



Panametrics Solutions Support

Fire Sprinkler System Applications

Summary

In the event of a fire, it is critical that fire suppression systems work as planned in order to reduce/avoid the threat to life or damage to property.

Therefore, it's vital that fire suppression systems are regularly tested to ensure the good functioning of sensors, sprinklers, pumps, alarms, etc.

Application

Medium:	Water
Pipe size and material:	3" to 12" - Carbon Steel
Flow rate	Various
Temperature:	Ambient
Requested accuracy:	±1 to 2% of reading

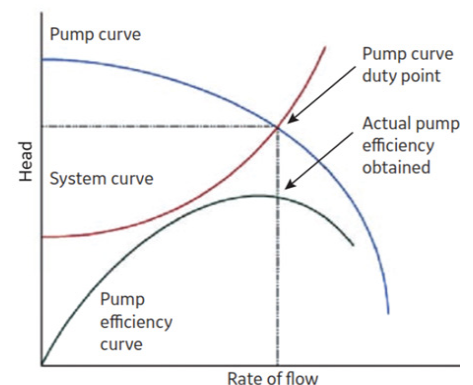
Challenges

The good condition of the pumping system is critical to ensure the fire sprinkler system functions correctly - it must be tested as per recommendations across different standards and regulations for compliance. In Europe, for example, the EN 12845 standard sets the guidelines for this process.

However, the maintenance of these systems can be time consuming and cumbersome. If an inline measurement option is chosen, the total cost of ownership increases dramatically due to potential leaks, extra valving, different spares for different line-sizes, commissioning, line shutdown for servicing, etc. Of course, these issues are, in most cases, only realized after an inline measurement solution has been installed.

Benefits:

- No leaks risk
- No piping modification
- Minimal maintenance cost
- 1-size-fits-all, minimize inventory
- Low installation cost
- Easy to audit
- Best total cost of ownership
- EN-12845 flow-test ready



Solution

The Panametrics clamp-on portfolio range offers two very effective ultrasonic clamp-on flow meter solutions for this kind of application.

Firstly, the Aquatrans AT600 permanent clamp-on meter, designed to be used permanently in lieu of an inline solution.

Secondly, the Transport PT900. This option can be used to verify the readings of the measurement points which are already in place to narrow down the root cause of any potential issue that might arise from the system.

Across both options, customers benefit from advanced levels of reliability and accuracy, easy maintenance and zero interruption in operations. This is enabling customers to optimize operations, reduce costs and improve productivity.

Panametrics has installed more than 100 AT600 and PT900 clamp-on flow meters to companies in Europe maintaining fire sprinklers systems. Customers appreciate the benefits that Panametrics solutions have brought and, consequently recurring sales from satisfied customers are high.



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