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.
## Product Selection

### GG1E
- **Application:** Industrial refueling / attended refueling of commercial and passenger vehicles, filling of mobile and small stationary storage tanks.
- **Connection:** 1¾” ACME thread to AS/NZS 1596, AS/NZS 1425, EN 12806
- **Sealing System:** Single Nose Piece * making this type the most economic choice.
- **Nose Piece:** Single Nose Piece * making this type the most economic choice.
- **Hose Connection:** Single Nose Piece * making this type the most economic choice.
- **Swivel Inlet Thread:** 125 mm
- **Volume on Valve Closure:** 1.9 cm³
- **Release Volume on Valve Closure:** 6 kg at 12 bar system pressure
- **Lever Force:** 6 kg at 12 bar system pressure
- **Hold Open:** 63 l/min at 12 bar system pressure
- **UL / ATEX Certified:** UL 125
- **Flowrate:** 60 l/min at 12 bar system pressure
- **Strainer:** Optional (UL approved)
- **Optional Feature:** Magnet in front guard for Reed Switch
- **Splashguard:** Optional
- **S coughguard:** Optional
- **Nozzle Talker:** Optional

### GG1EH
- **Application:** Most used type for petrol stations. Refueling of commercial and passenger vehicles, suitable for self service. Filling of mobile and small stationary storage tanks.
- **Connection:** 1½” NPT female or 20 mm (¾”) NPT female
- **Sealing System:** Hybrid Nose Piece *
- **Nose Piece:** Hybrid Nose Piece * for max. operating safety
- **Hose Connection:** Hybrid Nose Piece * for max. operating safety
- **Swivel Inlet Thread:** 160 mm
- **Volume on Valve Closure:** 1.7 cm³
- **Release Volume on Valve Closure:** 4.9 kg at 12 bar system pressure
- **Lever Force:** 4.9 kg at 12 bar system pressure
- **Hold Open:** 63 l/min at 12 bar system pressure
- **UL / ATEX Certified:** UL 125
- **Flowrate:** 60 l/min at 12 bar system pressure
- **Strainer:** Optional (50 mesh) strainer fitted as standard
- **Optional Feature:** Optional
- **Splashguard:** Optional
- **S coughguard:** Optional
- **Nozzle Talker:** Optional

### GG1DN
- **Application:** 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.
- **Connection:** 1½” NPT female
- **Sealing System:** Single Nose Piece * making this type the most economic choice.
- **Nose Piece:** Single Nose Piece * making this type the most economic choice.
- **Hose Connection:** Single Nose Piece * making this type the most economic choice.
- **Swivel Inlet Thread:** 160 mm
- **Volume on Valve Closure:** 15 mm (½”) NPT female
- **Release Volume on Valve Closure:** 1.9 cm³
- **Lever Force:** 6 kg at 12 bar system pressure
- **Hold Open:** 63 l/min at 12 bar system pressure
- **UL / ATEX Certified:** UL 125
- **Flowrate:** 60 l/min at 12 bar system pressure
- **Strainer:** Optional (50 mesh) strainer fitted as standard
- **Optional Feature:** Optional
- **Splashguard:** Optional
- **S coughguard:** Optional
- **Nozzle Talker:** Optional

### GG20
- **Application:** 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.
- **Connection:** 20 mm (¾”) NPT female
- **Sealing System:** Hybrid Nose Piece *
- **Nose Piece:** Hybrid Nose Piece *
- **Hose Connection:** Hybrid Nose Piece *
- **Swivel Inlet Thread:** 160 mm
- **Volume on Valve Closure:** 1.7 cm³
- **Release Volume on Valve Closure:** 4.9 kg at 12 bar system pressure
- **Lever Force:** 4.9 kg at 12 bar system pressure
- **Hold Open:** 60 l/min at 12 bar system pressure
- **UL / ATEX Certified:** UL 125
- **Flowrate:** 60 l/min at 12 bar system pressure
- **Strainer:** Optional (50 mesh) strainer fitted as standard
- **Optional Feature:** Optional
- **Splashguard:** Optional
- **S coughguard:** Optional
- **Nozzle Talker:** Optional

### GG20H
- **Application:** Like GG1EH, 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.
- **Connection:** 20 mm (¾”) NPT female
- **Sealing System:** Single Nose Piece *
- **Nose Piece:** Single Nose Piece *
- **Hose Connection:** Single Nose Piece *
- **Swivel Inlet Thread:** 160 mm
- **Volume on Valve Closure:** 15 mm (½”) NPT female
- **Release Volume on Valve Closure:** 1.9 cm³
- **Lever Force:** 6 kg at 12 bar system pressure
- **Hold Open:** 63 l/min at 12 bar system pressure
- **UL / ATEX Certified:** UL 125
- **Flowrate:** 60 l/min at 12 bar system pressure
- **Strainer:** Optional (50 mesh) strainer fitted as standard
- **Optional Feature:** Optional
- **Splashguard:** Optional
- **S coughguard:** Optional
- **Nozzle Talker:** Optional

