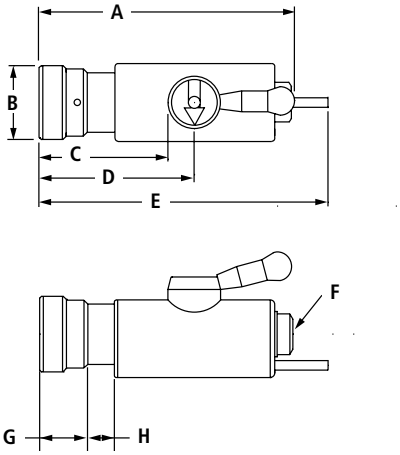
CT1000 Series Self-Service Nozzles (NGV1 Type 1)

OPW 1000 Series Self-Service Nozzles are designed for high-flow public and private CNG fueling systems. Applications include quick-fill, self-service fueling of automobiles, light trucks, shuttle buses and vans.

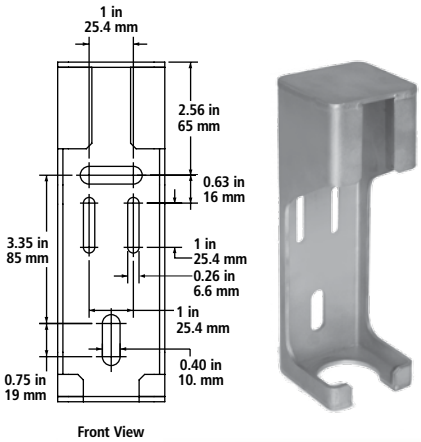


Dimensions

	CT1000SS		CT1000P36S / CT1000LS	
	in	mm	in	mm
A	6.69	167.8	7.32	185.8
B	1.94	48.9	1.94	48.9
C	3.37	85.1	4.0	102.1
D	4.06	102.4	4.69	119.4
E	7.5	191.0	8.19	208.0
F	Straight Thread O-ring Boss Port SAE-6 J1926 (9/16" - 18 UNF-2B)			
G	1.24	31.4	2.01	51.2
H	0.75	19	0.72	18.4

Dispenser Mount

210644	Stainless steel, II gage



Front View

Materials

Body: Brass

Jaws: Stainless steel

Seals: Specialty polymers and elastomers for NGV applications

Features

- **High-Flow/Fast-Fill Capability -** provides quick fueling of medium storage vehicles. Internal seals are designed for fast-fill NGV 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 fueling. The nozzle will not dispense gas until securely engaged onto an appropriate receptacle. When fueling is complete, rotate the handle to the disconnect position to automatically stop the flow of gas into the vehicle, vent the trapped gas and release the nozzle from the receptacle. The 1000 Series nozzles connect directly to the hose, with no need for a three-way valve. Designed for public or private self-service applications, no attendant is needed.
- **Directed Vent (CT1000) -** captures the gas vented at disconnect and directs it out of the nozzle via a 1/4" stainless steel vent tube (requires -4 compression adaptor), which can be piped to a remote venting location or back to the upstream side of the 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. It also reduces vent noise and eliminates escaped gas smell.
- **Jaw-Lock Technology -** designed specifically for the frequent coupling and uncoupling of the high-pressure gas connections of NGV fueling. Forces at the contact point are distributed over the entire surface area of the receptacle.
- **Ergonomic Design -** one simple and convenient motion ensures connection and dispensing by all users. Insulated jacket protects operator's hand.
- **Durable Construction -** heavy-duty brass and stainless steel construction provides corrosion resistance in the harsh refueling environment.
- **Meets NGV1 Fueling Standard -** can be used to fuel any vehicle with an NGV1 profile receptacle. (See Compatibility Matrix)
- **Tamper Resistant -** specially designed cam system actuates the front and rear module. Tampering with the valve results in immediate dispensing shut-off.
- **Individually Leak Tested and Inspected with Traceable Serial Number**

Specifications:

Min. Flow Rate: 1200 SCFM @ 3000 psid

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

Cv: 0.84

MAWP: 4532 psi (312.5 Bar)

Ordering Specifications

Product #	Inlet Thread Size	Service Pressure		Weight	
CT1000SS	SAE - 6, 9/16" - 18 UNF	3000 psi	200 bar	3.61 lbs.	1.63 kg
*CT1000LS Same as CT1000SS. Adds a Guide Ring	SAE - 6, 9/16" - 18 UNF	3000 psi	200 bar	3.66 lbs.	1.66 kg
CT1000P36S	SAE - 6, 9/16" - 18 UNF	3600 psi	250 bar	3.65 lbs.	1.65 kg

