

# INSTALLATION INSTRUCTIONS FOR QUALIFIED TECHNICIANS LPG SHEAR VALVE DEVICE (OC123)

211067 Rev C, November 2022

- **How to use this Manual:**

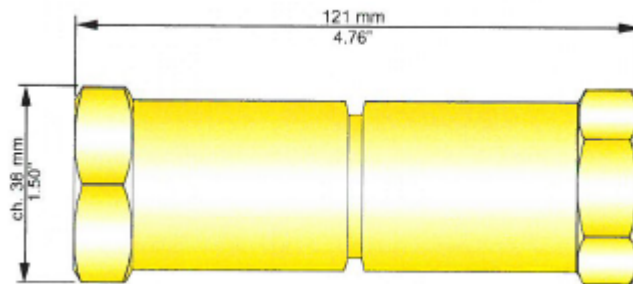
This manual has been prepared as a general guide for the OPW OC123 series of LPG Shear Valve. This information is intended as a general outline to familiarize the installer/end user with the techniques and procedures used to install and inspect the device. Local codes and standards shall be considered.

- **General:**

The OPW OC123 Shear Valve is an emergency breakaway designed for LPG. The valve, intended for installation at the base of the dispenser pedestal, is designed to break at the shear groove in the event of severe impact, helping to minimize the loss of product and damage to underground piping.

Failure to follow these instructions or to provide a rigid mounting to both halves of the OPW OC123 may result in a failure of the valve to break at the shear groove. Proper operation is dependent on proper installation. The valve body must be rigidly anchored to a structural member within the island and also to the dispenser to insure controlled breakage at the shear groove in the event of severe impact. Failure to follow these instructions or to provide a rigid mounting to both structures may result in a failure of the valve to break at the shear groove. This may result in a loss of product or damage to underground piping, which could lead to a potentially hazardous condition

The OPW OC123 operates at service pressure up to 25 Bar (362 PSI) and an operating temperature range of -30°C to 80°C (-22°F to 176°F). Threaded connections are ¾ inch GAS. These Breakaways are designed to separate within a breaking moment range 300Nm to 600Nm (221 Ftlb<sub>f</sub> to 442 Ftlb<sub>f</sub>) as per EN 14678-1



Marking: FTZÚ 18 ATEX 0082 I12 G IIA T6 According to directive 2014/34/EU

## INSTALLATION STEP 1: ATTACH VALVE TO RISER STUB

Thread valve tightly onto riser stub using the wrench flats only.

## INSTALLATION STEP 2: ATTACH VALVE TO DISPENSER STUB

Hold valve steady with one wrench on the flats. **Note: If the wrench is turned, the Shear Section will break.**

A second wrench is used to tighten the dispenser pipe being attached.

## STEP 3 OPW RECOMMENDED INSTALLATION:

The shear groove must be at the same level or a maximum of 12.7mm (1/2") above or below the top of the pedestal island. Failure to install the shear groove at this level may prevent the valve from breaking-off in the event of dispenser impact, resulting in a hazardous condition.

- **Routine Service:**

As part of the end-user's preventative maintenance program/schedule, the OC123 should be routinely checked for damage or leaks by a qualified technician.



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