



**rapid response**<sup>®</sup>  
HOME FIRE SPRINKLER SYSTEM



RAPID RESPONSE<sup>®</sup>  
CPVC MULTIPURPOSE  
SPRINKLER SYSTEM

**tyco**  
Fire Suppression  
& Building Products

# THE RAPID RESPONSE® CPVC MULTIPURPOSE SPRINKLER SYSTEM: COMBINES FIRE SPRINKLERS WITH COLD-WATER DISTRIBUTION

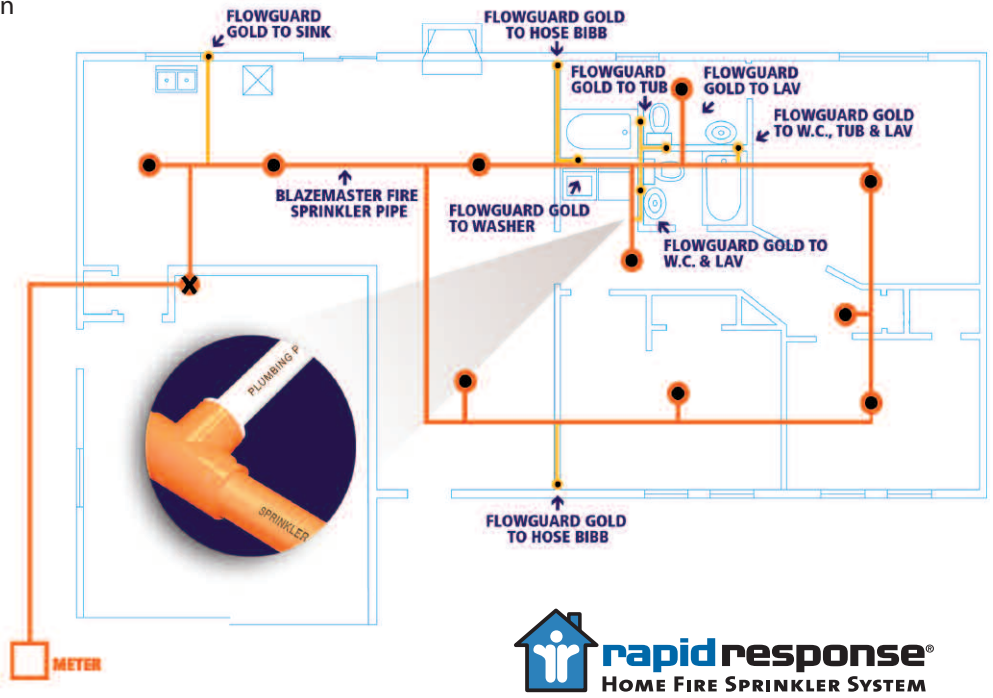
According to the National Fire Protection Association (NFPA), residential sprinkler systems are the most effective means of life and property safety protection available. Fire sprinkler protection is everywhere – in buildings, schools, office buildings, theaters – and it's crucial in the most susceptible place to fire – your home. Tyco's Rapid Response® Home Fire Sprinkler Systems are designed to control and extinguish fires, and they're aesthetically pleasing and affordably priced.

As an alternative, Tyco now offers a sprinkler system that could provide both savings and safety advantages: the Rapid Response® CPVC Multipurpose Sprinkler System. This unique system utilizes the sprinkler system to feed the cold-water plumbing fixtures.

Depending on the layout of the home and the type of construction, the Rapid Response® CPVC Multipurpose Sprinkler System can offer great benefits, including installation savings and flexibility.

## AN OVERVIEW OF THE RAPID RESPONSE® CPVC MULTIPURPOSE SPRINKLER SYSTEM INSTALLATION

*(Combining fire sprinkler piping with cold-water distribution piping)*



## CONNECTING WITH FLEXIBILITY

The Rapid Response® CPVC Multipurpose Sprinkler System uses the same Tyco BlazeMaster® CPVC pipe and fittings used in dedicated sprinkler systems. FlowGuard Gold® CPVC pipe and fittings are also added to create a multipurpose system that's easily transported, handled and modified on site.

