



Materials

Body: 316L stainless steel

Internal Components: 316L stainless steel

Seals: Specially formulated polymers and elastomers specific to high-pressure hydrogen applications.



CH1000/CH2000

Features

- ◆ **High-Flow/Fast-Fill Capability** - provides quick fueling for all types of vehicles. Internal seat designs and materials have been specially selected for high-flow hydrogen fueling.
- ◆ **User-Friendly Single Action Operation** - engage nozzle and receptacle with a 180° rotation of the handle. This secures nozzle jaws onto receptacle, activating a system of three internal valves that regulate fuel flow. The nozzle will not dispense gas until securely engaged onto matching receptacle. When fueling is complete, rotate the handle back through 180° to the disconnect position to automatically stop the flow of gas and release the nozzle from the receptacle.
- ◆ **Ergonomic Design** - one simple and convenient motion ensures connection and dispensing by all users. Insulated jacket protects operator's hands.
- ◆ **Internal 0.2 mm Filter** - filter protects from impurities in the high velocity gas stream that can damage the nozzle and receptacle seals as well as components in the vehicle fuel system.
- ◆ **Directed Vent** - captures the gas vented at disconnect and directs it out of the nozzle (-4 compression adaptor required) via a 1/4" stainless steel vent tube which can be piped to a remote venting location or back to a compressor. Capturing vent gas is environmentally desirable by agencies such as the EPA and provides an added measure of safety by minimizing the amount of gas present at the filling site.
- ◆ **Jaw-Lock Technology** - designed specifically for the frequent coupling and uncoupling of high-pressure gas connections of hydrogen fueling. Contact pressures are distributed over the entire beveled edge of the receptacle, thus reducing long-term wear.
- ◆ **Dedicated Coupling Profile** - the jaw and receptacle profiles are designed to eliminate the chance of misconnection to any other form of fuel such as CNG. This nozzle will only couple securely to an OPW L Series Hydrogen Receptacle.
- ◆ **Durable Construction** - heavy-duty, 316 stainless steel construction provides unmatched corrosion resistance in this harsh and difficult refueling environment.
- ◆ **Individually Leak Tested and Inspected with Traceable Serial Numbers**

Specifications:

Min. Flow Rate: 2000 SCFM @ 3600 psid

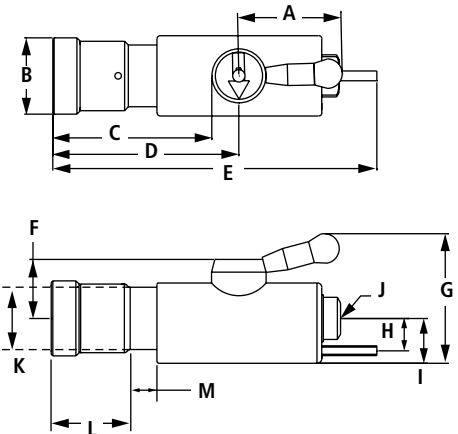
Temperature Range: -40° F to 185° F
(-40° C to 85° C)

Cv: 0.48

MAWP: 6250 psi (430 bar)

CH1000/CH2000 Series Self-Service Hydrogen Nozzle

OPW CH Series self-service nozzles are designed for high-pressure, high-flow hydrogen fueling systems. Applications include quick-fill, self-service fueling nozzles for automobiles, light trucks, vans and buses. **Must be used only in conjunction with OPW LK5000 or LK3600 ISO Profile Hydrogen Receptacles.**



Dimensions

	in.	mm
A	2.625	66
B	1.9375	49
C	4	102
D	4.6875	119
E	8.1875	208
F	1.5	38
G	3.25	83
H	0.8125	21
I	1.125	29
J	Straight Thread O-Ring Boss Port SAE J1926-6 (9/16" - 18UNF-2B)	
K	1.625	40
L	2.01	51.2
M	0.72	18.4

Ordering Specifications

Product #	Inlet Thread Size	Service Pressure		Weight
CH1000	SAE- 6, 9/16" - 18 UNF	5000 psi	345 bar	3.35 lbs. (1.52 kg)
CH2000	SAE- 6, 9/16" - 18 UNF	3600 psi	250 bar	

Connects to LK5000, LK3600 ISO profiles