



CNG Fill-Line and Vent Line Breakaways and Accessories

OPW in-line breakaways are installed on fuel dispensing hoses between the nozzle and dispenser and will separate when subjected to a designated pull force, such as in the event of a drive-away. The dual valves seat automatically upon separation to stop the flow of gas while protecting the dispensing equipment from catastrophic damage. Defueling nozzles are designed to safely depressurize vehicles and can be used to transfer fuel from one vehicle to another. The fueling hoses are specially designed for dispensing compressed natural gas.



Fill-Line Breakaway (FLB-1000) Standard Duty

OPW has optimized the in-line breakaway for use in automotive NGV refueling applications. This unit will function consistently, independent of the inlet pressure.



Fill-Line Breakaway (FLB-5000) Heavy-Duty Truck/Bus

OPW has optimized the in-line breakaway for use in heavy-duty truck and bus NGV refueling applications. This unit will function consistently, independent of the inlet pressure.



Vent Line Breakaway (NGVLB)

The OPW NGVLB is an in-line breakaway that fits into the nozzle vent line. This new pressure balanced NGVLB unit will function consistently when used in conjunction with OPW high pressure In-line breakaways in the event of a drive-away.



In-Line Breakaway (ILB-1)

Designed for medium flow and automotive NGV and hydrogen refueling applications. This unit will function consistently, independent of the inlet pressure.

In-Line Breakaway (ILB-5) – Heavy-Duty Truck/Bus

Designed for high flow and heavy-duty truck and bus NGV and hydrogen refueling applications. This unit will function consistently, independent of the inlet pressure.

OPW



Hose And Hose Assemblies

OPW CNG hose assemblies are designed of electrically conductive polymer core tubing for working pressures of 3600 to 5000 psi. All hose assemblies conform to NFPA 52 and AGA/CGA, ANSI NGV 4.2

CNG Hose Retractor

OPW CNG Hose Retractors keep excess hose off the ground and out of the way, prolonging hose life and reducing potential hazards.



Gages - RINGGO

Available for easily measuring worn receptacles, which may lead to connection/ disconnection issues resulting from brinelling or other damage.

Gages - JAWGO

Available for easily measuring worn nozzles, which may lead to connection/ disconnection issues resulting from brinelling or other damage.





Features

- High-Flow/Fast Fill Capacity This NGV1 breakaway will provide quick fueling of large vehicles.
- Durable, Corrosion-Resistant Construction - stainless steel construction provides improved durability and corrosion resistance in harsh environments.
- Reconnectable Design allows the component to be reused, reducing total cost of ownership
- Innovative Valve System the sealing system in this breakaway minimizes the amount of vent gas released during a drive-away incident.

- Reduced Size and Weight to allow for more applications where size may be a concern.
- Easy Installation the in-line breakaway has SAE-6 O-ring fittings for easy installation in line between the dispenser and nozzle.
- Disconnection Force 120 lbs. (+/- 30 lbs.) (534+/- 134 N).
- 100% Leak and Breakaway Tested, with Traceable Serial Numbers

Fill-Line Breakaway (FLB-1000) - Standard Duty

OPW has optimized the in-line breakaway for use in automotive NGV refueling applications. This unit will function consistently, independent of the inlet pressure.

Specifications

Max Flow Rate: 3,700 SCFM @ 3,600 psid Temperature Range: -40° F to 185° F (-40° C to 85° C) Cv: 1.85 MAWP: 4,532 psi (312.5Bar)





Ordering Specifications

Product #	Inlet Thread Size	Outlet Thread Size	Service Pressure		Weight
FLB-1000	SAE - 6, 9/16" - 18 UNF (female)	SAE - 6, 9/16" - 18 UNF (female)	3,600 psi	250 bar	0.91 lb (0.41 kg)
CNGBREAKKIT-1000 (Includes FLB-1000 and NGVLB Breakaway)	FLB-1000 SAE - 6, 9/16" - 18 UNF (female)	FLB-1000 SAE - 6, 9/16" - 18 UNF (female)	3,600 psi	250 bar	1.13 lb
	NGVLB SAE - 6, 9/16" - 18 UNF	NGVLB SAE - 6, 9/16" - 18 UNF	3,600 psi	250 bar	(0.51 kg)



Certifications



Fill-Line Breakaway (FLB-5000) - Heavy-Duty Truck/Bus

OPW has optimized the in-line breakaway for use in heavy-duty truck and bus NGV refueling applications. This unit will function consistently, independent of the inlet pressure.

Specifications:

Max Flow Rate: 7,500 SCFM @ 3,600 psid Temperature Range: -40° F to 185° F (-40° C to 85° C)

Cv: 3.91 MAWP: 4,532 psi (312.5 Bar)





Materials

Body: Stainless steel

Internal Components: Stainless steel

Seals: Specially formulated polyurethane seals to withstand high pressure NGV applications

Features

- High-Flow/Fast Fill Capacity this is OPW's fastest flowing breakaway. This breakaway will provide quick fueling of large vehicles.
- Durable, Corrosion-Resistant Construction - stainless steel construction to provide improved durability and corrosion resistance in harsh environments.
- Reconnectable Design allows the component to be reused, reducing total cost of ownership
- Innovative Valve System the sealing system in this breakaway minimizes the amount of vent gas released during a drive-away incident.

 Reduced Size and Weight - to allow for more applications where size may be a concern.