### GG20DN
- **Application:** Like GG1DN, 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.
- **Connection:** 20 mm (¾”) NPT female
- **Sealing System:** Hybrid Nose Piece *
- **Nose Piece:** Hybrid Nose Piece *
- **Hose Connection:** Hybrid Nose Piece *
- **Swivel Inlet Thread:** 160 mm
- **Volume on Valve Closure:** 1.7 cm³
- **Release Volume on Valve Closure:** 4.9 kg at 12 bar system pressure
- **Lever Force:** 4.9 kg at 12 bar system pressure
- **Hold Open:** 60 l/min at 12 bar system pressure
- **UL / ATEX Certified:** UL 125
- **Flowrate:** 60 l/min at 12 bar system pressure
- **Strainer:** Optional (50 mesh) strainer fitted as standard
- **Optional Feature:** Optional
- **Splashguard:** Optional
- **S coughguard:** Optional
- **Nozzle Talker:** Optional

### GG30
- **Application:** Refueling of commercial and passenger vehicles as well as mobile and stationary storage tanks that are fitted with ‘Bayonet’ fill adapters.
- **Connection:** 20 mm (¾”) NPT female
- **Sealing System:** Dual sealing system, reducing the chance of leakage if bayonet fill point is badly damaged or worn.
- **Nose Piece:** Dual Nose Piece * for max. operating safety
- **Hose Connection:** Dual Nose Piece * for max. operating safety
- **Swivel Inlet Thread:** 135 mm
- **Volume on Valve Closure:** 2.2 cm³
- **Release Volume on Valve Closure:** 4.9 kg at 12 bar system pressure
- **Lever Force:** 4.9 kg at 12 bar system pressure
- **Hold Open:** 60 l/min at 12 bar system pressure
- **UL / ATEX Certified:** Optional
- **Flowrate:** Optional
- **Strainer:** Optional
- **Optional Feature:** Optional
- **Splashguard:** Optional
- **S coughguard:** Optional
- **Nozzle Talker:** Optional

### ZVG 2 EURO UL
- **Application:** Conforming to EN 13760, UNR 67, ISO 19825
- **Connection:** 20 mm (¾”) NPT female
- **Sealing System:** Direct sealing system with flat seal.
- **Nose Piece:** Direct sealing system with O-ring.
- **Hose Connection:** Direct sealing system with O-ring.
- **Swivel Inlet Thread:** 120 mm
- **Volume on Valve Closure:** < 1 cm³
- **Release Volume on Valve Closure:** —
- **Lever Force:** —
- **Hold Open:** 50 l/min at 12 bar system pressure
- **UL / ATEX Certified:** Optional
- **Flowrate:** Optional
- **Strainer:** Optional
- **Optional Feature:** Optional (EA 866 E orange or black)
- **Splashguard:** Optional
- **S coughguard:** Optional
- **Nozzle Talker:** Optional

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* 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**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection</td>
<td>1¾” ACME to AS/NZS 1596, AS/NZS 1425, EN 12806</td>
</tr>
<tr>
<td>Swivel Inlet thread</td>
<td>15 mm (⅝”) or 20 mm (¾”) NPT female</td>
</tr>
<tr>
<td>Weight incl. swivel</td>
<td>1.8 kg (4 lbs)</td>
</tr>
<tr>
<td>Working pressure</td>
<td>25 bar (362 psi)</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-40 °C to +110 °C</td>
</tr>
<tr>
<td>Filtration</td>
<td>300 mesh strainer</td>
</tr>
<tr>
<td>Approval</td>
<td>UL listed</td>
</tr>
</tbody>
</table>

- 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 1¾” thread to minimize crossthreading and unsafe connection.
- Optional Latch (UL approved).
- Fully repairable.

**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.

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

STANDARD SPECIFICATIONS GG20

Connection: 1¾” ACME to AS/NZS 1596, AS/NZS 1425, EN 12806
Swivel inlet thread: 15 mm (½”) or 20 mm (¾”) 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 1¾” thread to minimize cross-threading and unsafe connection.
- Optional Latch (UL approved).
- Fully repairable.
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 adapter (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.

- 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.

**STANDARD SPECIFICATIONS GG30**

<table>
<thead>
<tr>
<th>Connection</th>
<th>Bayonet to EN12806</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swivel inlet thread</td>
<td>15 mm (½&quot;) or 20 mm (¾&quot;) NPT female</td>
</tr>
<tr>
<td>Weight incl. swivel</td>
<td>1.9 kg (4.2 lbs)</td>
</tr>
<tr>
<td>Working pressure</td>
<td>25 bar (362 psi)</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-40 °C to +110 °C</td>
</tr>
<tr>
<td>Filtration</td>
<td>300 mesh strainer</td>
</tr>
</tbody>
</table>

**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.

• Prevents a discharge of LP-Gas 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.

