





Mats Norling  
Marketing Manager

1. Prison cell nozzle
2. Functional test of an automatic sprinkler nozzle



**ULTRA FOG<sup>®</sup>**  
FIRE EXTINGUISHING SYSTEM



# Welcome to Ultra Fog



**We are represented in Scandinavia, Europe, Asia and North America.**

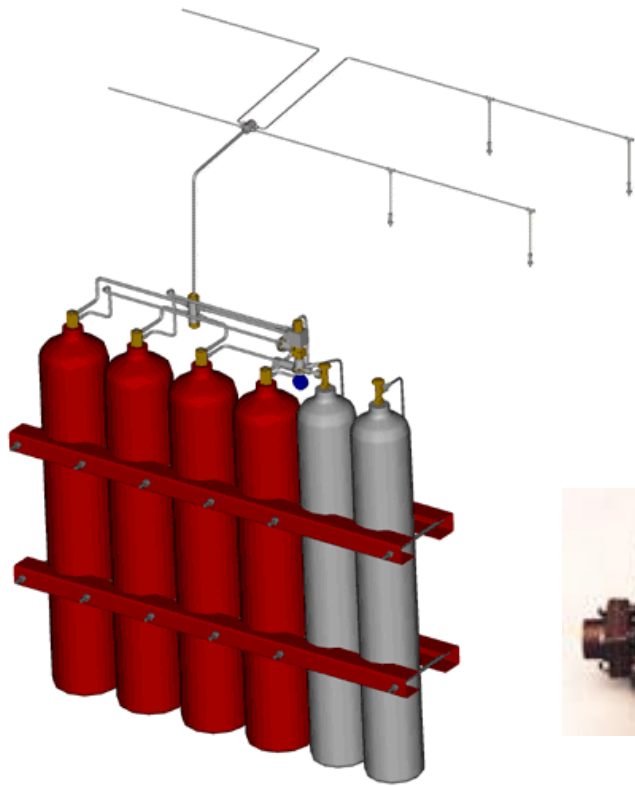
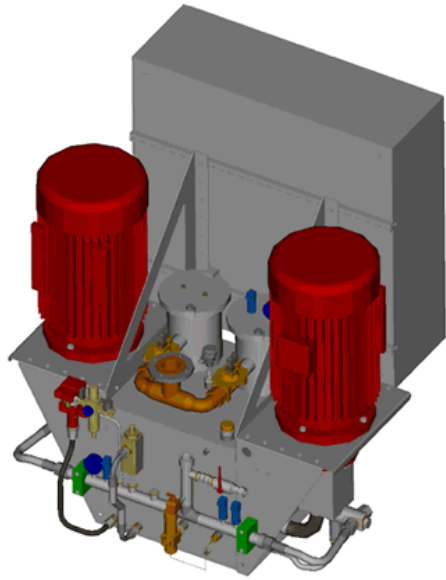


# Ultra Fog – The company

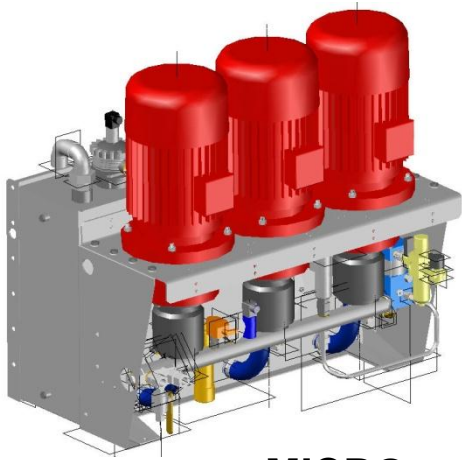
- Ultra Fog was founded 1990 and has since then been working with high-pressure water mist sprinkling.
- 1:st order for an system in 1991
- 2010 – New owners
- 2011 – Investments of > 1,5 M-EUR in fire testing
- 2012 – New offices in UK and USA
  
- Our system is approved by; BV, DNV, Rina, MCA, ABS, GL, Lloyds and SMA
- Fire testing according to IMO, FM, ISO at SP, SINTEF, SWRI, TESI



