

GasGuard

Handling the Pressure



ELAFLEX





ELAFLEX PACIFIC PTY LTD: ABOUT US

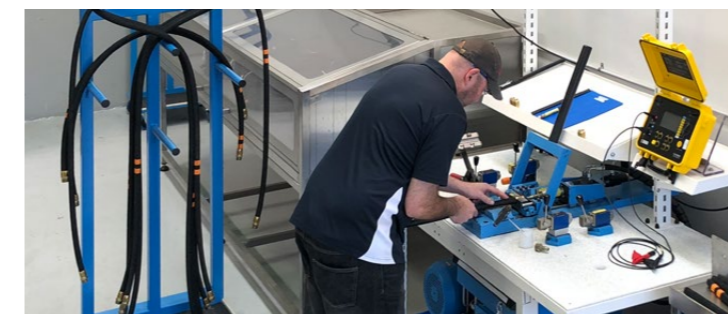
ELAFLEX PACIFIC PTY LTD (formerly L. G. Equipment) was founded in 1987 and is a daughter company of ELAFLEX in Germany.

Our core business is the production of the GasGuard nozzle range for LPGas which are renown in the industry. Supported by a global distributor network, the nozzle range is a leader in the Autogas refueling sector for fleet, industrial and private vehicles. Products using the GasGuard brand have enjoyed widespread success through the use of unique technology to build a large market share in Australia and North America as well as parts of Asia, South America and Europe.

Additionally, ELAFLEX PACIFIC is the Australian supplier of the ELAFLEX product range: ZVA nozzles and accessories, rubber hoses and suitable safety couplings, ERV rubber expansion joints and Mann Tek Dry Disconnect Couplings for the petroleum, LPG, aviation and petrochemical industries.

Handling the Pressure: ELAFLEX is a leading international specialist for refueling equipment and safe connections for the transfer of dangerous goods and sensitive fluids.

Our hoses, fittings, couplings, expansion joints and nozzles have been setting standards, since 1923. We provide quality engineered, durable products. A sound investment both in terms of performance and total lifetime cost benefits.



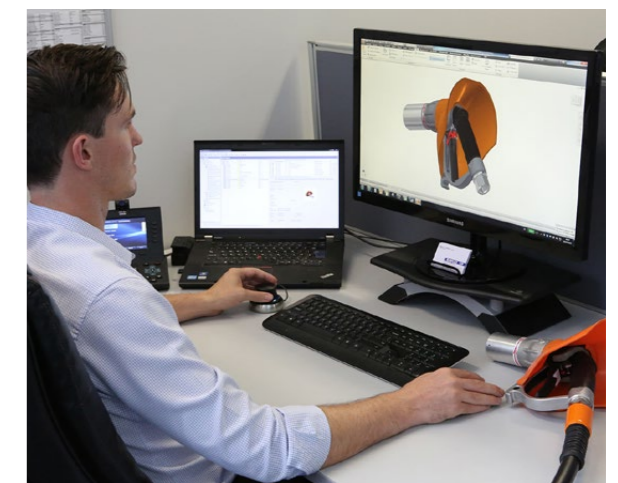
GasGuard Handling the Pressure

Since 1987, our product range of LPGas dispensing nozzles and accessories is marketed under the brand name 'GasGuard'. Over the years, they have increased safety and comfort experienced on forecourts around the world.

Continuous development of the GasGuard product range has been a key factor in maintaining a position as a market leader in terms of safety, performance and reliability. The current GasGuard 'GG' range demonstrates a light, easy to use and robust construction with many additional features allowing the nozzle to adapt to a variety of different markets to satisfy individual customer requirements.

For the development and production of GasGuard LPGas nozzles, the right combination of long-term experience and innovation capability is required. ELAFLEX PACIFIC PTY LTD meets these demands. From the original concept to today's production, the 'GasGuard' nozzle range has continued to design and manufacture quality nozzles for refueling with LPGas.

Once assembled, each and every nozzle must complete a hydrostatic pressure test and operational LPGas test prior to dispatch, all of which is performed at our Sydney plant. Multiple functions and performance checks according to several international standards must be adhered by in order to ensure safety before it reaches the customers hands.



