GEARS 45362 2 of 4 Form FVC 058-Rev 03 GEARS 45362 3 of 4