Listings and Certifications

CRN

See page 33 for Canadian Registration Number

OPW A DOVER COMPANY
9393 Princeton-Glendale Road ◆ Hamilton, Ohio USA 45011 ◆ Phone: (800) 422-2525 ◆ Fax: (800) 421-3297

CleanEnergy Nozzle Compatibility Matrix

			CNG Breakaways		NEW CNG Breakaways & CNGBREAKKITS			Standard NGV1 CNG Receptacles NOTE: These use Receptacle Fit Gage RINGO-0001						High Flow CNG Receptacles NOTE: These use Receptacle Fit Gage RINGO-0005						Nozzle Gages	
		CNG Nozzles	ILB-1	ILB-5	FLB 1000 & CNG BREAK KIT-1000	FLB 5000 & CNG BREAK KIT-5000	NGVLB	LB30	LD30	LE30	LB36	LD36	LE36	CL40	CL4078	CL50	CL5000	CL5016	CL5078	JAWGO -1	JAWGO -5
NGV1	Type 1	PGXXP30	✓	X	✓	X	✓	✓	✓	✓	✓	✓	✓	X	X	X	X	X	X	✓	X
		PGXXP36	✓	X	✓	X	✓	✓	✓	✓	✓	✓	✓	X	X	X	X	X	X	✓	X
		CT1000SS (3,000 psi/ 200 bar)	✓	X	✓	X	✓	✓	✓	✓	✓	✓	✓	X	X	X	X	X	X	✓	X
		CT1000P36S (3,600 psi/ 250 bar)	✓	X	✓	X	✓	X	X	X	✓	✓	✓	X	X	X	X	X	X	✓	X
	Type 2 & 3	CC300P30S (3,000 psi/ 200 bar)	✓	X	✓	X	✓	✓	✓	✓	✓	✓	✓	X	X	X	X	X	X	✓	X
		CC300P36S (3,600 psi/ 250 bar)	✓	X	✓	X	✓	X	X	X	✓	✓	✓	X	X	X	X	X	X	✓	X
		CC600S (3,000 psi/ 200 bar)	✓	X	✓	X	✓	✓	✓	✓	✓	✓	✓	X	X	X	X	X	X	✓	X
		CC600P36S (3,600 psi/ 250 bar)	✓	X	✓	X	✓	X	X	X	✓	✓	✓	X	X	X	X	X	X	✓	X
		CC600 Series Nozzle including 3-Way Valve (3WV series) (3,600 psi/ 250 bar & 3,000 psi/ 200 bar)	✓	X	✓	X	✓	✓	✓	✓	✓	✓	✓	X	X	X	X	X	X	✓	X
	Type 3	CC250 (3,000 psi/ 200 bar)	✓	X	✓	X	✓	✓	✓	✓	✓	✓	✓	X	X	X	X	X	X	X	X
		CC270 (3,000 psi/ 200 bar)	✓	X	✓	X	✓	✓	✓	✓	✓	✓	✓	X	X	X	X	X	X	X	X
Bus / High Flow	Type 1	CT5000S (3,600 psi/ 250 bar)	X	✓	X	✓	✓	X	X	X	X	X	X	✓	✓	✓	✓	✓	✓	X	✓
	Type 2	CC6000 (3,600 psi/ 250 bar)	X	✓	X	✓	✓	X	X	X	X	X	X	✓	✓	✓	✓	✓	✓	X	✓
CNG Defueling		BDN (3,600 psi/ 250 bar)	✓	X	✓	X	✓	✓	✓	X	✓	✓	X	X	X	X	X	X	X	✓	X

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CleanEnergy Hose Kit Compatibility Matrix

