

AUGUST 2017

SAFETYZONE MAGAZINE

Introducing the Radiation Alert™ Ranger

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Fall Protection Plan

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Air Venting Valves

VENT TO PREVENT CORROSION



Model 7900 AAV
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Model 7910 MAV
Manual Air Venting Valve



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μSv/hr - .01 to 1000

CPS - 0 to 5000

Total Counts- 1 to 9,999,000 counts

Accuracy (Referenced to Cs137)

Typically ±15% from factory, ±10% with NIST Source Calibration

Energy Sensitivity

Detects Alpha down to 2 MeV. Detects Beta down to .16 MeV; typical detection efficiency at 1 MeV is approx. 25%. Detects Gamma down to 10 KeV through the detector window. 3340 CPM/mR/hr (¹³⁷Cs). Smallest detectable level for ¹²⁵I is .02 μCi at contact.

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Calibration Technologies ————— ————— Ammonia Gas Detectors for Harsh Environments

Calibration Technologies, Inc (CTI) is a leading manufacturer of gas detection equipment for industrial facilities. Their customers include food processing plants, cold storage plants, chiller plants, rendering plants, power plants, chemical plants, pharmaceutical plants, sea vessels, and hazmat/emergency response agencies. CTI specializes in gas detectors for Ammonia, Carbon Dioxide, Carbon Monoxide, Chlorine, Hydrogen Sulfide, Methane, Halocarbons, and many others.

CTI designs, manufactures, and sells, and service gas detection equipment that protect people and property from dangerous gas leaks and assure compliance to all current codes and regulations regarding the handling of these gases. When you call CTI, a real person will answer the phone, providing quick access to experienced staff members (including technicians and engineers), for technical assistance on gas detection system design and support.

The products are manufactured in house in Columbia, MO, allowing CTI to control quality and keep their products in stock for fast response times for customers. They strive to ship out products within 1 day of receiving orders, rivaling all other gas detection manufacturers. The quick turnaround on parts, and excellent product support have made CTI an industry leader in providing gas detection products in the USA and abroad.

CTI was founded in 2004 by brothers Brian and Kevin EuDaly, after noticing a need for gas detection equipment that could stand up to the extreme conditions experienced in most food processing and cold storage facilities. The once small business has grown exponentially every year since, as has their innovative product line. The same qualities that helped the business jump start in 2004, have led to immense growth and product development, retaining existing customers and rapidly expand-

ing their customer base. The family atmosphere of the once small business, has been passed down to employees, leading to a loyal customer base that trusts the manufacturer of life safety equipment.

The product line was developed to overcome the failure of standard gas detection equipment when exposed to extreme temperatures, moisture, cleaning chemicals, and cross sensitivity from other gases. Industrial facilities often experience false alarms, increased maintenance costs, and frustration with gas detectors designed more for commercial environments. These issues led CTI to focus on building a product line of gas detection equipment that functions properly in extreme conditions. The engineers, chemists, and production experts are constantly listening to feedback from customers and designing new and innovative products that solve problems experienced in industrial environments.

CTI gas detectors are built for the harshest environments and thrive in conditions where other sensors fail. They can handle hot, wet, cold and harsh environments without breaking down or setting off unwanted alarms. Built food industry tough, they can handle extreme temperature swings that occur in cleaning and defrosting processes. Circuit boards and components are potted in a water-proof, rugged potting compound that provides protection from not only sprayed water and chemicals, but also from destructive corrosion caused by long-term exposure to moist, damp environments.

Rigorous testing of each and every sensor ensures that it will perform properly in a multitude of applications. All sensors undergo a rigorous testing period and must pass many inspections before they are put into inventory.

The sales and service team are expe-

rienced and equipped to answer all questions and design a system that meets the unique needs of customers. CTI's mission is to provide the best gas detection equipment in the industry to conform to all codes, protect property, and most importantly, protect personnel.

Check out CTI's full product line today on their website www.ctiengineering.com, by emailing sales@ctiengineering.com or by calling in (866-394-5861) to talk to one of their experienced sales staff.



Calibration Technologies is a leading manufacturer of gas detection systems and accessories operating out of Columbia, MO. CTI has provided toxic and flammable gas detection sales and service for many years. Our engineers and technicians have over 30 years of experience in system design, sales, and field service.

