

THE PROBLEM

Field experience shows that check valves which are installed at the fill point of LPG tanks sometimes fail, e.g. due to weathering or dirt.

If a tank truck operator encounters a failing fill point check valve at the end of a LPG bulk filling operation, the nozzle/tank connection must be retightened as emergency action. If there is no secondary valve on the tank side, the operator is forced to remain on site until corrective action can be taken by appropriate service personnel, which can take hours.

PREVIOUS SOLUTIONS

Several manufacturers offer fill adapters incorporating a back-check valve, which are attached between fill point and nozzle. When encountering a leak on the tank side, the adapter is left on the filler neck, the nozzle is removed and hence the truck operator can drive away to the next fill point, avoiding a potential delay.

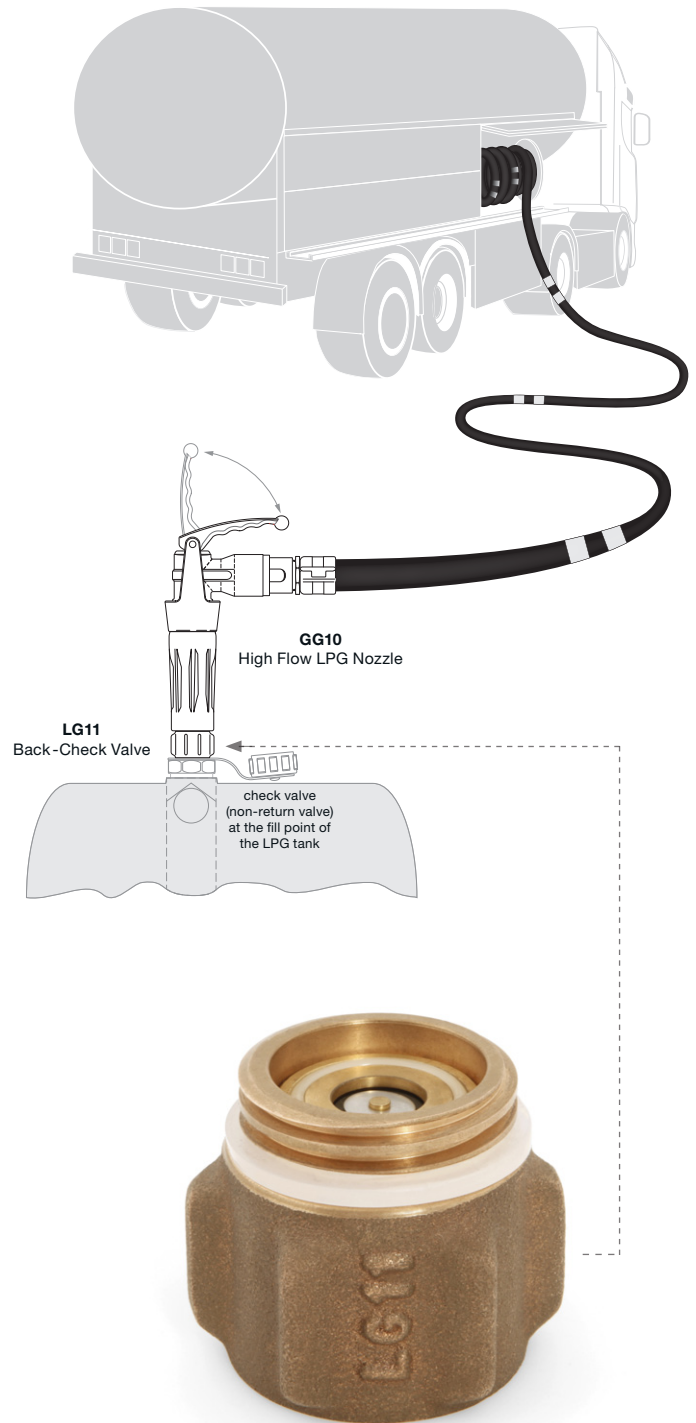
Still, most of the current fill adapters and fill nozzles are not 'failsafe'. If such nozzles (with or without screwed-on adapter) are handled without being connected to the tank, activating the nozzle lever can lead to an uncontrolled discharge of gas.

To overcome this problem, some nozzles are fitted with a lever locking mechanism which if handled correctly will not open to atmosphere when the nozzle is not connected to a fill point. However, it has been evident through many reported incidents worldwide that this mechanism can be overridden resulting in serious gas escape and potential injury to the operator and those in the near vicinity.

FAILSAFE SOLUTION FOR GG10 NOZZLES


The '**LG11 Back-Check Valve**' is a safety fill adapter for use with the GG10 High Flow nozzle. It is screwed onto the tank filler outlet before coupling the nozzle. The LG11 offers a quick and reliable answer to leaking fill point check valves.

Like the GG10 nozzle, the LG11 Back-Check Valve incorporates a **failsafe function**. When not properly coupled to the GG10 nozzle *and* the fill point of the tank, accidentally engaging the nozzle lever will not lead to a discharge of gas.



