

Mueller® Hydrant Security Solutions



Enhanced safety and security from the
industry innovator

Mueller Co.

GUARD PUBLIC WATER AGAINST ACCIDENT OR ATTACK

The events of recent years have heightened our nation's awareness of threats to the public water supply. For more effective fire hydrant security, Mueller offers several products to protect against accidental or deliberate contamination of public water.

It's all backed by Mueller

Mueller is the only company making both fire hydrants and the security devices that protect them. This is your assurance that the security devices are 100% compatible with hydrant operation and maintenance. Plus, Mueller stands behind every hydrant and security device with a strong warranty – something no other supplier can claim. When hydrants need protection, trust the hydrant company that has been the water distribution industry leader for 150 years – Mueller Co.

Mueller® Super Centurion 250/HS™ “High Security” Fire Hydrant

Built-in protection against contamination

With a special shoe that incorporates a check valve, the Mueller® Super Centurion 250/HS™ Fire Hydrant resists both accidental and deliberate contamination of the water supply – without affecting normal hydrant operation or maintenance.

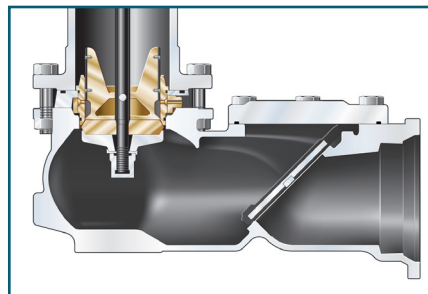
This self-contained security function is reliable and maintenance-free. Tested to last over 1 million cycles, the check valve is positioned ahead of the hydrant main valve so as not to interfere with normal hydrant maintenance or repair, or with access to water in an emergency.

Secure and reliable check valve

- Resilient “no-slam” operation does not cause water hammer
- Only moving part is the steel and fabric reinforced elastomeric flapper
- No preventive maintenance of check valve required

Superior hydrant performance

- Standard Centurion® parts throughout
- Standard Centurion hydrant performance and reliability



Patent pending



Mueller® Hydrant Defender™ Security Device

Prevent unauthorized access to hydrant components

The most affordable hydrant security system available today, the Mueller Hydrant Defender Security Device provides protection to hydrants at two levels. First, the heavy stainless steel straps prevent unauthorized access to the nozzles and operating nut. Second, evidence of tampering will be visible.

In the event of an emergency, fire personnel can open the lock and remove the Hydrant Defender straps in seconds. When the device is securely locked, the hydrant nozzles and operating nut can only be accessed by completely cutting through the heavy straps or barrel lock. Damage to the straps or lock will be visible, even from a distance, and the water authority can investigate the problem. The recommended stainless steel barrel lock features keys that are uniquely coded for the purchaser and strictly controlled by the lock manufacturer.

The Hydrant Defender device can be factory-installed on the Mueller Super Centurion® Hydrant or ordered separately. Its straps are adjustable to accommodate differences in hydrant dimensions, and models are available to fit virtually any make of 3-way hydrant.



Mueller® Tamper-proof Operating Nut

This simple, yet effective option protects against unauthorized operation, theft of parts and vandal-inflicted damage to the operating and hold-down nuts.

A cast-iron cap that spins freely on top of the hydrant bonnet shields the operating mechanism and protects it from would-be vandals. Common tools cannot grip the cap, the operating nut or the specially shaped hold-down nut.

The tamper-proof feature can be ordered factory-installed on new Centurion® hydrants, or as a kit to retrofit Centurion and Mueller Improved hydrants in the field.



Mueller® Tamper-resistant Hydrant Hold-down Nut

The Mueller Tamper-resistant Hydrant Hold-down Nut replaces the existing hold-down nut and surrounds the operating nut, helping prevent unauthorized operation of Mueller Centurion® and Improved Fire Hydrants. The special operating wrench for use with this option may also be used with other hydrants.

The O-ring-sealed hold-down nut may be ordered “open left” or “open right,” and as original equipment or as a retrofit.



Active vs. Passive Protection

Most hydrant security devices on the market today are considered either “active” or “passive.”

- “Active” devices typically require removal before the hydrant is used.
- “Passive” devices typically are intended to address contamination by way of fire hydrant tampering or by accident. They provide 24/7 protection and allow normal hydrant operation without any special tools, with virtually no effect on firefighters’ emergency use or normal hydrant maintenance.

“Active” devices typically require a special tool to use the hydrant, but the availability of those tools has not been controlled. “Passive” devices do not require a tool.

Levels of Protection

All hydrant security devices fall into one of three categories:

- They deter theft of water or hydrant parts
- They deter infiltration or contaminants into the water system
- They deter both theft and contamination

MUELLER® SECURITY SOLUTIONS	ACTIVE	PASSIVE	DETERS THEFT	DETERS CONTAMINATION	DETERS OPERATION
250/HS™		X		X	
HYDRANT DEFENDER™	X		X	X	X
TAMPER-PROOF OPERATING NUT	X		X		X
TAMPER-RESISTANT HOLD-DOWN NUT	X		X		X

No other company can match Mueller.

Mueller designs, manufactures and warrants all of its hydrants and security devices. That’s a claim no other company can make. When you choose the Mueller® brand, you get everything you need for hydrant protection – and it’s all backed up by the biggest name in the industry.

For more information, contact your local authorized Mueller Distributor, your Mueller Sales Representative, or call our Customer Service Center at 1-800-423-1323.

Fire Hydrant Security Specification

(Sample addition to regular hydrant specification for passive security option.)

1. In order to ensure proper compatibility and limit warranty issues to a single party, all security devices must be designed, manufactured and installed by the hydrant manufacturer.
2. The device must be internal to the fire hydrant and must not hinder or alter current established maintenance procedures. No external locks or special wrenches that would hinder the firefighters’ access to water are allowed.
3. The device must prevent a contaminant from entering the distribution system through the fire hydrant by either preventing the introduction of a contaminant into the hydrant or preventing a contaminant to escape through the hydrant into the distribution system in a backflow or back-siphonage condition.
4. The device must not increase the overall fire hydrant pressure drop through the pumper nozzle at 1000 gpm by more than 1 psig (for a 4-1/2” or larger nozzle).
5. The secure fire hydrant shall be the Mueller® Super Centurion 250 HS™ (high security).



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All products must be installed and maintained in accordance with applicable instructions and/or standards.