



## 4150 Series O-Rings

The 4150 series of o-rings has larger cross-sections for improved static sealing. Historically, o-rings designed for static applications but used in dynamic-type glands such as MIL-G-5514 or AS4716 have experienced sealing leakage challenges under certain circumstances. To help combat this issue, new static gland standards such as AS5857 feature decreased packing space. This allows standard o-rings to exhibit higher levels of squeeze and helps to reduce sealing problems.

Alternatively, the larger cross-sections of our 4150 o-rings are specifically designed to impose optimal levels of “high” squeeze in the existing dynamic gland standards of AS4716 and MIL-G-5514.

## Cost-Effective Solutions

O-rings are one of the oldest and most widely used styles of seal geometries in the Aerospace industry today. This uncomplicated design provides a suitable, cost-effective solution to a variety of sealing applications. O-rings can be used either as a seal itself or as the energizing element in a variety of PTFE, cap-type seals. Greene Tweed’s extensive seal experience and superior quality is reflected in our ability to manufacture o-rings made from high-performance, elastomeric materials. A variety of expressly formulated compounds are available to meet our customers’ specific application requirements.

## Features and Benefits

- » Simplistic, cost-effective geometry
- » Wide range of sizes available for AS4716 and MIL-G-5514 gland configurations

## Applications

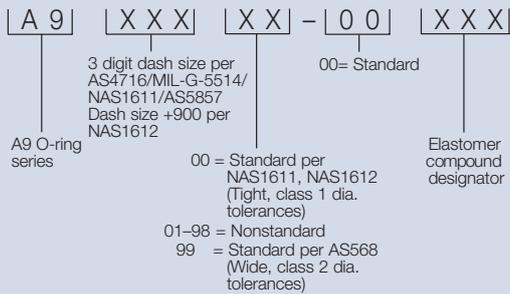
- » Fuel systems
- » Control valves
- » Utility actuators
- » Energizers for PTFE cap seals

## A9 Series O-Rings

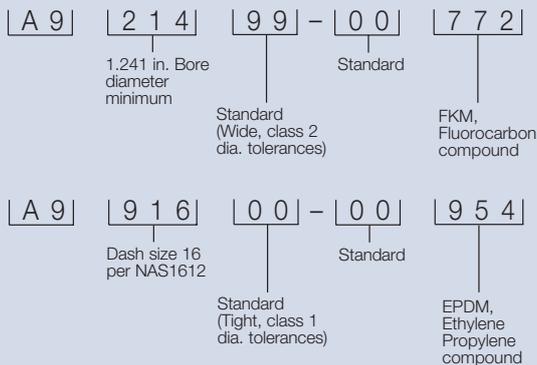
This series of o-rings is designed to meet the dimensional requirements for several of the industry’s o-ring standards, such as AS568, AS28775, AS28778, NAS1611, and NAS1612.

## A9 O-Ring Series Part Numbering System

The part numbering system requires the use of the material designator table found below. For nonstandard designs, contact Greene Tweed engineering.



### Part Numbering Examples

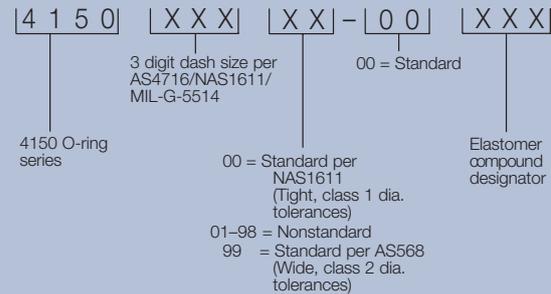


### Material Designator Table

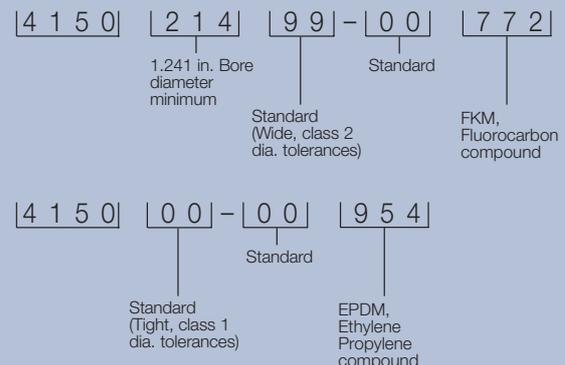
Code	Elastomer Compound
160	NBR, Nitrile
161	NBR, Nitrile
409	FVMQ, Fluorosilicone
410	FVMQ, Fluorosilicone
731	FKM, Fluorocarbon
772	FKM, Fluorocarbon
952	EPM, Ethylene Propylene
954	EPDM, Ethylene Propylene
964	NBR, Nitrile
965	HNBR, Hydrogenated Nitrile
987	NBR, Nitrile

## 4150 Static O-Ring Series Part Numbering System

The part numbering system requires the use of the material designator table found in the previous column. For nonstandard designs, contact Greene Tweed engineering.



### Part Numbering Examples



Note: Anti-extrusion, back-up rings are normally recommended for use in conjunction with O-rings for operating pressures at or above 1,500 psi. We offer a number of back-up ring styles, each of which can be supplied in accordance to any of the various Aerospace industry standards utilized today. Please see the "Back-up Ring" catalog datasheet or contact Greene Tweed engineering for specific information.

Contact KLINGER for specific recommendations to suit higher performance requirements.

Statements and recommendations in this publication are based on our experience and knowledge of typical applications of this product and shall not constitute a guarantee of performance nor modify or alter our standard warranty applicable to such products.

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