

CNG Receptacles

OPW offers a complete line of fueling receptacles for any natural gas vehicle (NGV) application. Our receptacles form part of a dedicated system designed specifically for fueling NGV. OPW product designs and features are the result of many years of field experience in the demanding NGV environment and built to exacting engineering specifications for safety and efficiency.

Features

- ◆ **Durable, Corrosion-Resistant Construction**
All OPW receptacles are made from stainless steel. Also available is specially formulated brass. Both materials are proven in the harsh refueling environment.
- ◆ **Non-Contact Check Valve**
Each OPW NGV receptacle contains a highly reliable non-contact check valve that opens only when differential pressure is present during fueling.
- ◆ **Unique Sealing System**
The sealing system in all OPW receptacles consists of a stainless steel poppet that aligns with a rearward facing, captured seal located in the receptacle body. This arrangement prevents: seal “wash-out” during high-flow conditions and “cratering” due to debris. The new seal material has exceptionally long service life, resists creep and deformation and has exceptional wear resistance under all operating pressure and temperature conditions. The poppet is treated, impact-resistant stainless steel with a polished surface to provide reliable sealing at low back pressures.

Materials

OPW L Series

OPW L Series NGV1-certified refueling receptacles are designed for use on medium storage natural gas vehicles, including automobiles, light trucks, shuttle buses and vans. All OPW NGV receptacles are designed and built to exacting engineering specifications for fueling safety and efficiency.

OPW CL50 Series

OPW now adds stainless steel receptacles to their line of heavy-duty refueling receptacles, namely the CL Series. These new designs are the result of many years of experience in the demanding NGV environment.



- ◆ **High-Flow Capacity**

The new L Series receptacles have much larger flow capacity than conventional receptacles. The flow path allows very high flows, combined with low pressure drop and enhanced resistance to hydrate formation.

- ◆ **Bulkhead or Straight Thread**

The L Series allows the user to order a complete receptacle or buy and assemble their own adaptor shaft. They come with and without bulkhead fitting and with or without filter. The external bulkhead nut costs less than conventional stainless steel fittings. L Series receptacles can be used with parallel thread or compression tube fittings. The standard body is steel, but brass is also available. L Series bodies come with either wrench flats or hex to ease vehicular mounting.

- ◆ **Filtered Receptacle (LE)**

Filters capture dirt and gas-borne debris commonly found in CNG systems. Filtered receptacles protect the receptacle seals and the vehicle fuel system. A 400-micron filter is incorporated ahead of the receptacle check valve.

- ◆ **Design Your Own Sub-System**

The OPW L Series receptacles come with the following standard features: rubber dust cap, mounting hex or wrench flats. LD and LE receptacles come with a standard external bulkhead nut.

The Bulkhead fittings allow the use of inexpensive compression tube fittings. A 400-micron filter upstream of the poppet seal is available as an option. All adaptor shafts can be purchased from OPW or from your supplier of choice.

OPW L Series NGV1 Receptacles are designed for medium storage NGV at 200 Bar (3000 psi) or 248 Bar (3600 psi) operating pressure. All OPW NGV Receptacles are designed and built to exacting engineering specifications for safety and efficiency.

- ◆ **Rubber Dust Cap**

Standard protective dust caps are supplied with all receptacles.

- ◆ **Serviceable O-Ring**

Designed to prevent leakage at the connection point.

Materials

- Body:** Stainless steel
- Internal Parts:** Stainless steel and brass
- Seals:** Specially formulated polymers and elastomers specific to high-pressure NGV applications.



LB30 or LB36
(Shown without shaft)

Features

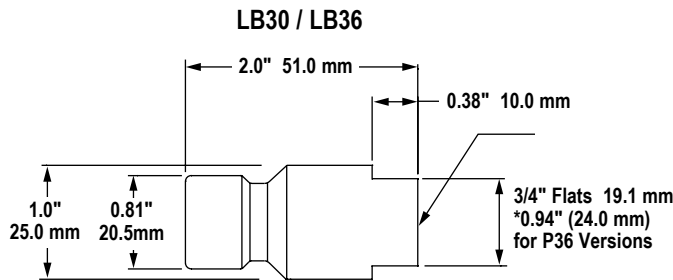
- ◆ **Protective Rubber Dust Caps** - included with all OPW "L" series receptacles.
- ◆ **Connects with CC250, CC600, CT1000 Series NGV-1 CNG Nozzles**

Specifications:

Min. Flow Rate: 1500 SCFM @ 3000 psid
 Temperature Range: -40° F to 250° F
 (-40° C to 120° C)
 Weight: 2.94 lbs. (1.33 kg.)
 Cv: LB = 0.91
 LD = 0.85
 LE = 0.83
 Design Pressure: 5000 psi (345 Bar)

OPW L Series NGV1 Fueling Receptacles LB30 & LB36

OPW L Series NGV1-certified Refueling Receptacles are designed for use on medium storage natural gas vehicles, including automobiles, light trucks, shuttle buses and vans. All OPW NGV receptacles are designed and built to exacting engineering specifications for fueling safety and efficiency.



Ordering Specifications

Product Number	Type/Size	Max. Allowable Service Pressure		Weight	
		bar	psi.	lb.	kg
LB30	NGV1 Receptacle w/ 3/4" Flats, P30	207 bar	3000 psi.	.31 lb.	.14 kg
LB36	NGV1 Receptacle w/ 3/4" Flats, P36	248 bar	3600 psi.	.31 lb.	.14 kg
LD30	NGV1 Receptacle w/ Bulkhead, P30	207 bar	3000 psi.	.44 lb.	.2 kg
LD36	NGV1 Receptacle w/ Bulkhead, P36	248 bar	3600 psi.	.44 lb.	.2 kg
LE30	NGV1 Receptacle w/ Bulkhead and Filter, P30	207 bar	3000 psi.	.44 lb.	.2 kg
LE36	NGV1 Receptacle w/ Bulkhead and Filter, P36	248 bar	3600 psi.	.44 lb.	.2 kg
1141	Replacement "Interface" O-Ring for L Series Receptacles				

Listings and Certifications



CE 0036