We service a wide variety of industries including food processing plants, cold storage plants, chiller plants, rendering plants, power plants, chemical plants, pharmaceutical plants, ships, and hazmat/emergency response agencies.

We specialize in detecting a variety of gases including: Ammonia, Carbon Dioxide, Carbon Monoxide, Hydrogen, Methane, Hydrogen Sulfide, Chlorine, Halocarbons, and more.

Calibration Technologies provides sales, repairs, and in-house calibration services for fixed and portable gas detectors. Our service technicians provide on-site calibration at customer facilities, including certified documentation and field calibration service for all your gas detection equipment. We have decades of experience designing and calibrating ammonia gas sensors, making sure they work in your extreme environments.

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risk programs?



Topic	Question ID	Audit Questions	Auditor Guidelines
CheckPoint® Office Audit Protocols Environmental Health And Safety	CHC-130.1.US	1. Does the facility have an employee alarm system? Cite: 29 CFR 1910.395(c), 29 CFR 1910.155	An employer must have and maintain an employee alarm system that is able to be heard, seen, or otherwise perceived by everyone in the workplace. The employee alarm system must be distinctive and recognized by all employees as a signal to evacuate the work area or perform actions identified in the ERP/SAP.
OFFICE: ALARM SYSTEMS	CHC-130.2.US	2. Is the employee alarm system tested annually? Cite: 29 CFR 1910.155(d)(6)	Employee alarm systems must be tested at least annually for reliability and adequacy.

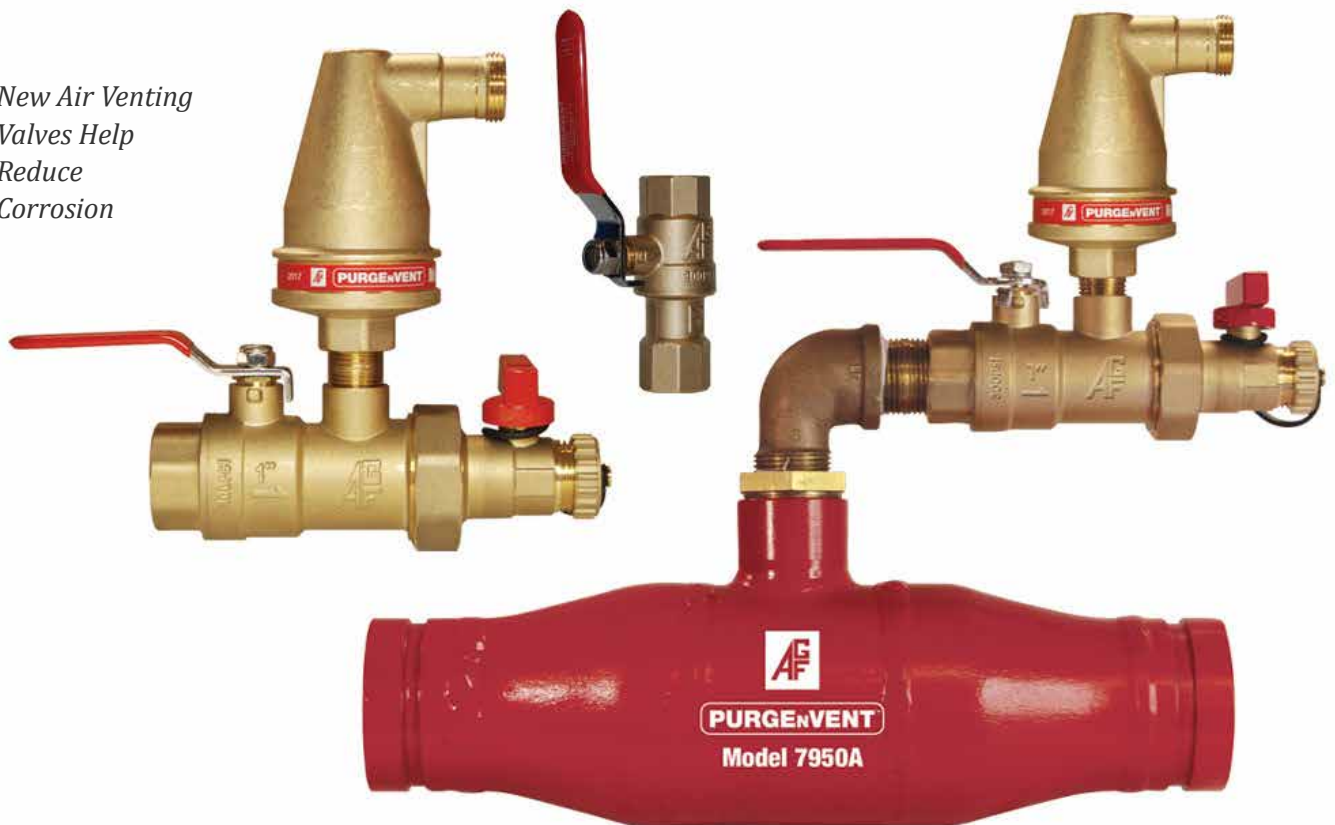
G. AUDIT QUESTIONS						
Date: _____						
Facility: _____						
Auditor: _____						
Question ID	Audit Questions	Auditor Guidance And Notes-Audit Questions	Y E S	N O	N A	Comments
ERGONOMICS						
OFF-140.1.US	1. Are workstations configured so that employees can achieve ergonomically correct working postures?	Workstations should be configured to prevent common ergonomic problems. The computer keyboard and mouse should be within easy reach and at a comfortable height (elbow high), the keyboard and monitor should be aligned, and the screen should be at or slightly below eye level. There should be no under the desk storage.				
OFF-140.2.US	2. Are chairs used at workstations adjustable and in good condition?	Chairs should be so that employees can work in a comfortable seated position, with good body support. Chair height should allow feet to rest flat on the ground with thighs parallel to the ground.				

