ASP seals are engineered for long life in diesel engine coolant pump service with an easy-to-install, unitized design.

Reliability through advanced technology

Torsional shaft vibration inherent in diesel engine coolant pumps accelerates wear and damage of common seal faces and drive components. Every component of the ASP seal was designed and validated to increase operational performance and simplify installation to reduce warranty costs.

The ASP seal is a stationary O-ring pusher design energized by a wave spring with seal faces directly driven through the shell and sleeve elements. ASP seals are well-suited for applications including on- and off-highway, locomotive, agriculture, mining, marine, GenSet and more.

Features and benefits

- Optimized seal face loading and improved thermal conductivity reduce the effects of seal face-generated heat to increase seal life and dry run capability.
- Improved mechanical drive with robust drive lugs at the OD of the stationary seal face extends seal life in high-torsional vibration applications.
- Increased cross-sections of secondary gaskets improve resistance to elastomer fatigue/tears common in other seal designs.
- Standard O-ring gaskets increase versatility for higher-performance elastomers while reducing cost.
- Easy installation with a metal press-fit and fully unitized design.
Flowserve Corporation has established industry leadership in the design and manufacture of its products. When properly selected, this Flowserve product is designed to perform its intended function safely during its useful life. However, the purchaser or user of Flowserve products should be aware that Flowserve products might be used in numerous applications under a wide variety of industrial service conditions. Although Flowserve can provide general guidelines, it cannot provide specific data and warnings for all possible applications. The purchaser/user must therefore assume the ultimate responsibility for the proper sizing and selection, installation, operation, and maintenance of Flowserve products. The purchaser/user should read and understand the Installation Instructions included with the product, and train its employees and contractors in the safe use of Flowserve products in connection with the specific application.

While the information and specifications contained in this literature are believed to be accurate, they are supplied for informative purposes only and should not be considered certified or as a guarantee of satisfactory results by reliance thereon. Nothing contained herein is to be construed as a warranty or guarantee, express or implied, regarding any matter with respect to this product. Because Flowserve is continually improving and upgrading its product design, the specifications, dimensions and information contained herein are subject to change without notice. Should any question arise concerning these provisions, the purchaser/user should contact Flowserve Corporation at any one of its worldwide operations or offices.

©2019 Flowserve Corporation. All rights reserved. This document contains registered and unregistered trademarks of Flowserve Corporation. Other company, product, or service names may be trademarks or service marks of their respective companies.

---

**Customer-centric approach**

Pac-Seal prides itself on making each customer experience unique. We don’t have a one-size-fits-all product. Instead, we recognize that each customer has specific needs. The combination of years of experience and customer collaboration allows Pac-Seal to create value-driven solutions that are unique to our customers’ specific needs.

**Operating parameters**

- Pressure: to 5 bar (75 psi)
- Temperature: -40°C to 205°C (-40°F to 400°F)
- Speed: to 76 m/s (82 fps)

**Elastomer options**

- NBR
- HNBR
- FKM
- EPDM

**Seal face options**

- Carbon
- Graphite-loaded SiC
- Self-sintered SiC
- Aluminum oxide

**ASP seal dimensional data**

<table>
<thead>
<tr>
<th>D₁</th>
<th>D₂</th>
<th>L₁</th>
<th>L₂</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 mm</td>
<td>30 mm</td>
<td>18.2 mm</td>
<td>10.2 mm</td>
</tr>
<tr>
<td>16 mm</td>
<td>36.5 mm</td>
<td>20.5 mm</td>
<td>12 mm</td>
</tr>
<tr>
<td>0.625 in</td>
<td>1.435 in</td>
<td>0.795 in</td>
<td>0.445 in</td>
</tr>
<tr>
<td>0.750 in</td>
<td>1.575 in</td>
<td>0.795 in</td>
<td>0.445 in</td>
</tr>
<tr>
<td>1.000 in</td>
<td>2.000 in</td>
<td>0.923 in</td>
<td>0.415 in</td>
</tr>
</tbody>
</table>

---

**Headquarters**
Flowserve Corporation
5215 North O’Connor Blvd.
Suite 2300
 Irving, Texas 75039-5421 USA
Telephone: +1 937 890 5839

**USA and Canada**
Kalamazoo, Michigan USA
Telephone: +1 269 381 2650

**Europe, Middle East, Africa**
Roosendaal, The Netherlands
Telephone: +31 165 581400

**Asia Pacific**
Singapore
Telephone: +65 6544 6800

**Latin America**
Mexico City
Telephone: +52 55 5567 7170

FSD275 (E/AQ) June 2019