

API BOTTOM LOADING COUPLER

The Safer, Cleaner, Faster Way To Load Your Transports

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

1004D4

Features and Benefits

- **5-Cam Design** ensures easy alignment; tight connection to truck-adaptor and resists side forces during loading
- **Fully Interlocked** all 5 cams serve as interlock ensuring that the 1004D4 cannot be opened unless it is properly connected to an API adaptor
- **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*
- **Spring Loaded Sleeve** unique design automatically "jumps" onto truck API adaptor
- **New Stainless Steel "ergo" Handle** design provides easy, smooth operation
- **Easy Maintenance** all pins and small threads have been eliminated to provide quick, easy access to all critical components.
- **Easily Replaced** nose seal, without having to remove coupler from the rack
- **Completely Rebuilt** in minutes
- **No Special Tools** required



Design Parameters

Design pressure	8.6 bar(g)	125 psi (g)
Max Allowable Working Pressure*	5 bar(g)	75 psi (g)
Max flow Rate	135 M ³ /hr	600 GPM
Temperature Range	Fluorocarbon	-29°C to 204°C
	Buna-N	-29°C to 121°C
	EPT	-46°C to 107°C
	Kalrez®	-18°C to 260°C
Weight	9.5 kg	21 lbs
Pressure drop (@ max flow rate)	0.24 bar(g)	2-5 psi(g)

*unit tested to 21 bar (300psi) in closed position to withstand excessive thermal expansion pressures. Reference API standard RP-1004 for additional information.

Materials

Body	Aluminium
Sleeve	Aluminium
Poppet	Aluminium
Shaft	Stainless Steel
Cam Arms	Stainless Steel
Interlocks	Stainless Steel
Drive Link	Stainless Steel
Handle	Stainless Steel
Cylinder	Aluminium