

Subject 125

October 20, 2017

SUMMARY OF TOPICS

The following change in requirements to the Standard for Flow Control Valves for Anhydrous Ammonia and LP-Gas, UL 125, is being proposed:

1. Revision to requirements regarding latching fill nozzles for fill valves used with propane vehicles

STP BALLOTS AND ALL COMMENTS DUE: November 20, 2017

For your convenience in review, proposed additions to existing requirements are shown underlined and proposed deletions are shown ~~lined-out~~.

1. Revision to requirements regarding latching fill nozzles for fill valves used with propane vehicles

RATIONALE

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With the increase in use of LP-Gas in vehicles using increasingly larger systems, the amount of fueling and the time to fuel has increased. UL 125 currently does not allow a latch-open mechanism for LP-Gas Hose Nozzle Valves, which therefore requires someone to hold the nozzle open at all times while filling. This made sense when tanks were filled with the use of a liquid outage valve since someone had to monitor the filling to stop the flow when liquid appeared at the outage valve. However, with the advent of overfilling prevention devices in motor fuel applications the liquid outage valve is not used. The overfilling prevention device will close when the liquid level is at the full level in the tank, causing the pump to go into by-pass mode. This will be obvious to the filler who would release the nozzle lever to stop the flow. If a latch were allowed the filler would then release the latch rather than releasing the nozzle lever. Any delay in releasing the latch would allow minimal liquid into the tank since the only flow path is through the by-pass in the pump.

UL 125 does not preclude a latch for transfer valves in Chapter 21, but it does prohibit latches to be used on hose nozzle valves. It appears to be inconsistent to allow a latch in one transfer situation and not allow it in another. Given that the transfer has to be monitored in both cases there is no need to preclude the latch on a hose nozzle valve.

PROPOSAL

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CONSTRUCTION**21 Lever Operated Transfer Valves and LP-Gas Hose Nozzle Valves**

21.3 A LP-Gas hose nozzle valve shall be self-closing upon removal of the manual force, ~~or automatic release of the operating lever, or release of the latch-open mechanism.~~

~~21.4 A LP-Gas hose nozzle valve shall not incorporate a latch-open mechanism that will prevent the valve from being self-closing.~~

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