STANDARD SPECIFICATIONS ZVG 2 EURO UL

<table>
<thead>
<tr>
<th>Specification</th>
<th>ZVG 2 EURO UL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection</td>
<td>EURO to EN 13760 + UN R 67 + ISO 19825</td>
</tr>
<tr>
<td>Swivel inlet thread</td>
<td>20 mm (¾&quot;) NPT female, other sizes on request</td>
</tr>
<tr>
<td>Weight incl. swivel</td>
<td>1.41 kg (3.1 lbs)</td>
</tr>
<tr>
<td>Working pressure</td>
<td>25 bar (362 psi)</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-40 to +70 deg. C (-40° F to +158° F)</td>
</tr>
<tr>
<td>Filtration</td>
<td>300 mesh strainer</td>
</tr>
<tr>
<td>Approval</td>
<td>UL listed, ATEX</td>
</tr>
</tbody>
</table>

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

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
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 one-handed 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.

<table>
<thead>
<tr>
<th>STANDARD SPECIFICATIONS ZVG 2 K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection: Korea + Japan: JASO E208 + ISO 19825</td>
</tr>
<tr>
<td>Swivel inlet thread: 20 mm (3/4&quot;) NPT female, other sizes on request</td>
</tr>
<tr>
<td>Weight incl. swivel: 1.55 kg (3.4 lbs)</td>
</tr>
<tr>
<td>Working pressure: 25 bar (362 psi)</td>
</tr>
<tr>
<td>Temperature range: -40 to +70 deg. C (-40° F to +158° F)</td>
</tr>
<tr>
<td>Filtration: 300 mesh strainer</td>
</tr>
</tbody>
</table>

- 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.

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: < 2 cm³ (<0.12 cubic inch)
- Safe design moves hands away from gas released at end of refueling process.

K connector, gas release volume < 2 cm³
Single handed operation, lever latch for reduced hold-open force
Composite lever, magnet activates dispenser reed switch
Easy rotating swivel as standard

Latching

Optional Scuffguard EA 866 E black or orange
GASGUARD NOZZLE ACCESSORIES

**GASGUARD NOZZLE ACCESSORIES**

**ARK 19 MOD. 2**
- Safety Break Coupling, quick reconnection under pressure

**RANGE OF HOSE FITTINGS**
- Female type hose fittings, with NPT or GSP thread, delivering highest operational safety with a ‘better than the standard’ philosophy

**AUTO GAS 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

**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 renown 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.
OTHER LPG EQUIPMENT

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 LPG transfer, without spill or product loss.

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

**SBC**
- Also available with flanged connection / with Safety Break

**HOSE ASSEMBLIES**
- Removable hose type LPG
- ACME or NPT thread, DIN or ASA flange
- Spannloc or Spannfix safety clamps

**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.

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.

**GG11 / GG11R**
- Back-Check Valves

**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.

**Hose Unit**

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.

**Tank Unit**

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.

**Hose Assemblies**

**ACMC 50-3/4"**

**LPG 32**

**LPG 50**

**LPG 19**

**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).

**DGC**
- Tank Unit

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 LPG transfer, without spill or product loss.
APPLICATIONS
International distributors of GasGuard products:

United States of America
Rutherford Equipment, Inc.
Tel.: +1 800 241 5652
E-Mail: sales@rutherfordequipment.com
Web: www.rutherfordequipment.com

Ray Murray Inc.
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E-Mail: info@raymurray.com
Web: www.raymurray.com

Gas Equipment Company, Inc.
Tel.: +1 972 241 2333
E-Mail: info@gasequipment.com
Web: www.gasequipment.com

Teeoco Products
Tel.: +1 800 225 6621
E-Mail: steven@teeocoproducts.com
Web: www.teeocoproducts.com

Temco International Corporation
Tel.: +1 305 234 7851
E-Mail: maritere_solares@temcointl.com
Web: www.temcointl.com

Parafour Innovations, LLC
Tel.: +1 512 689 4099
E-Mail: robin@parafour.com
Web: www.parafour.com

M TankCo Supply, LLC
Tel.: +1 800 225 3528
E-Mail: sales@m tankco.com
Web: www.mtankco.com

Industrial Propane Service Inc.
Tel.: +1 800 621 4137
E-Mail: jeff@industrialpropaneservice.com
Web: www.industrialpropaneservice.com

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Web: www.nee.ca

Max-Quip Inc.
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E-Mail: cstewart@maxquip.ca
Web: www.maxquip.ca

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Web: www.elaflex.com.ar

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Web: www.elaflex.fr

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Telefon: +49 40 540 00 50
E-Mail: info@elaflex.de
Web: www.elaflex.de

F.A.S. Flüssiggas - Anlagen GmbH
Tel.: +49 5341 89970
E-Mail: info@fas-uni.de
Web: www.fas-uni.de

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KC ProSupply UK Ltd.
Tel.: +44 131 707 4502
E-Mail: rsmith@kcprosupplyuk.com
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