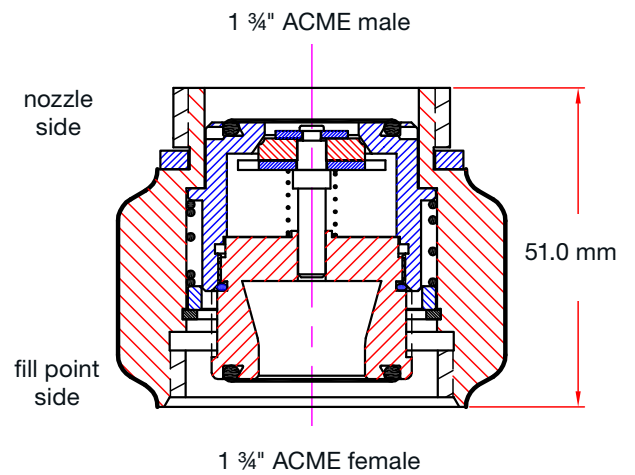
LG11 Back-Check Valve

listed by Underwriters Laboratories, No. 47NM

	LISTED GASGUARD NOZZLE HOSE NOZZLE VALVE FOR L.P.G. MAX. PRESSURE 350 p.s.i. manufactured by: L.G. EQUIPMENT PTY LTD NSW AUSTRALIA
	47NM

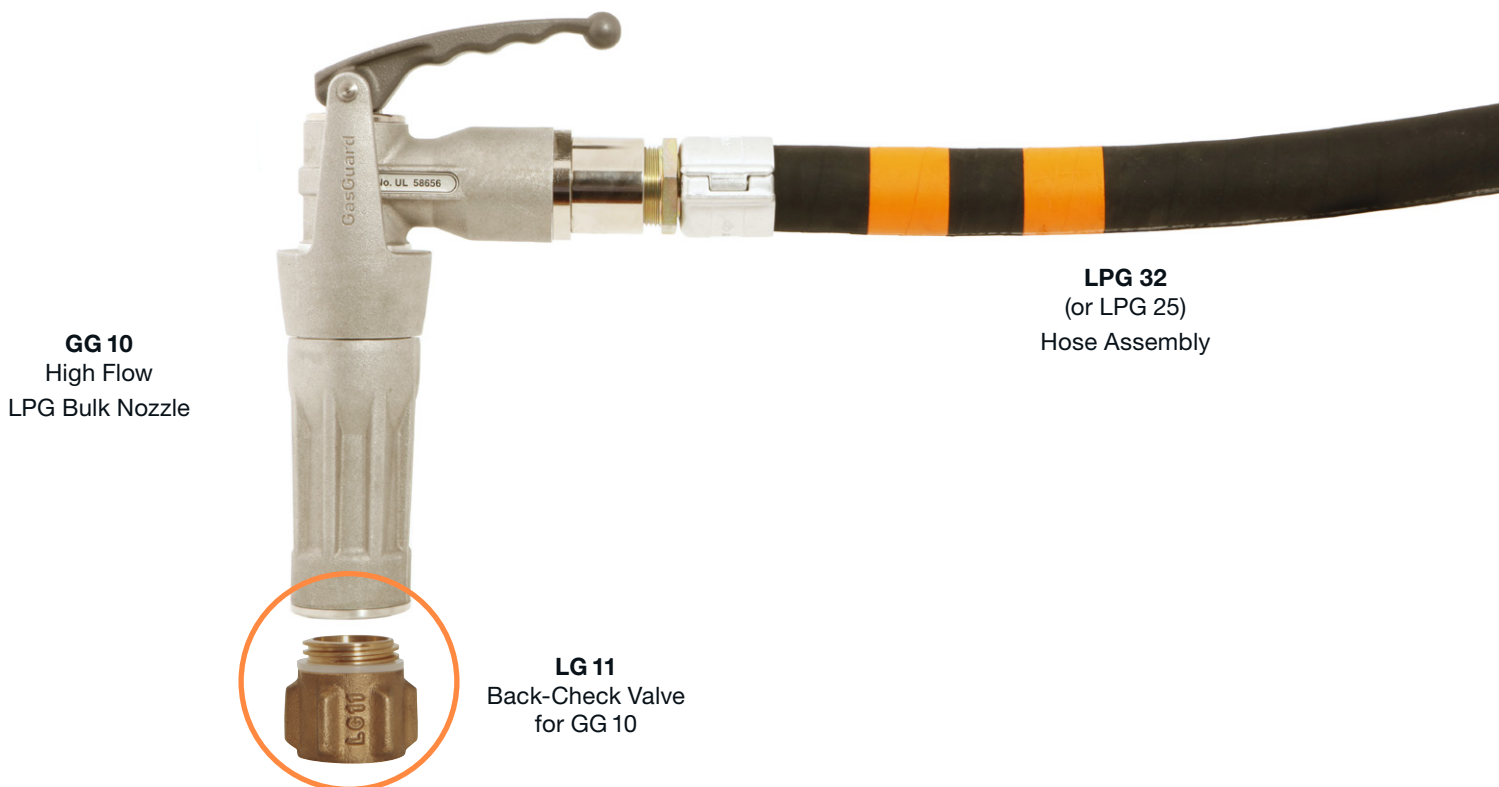
FEATURES OF LG11 BACK-CHECK VALVE

- Failsafe LPG bulk filling operation with GG10 nozzle
- UL listed
- Safe function also without fill point gasket
- Max. working pressure 25 bar
- Minimal flow resistance
- Free swivel action of GG10 nozzle
- Large ribs for easy, tight connection by hand
- Exterior PU seals, interior Viton seals, temperature range -45°C to 100°C
- Body of red bronze, total weight 0.47 kg, compact construction



Part Number: LG11 Back-Check Valve for GG10 nozzle

Note: The LG11 Back-Check Valve is specifically designed for use with the GG10 High Flow nozzle.



GG 10
High Flow
LPG Bulk Nozzle

LPG 32
(or LPG 25)
Hose Assembly

LG 11
Back-Check Valve
for GG 10