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AGF Manufacturing Launches PURGENVENT™ Air Venting Valves

*New Air Venting
Valves Help
Reduce
Corrosion*



AGF Manufacturing Inc., a designer and manufacturer of specialized fire sprinkler products and components, announced the launch of their newest product line, PURGENVENT™. PURGENVENT™ Air Venting Valves are designed to remove excess air from sprinkler pipes to meet and/or exceed the new venting requirements established in NFPA 13 (2016).

Remove Oxygen, Reduce Corrosion

Corrosion occurs when the oxygen trapped within fire sprinkler systems interacts with water or moisture and the metal pipes. Left unchecked, corrosion can develop into major failures costing millions in damages. With corrosion-related failures in fire sprinkler systems on the rise, and after much review on corrosion and corrosion reduction by NFPA 13 technical committees, the NFPA has added air venting requirements to the NFPA 13 (2016) standard.

Simple, Robust Technology with Built in Purge Valve

Designed to work alone or in tandem, PURGENVENT™ Air Venting Valves are designed to remove the oxygen trapped in the system to reduce corrosion activity. PURGENVENT™ valves come in three different models. Each model allows for the simple purging and venting of trapped air - reducing the potential for corrosion in wet fire sprinkler systems. The PURGENVENT™ Air Venting Valve product line includes both manual and automatic models - Model 7910MAV (Manual Air Venting Valve),

Continued on Page 14



Regulations can be complicated, but they don't have to be. RegScan's WIKI feature provides clear analysis on the newest and most important environmental regulations in easy-to-follow articles authored by subject matter experts. The article-based system explains key provisions and requirements so users can proactively stay transparent while preventing and mitigating risks.



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- Includes contact information and bios for all authors

- Displays the date when the article was last updated

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Revised Ambient Air Monitoring Quality Assurance Requirements

ABSTRACT

The revised air monitoring quality assurance requirements are EPA's first comprehensive changes to the air monitoring rules since 2006. These changes formalize many changes that had been informally adopted by Agency memorandum and guidance documents. Many of the changes were driven by improved monitoring technology—such as continuous particulate matter analyzers—that were not commonly available at the time of the previous update.