GASGUARD PRODUCT SELECTION

	Application	Fill Point Connection	Sealing System / Nose Piece	Hose Connection (Swivel Inlet Thread)	Coupler Length Approx. (Nozzle Reach)	Release volume on valve closure	Lever Force Hold Open	UL / ATEX Certified	Flowrate	Strainer	Magnet in front guard for Reed Switch	Hold-Open Latch	Splash-guard	Scuffguard (Nozzle Talker)
GG1E	Industrial refueling / attended refueling of commercial and passenger vehicles. Filling of mobile and small stationary storage tanks.	1¾" ACME thread to AS/NZS 1596, AS/NZS 1425, EN 12806	Single Nose Piece *) making this type the most economic choice.	15 mm (½") NPT female or 20 mm (¾") NPT female	125 mm	1.9 cm³	6 kg at 12 bar system pressure	UL 125	63 l/min at 12 bar system pressure	300 µm (50 mesh) strainer fitted as standard	Optional	Optional (UL approved)	Optional	No
GG1EH			Hybrid Nose Piece *)			1.7 cm³	4.9 kg at 12 bar system pressure		60 l/min at 12 bar system pressure					
GG1DN	Most used type for petrol stations. Refueling of commercial and passenger vehicles, suitable for self service. Filling of mobile and small stationary storage tanks.		Dual Nose Piece *) for max. operating safety			1.9 cm³	6 kg at 12 bar system pressure		63 l/min at 12 bar system pressure					
GG20	Like GG1E, but with long connector nut (160 mm) to connect to deep-seated filler valves, as associated with forklift truck cylinders and Recreational Vehicle (RV) fill points.		Single Nose Piece *) making this type the most economic choice.		1.9 cm³	6 kg at 12 bar system pressure	63 l/min at 12 bar system pressure							
GG20H	Like GG1EH, but with long connector nut to connect to deep-seated filler valves, as associated with forklift truck cylinders and Recreational Vehicle (RV) filler vales.		Hybrid Nose Piece *)		1.7 cm³	4.9 kg at 12 bar system pressure	60 l/min at 12 bar system pressure							
GG20DN	Like GG1DN, but with long connector nut to connect to deep-seated filler valves, as associated with forklift truck cylinders and Recreational Vehicle (RV) filler vales.		Dual Nose Piece *) for max. operating safety		1.7 cm³	4.9 kg at 12 bar system pressure	60 l/min at 12 bar system pressure							
GG30	Refueling of commercial and passenger vehicles as well as mobile and stationary storage tanks that are fitted with 'Bayonet' fill adapters.	BAYONET to EN 12806 4-slot design for easy connecton to fill point	Dual sealing system, reducing the chance of leakage if bayonet fill point is badly damaged or worn.	20 mm (¾") NPT female other sizes on request	135 mm	2.2 cm³	4.9 kg at 12 bar system pressure	—	60 l/min at 12 bar system pressure	Optional	Optional	No	Optional (EA 866 E orange or black)	
ZVG 2 EURO UL	Conforming to EN 13760, UN R67, ISO 19825 Refueling of commercial and passenger vehicles, suitable for self service. Filling of mobile and small stationary storage tanks that are fitted with 'Euro' fill adapters.	EURO 'push-on' coupling to EN 13760, UN R 67 and ISO 19825	Direct sealing system with flat seal.		120 mm	< 1 cm³	—	UL 125 + ATEX	60 l/min at 12 bar system pressure		UL approved, latch fitted as standard			
ZVG 2 K	Conforming to ISO 19825 & JASO E208 Refueling of commercial and passenger vehicles, suitable for self service. Filling of mobile and small stationary storage tanks that are fitted with 'J15' fill adapters.	Korean/Japanese 'push-on' coupling to ISO 19825 and JASO E208	Direct sealing system with O-ring.		< 2 cm³	—	—	50 l/min at 12 bar system pressure	Latch fitted as standard					

*) For an explanation of nose piece types see GasGuard Information 6.15



THE 'GG1' ACME SERIES

Nozzles in the GasGuard 'GG1' series are suitable for the filling of commercial and passenger Autogas vehicles as well as mobile and small stationary storage tanks with LPGas. There are three different nozzles in the UL listed GG1 range, which cater for differing customer needs. With a lightweight & well balanced construction, the nozzles are designed to give the user a more ergonomic and safer way to refuel their Autogas vehicle or storage tank.

The GG1 series design recently has been enhanced with significant improvements in operational performance and reduced maintenance requirements, and like all GasGuard nozzles, they are fully repairable.

