

Safety Vacuum Relief Systems (SVRS)

Presentation by:

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Recognize Five (5) Types of Main Drain Suction Entrapment...

- **Body Entrapment**
- **Limb Entrapment**
- **Hair Entrapment or Entanglement**
- **Mechanical Entrapment**
- **Evisceration**

What is a *Safety Vacuum Relief System*?

A *Safety Vacuum Relief System* is a system or device capable of providing vacuum release at a suction outlet caused by a high vacuum occurrence due to a suction outlet blockage. SVRS devices must allow for the vacuum release with or without suction outlet cover(s) in place, and shall operate in such a way as to not defeat or disengage other layers of protection installed to protect against suction entrapment.

What Does a *Safety Vacuum Relief System* Prevent?

- **Body Entrapment**
- **Limb Entrapment**

What Does a *Safety Vacuum Relief System* Not Prevent?

- Hair Entrapment or Entanglement
- Mechanical Entrapment
- Evisceration
- These can all be prevented by properly secured Anti-Entrapment main drain covers!!

How a Safety Vacuum Relief System Works...

- **By eliminating dangerous vacuum levels at all suction outlets.**

Principles of *Safety Vacuum Relief System* and How They Work...

- Turn off the pump
- Induce air into the system
- Turn off the pump and induce air into the system
- Never allow a high vacuum to occur
- Reverse water flow to the suction outlet
- Other means

Standards That Apply to *Safety Vacuum Relief System...*

- **ASTM PS-10**
- **ASME A112.19.17**

Alternatives to a Safety Vacuum Relief System...

- **Gravity Feed Drain Systems**
- **Properly Engineered Vent Pipe Systems**
- **No Below Water Level Suction Outlets
(Only Skimmers)**

When Is a Safety Vacuum Relief System Needed?

- **Whenever There Is Direct Suction To ANY Submerged Suction Outlet**

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