Fully Factory Assembled and Tested

				Time Fill			Light Duty (LD)					Heavy Duty (HD)		Extra Heavy Duty (XHD)	Defueling	
				2' Whip Hose / 14' Main Hose	2' Whip Hose / 18' Main Hose	8' Whip Hose / 12' Main Hose	2' Whip Hose / 8.3' Main Hose	2' Whip Hose / 8.3' Main Hose	2' Whip Hose / 10' Main Hose	2' Whip Hose / 13' Main Hose	2' Whip Hose / 13' Main Hose	2' Whip Hose / 8.3' Main Hose	2' Whip Hose / 8.3' Main Hose	2' Whip Hose / 8.3' Main Hose	10' Whip Hose / 2' Main Hose	25' Whip Hose / 25' Main Hose
			Hose Kit Component	TFCNG KIT-14C36	TFCNG KIT-20B36	TFCNG KIT-20D36	LDCNG KIT-11	LDCNG KIT-11 FLB	LDCNG KIT-12	LDCNG KIT-15A	LDCNG KIT-20B36	HDCNG KIT-11	HDCNG KIT-11FLB	XHDCNG KIT-10	LDCN DPK-12	XFLDCNG KIT-50
Nozzles	NGV1	Type 1	PGXXP30	X	X	X	Contact OPW for Quote					X	X	X	X	X
			PGXXP36	X	X	X	Contact OPW for Quote					X	X	X	X	X
			CT1000SS	X	X	X	X	X	X	✓	X	X	X	X	X	X
			CT1000P36S	X	X	X	✓	✓	✓	X	X	X	X	X	X	✓
		Type 2 & 3	CC600 Nozzle including 3-Way Valve	✓	✓	✓	X	X	X	X	✓	X	X	X	X	X
	Bus / High Flow	Type 1	CT5000S	X	X	X	X	X	X	X	X	✓	✓	✓	X	X
	Defueling		BDN	X	X	X	X	X	X	X	X	X	X	X	✓	✓ with 3WV-46D
Fill Line Break-aways	Standard Duty		ILB-1	X	X	X	✓	X	X	X	X	X	X	X	X	X
			FLB-1000	X	X	X	X	X	X	X	X	X	X	X	✓	X
			CNGBREAK KIT-1000	✓	✓	✓	X	✓	✓	✓	✓	X	X	X	X	✓
Fill Line Break-aways	Bus / High Flow		ILB-5	X	X	X	X	X	X	X	X	✓	X	X	X	X
			FLB-5000	X	X	X	X	X	X	X	X	X	X	X	X	X
			CNGBREAK KIT-5000	X	X	X	X	X	X	X	X	X	✓	✓	X	X
Vent Line Breakaways			NGVLB	✓	✓	X	✓	X	✓	✓	✓	✓	✓	✓	X	✓
Hose Retractor			6102-CNG	X	X	X	✓	✓	✓	✓	✓	X	X	X	X	✓
			6102-CNG2	X	X	X	X	X	X	X	X	X	X	X	X	X
			6102-CNG3	X	X	X	X	X	X	X	X	✓	✓	X	X	X
			6102-CNG4	✓	✓	✓	X	X	X	X	X	X	X	X	X	X

Canadian Registration Numbers by Province

Canadian Registration Numbers OPW CleanEnergy Products	British Columbia	Alberta	Ontario	Quebec	Saskatchewan	Manitoba	Nova Scotia	New Brunswick
PG series	pending	pending	pending	pending	pending	pending	pending	pending
CT1000 series	0H13989.51	0H13989.52	0H13989.5	0H13989.56	0H13989.56	0H13989.56	pending	pending
CT5000	0H15417.51	0H15417.52	0H15417.5	0H15417.56	0H15417.56	0H15417.54	0H15417.58ADD1	pending
CC600 series	0H13989.51	0H13989.52	0H13989.5	0H13989.56	0H13989.56	0H13989.56	pending	pending
ILB-1	0H13989.51	0H13989.52	0H13989.5	0H13989.56	0H13989.56	0H13989.56	pending	pending
ILB-5	0H15417.51	0H15417.52	0H15417.5	0H15417.56	0H15417.56	0H15417.56	pending	pending
VLB	0H13989.51	0H13989.52	0H13989.5	0H13989.56	0H13989.56	0H13989.56	pending	pending
FLB-1000 (new)	0H17341.51	0H17341.52	0H17341.5	0H17341.56	0H17341.56	0H17341.56	0H17341.5987	0H17341.5987
FLB-5000 (new)	0H17341.51	0H17341.52	0H17341.5	0H17341.56	0H17341.56	0H17341.56	0H17341.5987	0H17341.5987
NGVLB (new)	0H17341.51	0H17341.52	0H17341.5	0H17341.56	0H17341.56	0H17341.56	0H17341.5987	0H17341.5987
BDN	Pending	0H17140.2	Pending	Pending	Pending	Pending	Pending	Pending

TUV Approved

- PGXXP3X Series
- CT1000 series nozzles
- CT5000 series nozzles
- CC 200 series nozzles
- CC 300 series nozzles
- CC 600 series nozzles
- CC 6000 series nozzles
- ILB series breakaways
- FLB series breakaways
- NGVLB series breakaways
- LB, LD, LE series receptacles
- CL series receptacles