STANDARD SPECIFICATIONS GG1

Connection:	1 3/4" ACME to AS/NZS 1596, AS/NZS 1425, EN 12806
Swivel Inlet thread:	15 mm (1/2") or 20 mm (3/4") NPT female
Weight incl. swivel:	1.8 kg (4 lbs)
Working pressure:	25 bar (362 psi)
Temperature range:	-40 °C to +110 °C
Filtration:	300 mesh strainer
Approval:	UL listed

- Cannot discharge LPGas to the atmosphere when not coupled and lever is actuated.
- High strength aluminium alloy & stainless steel components = long lifetime without distortion.
- Nozzle will safely seal with fill point, even if its sealing gasket is missing.
- Optional magnet for reed switch nozzle boot systems.
- New guided extended ACME 1 3/4" thread to minimize crossthreading and unsafe connection.
- Optional Latch (UL approved).
- Fully repairable.

Guided thread extension minimises cross-threading



Magnet integrated in guard, activates dispenser reed switch



Smooth rotating 360° swivel as standard



Optional Latch



GG1E NOZZLE

For refueling of light duty/Autogas vehicles and storage tanks. Single Nose Piece.

- Flowrate: 63 l/min
- Release volume: 1.9 cm³
- Lever force 'hold open': 6 kg



GG1EH NOZZLE

For refueling of light duty/Autogas vehicles and storage tanks. 'Hybrid' nose piece.

- Flowrate: 60 l/min
- Release volume: 1.7 cm³
- Lever force 'hold open': 4.9 kg



GG1DN NOZZLE

For 'self-serve' refueling of light duty/Autogas vehicles and storage tanks. Designed for use by the general public as it incorporates a patented Dual Nose Piece which significantly reduces the amount of user error.

- Flowrate: 60 l/min
- Release volume: 1.7 cm³
- Lever force 'hold open': 4.9 kg



THE 'GG20' ACME SERIES

Nozzles in the GasGuard "GG20" series are designed to reach into, and connect to, deep set fill points as seen in forklift cylinder and recreational vehicle refueling. This is possible due to the extended connector on the outlet of the nozzle which allows customers to connect to fill points with a deep set access point.

There are three different nozzles in the UL listed GG20 range, which cater for differing customer needs. With a 35 mm longer connector, the nozzles are engineered with the same function as their shorter GG1E, GG1EH and GG1DN counterparts. The GG20 series design carries the same improvements in operational performance and reduced maintenance requirements as the GG1 series, and like all GasGuard nozzles they are fully repairable.

STANDARD SPECIFICATIONS GG20

Connection:	1 3/4" ACME to AS/NZS 1596, AS/NZS 1425, EN 12806
Swivel Inlet thread:	15 mm (1/2") or 20 mm (3/4") NPT female
Weight incl. swivel:	1.9 kg (4.2 lbs)
Working pressure:	25 bar (362 psi)
Temperature range:	-40 °C to +110 °C
Filtration:	300 mesh strainer
Approval:	UL listed

- Cannot discharge LPGas to the atmosphere when not coupled and lever is actuated.
- High strength aluminium alloy & stainless steel components = long lifetime without distortion.
- Nozzle will safely seal with fill point, even if its sealing gasket is missing.
- Optional magnet for reed switch nozzle boot systems.
- New guided extended ACME 1 3/4" thread to minimize cross-threading and unsafe connection.
- Optional Latch (UL approved).
- Fully repairable.

Guided thread extension minimises cross-threading



Magnet integrated in guard, activates dispenser reed switch



Smooth rotating 360° swivel as standard



Optional Latch



GG20 NOZZLE

For refueling of industrial light duty/Autogas vehicles and storage tanks. Single nose piece.

- Flowrate: 63 l/min
- Release volume: 1.9 cm³
- Lever force 'hold open': 6 kg
- Same as GG1E, but with 35 mm longer reach



GG20H NOZZLE

For refueling of industrial light duty/Autogas vehicles and storage tanks. 'Hybrid' nose piece.

- Flowrate: 60 l/min
- Release volume: 1.7 cm³
- Lever force 'hold open': 4.9 kg
- Same as GG1EH, but with 35 mm longer reach



GG20DN NOZZLE

For 'self-serve' refueling of light duty/Autogas vehicles and storage tanks. Designed for use by the general public as it incorporates a patented Dual Nose which significantly reduces the amount of user error.

