

1004D4 API Bottom Loading Coupler

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



Patent no.
US-2010-0096579-A1

*Other seals available upon request.

1004D4 API Bottom Loading Coupler

The Safer, Cleaner, Faster Way To Load 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 -20°F to 400°F (-29°C to 204°C) • Buna-N -20°F to 250°F (-29°C to 121°C) • EPT -50°F to 225°F (-46°C to 107°C) • Lo-Temp Fluorocarbon -40°F to 400°F (-40°C to 204°C)
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

1004D4-0402

Size
4"

Seal

- 01 = Buna-N
- 02 = Fluorocarbon
- 02-LT = Lo-Temp Fluorocarbon
- 04 = EPT

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
Lo-Temp Fluorocarbon	1004D4SRK - 0402 - LT

