

Part 573 Safety Recall Report

18E-111

Manufacturer Name : Luxfer Canada Ltd.

Submission Date : DEC 01, 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 : NR

Address : NR

NR

Country : NR

Company Phone : NR

* NR - Not Reported