- Flowrate: 60 l/min
- Release volume: 1.7 cm³
- Lever force 'hold open': 4.9 kg
- Same as GG1DN, but with 35 mm longer reach





THE 'GG30' BAYONET SERIES

The GG30 Series GasGuard nozzle is suitable for the filling of light duty/Autogas vehicles as well as mobile and stationary LPGas tanks which are fitted with the 'Bayonet' fill adaptor (conforming to EN12806). The Bayonet fill adaptor is mostly used in the United Kingdom and the Netherlands; it is also seen in industrial applications in Latin America.

The GG30 series GasGuard nozzle adds improved features to its predecessor, the LG30 Series nozzle, including improved ergonomics, lighter weight, improved flowrates and lower lever force. A new nose piece design reduces the released gas upon valve closure by 23 %, incorporating an improved gas release method and thus minimising the risk of splash backs. Last but not least, applied stickers assist users in operating the nozzle.

STANDARD SPECIFICATIONS GG30

Connection:	Bayonet to EN12806
Swivel Inlet thread:	15 mm (1/2") or 20 mm (3/4") NPT female
Weight incl. swivel:	1.9 kg (4.2 lbs)
Working pressure:	25 bar (362 psi)
Temperature range:	-40 °C to +110 °C
Filtration:	300 mesh strainer

- Cannot discharge LPGas to the atmosphere when not coupled and lever is actuated.
- High strength aluminium alloy & stainless steel components = long lifetime without distortion.
- Dual seal system, will seal even if one nose seal has been damaged.
- Optional magnet for reed switch nozzle boot systems.
- New 4-slot insert for easy nozzle connection.
- Optional Latch.
- Fully repairable.

New 4-slot Bayonet insert for easier connection to fill point



Magnet integrated in guard, activates dispenser reed switch



Smooth rotating 360° swivel as standard



Optional Latch



GG30 NOZZLE

For refueling of industrial light duty/Autogas vehicles and storage tanks. Dual sealing system, reducing the chance of leakage if bayonet fill point is badly damaged or worn.

- Flowrate: 60 l/min
- Release volume: 2.2 cm³
- Lever force 'hold open': 4.9 kg

SPLASHGUARD

Required by some customers, this option protects the customer's hands against any gas release after nozzle valve has shut down.





ZVG 2 EURO UL – PUSH-ON COUPLING

The EURO connection is one of the most advanced coupling standards so far. EURO connectors demonstrate a variety of advantages: easy one-handed operation, enhanced safety features and very low gas release upon uncoupling.

After a successful introduction of the ZVG 2 EURO to Europe, the nozzle gained UL listing in 2015 for use in the North American market.

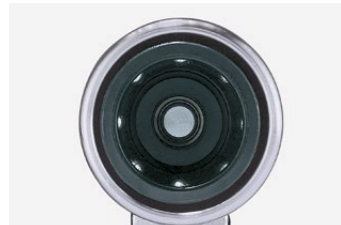
This special type for the North American market is called ZVG 2 EURO UL and it is exclusively distributed by Elaflex Pacific.

Compared with the standard ZVG 2 EURO, it incorporates low temperature seals as standard, and the UL certification sticker.

STANDARD SPECIFICATIONS ZVG 2 EURO UL	
Connection:	EURO to EN 13760 + UN R 67 + ISO 19825
Swivel Inlet thread:	20 mm (¾") NPT female, other sizes on request
Weight incl. swivel:	1.41 kg (3.1 lbs)
Working pressure:	25 bar (362 psi)
Temperature range:	-40 to +70 deg. C (-40° F to +158° F)
Filtration:	300 mesh strainer
Approval:	UL listed, ATEX

- Prevents a discharge of LPGas to the atmosphere when the nozzle is not correctly coupled. When uncoupling, the captured pressure is released before the nozzle separates from the fill point to inhibit blowbacks.
- Single-handed operation.
- Low weight.
- Ergonomic contoured composite lever.
- Durable easy-rotating swivel for improved handling.
- With Latch (UL approved).
- Fully repairable.

EURO connector, gas release volume < 1 cm³



Single handed operation, lever latch for reduced hold-open force



Composite lever, magnet activates dispenser reed switch



Easy rotating swivel as standard, UL listed nozzle

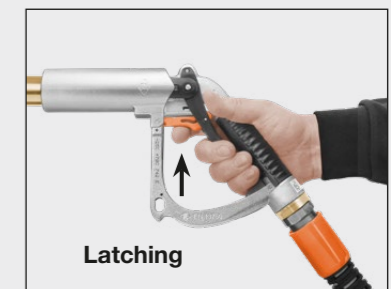


Optional Scuffguard EA 866 E black or orange

ZVG 2 EURO UL

For 'self-serve' refueling of light duty/Autogas vehicles and storage tanks. Designed for use by the general public. Incorporating the new European standard coupling to EN 13760, UN R 67 and ISO 19825.