The revised rules also revert to the pre-2006 structure whereby state and federal monitoring program requirements are set out in Appendix A, with industrial PSD monitoring requirements specified in Appendix B. EPA provides a summary of the changes at the following URL:

https://www3.epa.gov/ttnamti1/files/ambient/pm25/Summary_of_Appendix_A_Changes_10201_25_2016.pdf

ARTICLE

Key Changes

The revised regulation once again separates the quality assurance requirements applicable to state and federal monitoring programs from those for industrial PSD monitoring. This change recognizes the many differences in the objectives and implementation approach between the state and industrial monitoring programs. Other significant items include:

- Increased emphasis on the role and responsibilities of the Primary Quality Assurance Organization (PQAO)
- Requirement that EPA be provided a courtesy copy of an organization's Quality Assurance Project Plan (QAPP), even if that PQAO has been delegated QAPP review authority by EPA
- Clarification of the applicable system and performance audits and required frequency for each type of monitoring program
- Updated calibration and audit ranges for gaseous analyzers

Impacts On Existing Monitoring Monitoring Programs

Model 7900AAV (Automatic Air Venting Valve), and Model 7950ILV (Inline Air Venting Valve).

PURGENVENT™ Model 7910MAV (Manual Air Venting Valve) is a ½" ball valve with integral strainer and ball check. This manual valve is designed to allow for the venting of air while the system is filling.

PURGENVENT™ Model 7900AAV (Automatic Air Venting Valve) is a 1" ball valve with integral isolation valve, strainer, purge valve and automatic air vent. This single body valve with hose threads on the purge valve is designed to allow for the rapid purging of air from the pipes as the system is filling, and the automatic venting of air once the system is operational.

The PURGENVENT™ M7950ILV (Inline Air Venting Valve) was developed for use in systems with location restrictions. The M7950ILV utilizes an inline specially designed air/water separation chamber with an air scoop to aid in the separation of air from water during system filling and testing. The separation chamber's larger diameter allows water entering the chamber to expand momentarily and separate from the air which is then scooped into the venting assembly to be released by the M7900AAV.

Compact Size for Easy Serviceability and Installation Flexibility

PURGENVENT™ Air Venting Valves are the smallest air venting valves in the market. Their compact size allows for easier installation and greater flexibility in placement.

For more information about PURGENVENT™, visit www.purgenvent.com or contact AGF Manufacturing at 610-240-4900.

About AGF Manufacturing Inc.

AGF is the designer and manufacturer of the most reliable and versatile line of inspector's test and drain valves, auxiliary drains, corrosion monitors, air venting valves, and accessories in the fire sprinkler industry.

AGF is continually working in the field to improve existing products and deliver innovative, reliable, and code compatible fire protection products for commercial and residential fire sprinkler systems worldwide. Our family of products include: TESTANDRAIN®, COLLECTANDRAIN®, CORRINSITE™, PURGENVENT™, REMOTETEST®, INSPECTOR'S TEST™, RISERPACK™, and TESTANSAVE™.

For additional information about AGF and our innovative line of fire protection products, please visit:

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Make An Informed Fall Protection Plan

Falls continue to appear at the top of OSHA's top 10 most cited workplace violations. For many companies, engineered fall protection remains a mystery. What are the requirements? Who's responsible for choosing a system? Who's responsible for maintaining it? How do we know we chose the right solution?

CAUTION

All Workers are required to use the Fall Protection System when working on the Tower at a height of 6 feet or more. It is not a fall arrest system. It is a fall prevention system. See the Required Signage for a Fall Protection System and Specific Instructions.

Thank You - We Care About Your Safety!



Gorbel, a leading manufacturer of engineered fall protection solutions, turned to several industry experts to help clarify some of these issues. The complete findings, plus potential solutions, can be found in the ebook, “Fall Arrest: Insights and Ideas for Workplace Compliance,” which is available for download at www.gorbel.com/righttrack. This article provides a summary of common issues, as well as solutions.

Problem: Installing incomplete or inadequate fall protection.

Many businesses don’t fully understand fall protection requirements, and choose a system based on what’s the least expensive or the easiest to incorporate into their facility, meaning they often select a fall protection product that isn’t the best solution for their individual application. While *any* fall protection is probably better than no fall protection, inadequate or incomplete fall protection could potentially still expose them to risk. What Gorbel heard often from the experts was, “work doesn’t stop if you don’t have a fall protection system.” Translation: it’s not a top priority. The problem with that mindset? Increased potential for catastrophic risk to your workers and your business.

Solution: Choose a system designed specifically for your application.

The experts all advise going with a fall arrest anchorage system that is engineered specifically for your application. Whether your application is maintenance, production, unloading or reloading, engineered fall protection solutions can offer the safest and most productive solution for your application. Reach out to a company that specializes in fall protection solutions. They can evaluate your application and your environment and recommend a solution that meets OSHA requirements, fits your budget, and doesn’t interfere with your productivity.

