

Fire Sprinkler Systems



BlazeMaster[®]
FIRE SPRINKLER SYSTEMS



F I R E S P R I N K L E R S Y S T E M S

BlazeMaster[®] CPVC pipe and fittings are specifically designed for fire sprinkler systems and approved for more applications than any other nonmetallic system.



IPEX

We build tough products for tough environments[®]

BlazeMaster®

FIRE SPRINKLER SYSTEMS

The new standard in fire sprinkler systems



Specially formulated for fire sprinkler systems, BlazeMaster pipe and fittings are made from post-chlorinated polyvinyl chloride (CPVC) and is fully approved for use in NFPA 13 Light Hazard applications in both new and retrofit construction including:

- High-rise buildings, including apartments and hotels
- Schools and institutions
- Single-family residences

CPVC has a 40-year history of continuous and proven service.

BlazeMaster pipe and fittings – Approved for more applications than any other non-metallic system

BlazeMaster CPVC systems exceed ASTM and other industry standards and meet all major building and mechanical codes.

Listings and Approvals

UL 1821 Listed

- Exposed system risers NFPA 13D, 13R
- Exposed basement NFPA 13D (solid wood joist)
- Extended coverage (exposed) – 20' spacing on pendent in lieu of 15'
- Exposed extended coverage sidewall sprinkler Listings for exposed pipe & fittings
 - 24' extended coverage sidewall sprinkler, 12" drop, 155°F sprinkler head
 - 18' extended coverage sidewall sprinkler, 12" drop, 165°F sprinkler head
 - 16' extended coverage sidewall sprinkler, 12" drop, 175°F sprinkler head
 - 14' standard coverage sidewall sprinkler, 12" drop, 200°F sprinkler head
- Permitted for use with return air plenums with no set-back at ceiling openings per NFPA 90A

ULC Listed

Factory Mutual Approved

- Factory Mutual Approval exposed
- Factory Mutual Approval above drop-in ceilings
- Factory Mutual Approval exposed w/ Soffi-Steel® soffit covering system

NSF Certification



The ideal solution for fire sprinkler systems

BlazeMaster pipe and fittings are ideal for wet automatic fire sprinkler systems with an outstanding combination of features including:

- Easy assembly
- Lightweight construction
- Low friction loss
- No rusting, pitting, scaling or corrosion, even in salt air environments
- Immunity to Microbiologically Influenced Corrosion (MIC)

Full field support

BlazeMaster CPVC systems are backed by an extensive field support organization providing:

- Proven installation recommendations to maximize efficiency and cost savings
- Compliance advice for local, regional and national building codes
- Expert design and specification recommendations

Superior Performance, Durability and Safety



With a high flash ignition temperature, low flame spread and smoke development ratings, and a fuel contribution of 0, BlazeMaster pipe and fittings are an ideal choice for fire sprinkler systems.

BlazeMaster pipe and fittings meet the most stringent requirements governing the use of combustible pipe in most building types. BlazeMaster pipe and fittings have been successfully exposed to flame temperatures of 1400°F. After undergoing continuous elevated pressure testing at 400 psi (more than twice the rated pressure) for more than one year, BlazeMaster CPVC systems showed no sign of weakness or failure.

BlazeMaster pipe and fittings are manufactured under a strict Quality Assurance Program that guarantees consistency and reliability. Pipe and fittings are impervious to normal weather conditions and are fundamentally ageless.

BlazeMaster CPVC systems for designers, architects and engineers

BlazeMaster pipe and fittings offer greatly enhanced design flexibility. With a Hazen-Williams C factor of 150, its smooth inner surface results in lower friction loss than metal systems. This means you can use smaller pipe diameters which lowers your material costs and provides additional design flexibility in retrofit applications.

BlazeMaster pipe and fittings have a 50-year life expectancy with a safety factor of two. Properly selected and correctly installed, BlazeMaster pipe and fittings provide years of maintenance-free service.

Other Differentiation

- Sizes available up to 3"
- Approved commercial product for over 20 years
- Backed by over 40 years of CPVC resin and compound manufacturing experience
- CPVC resin & compound from ISO 9001 manufacturing facilities
- System chemical compatibility program (ancillary products) backed by independent third party testing/verification
- Formal installation training program which has more than 10,000 graduates
- Developed UL approved cut-in procedure
- Leader in new Listing and Approved developments
- Dedicated CPVC system field consultants
- CPVC pipe compound pressure rated by Plastics Pipe Institute
- CPVC fitting compound pressure rated by Plastics Pipe Institute
- Pipe compound cell class, 23547, exceeds the minimum allowable ASTM requirements for CPVC tensile strength
- Fitting compound cell class, 24447, exceeds the minimum allowable ASTM requirements for CPVC impact strength

BlazeMaster CPVC systems for builders and developers

BlazeMaster pipe and fittings significantly reduce labor and transportation costs on typical installations because CPVC pipe is easily handled, stored, cut and joined. Prices for BlazeMaster CPVC pipe and fittings are more stable than metal systems. Plus, heavy equipment needed to install metal and other piping systems is not required with BlazeMaster pipe and fittings. As a result, installed costs of BlazeMaster CPVC systems are significantly lower than metal and other systems.

The inherent immunity to Microbiologically Influenced Corrosion (MIC) of BlazeMaster pipe and fittings means this system provides a long-term trouble-free installation. As well, there is significantly less inconvenience for occupants during retrofit construction.

BlazeMaster CPVC systems for contractors

Installation of BlazeMaster pipe and fittings is fast and easy. No special rigging or heavy equipment is required to move the pipe into a building. Pipe can be cut on-site with simple hand tools. A one-step joining system makes installations fast, keeping labor costs to a minimum.

Because no heavy equipment is involved in moving and installing pipe and fittings on-site, there is less conflict with other trades. Work can be done quickly and easily around drywallers, framers and other mechanical contractors.

Most hangers designed for metal pipe are suitable for BlazeMaster CPVC systems. Because BlazeMaster pipe is rigid and inherently strong, it requires fewer hangers and supports than other thermoplastic pipe, reducing material and labor costs even more.

**BlazeMaster® Pipe Dimensions and Weights
SDR 13.5 (ASTM F 442)**

Nominal Size		Weight Per Foot (H ₂ O filled)	
inches	mm	lbs.	kgs
3/4	20.0	0.428	0.637
1	25.0	0.675	0.100
1-1/4	32.0	1.079	1.606
1-1/2	40.0	1.417	2.109
2	50.0	2.224	3.310
2-1/2	65.0	3.255	4.844
3	80.0	4.829	7.186

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About the IPEX Group of Companies

As leading suppliers of thermoplastic piping systems, the IPEX Group of Companies provides our customers with some of the world's largest and most comprehensive product lines. All IPEX products are backed by more than 50 years of experience. With state-of-the-art manufacturing facilities and distribution centers across North America, we have established a reputation for product innovation, quality, end-user focus and performance.

Markets served by IPEX Group products are:

- Electrical systems
- Telecommunications and utility piping systems
- PVC, CPVC, PP, ABS, PEX, FR-PVDF and PE pipe & fittings (1/4" to 48")
- Industrial process piping systems
- Municipal pressure and gravity piping systems
- Plumbing and mechanical piping systems
- PE Electrofusion systems for gas and water
- Industrial, plumbing and electrical cements
- Irrigation systems

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