

# 1004D4 API BOTTOM LOADING COUPLER

opw<sup>®</sup>

Engineered Systems

*Semi-Automatic design makes operation a SNAP!*

The **1004D4** is the next generation in API Bottom Loading Couplers from OPW. By combining ease of maintenance with a unique spring loaded sleeve design, the D4 provides the ultimate coupler experience.

## SAFER

### 5 Cam Design

Ensures easy alignment; tight connection to adaptor & resists side forces while loading

### Fully Interlocked

All 5 cams serve as interlocks ensuring that the D4 cannot be opened unless it is properly connected to an API Adaptor

## CLEANER

### Superior Shaft Sealing

Simple and reliable smart-seal design consisting of dual high-performance O-rings

### High-Performance Seals

Special Fluorocarbon Seal Compound provides compatibility across most products including gasoline, diesel, biodiesel and ethanol.\*

## FASTER

### Maintenance

- Can be completely rebuilt in minutes
- All *pins* and *small threads* have been eliminated to provide quick, easy access to all critical components
- Nose seal can be replaced easily without having to remove coupler from rack
- No special tools required

### Spring-Loaded Sleeve

- “Snap-on” connection for automatic coupling when pressed onto truck adaptor

### Operation

- New stainless steel ‘ergo’ handle design provides easy, smooth operation

1004D4



Patent Pending  
CRN# OH12972-5

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A DOVER COMPANY

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\*Other seals available upon request.

# 1004D4 API BOTTOM LOADING COUPLER

*The Safer, Cleaner, Faster Way To Load Transports*

## DESIGN PARAMETERS

<b>Max Design Pressure:</b>	125 psi (g), 8.6 bar (g)
<b>Max Allowable Working Pressure*:</b>	75 psi (g), 5 bar (g)
<b>Max Flow Rate:</b>	600 GPM, 135 M <sup>3</sup> /h
<b>Temperature Range:</b>	<ul style="list-style-type: none"> <li>• Fluorocarbon -20F to 400F (-29C to 204C)</li> <li>• Buna-N -20F to 250F (-29C to 121C)</li> <li>• EPT -50F to 225F (-46C to 107C)</li> </ul>
<b>Weight:</b>	21 lbs (9.5 kg)
<b>Pressure Drop: (At Max Flow Rate)</b>	2-5 psi (g), .24 bar (g)*

\*Unit tested to 300 psi in closed position to withstand excessive thermal expansion pressures. Reference API standard RP-1004 for additional information.

## SEAL REPLACEMENT KITS

The 1004D4 SRK Seal Replacement Kit includes everything needed to replace all seals in the D4 API Bottom Loading Coupler. Seal replacement kits are always recommended as spare parts.

SEAL MATERIAL:	KIT PART #
Buna-N	1004D4SRK - 0401
Fluorocarbon	1004D4SRK - 0402
EPT	1004D4SRK - 0404

## MATERIALS

<b>Body, Sleeve, Poppet:</b>	Aluminum
<b>Shaft, Cam Arms, Interlocks, Drive Link, Handle:</b>	Stainless Steel
<b>Cylinder:</b>	Aluminum

## SELECTION GUIDE

**1004D4 - 04 02**

Size  
4"

Seal  
01 = Buna-N  
02 = Fluorocarbon  
04 = EPT



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