Problem: Fall protection is considered a discretionary spend.

Despite a clear mandate that fall protection be implemented for workers at elevations above four feet, many businesses still

consider it “optional,” exposing them to considerable risks like steep fines, workplace shutdowns, legal fees, and medical bills related to a fall.

For general industry, OSHA requires that workers be protected at heights greater than four feet. OSHA regulations are legislation and must be followed under penalty of law.

In addition to federal regulations, there are “voluntary”

consensus standards regarding fall protection set forth by the American National Standards Institute (ANSI) and Canadian Standards Institute (CSA). While not enforceable by law, these standards are typically adopted by OSHA or other regulatory agencies and should be adhered to.

Solution: Elevate your fall protection planning.

If you’re responsible for an elevated workforce, it pays

to plan ahead. Doing so can save lives and help reduce risk for the company you work for.

The components of a sound fall protection plan are to:

- Define the scope of your fall protection program
- Identify all work area fall hazards
- Determine appropriate methods of protection: eliminate, prevent, control
- Conduct extensive employee education and training
- Perform inspection and maintenance of fall arrest equipment
- Administer and audit the program for compliance and continuous improvement

Problem: Decision by committee – without the right information.

The experts agree: many businesses simply don’t know how

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WHY IS IT OKAY WHEN IT'S ONE OF YOUR WORKERS?

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to go about making the right fall protection choice. Because a fall protection decision is often made in the wake of an accident, decisions are sometimes made hastily based on financial considerations and not what is safest or best for the workers.

Solution: Assemble the right fall protection team.

Assembling the appropriate team to choose, implement and manage the best solution is key to the process. It's imperative to include the right mix of decision makers and influencers, and designate clear roles and responsibilities.

You should assign a person within your organization who has the training to properly determine what constitutes a fall hazard. Additionally, OSHA identifies two types of people who should execute the steps that constitute your fall protection plan: a competent person and qualified person. A Competent person is

capable of identifying hazardous or dangerous conditions in the personal fall arrest system or any component thereof, as well as their application and use of related equipment. A Qualified person has a recognized degree or professional certificate and extensive knowledge and experience in the subject field who is capable of design, analysis, evaluation, and developing specifications in the subject work, project, or product. See OSHA 29 CFR Part 1910 for more information on qualified and competent persons.

The final step: Engineering the right solution

With all of these insights, solutions, and tools in hand, you will be well prepared to make an informed decision on a fall protection solution. Your final step is to select a system that is designed to protect you from occupational fines, reduce your liability and raise worker productivity and morale.

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Wood Construction Safer Choice for Flammable Storage Cabinets Myth of Flammables Storage is Busted

The long held belief that flammable liquids should be stored in a metal storage cabinet is a dangerous myth. Using wood instead could actually save lives! The simple truth is that metal, even 2 layers of sheet metal with 1-1/2" of air space between them, is a quick conductor of heat. A properly built wood cabinet will begin to burn on the outside, but will keep heat from penetrating to the volatiles inside incredibly longer than a metal cabinet. The wood actually acts as a thermal insulator. OSHA 1910, NFPA 30, and UL 1275 have specific guidelines for the construction of a wood flammable storage cabinet because it works!

SciMatCo conducted a side by side fire burn comparison in which a 1900 degree Fahrenheit fire engulfed both a wood and metal storage cabinet. Within mere minutes, the internal temperature of the metal cabinet reached an



astounding 1400 degrees Fahrenheit. The wood cabinet, built according to NFPA standards, experienced internal temperature rise of only 8 degrees Fahrenheit during the entire 12 minute duration of the fire, keeping all contents cool, safe and secure. Keep in mind that glass bottles break at only 212 degrees Fahrenheit and plastic bottles melt at 320 degrees. Any flammables stored in glass, plastic or metal containers inside a metal storage cabinet engulfed in fire are not protected from heat, and will quickly FUEL the fire while the wood cabinet keeps contents cool and safe. Fire doors in most hotels and buildings are made of wood for the same reason – they don't conduct heat and they create a better barrier from fire.

