

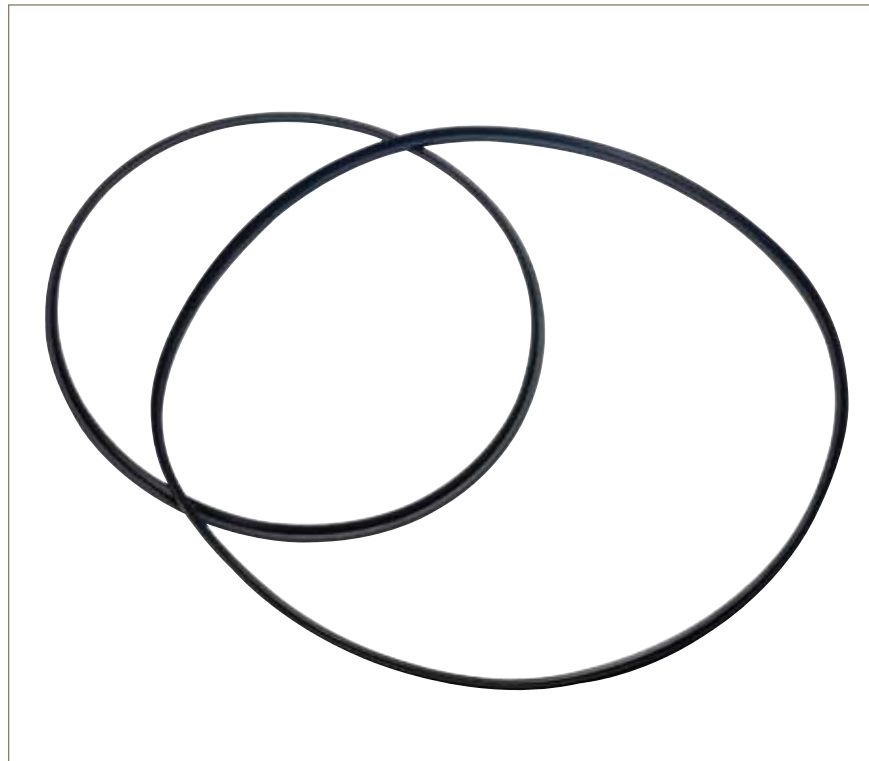
# Transmission Lip Seals

Maximized Seal Force with  
Minimal Drag



The Integrated Sealing Solutions' molded lip seals are cost effective seals, designed to maximize seal force while providing outstanding drag characteristics in dynamic applications. The customized seal shape and proven molded technology provides an outstanding static or dynamic seal, as required in your application. Our lip seal designs conform to cylinder wall irregularities and provide more sealing surface than a standard seal. Typical sizes range from 0.750 to 25 inches in diameter.

We offer a large selection of standard materials, and we can formulate custom materials to meet your specific needs.



## Contact Information:

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## Product Features:

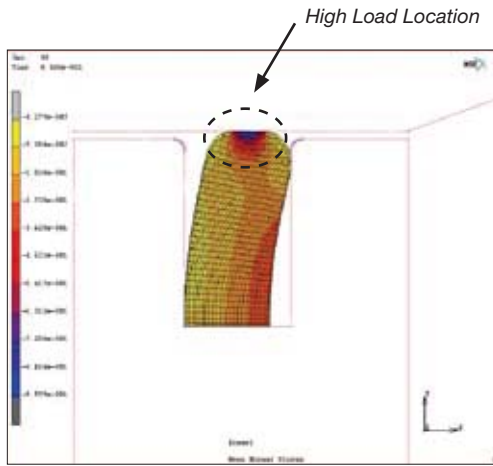
- Easy installation
- Low drag
- Customized cross-sections
- Conforms to cylinder wall irregularities
- Reduced hydraulic pass-by
- Self energized

## Benefits:

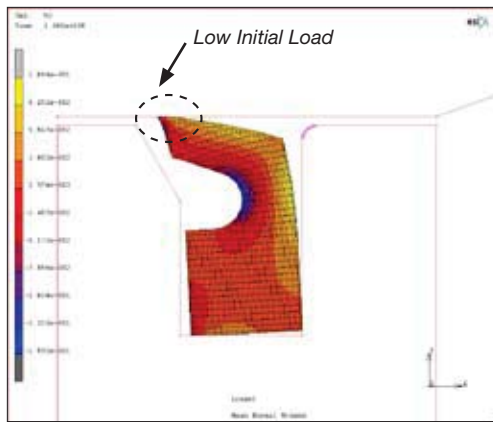
- Low cost
- Minimal tooling cost
- Long tool life
- Proven design

ENGINEERING YOUR SUCCESS.

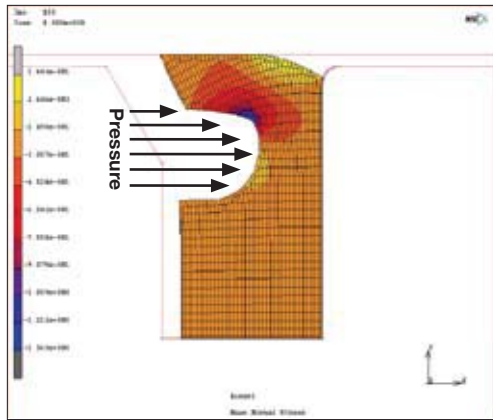
As can be seen from the Finite Element Analysis (FEA) results, a radial lip seal produces about 1/10 of the radial load of a D-ring with the same amount of radial squeeze. In dynamic applications, this gives the lip seal a distinct advantage in allowing the piston to move with lower pressure requirements than might be needed for other seals. Also, lip seals do not have a parting line at the sealing location. Therefore eliminating the application concerns about the quality of the parting line and the amount of frictional drag. O-ring or D-ring do have a distinct advantage in static applications where frictional drag is of no concern.



D-ring after assembly showing load



Lip seal after assembly showing load



Lip seal after pressure applied

**WARNING:**  
 FAILURE ON IMPROPER  
 SELECTION OR IMPROPER USE OF  
 THESE PRODUCTS CAN CAUSE EQUIPMENT  
 FAILURE OR DAMAGE, PERSONAL INJURY OR DEATH.

For safe and trouble-free use of these products, it is important that you read and follow the Parker Seal Group Product Safety Guide. The Safety Guide can be referenced and downloaded free of charge at [www.parkerseal.com](http://www.parkerseal.com). It is also printed in major Seal Group product catalogs, and can be ordered by telephone without charge as Parker Publication No. P55 5004 by calling 1-800-C-PARKER.