The main piping – including that to sprinklers – is Tyco BlazeMaster® CPVC. The connections from main piping to plumbing fixtures utilize FlowGuard Gold®. BlazeMaster®, in iron pipe sizes (IPS), connects with copper-tube size (CTS) FlowGuard Gold®, with IPS, to CTS adapter fittings.

Our CPVC system is UL and cUL Listed, with all pipe and fittings NSF approved for potable water piping material. They're highly resistant to rust, scale and contaminant buildup and immune to Microbiologically Influenced Corrosion (MIC).

Fire performance features an LOI (Limited Oxygen Index) better than PVC, PB, wood or other common building materials. Our CPVC won't support combustion so it can't be the source of a fire or contribute to flashover.

When you compare the Rapid Response® CPVC Multipurpose Sprinkler System to PEX systems, you'll find that Rapid Response® delivers greater versatility with more choices in fittings and adapters.



## POTENTIAL COST SAVINGS

The Rapid Response® Multipurpose Sprinkler System is another option for a homebuilder to provide life and property safety to a home. The system also can offer other unique benefits:

- By combining fire sprinkler piping with cold-water distribution piping, you may be able to save on supplier costs – since one subcontractor can do both.
- Potential for both reduced development costs through zoning and tax incentives (trade-ups) and increased profitability.
- Multipurpose systems like this, approved under NFPA 13D, don't require fire department connections or flow alarms.

\* Always check with your local jurisdiction for specific local requirements.



## SIGNIFICANT SAFETY ADVANTAGES

Eight out of ten fire fatalities occur in residences. When a smoke alarm is combined with an automatic sprinkler system, the **risk of death is reduced by 82%**, and average property loss is cut by as much as two-thirds.



## MAKING SELL-IN EASIER



The Rapid Response® CPVC Multipurpose Sprinkler System uses fresh water that's circulating in the home plumbing system. This is a key selling point: consumers are familiar and comfortable with home plumbing. Now you can position the Rapid Response® CPVC Multipurpose Sprinkler System as a valuable safety and peace-of-mind add-on to the home plumbing system. It's a logical, easy-to-sell way for consumers to protect their world.

# PERFORMANCE CHARACTERISTICS OF THE RAPID RESPONSE® CPVC MULTIPURPOSE SPRINKLER SYSTEM

## PERFORMANCE CHARACTERISTICS

### Design Requirements

### System Design

### Installation Appearance & Quality Identification

### Inspection & Approval

### Water Flow in Plumbing System

### Maintenance/Remodeling

### Special Tools Required

### Combustibility

### High-Temperature Considerations

### Affected by Chlorine or Common ORP Water Disinfectants

### Product Consistency

### Track Record

## CPVC Multipurpose Sprinkler System

- ✓ Multiple heads per line.
- ✓ No special fittings required.
- ✓ Easily calculated by design professional using common industry practices.
- ✓ Straight, "professional" appearance.
- ✓ Color-coded system easily differentiates plumbing system from fire sprinkler system.
- ✓ Option exists for plumbing and/or fire inspector to inspect system.
- ✓ "Water in the bucket" test not required.
- ✓ Full, unobstructed flow.
- ✓ Color-coded system aids in maintenance/remodeling.
- ✓ Additional lines added to plumbing system will not affect hydraulic calculations.
- ✓ None.
- ✓ Will not sustain combustion.
- ✓ When installed in attics, no additional insulation is necessary on attic side of fire sprinkler pipe, because pipe is rated to temperature of 150°F.
- ✓ No.
- ✓ All compound and finished goods produced to one industry standard.
- ✓ Over 40-year history of successful installations.



## LEARN MORE TODAY

Two systems in one. Designed to save lives and property. Truly a unique fire-protection alternative.

Find out more about the Rapid Response® CPVC Multipurpose Sprinkler System from Tyco today by calling or clicking:

**1-877-GET-TYCO (438-8926)**

**[www.tyco-rapidresponse.com](http://www.tyco-rapidresponse.com)**



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