FLB-5000

- Easy Installation the in-line breakaway has SAE-10 O-ring fittings for easy installation in line between the dispenser and nozzle.
- Disconnection Force 120 +/- 30 lbs. (534+/- 134 N).
- 100% Leak and Breakaway Tested, with Traceable Serial Numbers

Ordering Specifications

Product #	Inlet Thread Size	Outlet Thread Size	Service Pressure		Weight
FLB-5000	SAE - 10, 7/8" - 14 UNF (female)	SAE - 10, 7/8" - 14 UNF (female)	3,600 psi	250 bar	2 lb (0.907 kg)
CNGBREAKKIT-5000 (Includes FLB-5000 and NGVLB Breakaway)	FLB-5000 SAE - 10, 7/8" - 14 UNF (female)	FLB-5000 SAE - 10, 7/8" - 14 UNF (female)	3,600 psi	250 bar	2.22 lb
	NGVLB SAE - 6, 9/16" - 18 UNF	NGVLB SAE - 6, 9/16" - 18 UNF	3,600 psi	250 bar	(1 kg)



Certifications

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Body: Stainless Steel

Internal Components: Stainless Steel

Seals: Specially formulated seals, specific to high pressure NGV applications

NGVLB

Features

- Durability Stainless-steel construction provides improved performance, durability and corrosion resistance in harsh environments.
- Reconnectable Allows the component to be reused, reducing maintenance cost.
- Pressure Balanced Performance stability eliminates nuisance separation due to pressure surges in the vent line.
- Passive design allows pressure to freely move through the vent line.
- Disconnection force of 40 lbs. ± 15 lbs. (178N ± 67N)
- No tools required for reconnection (12 lbs./53 N reconnection force).

Ordering Specifications

Product #	Inlet Thread Size	Outlet Thread Size	Service Pressure		Weight
NGVLB	SAE - 6, 9/16" - 18 UNF	SAE - 6, 9/16" - 18 UNF	3600 psi	250 bar	0.22 lb (0.1 kg)



with Traceable Serial Numbers

Specifications:

Pressure balanced to 18,129 psi (1,250 bar) Temperature Range: -40° F to 185° F (-40° C to 85° C) Cv: 0.24

1,000 SCFM @ 3,600 psi (250 bar) MAWP: 4,532 psi (312.5 bar)

OPW Vent Line Breakaway (NGVLB)

The OPW NGVLB is an in-line breakaway that fits into the nozzle vent line. This new pressure balanced NGVLB unit will function consistently when used in conjunction with OPW high pressure In-line breakaways.





Listings and Certifications



CRN



In-Line Breakaway (ILB-1)

Designed for medium flow and automotive NGV refueling applications. This unit will function consistently, independent of the inlet pressure.



Materials

Body: Stainless steel

Internal Components: Stainless steel

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

ILB-1

Features

- High-Flow the flow path has been matched to provide ample flow for all NGV-1 Type 1 and Type 2 nozzles.
- Durable, Corrosion-Resistant Construction - stainless steel and specially plated steel construction provide improved durability and corrosion resistance in harsh environments.
- Reconnectable Design allows the component to be reused, reducing maintenance costs.
- Innovative Valve System the sealing system in this breakaway minimizes the amount of vent gas released during a drive-away incident.
- Reduced Size and Weight to allow for more applications where size may be a concern.
- Easy Installation the in-line breakaway has SAE-6 O-ring fittings for easy installation in line between the dispenser and nozzle.

- Disconnection Force-150 lbs. (668 N).
- Individually Inspected, Leak and Breakaway Tested, with Traceable Serial Numbers

Specifications:

Min. Flow Rate: 2000 SCFM @ 3000 psid Temperature Range: -40° F to 185° F (-40° C to 85° C)

Cv: 1.17 MAWP (ILB-1): 4532 psi (312.5 Bar)

Product #	Inlet Thread Size	Outlet Thread Size	Service P	ressure	Weight.
ILB-1	SAE - 6, 9/16" - 18 UNF (female)	SAE - 6, 9/16" - 18 UNF (female)	3600 psi	250 bar	2.3 lb 1.04 kg

Listings and Certifications





CRN



Body: Stainless steel

Internal Components: Stainless steel

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



Features

- High-Flow/Super Fast Fill Capacity -This breakaway will provide quick fueling of large storage vehicles. Internal seals are specifically designed to meet the demands of fast-fill NGV fueling.
- Durable, Corrosion-Resistant Construction - stainless steel and specially plated steel construction provide improved durability and corrosion resistance in harsh environments.
- Reconnectable Design allows the component to be reused, reducing maintenance costs.
- Innovative Valve System the sealing system in this breakaway minimizes the amount of vent gas released during a drive-away incident.
- Easy Installation the in-line breakaway has SAE-10 O-ring fittings for easy installation in line between the dispenser and nozzle.

- Disconnection Force 150 lbs. (668 N).
- Individually Inspected, Leak and Breakaway Tested, with Traceable Serial Numbers

Specifications:

Min. Flow Rate: 5500 SCFM @ 3000 psid Temperature Range: -40° F to 185° F (-40° C to 85° C)

Cv: 3.6 MAWP: 4532 psi (312. 5 Bar)

In-Line Breakaway (ILB-5) - Heavy-Duty Truck/Bus

1.87"

47.6mm ACROSS FLATS

Designed for high flow and heavy-duty truck and bus NGV refueling applications. This unit will function consistently, independent of the inlet pressure.



Ordering Specifications

Product #	Inlet Thread Size	Outlet Thread Size	Service I	Pressure	Weight.
ILB-5	SAE - 10, 7/8" - 14 UNF (female)	SAE - 10, 7/8" - 14 UNF (female)	3600 psi	250 bar	5 lb 2.26 kg

Listings and Certifications





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