



ENERLIP® & ENERLIP HP

Versatile Seal for High and Low Pressures

LOW BREAKAWAY FRICTION, PRESSURE-VARIABLE SEALS

The Greene, Tweed Enerlip® and Enerlip HP are high-performance, low leakage, pressure-variable seals developed to combine low breakaway friction with ease of installation.

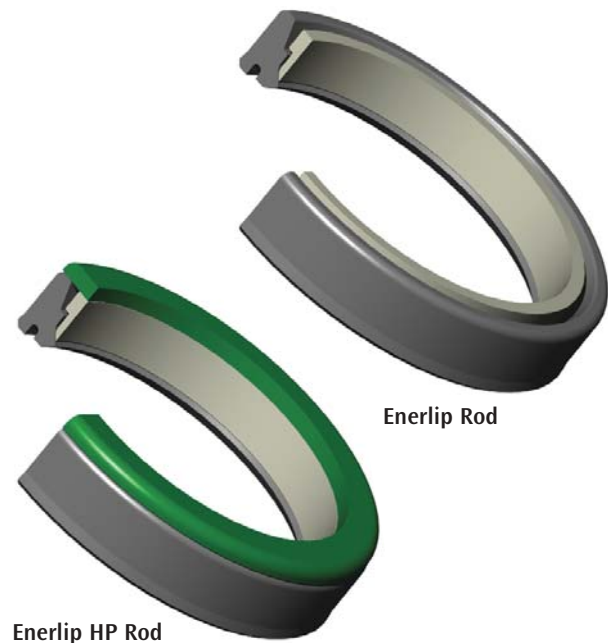
The unidirectional seal consists of a specially shaped elastomeric energizer with a mating PTFE-type heel bearing. At low pressure the Enerlip functions as a partially capped, single-acting elastomer lip seal. The elastomeric element's wide footprint provides excellent sealing capability. As pressure increases, the elastomeric element is forced up the ramp of the PTFE element, reducing the elastomeric footprint length to provide lower friction and wear. At high pressure the Enerlip acts as an activated PTFE seal, with optimum sealing action at pressures from 0 to 8,000 psi (0 to 550 bar).

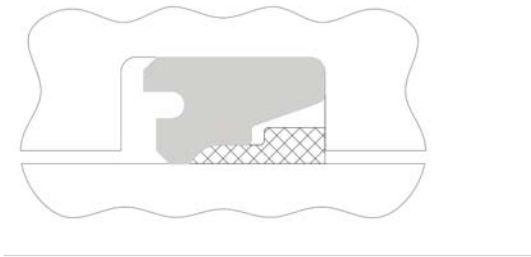
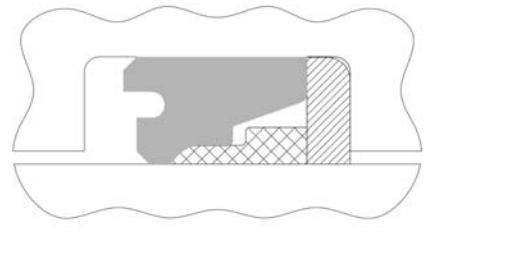
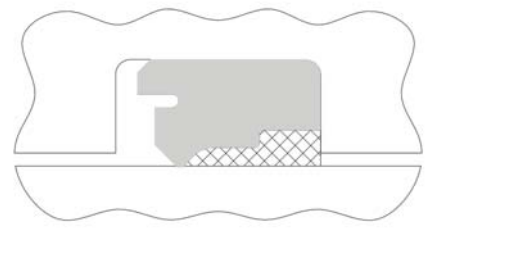
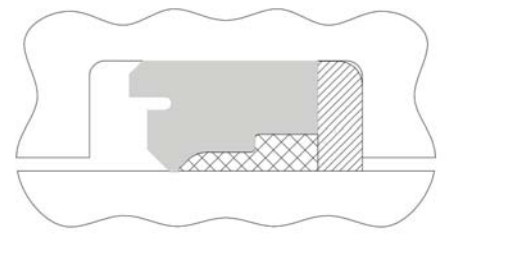
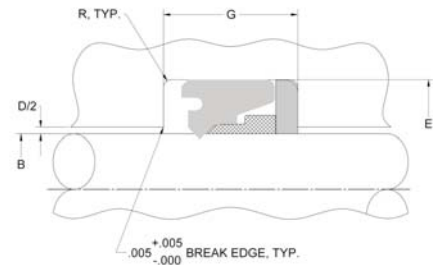
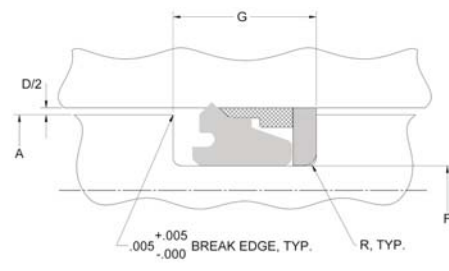
FEATURES & BENEFITS