- Flowrate: Up to 60 l/min
- Release volume: < 1 cm³ (< 0,06 cubic inch)
- Nozzle incl. latch UL-listed
- ATEX (II 1 G) approval, certificate no. SIRA 09 ATEX 9204U



Latching



ZVG 2 K – PUSH-ON COUPLING

The K type connection is based on the ease and simplicity seen in the EURO standard nozzle. It is one of the most advanced coupling standards so far and is the second push-on style nozzle recognised in the ISO 19825 standard.

The K nozzle is a unique nozzle suitable for passenger and heavy duty vehicle refueling in markets and is specifically targeted at the Korea and Japanese (JASO E208) markets.

The ZVG 2 K nozzle demonstrates a variety of advantages: easy onehanded operation, enhanced safety features and very low gas release upon uncoupling.

This nozzle, exclusively distributed by Elaflex Pacific, incorporates low temperature seals as standard and comes with a safety hold open latch for ease of use.

STANDARD SPECIFICATIONS ZVG 2 K	
Connection:	Korea + Japan: JASO E208 + ISO 19825
Swivel Inlet thread:	20 mm (¾") NPT female, other sizes on request
Weight incl. swivel:	1.55 kg (3.4 lbs)
Working pressure:	25 bar (362 psi)
Temperature range:	-40 to +70 deg. C (-40° F to +158° F)
Filtration:	300 mesh strainer

- Prevents a discharge of LPGas to the atmosphere when the nozzle is not correctly coupled. When uncoupling, the captured pressure is released before the nozzle separates from the fill point to inhibit nozzle recoil.
- Single-handed operation.
- Low weight.
- Ergonomic contoured composite lever.
- Durable easy-rotating swivel for improved handling.
- With Latch.
- Fully repairable.
- Optional Scuffguard (Nozzle Talker) is also available, can be used to show fuel type or as advertising space.

K connector, gas release volume <math>< 2 \text{ cm}^3</math>

Single handed operation, lever latch for reduced hold-open force

Composite lever, magnet activates dispenser reed switch

Easy rotating swivel as standard

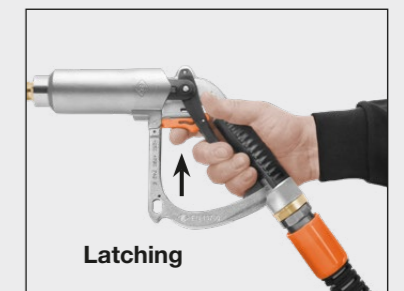


Optional Scuffguard EA 866 E black or orange

ZVG 2 K

For 'self-serve' refueling of light and heavy duty Autogas vehicle and small storage tanks. Unique 'pistol grip' style nozzle for use in Japan and Korea. For self-serve and attended sites.

- Flowrate: Up to 50 l/min
- Release volume: <math>< 2 \text{ cm}^3</math> (<math>< 0,12 \text{ cubic inch}</math>)
- Safe design moves hands away from gas released at end of refueling process.



GASGUARD NOZZLE ACCESSORIES



ARK 19 MOD. 2

- Safety Break Coupling, quick reconnection under pressure



RANGE OF HOSE FITTINGS

- Ferrule type hose fittings, with NPT or BSP thread, delivering highest operational safety with a 'better than the standard' philosophy

Best in class, from dispenser to customer: Elaflex Pacific supplies Autogas hoses, fittings and other accessories which are contributing to forecourt safety and an improved refueling experience.

Our nozzle boots are easy to mount and are a practical and secure housing for the nozzle. Reed switches can be installed on reverse side for pump activation. Nozzle boot also available with locking feature.

Hose assemblies to EN1762, AS/NZS1869, UL21 & CSA 8.1 with our renowned ferrule type hose fittings and anti-kinking sleeves, easy to handle, safeguarding media purity, high burst pressure, and very durable.

Last not least, the safety break ARK 19 Mod. 2 adds to operational safety. After a drive-off incident it can be reconnected under pressure, without the use of tools.