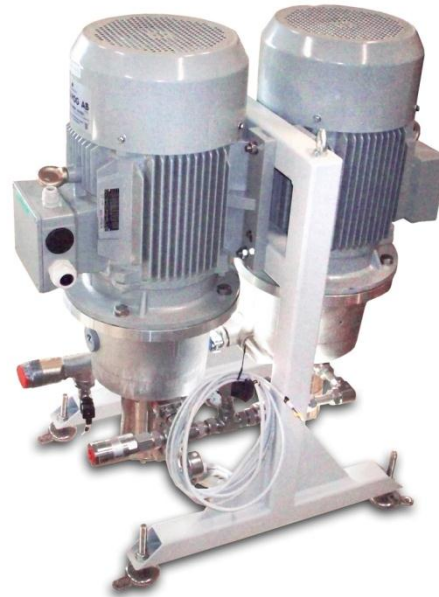
# Ultra Fog System



# Compact pump units



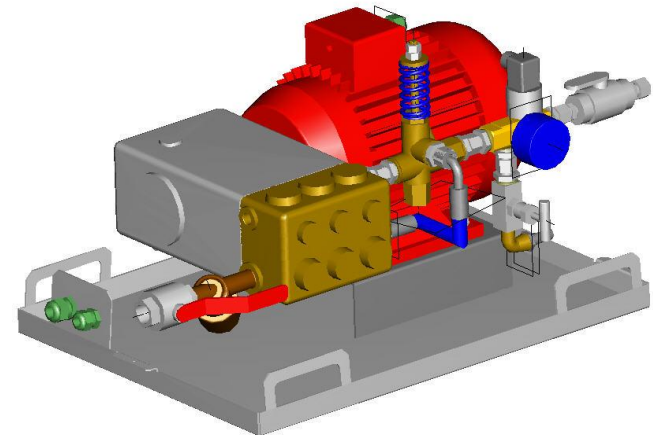
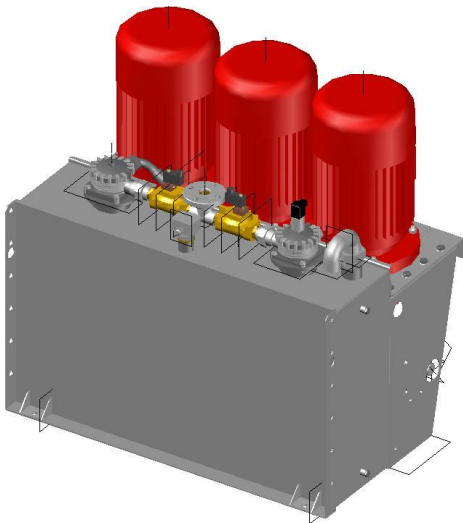
**MICRO**