- The elastomeric footprint is reduced as the elastomeric element is forced up the PTFE ramp, providing lower friction and wear
- The wiping action of the elastomeric element provides effective leakage control compared to conventional cap seals
- Functions as a pressure-actuated cap capable of withstanding high pressures
- Functions as a partially capped, single-acting, elastomeric lip seal capable of withstanding low pressures
- Provides for optimized sealing across the pressure range leading to resistance to wear and extrusion
- Unidirectional design ensures no pressure entrapment when used in tandem seal arrangements

APPLICATIONS

- Tandem seal design applications found in utility and landing gear actuation systems
- Primary and secondary flight control systems



Enerlip®—Low Pressure Applied**Enerlip HP—Low Pressure Applied****Enerlip—High Pressure Applied****Enerlip HP—High Pressure Applied****ENERLIP CONFIGURATION****Gland Dimensions****Rod****Piston****ENERLIP DESIGN**

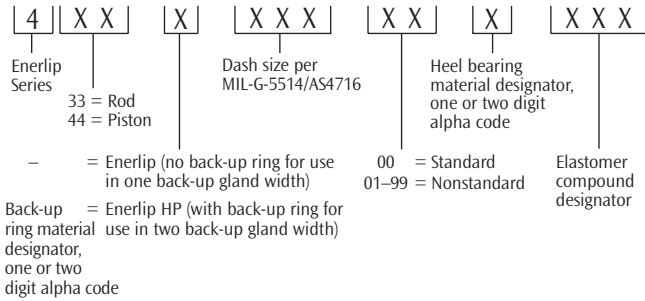
Working as either a primary seal or as a secondary seal to a primary PTFE-type seal, the Enerlip seal provides low breakaway friction, reduced leakage and ease of installation. The Enerlip seal consists of a shaped elastomeric energizer with a mating PTFE-type heel bearing. The Enerlip HP has an additional anti-extrusion ring.

ENERLIP OPTIONS

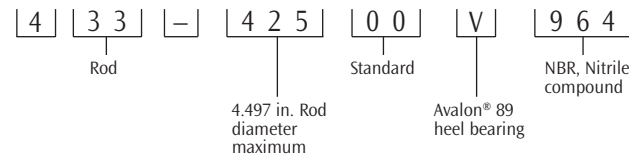
The Enerlip is available for both rod and piston sealing: one back-up gland width for Enerlip, two back-up gland widths for Enerlip HP. It can be installed as the primary seal or as the secondary seal to a primary PTFE-type seal such as the Greene, Tweed's capped ACGTL™ ring or the Ener-Cap® HP in dual sealing (vented or unvented) systems.

ENERLIP® PART NUMBERING SYSTEM

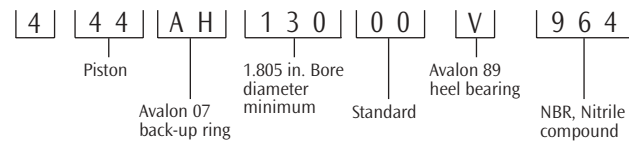
The part numbering system requires the use of the material designator tables found in the next column. For nonstandard designs contact GT engineering.



Part Numbering Example: Enerlip for one back-up gland width



Part Numbering Example: Enerlip HP for two back-up gland width



Contact your local Greene, Tweed representative for specific recommendations to suit higher performance requirements.

Material Designator

CODE	ELASTOMER COMPOUND
160	NBR, Nitrile
161	NBR, Nitrile
410	FVMQ, Fluorosilicone
772	FKM, Fluorocarbon
952	EPM, Ethylene Propylene
954	EPDM, Ethylene Propylene
964	NBR, Nitrile

CODE	HEEL BEARING MATERIAL
Q	Avalon 07
B	Avalon 09
AA	Avalon 44
AF	Avalon 50
AG	Avalon 57
AC	Avalon 69
V	Avalon 89

CODE	BACK-UP MATERIAL
AH	Avalon 07
C	Avalon 09
AB	Avalon 44
AJ	Avalon 57
AE	Avalon 69
AP	Avalon 89
A	NWR
AD	Arlon® 1330
AU	Arlon 1555

Note: All back-up rings are scarf cut. For solid back-up rings contact GT engineering.

See GT Surface Finish guidelines.



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