

# BLAZEMASTER® MULTIPURPOSE SYSTEM

## What you need to know when designing a multipurpose system.



There are two options when designing a plumbing system and a fire sprinkler system for one- and two-family homes. The systems can be designed as separate systems or combined in a single, multipurpose system.

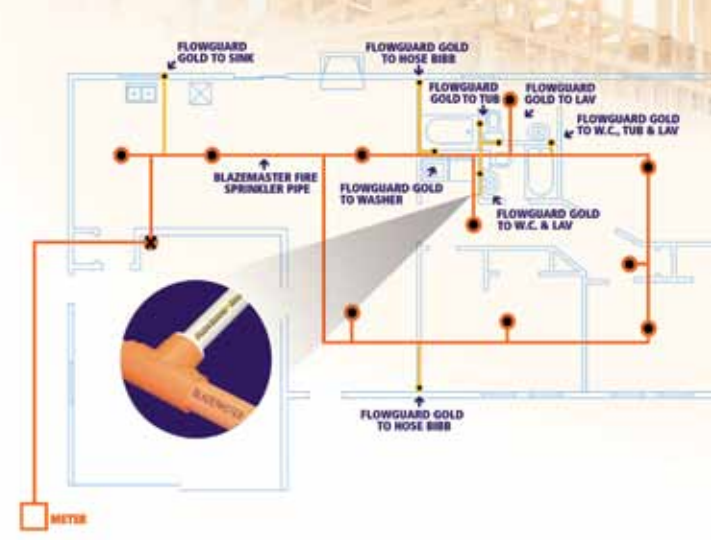
Installing a plumbing system separate from a fire sprinkler system in one- and two-family dwellings ensures the integrity of each stand-alone system. A multipurpose system, as defined by NFPA 13D, is a piping system within dwellings and manufactured homes intended to service both domestic cold water and fire protection needs. When installing a multipurpose system, it is important to maintain the integrity of both systems.

### Design

Design is critical to a multipurpose system. Fire sprinklers are the driving force for the initial pipe layout for several reasons: They demand the greatest amount of water; they are a life saving system for which sprinkler locations are critical; and they must be supported by hydraulic calculations.

Some standard fire sprinkler or plumbing features that are available in separate systems are not available in a multipurpose system. Consider the following when selecting the type of plumbing and fire sprinkler system to be installed:

### Easily adapts from BlazeMaster® IPS to FlowGuard Gold® CTS



### A TYPICAL MULTIPURPOSE COLD POTABLE WATER/FIRE SPRINKLER SYSTEM

Feature	Stand-Alone System	Multipurpose System
<b>Future Plumbing Components</b> (water softeners, filters, etc.)	Easily incorporated in design.	May affect original hydraulic design.
<b>Water Flow Alarm</b>	Easily incorporated in design.	If a water flow switch is required/desired, a special expensive flow switch is required to determine water flows.
<b>Codes and Requirements</b>	Plumbing system must meet plumbing code requirements. Fire sprinkler system must meet NFPA 13D requirements.	Entire system must meet both plumbing code and NFPA 13D requirements.
<b>Independent Shut-Off Valve</b>	Option to easily incorporate in both plumbing and fire sprinkler systems.	Plumbing system and fire sprinkler system cannot be shut-off independently.
<b>Plumbing System Pressure Reducing Valves</b>	No effect on fire sprinkler system.	Could reduce fire sprinkler pressure.
<b>Visible Signage</b>	Not required.	Must be posted indicating multipurpose system is installed.

### Know the difference

Make an informed choice. No matter which type of fire sprinkler and plumbing system you install, BlazeMaster® and FlowGuard Gold® pipe and fittings offer the most reliable and cost-effective type of system available today. A BlazeMaster multipurpose system meets all NFPA 13D requirements.



Visit [www.lubrizol.com/buildingsolutions](http://www.lubrizol.com/buildingsolutions) for more information. Or call 888.234.2436, ext. 4477393, to learn about these or other high performance plumbing products.

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