Many believe that a flammable storage cabinet is intended to confine a fire that originates inside the cabinet. Not so! The idea is to keep the heat and fire outside the cabinet from reaching the contents for a sufficient period of time to allow people to escape and emergency personnel to respond. The properly built wood cabinet can accomplish this while the metal cabinet places people and property at tremendous risk. View the fire burn comparison video at www.scimatco.com •



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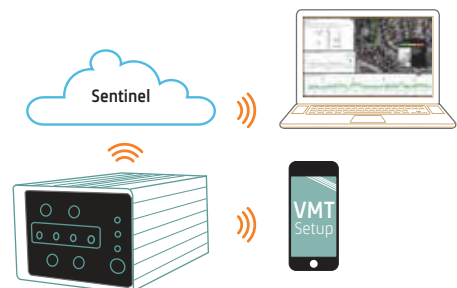
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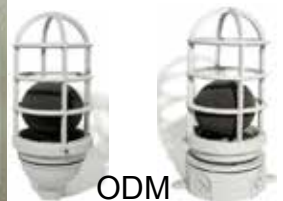
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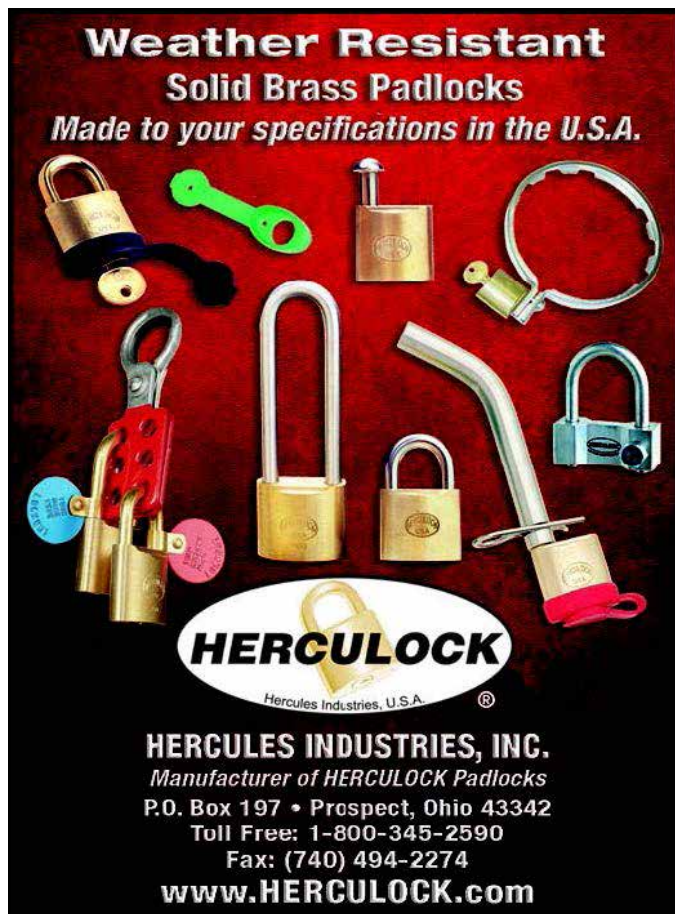
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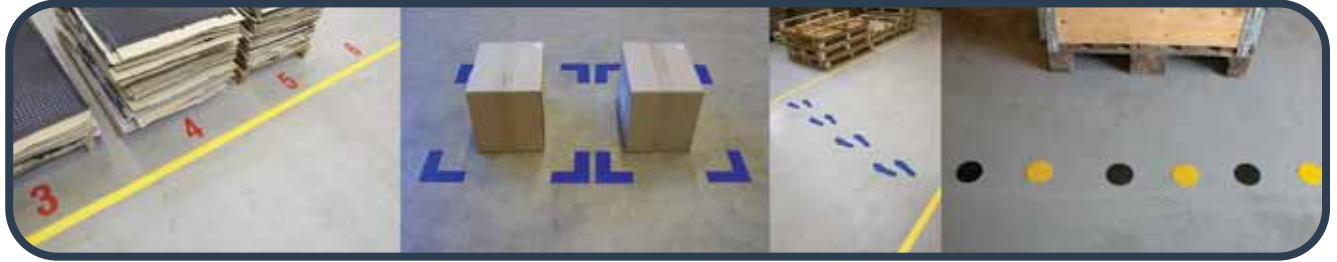
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