## Safety Comparison Hygienic Tanker Valve Safety



## Introduction



Dixon® takes great pride in upholding the highest standards of safety and quality in our products, and in a commitment to worker safety for those using our products.

In this safety bulletin, we detail the unique design features of our DX60-series tanker valve. Our valve reduces the major safety hazards present in competitor tanker valves whose critical safety hazards have led to finger amputations for valve operators, jeopardizing workplace safety for employees and overall productivity of operations.

## Easy-Lock Plunger

To facilitate the transfer of product using a tanker valve, it is important that the valve plunger be opened and remain open throughout the entire cycle. To achieve this, the implementation of a locking mechanism is needed to retain the plunger open.



Our unique easy-lock plunger does not require external locking devices to lock the plunger open during transfer. Instead, pull the plunger open and rotate the handle to engage the internal lock. No stem clip cotter pin needed.



Competitor valves require an external stem clip cotter pin to lock the plunger in the open position. This pin can be easily lost, leading to improvised devices being used to keep the plunger open. This creates multiple safety hazards.

## **Patented Closure System**

The majority of documented injuries on competitor valves occur due to premature removal of the external locking pin or the use of an improvised device during the transfer cycle. If the pin or device is removed during operation or if there is residual flow after the pump is powered off, the valve plunger undergoes an almost instantaneous transition from open to closed as the fluid forces the plunger to slam shut with tremendous force. This poses a serious risk for hand or finger entrapment between the handle and valve bonnet.



With the plunger in the fully closed state, there is 1-3/8" of clearance between the handle and bonnet on Dixon's DX60series tanker valve. This eliminates the finger or hand entrapment point present on competitor valves.



On competitor valves, the handle must thread onto the bonnet to reach the fully closed state. This traps the hand or fingers between the mating handle and bonnet during this rapid closure situation, leading to finger amputations.

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