AUTOGAS HOSE OPTIONS

- LPG 13 (ID 13 mm)
- LPG 16 black / orange (ID 16 mm)
- LPG 19 (ID 19 mm)



LPG 16 S

- Low permeation
- Low extractables
- Extremely flexible

NB-GG

- Nozzle boot (holster) suitable for all GasGuard nozzles and ZVG 2 EURO UL / ZVG 2 K
- Optional as lockable nozzle boot version

NB-ZVG

- Nozzle boot (holster) suitable for all ZVG 2 nozzles
- Optional as lockable nozzle boot version



CS

- Colour Sleeves for LPGas colour identification

KS

- Anti-Kinking Sleeves to protect hose against high bending strain

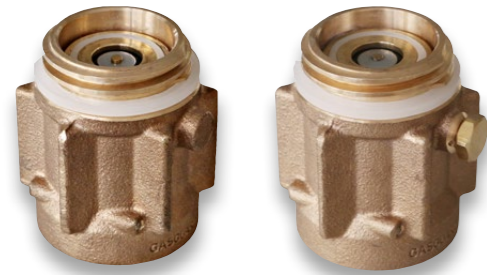
OTHER LPG EQUIPMENT

ZVG 2 DISH

- Autogas Nozzle



Apart from its own GasGuard range, Elaflex Pacific can supply any nozzle from the Elaflex ZVG 2 range - e.g. the ZVG 2 DISH with claw coupling. These nozzles can be combined with accessories described on page 14/15.



GG11 / GG11R

- Back-Check Valves

The GasGuard GG11 Back-Check Valve (GG11R: with additional release screw) should be standard equipment for any LPGas road tanker operator. It is used in conjunction with LPGas bulk refueling nozzles to contain leaks at storage tank fill points. If the fill point proves to be leaking when removing the nozzle it can be left on the tank until corrective action is taken. The driver can move to the next fill point without delay.

ERV-OR

- Rubber Expansion Joints

ERV-OR rubber expansion joints (sizes DN 25 to DN 150 mm) are considered as industry benchmark. They are installed within piping systems of refineries and terminals as well as for installations on board of LPG tankers to reliably compensate for movements and to absorb vibration and noise.



DGC

- Dry Gas Couplings
- Quick, safe and spill-free connection under pressure

For the fast filling of storage tanks and containers, DGC (Dry Gas Couplings) from Mann Tek have proven themselves in practice. They can be coupled and uncoupled under pressure, within seconds. A time efficient, safe and clean way for bulk LPGas transfer, without spill or product loss.

DGC
Hose Unit



DGC
Tank Unit



SBC

- Also available with flanged connection / with Safety Break



Mann Tek Safety Break Away Couplings SBC (front picture) protect hose assemblies, loading arms and pipework against excessive external loads. If the equipment is subjected to inadvertent and strong tensile loads, e.g. due to a premature movement of road and rail tankers or the drifting of ships, the coupling will separate and instantly seal the two open ends automatically.

Also available in combination with DGC (background picture).

HOSE ASSEMBLIES

- Renown hose type LPG
- ACME or NPT thread, DIN or ASA flange
- Spannfix or Spannloc safety clamps

ACMC 50-3/4"