**P-144**



**P 35**

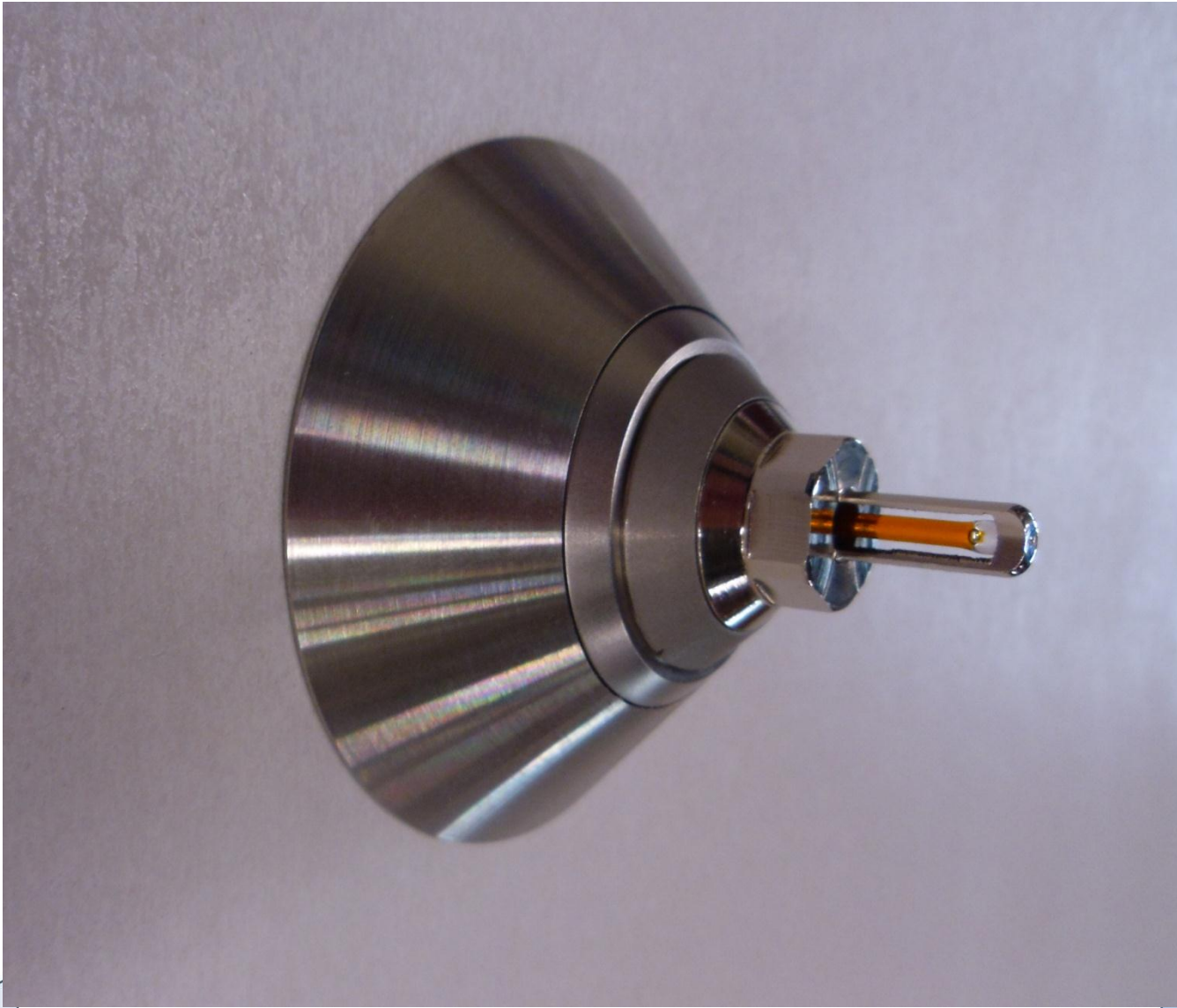


# Prison cell protection

- Ministry of Justice, UK
- Fire test performance (1,5 MW fire load)
- Anti ligature design
- Break point (designed weak link) max 15 kg load



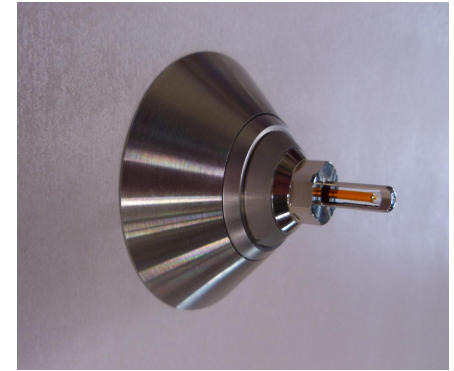
# Prison cell protection





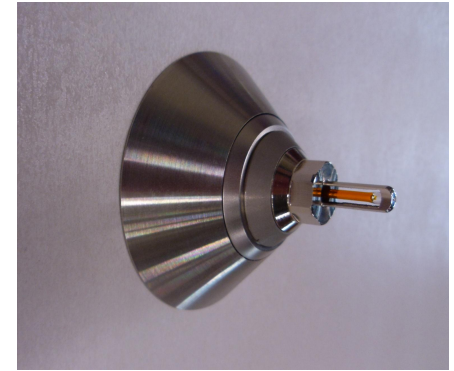
# Prison cell protection

- Fire test performance (1,5 MW fire load)
- Fire test summary: Fire suppression and tenability within required targets.



# Prison cell protection

- Fire test performance (1,5 MW fire load)
- Nozzle k-factor 0,93
- 57°C (RTI=19, F2-bulb)
- System pressure 100 Bar
- Breaking load of bulb cover **9 kg**.
- Reference: Scottish prison service >700 nozzles, 2 buildings.
- Pump unit P-35 (frequency controlled)
- Nozzle reference for IMO 12m<sup>2</sup> cabins, side wall



# Testing of sprinkler heads

## Questions:

- Can the system be more accurate on activation?
- Can you test a sprinkler head?
- How do you verify the function of an automatic sprinkler nozzle?
  
- Answers: YES!



