CASE STUDY • MACHINE BUILDING

URAL SIBERIAN FIRE FIGHTING ENGINEERING COMPANY ENSURES RELIABILITY OF HIGH-CAPACITY SPECIAL MACHINERY WITH ROSEMOUNT™ FLOW METERS

Application

Measurement of water and foam agent flow rate in fire engines and test benches for fire pumps

Customer

Ural Siberian Fire Fighting Engineering Company and EMERCOM of Russia

Challenge

Specialized machinery is often crucial for ensuring safety in industrial environments. In order to extinguish fires at hazardous industrial facilities, multi-purpose fire protection systems with a water pumping capacity of 200 l/s are necessary. Maintaining such capacity requires reliable monitoring of flow rate and system performance.

Solution

As a solution for measuring liquid flow rate, Emerson offered Rosemount Magnetic Flow Meters. With a dual-compartment transmitter housing that is resistant to high loads and keeps electronics isolated from moisture and contamination, Rosemount Magnetic Flow Meters are an ideal solution to measure liquid flow rate for:

- High capacity pump stations
- Multi-purpose fire protection systems with a capacity of 200 l/s for pumping water and foam of specified expansion ratio
- Automated foam metering units of 150 l/s in capacity for installation in fire engines

Results

- Accurate monitoring of water and foam agent flow rate with a pump capacity of 200 liters per second
- Reliable operation of fire pumps at extreme loads
- Maintained safety at hazardous production facilities

> *"With the housing resistant to high loads and sealed from penetration of moisture into electronics, Rosemount Magnetic Flow Meters are used as a perfect standard solution for fire engines and as part of benches."*

Ural Siberian Fire Fighting Engineering Company
Engineering Director

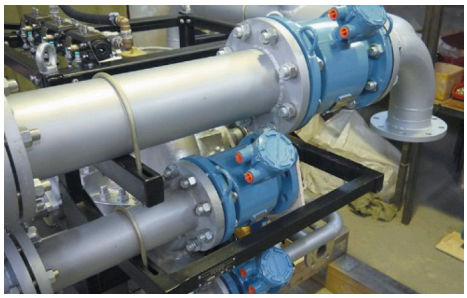
EMERSON

URAL SIBERIAN FIRE FIGHTING ENGINEERING COMPANY ENSURES RELIABILITY OF HIGH-CAPACITY SPECIAL MACHINERY WITH ROSEMOUNT™ FLOW METERS

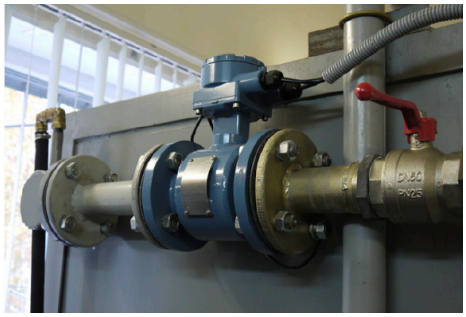
Additionally, Rosemount flow meters are used at the facility as part of benches intended for testing and running in commercial fire pumps.

A quick flow meter response of 50 milliseconds and a short damping time of 0.2 seconds ensure required system performance.

Over the operating time, the installed Rosemount Magnetic Flow Meters have proved to be reliable, highly accurate measuring instruments with no failures or faults identified. The devices are in full compliance with the required specifications. Furthermore, Rosemount flow meters of this type are widely used by EMERCOM of Russia.



Rosemount Magnetic Flow Meters measure water and foam agent flow rate in fire engines with a capacity of up to 200 liters per second.



Rosemount Magnetic Flow Meters are used as a standard solution for test benches.

For more information, visit
Emerson.com/RosemountMagneticFlow

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