



**PROTECTING**  
WHAT MATTERS MOST TO YOU



*For Complete Range of Water & Foam based Fire Fighting Products*

# INTRODUCTION OF BLADDER TANK SYSTEM

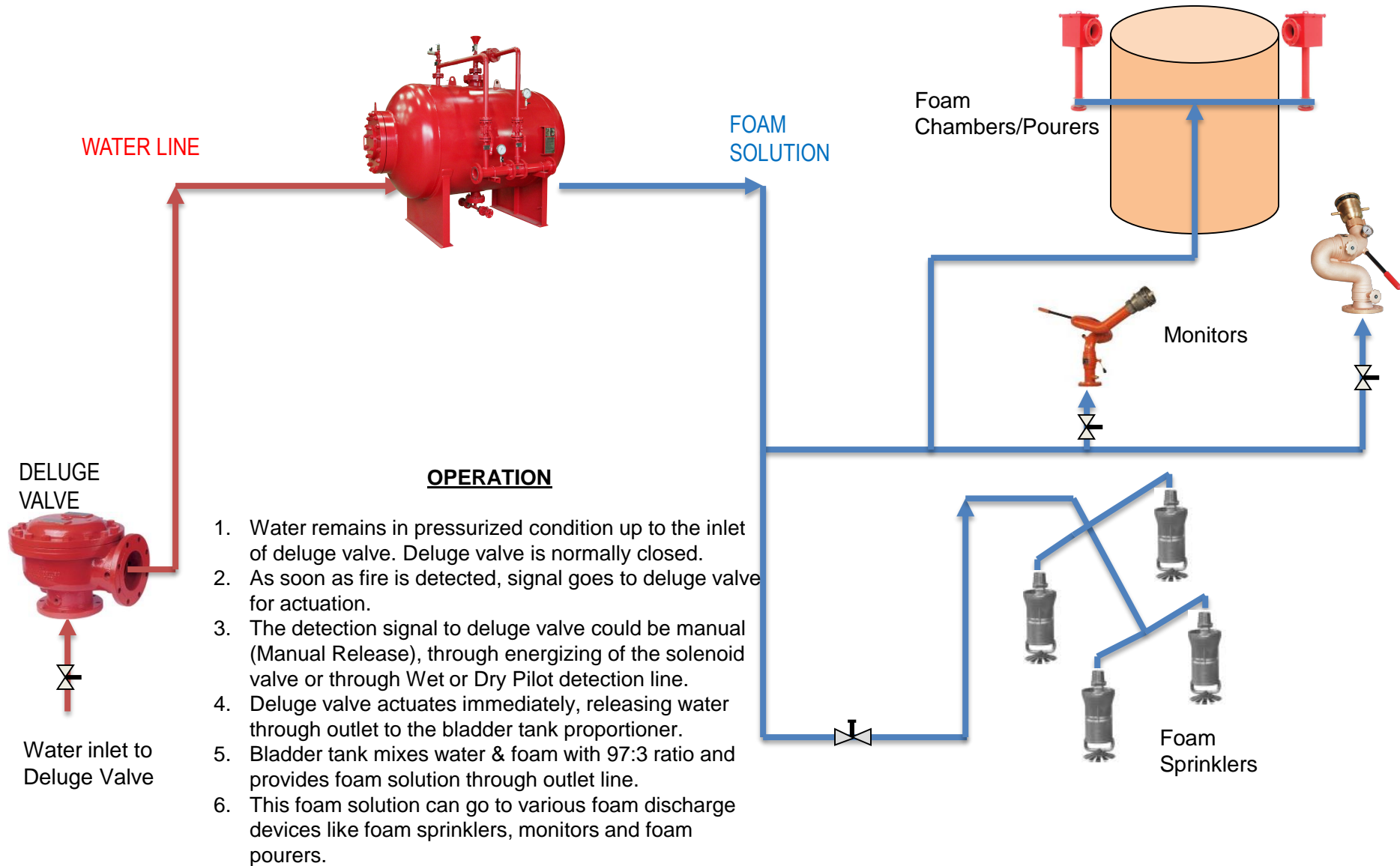
- Bladder (Diaphragm) Proportioning Tank system has been included in NFPA -11, Standard for Low-Expansion Foam.
- The Bladder Tank Foam Proportioning System utilizes the water pressure to inject foam concentrate into a water supply and automatically proportions foam concentrate over wide range of flow and pressure, with very low pressure drop.
- This system uses water pressure as a source of power with the added advantage of a collapsible bladder that physically separates the foam concentrate from the water supply.
- The reinforced elastomeric bladder can be used with all types of foam concentrates.
- One of the most common systems used for foam porportioning.
- Very efficient system ideal for range of foam discharge devices like foam chamber, sprinklers and monitors.



# FEATURES AND BENEFITS

- ✓ Ease of operation, systems require no outside source of power or pump other than flowing water under pressure for delivery of foam solution to the discharge devices.
- ✓ Supports wide range, of flow & pressure rates, without any adjustments.
- ✓ Very Low Pressure Drop
- ✓ Design simplicity minimizes system failure due to mechanical or operation error.
- ✓ Cost advantage as compared to foam pumps or foam dosing systems.
- ✓ Minimized installation costs compared to other proportioning methods.
- ✓ Reduced system size and water demand can be realized in certain applications.
- ✓ Easy retrofit into existing extinguishing systems.
- ✓ Tank manufactured as per ASME Section VIII Div 1, ASME Boiler and Pressure Vessel Code.
- ✓ UL Listed as Manual System & FM Approved as auto system
- ✓ With CE Mark
- ✓ Multiple proportioners can be connected to one bladder tank to support various Hazard locations.
- ✓ HD Bladder tanks come pre-piped with ratio controller mounted on the tanks.

# TYPICAL SCHEMATIC & SEQUENCE OF OPERATION



# HD ADVANTAGE

- ✓ Bladder tanks are designed by us as per latest standard of ASME Code
- ✓ Material complying to ASME
- ✓ Tank is provided with all accessories like sight glass, ladder, safety valve, proportioner, foam filling kit, etc.
- ✓ Complete in-house facility from designing, manufacturing to performance testing.
- ✓ Fabrication shop certified to manufacture ASME pressure vessels.
- ✓ **UL Listed or FM Approved, Optional CE Mark or ASME U Stamp.**
- ✓ HD has complete range of foam discharge devices like foam chamber, foam maker, foam sprinklers, foam monitors, etc.
- ✓ Complete technical support provided for site installations.