LPG 50

SFC 32.40



LPG 32

VX 19-3/4" NPT

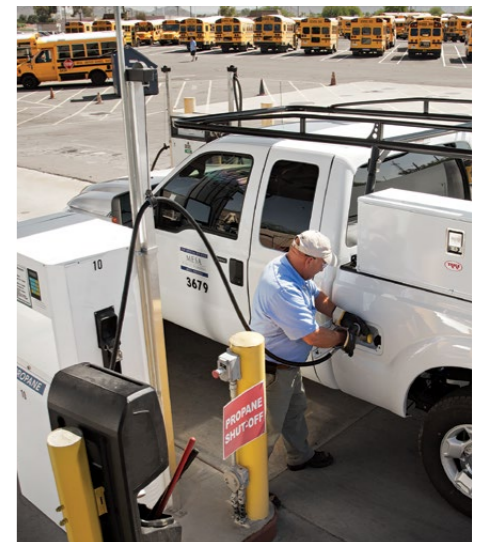
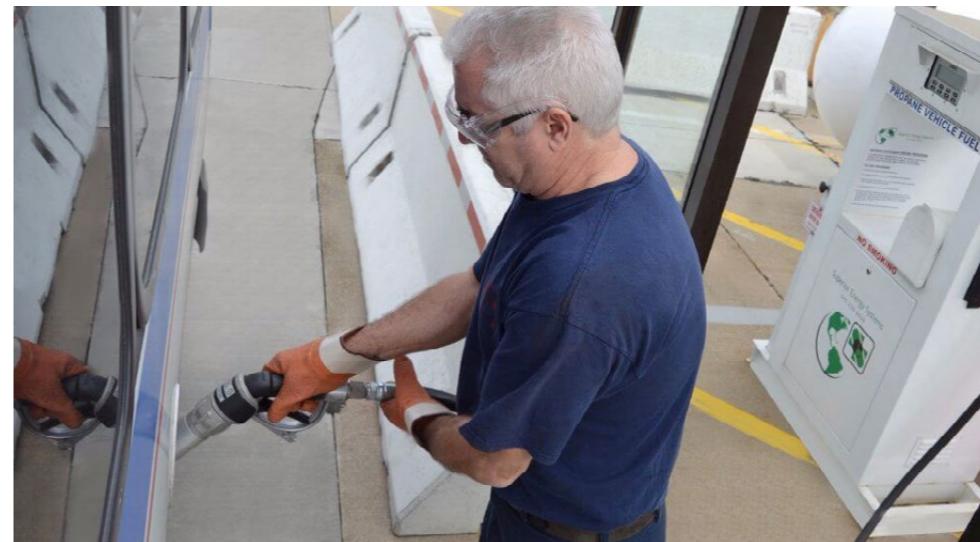
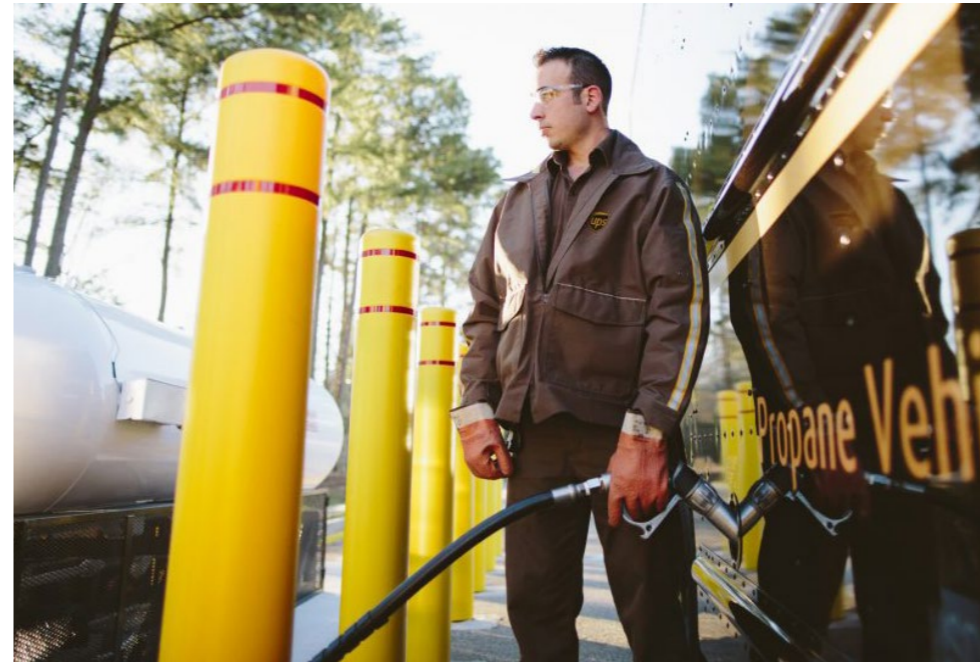


