

API 1004D3 BOTTOM LOADING COUPLER

opw[®]

Engineered Systems

The Safer, Cleaner, Faster Way To Load Your Transports

The **1004D3** is the latest generation in API Bottom Loading Couplers from OPW. A proven performer at major oil terminals around the world, *the D3 incorporates several new features* that will prove to be the most user-friendly coupler on the market.

SAFER

5 Cam Design

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

Fully Interlocked

Dual interlocks ensure that the D3 cannot be opened unless it is properly connected to an API Adaptor

CLEANER

Superior 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

- 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
- Can be completely rebuilt in minutes

Operation

New stainless steel 'ergo' handle design provides easy, smooth operation

*Other seals available upon request.

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Exclusive
2-Year
Warranty



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PART OF OPW FLUID TRANSFER GROUP

A DOVER COMPANY

API 1004D3 BOTTOM LOADING COUPLER

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

DESIGN PARAMETERS

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

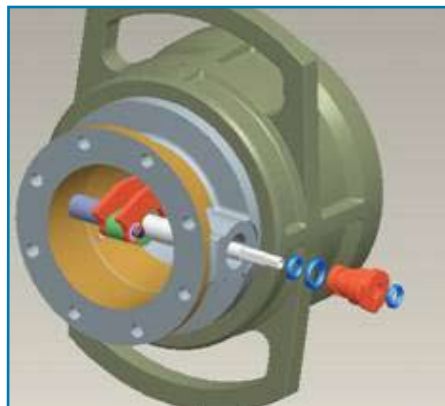
*Unit tested to 300 psi in closed position to withstand excessive thermal expansion pressures. Reference API standard RP-1004 for additional information.

MATERIALS

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

SELECTION GUIDE

1004D3	-	04	02
1004D3	Size	Seal	
Large Handles Only	4"	01 = Buna	
1005E3		02 = Fluorocarbon	
Small Handles		04 = EPT	



- Easy Dis-Assembly
- Easy Seal Replacement

SEAL REPLACEMENT KITS

The 1004D3 SRK Seal Replacement Kit includes everything needed to replace all seals in the D3 API Bottom Loading Coupler. Seal replacement kits are always recommended as spare parts.

SEAL MATERIAL:	KIT PART #
Buna:	1004D3SRK - 0401
Fluorocarbon	1004D3SRK - 0402
EPT	1004D3SRK - 0404



1004D3



1004DRN DRAIN ADAPTOR

- Allows operator to easily, safely drain loading arm
- Fits any API Bottom Loading Coupler



1004PA PARKING ADAPTOR

- Use to neatly store & secure loading arms while not in use
- Can be provided with standpost and/or proximity switch

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