# Testing of sprinkler heads

With a test tool designed for bleed out air you will receive following benefits:

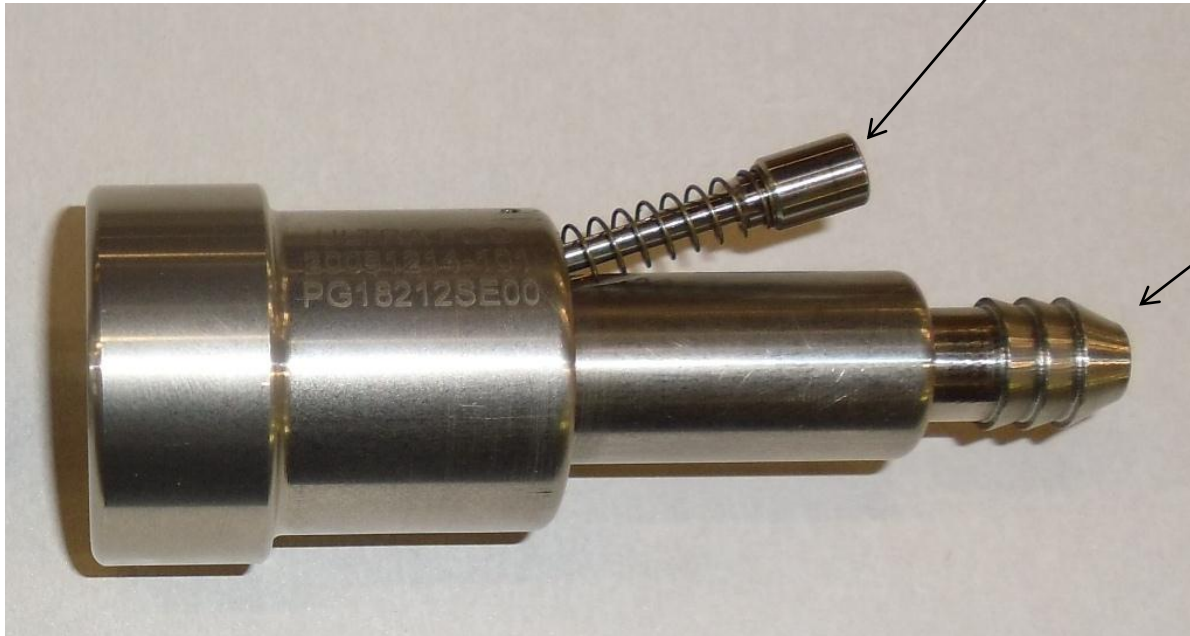
- Precise commissioning in large or complex pipe systems
- Verify k-factor (audits)
- Control of accurate water flow
- Robust and instant activation of water mist
- Possibility to check water quality