LPG 19

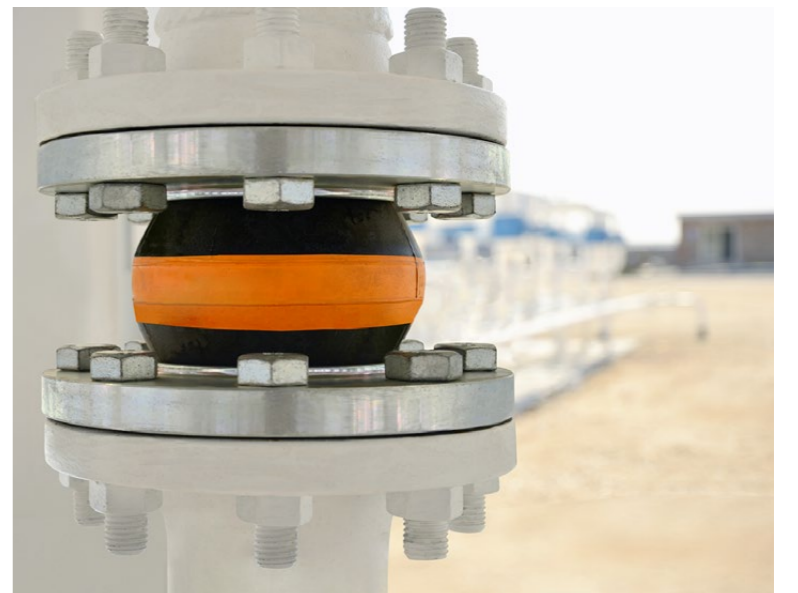
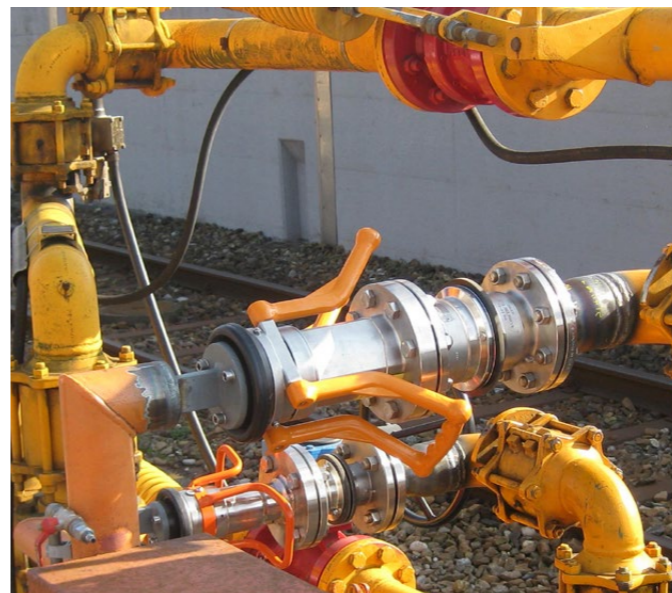
For bulk refueling we recommend our LPG hoses to EN 1762, sizes DN 10 to 200 mm. The hose construction with braided reinforcements gives them an unequalled combination of flexibility, pressure safety and long service life.

End fittings (ACME/NPT thread, DIN/ASA flanges) of steel, stainless steel or brass are assembled with reusable SPANNLOC or SPANNFIX safety clamps. WP PN 25 - test pressure 40 bar - burst pressure >100 bar.

APPLICATIONS



APPLICATIONS





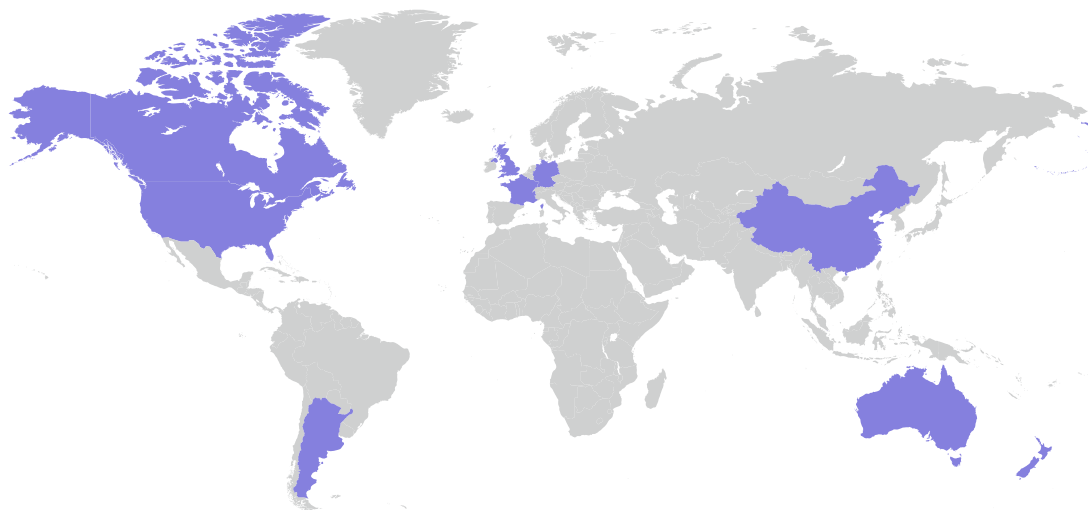
For product information,
catalogue pages and product
configurators please visit
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GasGuard



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