

# نار الخليج Gulf Fire

**REPORTING TO THE MIDDLE EAST FIRE PROTECTION INDUSTRY AND FIRE SERVICES**

في إعداد التقارير عن الخدمات المتعلقة بصناعة الحماية من الحرائق والإطفاء في منطقة الشرق الأوسط.



# TLX Technologies

## Releasing devices for fire suppression systems with high operating pressure

**T**he primary purpose for all fire suppression systems manufactured globally is the protection of life and property. While configuration of these systems can differ based on the system components, the extinguishing agent and the environment in which the system is used, the objective remains consistent.

One of the key components in a fire suppression system is the releasing device that mechanically initiates the discharge of the extinguishing agent that will combat the fire. Many systems utilize an electric actuator as the system's releasing device. Two common forms of this electric actuator are a latching solenoid actuator and a direct-acting solenoid. The releasing device is attached to the discharge valve on the cylinder storing the suppressant and is electrically connected to the fire

alarm control panel. Once the actuator or solenoid receives an electrical signal, it will deploy, causing the release valve to dispense the extinguishing agent into the system.

Fire suppression systems are highly effective for extinguishing fires but are also open to potential failures due to human error during installation, routine maintenance or functional testing of the system's releasing devices. If an actuator is not properly installed onto the discharge valve, it will not operate correctly to dispense the extinguishing agent, resulting in a system failure. Without an installation supervisory signal between the releasing device and fire panel there is no indication of proper installation leaving the responsibility of accurate installment solely on the technician who removed the actuator for maintenance or testing purposes. Industry regulators quickly recognized that adding supervisory requirements to the releasing device would provide for the necessary alarm (both visually and audibly) to alert the technician on whether the actuator

was correctly installed and in the right position for proper system functionality.

All releasing devices developed by TLX Technologies for fire suppression systems meet required UL and NFPA wiring codes and standards. An internal supervisory mechanism has been designed into each actuator and solenoid to ensure that it is properly installed on the appropriate discharge valve of the extinguishing agent storage container. Integration of the supervision mechanism in our actuators eliminates the need for additional components, connections and wire paths; resulting in a streamlined, NFPA-compliant solution that provides supervision of both the releasing device's proper placement as well as electric connection to the fire panel.

TLX Technologies will be introducing our newly designed Increased Force Electric Actuator as well as our High-Pressure Direct-Acting Solenoid for systems with high operating pressures at Intersec 2017 in Dubai. Both releasing devices can be tailored to your system's operating pressure requirements as needed. These newly designed components will join the growing family of releasing devices for fire suppression systems offered by TLX Technologies that will be showcased at Intersec later this month.

For over 15 years, TLX Technologies has worked with system manufacturers to develop and manufacture custom actuators and valves to meet the challenging demands of active fire suppression systems. Choosing a TLX actuating device for your fire-suppression system ensures a faster, more durable, reusable solution – expertly tailored to your exact needs. Each device rotates for easy installation on fixed systems and can be custom configured for your specific system requirements. Our fire suppression actuators are designed for compliance to UL, FM, CE, PCB and VDE.

▼ TLX Technologies to showcase entire line of releasing devices at Intersec 2017, Booth 4-H16.



Image courtesy of TLX Technologies

 For more information, go to [www.tlxtech.com](http://www.tlxtech.com)