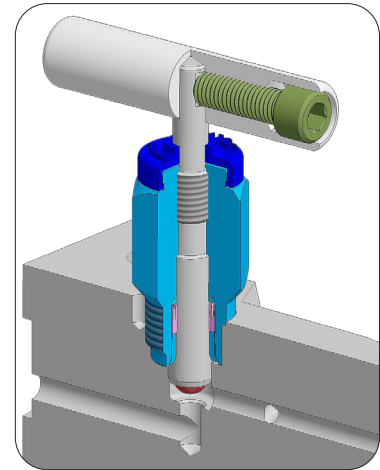


Pressure-Core® Seal

Advanced Stem Seal System

Solutions for Oil, Gas, and Petrochemical Processing



A Superior Design for Better Performance:

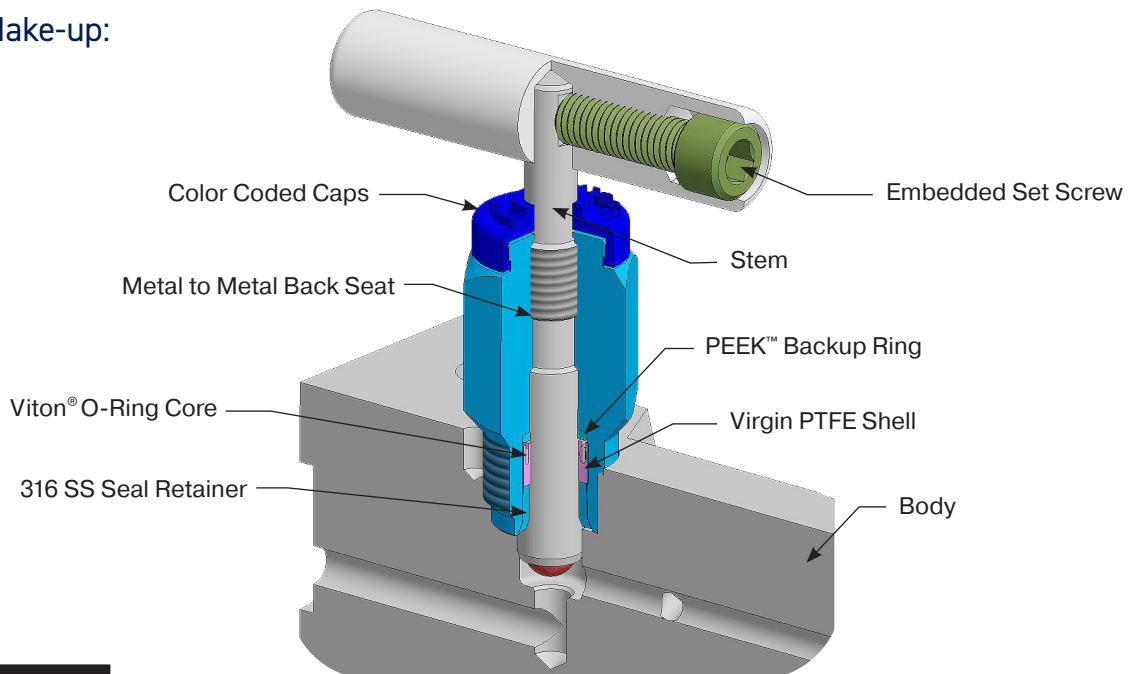
Parker's patented Pressure-Core® Stem Seal System was tested by an independent laboratory in accordance with EPA Method 21, and the results indicate that the Pressure-Core® Stem Seal is a reliable, affordable, virtually leak-free bonnet requiring no costly, time consuming maintenance.

After years of field experience and millions of valves in service, Parker takes great pride in extending a seven-year limited warranty on our Pressure-Core® Stem Seal, far exceeding the industry standard.

Product Features:

- Leak-Free Performance
- Unmatched 7 Year Warranty
- No Adjustments or Maintenance Requirements
- Meets EPA Method 21 requirements

Product Make-up:

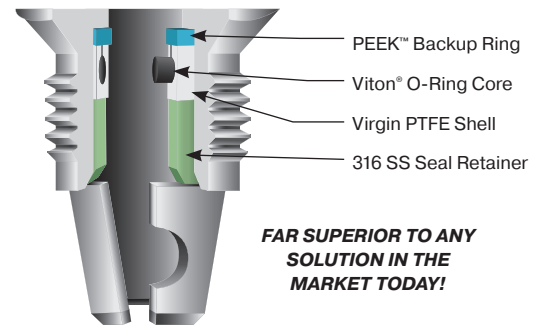


ENGINEERING YOUR SUCCESS.

Pressure-Core® Seal

How we do it!

The Pressure-Core® Seal consists of an outer PTFE shell with an elliptical shaped Viton® O-Ring core. The encapsulated core is “live- loaded” and provides constant outward pressure against the PTFE shell, which flexes under pressure like an O-Ring. The PTFE shell offers the desired chemical resistance without periodic gland tightening as in conventional designs.



Testing Proves it!

Compared to competitive bonnet designs, Parker’s Pressure-Core® Seal offers leak-free performance with no maintenance requirements. To support this claim, the Pressure-Core® Seal was tested against the competitors’ design. The tests simulated harsh plant operating environments and were performed by an independent laboratory in accordance with EPA Method 21. Test results indicate that the Pressure-Core® Seal is a reliable, affordable, virtually leak-free bonnet requiring no costly, time consuming maintenance. Parker stands behind this claim with a seven year warranty, far exceeding the industry standard.

Fugitive Emissions Test Results

See for yourself how our Pressure-Core® not only outperforms the competition, but sets a new industry standard...

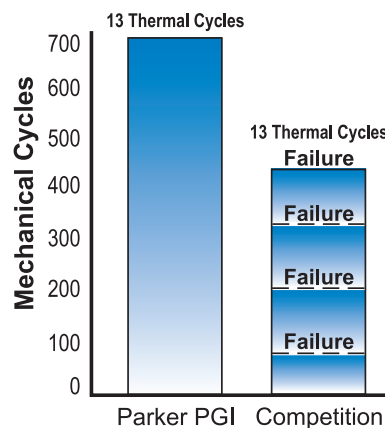
Test Procedures

Valves mechanically cycled 50 times (full open to full close) at 1,000 PSI methane, then heated to 400°F and air cooled to ambient. Procedure repeated until failure.

Failure Criteria

100 PPM leak*

*Competition’s Emission Seal Warranty



Test Results

Parker: The Pressure-Core® Seal successfully completed 694 mechanical cycles and 13 thermal cycles. Maximum leakage throughout testing was 40 PPM.

Competition: The competition’s “low emissions” graphite design failed on the 89th mechanical cycle and on average every 125 cycles throughout the testing. Repeated maintenance was required between each failure to readjust the valve packing.

WARNING

FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS 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 and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met. The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

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