# Testing of sprinkler heads

The tool

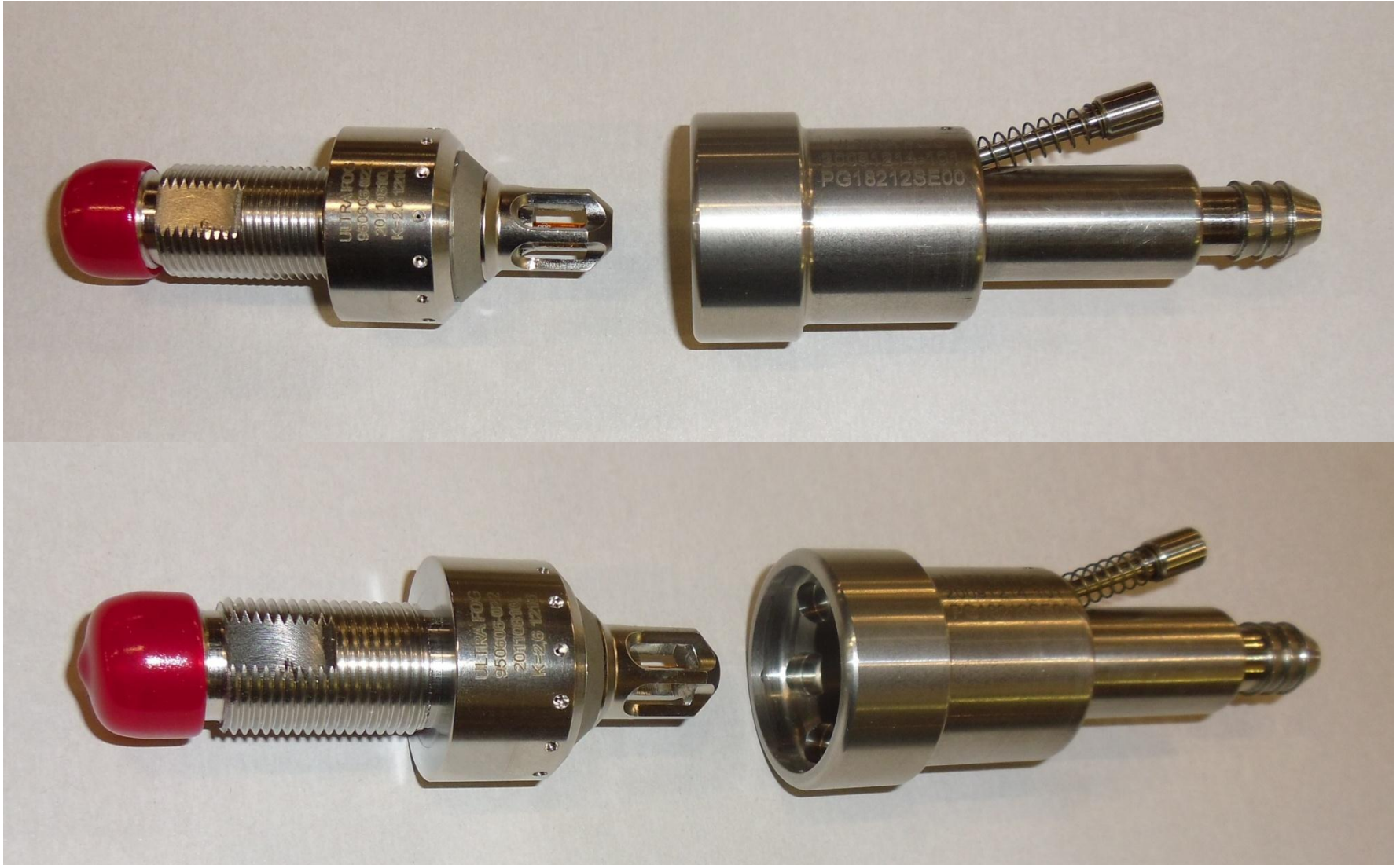
Push-rod to open nozzle



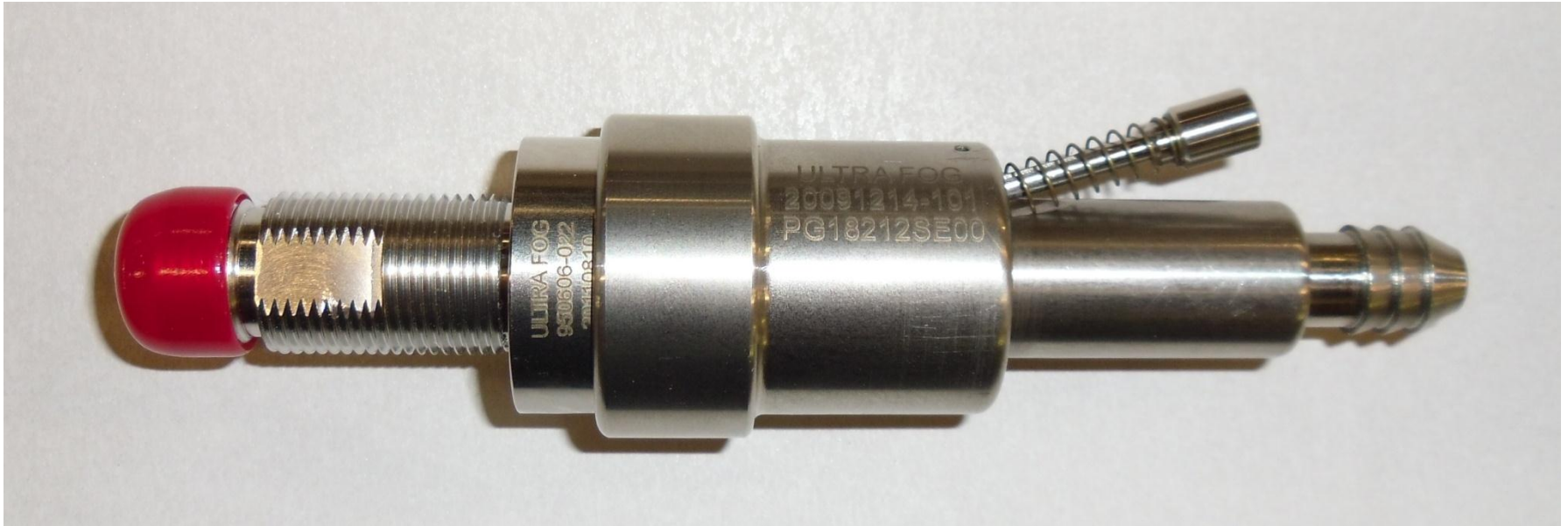
Connection  
point for hose  
to drain/bucket



# Testing of sprinkler heads



# Testing of sprinkler heads



**Thank you for your attention**



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