

# Part 573 Safety Recall Report

# 18E-111

**Manufacturer Name :** Luxfer Canada Ltd.

**Submission Date :** DEC 14, 2018

**NHTSA Recall No. :** 18E-111

**Manufacturer Recall No. :** NR



## Manufacturer Information :

**Manufacturer Name :** Luxfer Canada Ltd.

**Address :** 4410-46 Avenue SE

Calgary, AB 00 T2B 3N7

**Company phone :** 4037200262

## Population :

**Number of potentially involved :** 1,607

**Estimated percentage with defect :** 100 %

## Equipment Information :

**Brand / Trade 1 :** Luxfer Gas Cylinders

**Model :** One-Turn Valve (OTV) MPVE-250

**Part No. :** MPVE-250

**Size :** N/A

**Function :** ctrl.fuel flow

**Descriptive Information :** The valves were manufactured from February 11, 2015 through July 26, 2018. This report covers all MPVE-250 valves manufactured during that period, which were all designed and manufactured to the same specifications.

**Number Potentially Involved:** 1607

**Estimated Percentage of Involved With Defect:** 100%

**Production Dates :** FEB 11, 2015 - JUL 26, 2018

## Description of Defect :

**Description of the Defect :** Luxfer Canada Ltd. ("Luxfer") designed the OTV to be opened and closed by hand, and with only one rotation ("one-turn") of the valve's knob. Using tools to rotate the knob can severely over-torque the valve. The valve's snap ring prevents rotation of the valve's knob more than "one-turn." Severe over-torquing can potentially damage the valve's snap ring and its gland. While Luxfer believes the valve was properly designed and manufactured, and is safe for its intended use, it is possible that with a damaged snap ring or gland, the valve can possibly be opened far more than just one-turn, to the point where the valve operator (a/k/a "stem") becomes unthreaded from the valve's body.

**FMVSS 1 :** NR

**FMVSS 2 :** NR

**Description of the Safety Risk :** The stem can become a projectile due to the rapid depressurization of the

**Description of the Safety Risk :** CNG fuel system, presenting a risk of bodily harm from impact. In addition, this unintended/inadvertent release of CNG, especially in an enclosed space, presents a risk of fire or explosion if exposed to an ignition source.

**Description of the Cause :** Misuse of the valve by severe over-torquing with tools.

**Identification of Any Warning that can Occur :** The knob may be much more difficult to turn than on an undamaged valve.

## Supplier Identification :

### Component Manufacturer

**Name :** Luxfer Canada Ltd.

**Address :** 4410-46 Avenue SE  
Calgary, AB FOREIGN STATES 00 T2B 3N7

**Country :** Canada

## Chronology :

Due to the character limitation in this electronic form, the manufacturer has attached its complete answer to this inquiry as "Attachment A to Amended Section 573 Report."

## Description of Remedy :

**Description of Remedy Program :** Luxfer will supply an Upgrade Kit for each valve, and credit vehicle manufacturers \$100 for each valve upgraded, up to a limit of \$250 per vehicle for those vehicles with multiple valves. The upgrade kit is field installable by an appropriately skilled technician.

**How Remedy Component Differs from Recalled Component :** The Upgrade Kit, which includes "No tools" decals, knob and a backup ring and nut, which doubles the valve's over-torque resistance.

**Identify How/When Recall Condition was Corrected in Production :** Luxfer produced a new variant MPVE-250-2 One-Turn Valve, incorporating components similar to the Upgrade Kit, intended to mitigate over-torquing. In late August 2018, Luxfer visited a refuse hauler operating large numbers of garbage trucks equipped with CNG fuel systems manufactured by a different customer. Luxfer inspected fifty-three valves and found no evidence of over-torquing or damaged or missing snap rings. Luxfer removed twenty-one valves for examination and replaced them with the MPVE-250-2 One-Turn Valve.

Luxfer also shipped nine of the MPVE-250-2 Valves to Customer, and Luxfer believes that Customer installed six of the valves by in August 2018.

Other than supplying Customer with nine of the MPVE-250-2 Valves and installing another twenty-one of them for the refuse hauler, Luxfer has not otherwise distributed or sold the MPVE-250-2 Valve, has no open orders for them, and does not plan to continue production.

## Recall Schedule :

**Description of Recall Schedule :** Luxfer has already notified all of its eleven customers. Luxfer will distribute a Part 577 letter within 5 days of approval by NHTSA. Luxfer anticipates that its customers will notify vehicle owners.

**Planned Dealer Notification Date :** NR - NR

**Planned Owner Notification Date :** NR - NR

## Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

**Name :** A-1 Alternative Fuel Systems

**Address :** 2320 Stanislaus Street  
Fresno CA 93721

**Country :** US

**Company Phone :** 5594854427

**Name :** Agility Fuel Solutions

**Address :** 3335 Susan Street  
Suite 100 Costa Mesa CA 92626

**Country :** US

**Company Phone :** 9492365520

Name : Amrep, Inc.  
Address : 1555S.Cucamonga Ave.  
Ontario CA 91761  
Country : US  
Company Phone : 9099230430

Name : Atco Gas  
Address : 5623-82 Avenue  
Edmonton 00 AB T6B 0E8  
Country : CA  
Company Phone : 7802388660

Name : Certified CNG Inspector, LLC  
Address : 4940 Toproyal Lane  
Jacksonville FL 32277-1043  
Country : US  
Company Phone : 8132201653

Name : Creative Bus Sales Inc.  
Address : 14740 Ramona Ave.  
Chino CA 91710  
Country : US  
Company Phone : 9094655528

Name : LaBrie Environmental Group  
Address : 175-B Route Marie-Victorin Levis  
Quebec 00 G7A 2T3  
Country : CA  
Company Phone : 4188318250

Name : Mainstay Fuel Technologies, LLC  
Address : 1274 S. State Road 32  
Union City IN 47390  
Country : US  
Company Phone : 7659643301

Name : McNeilus Corporation  
Address : 524 East Highway Street  
P.O. Box 70 Dodge Center MN 55927  
Country : US  
Company Phone : 5079935689

Name : North American Repower, LLC  
Address : 2625 Temple Heights Drive  
Oceanside CA 92056  
Country : US  
Company Phone : 6192444205

Name : Oshkosh Defense, LLC  
Address : P.O. Box 2566  
Oshkosh WI 54903-2566  
Country : US  
Company Phone : 9202359150

Name : Powertech  
Address : 315 Mountain Highway  
North Vancouver BC V7J 2K7  
Country : CA  
Company Phone : 7782884480

Name : Performance Plus  
Address : 10760 Royute 322  
Shipperville PA 16254  
Country : US  
Company Phone : 8142266900

\* NR - Not Reported