

CPVC Pipe & Fittings

The Tyco Fire Sprinkler System features CPVC Pipe and Fittings manufactured with Lubrizol's BlazeMaster® compound UL Listed for use in:

- Light hazard occupancies as defined in the Standard for Installation of Fire Sprinkler Systems, BS9251 standard
- Residential occupancies as defined in the Standard for Installation of Fire Sprinkler Systems in Residential Occupancies up to Four Stories in Height, BS9251 standard
- Residential occupancies as defined in the Standard for Fire Sprinkler Systems in One and Two-Family Dwellings and Manufactured Homes, BS9251 standard
- Air plenums, as defined by the Installation of Air Conditioning and Ventilating Systems, BS9251 standard and model mechanical codes
- Underground water pressure service, BS9251 standard
- Unfinished basements
- Embedded in concrete

(Note: for complete listing and approval information, please refer to the installation instructions and technical manual IH-1900)

CPVC Compatibility

Understanding CPVC compatibility is extremely important when installing your residential sprinkler system. To ease the burden associated with researching and selecting accompanying construction products, Lubrizol developed the FBC™ System Compatible Program.



Visit

www.lubrizol.com/CPVC/FBC-System-Compatible-Program
for more information and to view identified compatible and incompatible products.

Install With Confidence

Tyco BlazeMaster® CPVC Piping Systems are cULus Listed, FM Approved, and exceed ASTM standards. Benefits over traditional piping systems include:

- Resistant to rust, scale and foreign contaminant buildup
- Superior flow characteristics for increased hydraulic capabilities (C-Factor=150)
- Easily transported, handled and modified on site
- Can be easily connected to copper and steel piping
- Resist sweating and condensation
- Immune to Microbiologically Influenced Corrosion (MIC)

Fire Performance

CPVC has an LOI (Limited Oxygen Index) that is better than wood, PVC, PB or other common building materials. It will not support combustion; therefore, it cannot be the source of a fire or cause a fire to spread.

- Does not contribute to flashover
- Low smoke generation
- Toxicity is extremely low when compared with common building and finishing materials; equal to wood and less than wool or cotton*

*University of Pittsburgh protocol

System Components

Residential Domestic Shut-off Valve 1" and 2"

- Used in piping systems that supply water to both domestic service and the fire sprinkler system per BS9251 standard in one/two- family dwellings and mobile homes
- In the set position, water is available on demand to the domestic system, and the valve acts as a check valve for the fire protection system
- When a sprinkler operates, the supply to the domestic system is automatically shut off, maximizing the available water supply for fire protection
- Eliminates the need for expensive pumps, pressurized tanks, or electrically operated domestic shutoff valves

"Powerball" Butterfly Valves

- Ideal for use in residential sprinkler systems as main control valves
- An alternative to bulky OS&Y valves
- Mandated visual indicator showing that the valve is open or closed
- Available from 1" through 2-1/2"

Resi-Riser

- Compact, pre-assembled, ready to install sprinkler riser
- Brass construction for use in potable water supply
- Available in 1" - 2" (25 mm - 50 mm) sizes
- Integral test and drain assembly, flow switch with retard mechanism, 300 psi gauge, and check valve
- Compact size allows for easy installation between 2" x 4" studs in wall
- Molded mounting points allow for fast and easy left or right-hand installation
- Available with or without pressure relief valve feature and flow switch retard mechanism

RM-2 Riser Manifold

- Available in 2' (DN50) through 6" (DN150)
- Available in either threaded or grooved configurations
- Meets BS9251 standard requirements

Model VS-SP WaterFlow Detector

- Used with wet pipe sprinkler systems in residential dwellings and mobile homes
- Actuation of the switch can initiate an alarm indicating that the sprinkler system is operating
- Sustained flow of 8 gallons per minute will deflect the vane and actuate a single-pole, double-throw snap action switch
- Can be wired to a local bell and/or protection panel for outside notification to an alarm company or fire department

Sprinkler Head Cabinet

- Spare sprinkler head cabinets are available
- All cabinets have ample room for sprinkler wrench storage.

CPVC Installation Equipment

- Retrofit Tools
- Cutting and Deburring Tools
- BlazeMaster Caulk & Walk® Firestop
- One-step CPVC Cement and Daubers
- Hangers & Fasteners

Pipe

CPVC Pipe



Length	Size	Sleeve Quantity	Part Number
4500mm	20mm	25	80300
	25mm	16	80301
	32mm	9	80302
	40mm	7	80303
	50mm	4	80304

Tee

Equal Tee



Size	Bag Quantity	Box Quantity	Part Number
20mm	20	180	80000
25mm	12	96	80001
32mm	5	55	80002
40mm	5	30	80003
50mm	3	18	80004

Reducing Tee Head
CPVC Reducing Tee
SLIP x SLIP x SLIP



32mm x 25mm x 25mm	10	80	80136
32mm x 32mm x 40mm	5	10	80138
40mm x 32mm x 25mm	7	42	80141
32mm x 32mm x 25mm	10	70	80262
40mm x 40mm x 25mm	5	45	80264
50mm x 50mm x 25mm	3	24	80266
50mm x 50mm x 32mm	3	24	80274

Sprinkler Head Tee
CPVC Sprinkler Head Tee
SLIP X Female NPT X SLIP



25mm x 15mm	10	30	80251
32mm x 15mm	7	28	80252
50mm x 15mm	4	8	80253
40mm x 15mm	5	15	80254

Elbow

CPVC Elbow 90°
SLIP X SLIP










Size	Bag Quantity	Box Quantity	Part Number
20mm	24	240	80025
25mm	12	132	80026
32mm	10	90	80027
40mm	5	45	80028
50mm	4	24	80029

Sprinkler Head
Elbow 90°
CPVC Sprinkler Head




25mm x 15mm	10	50	80198
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Elbow					
CPVC Elbow 45° SLIP x SLIP 	25mm	20	180	80051	
	32mm	15	90	80052	
	40mm	7	56	80053	
	50mm	4	28	80054	
CPVC Elbow 45° SLIP x SLIP 	25mm	10	70	80010	
	32mm	4	40	80011	
	40mm	4	20	80012	
	50mm	3	12	80013	
Coupling					
Equal Coupling CPVC Coupling SLIP x SLIP 	Size	Bag Quantity	Box Quantity	Part Number	
	20mm	25	300	80075	
	25mm	20	160	80076	
	32mm	10	120	80077	
	40mm	10	70	80078	
	50mm	5	40	80079	
CPVC Reducing Coupling 	25mm x 20mm	20	60	80220	
GRV CPLG Adaptor Adaptor Coupling Brass Groove x SLIP 	32mm	4	28	80160	
	40mm	3	24	80161	
	50mm	3	15	80162	
Female Adapter SLIP x Female Thread 	25mm (BSP)	6	30	82001	
	40mm (BSP)	3	18	82003	
GRV CPLG Adaptor Adaptor Coupling Brass Groove x SLIP 	25mm x 15mm (NPT)	16	80	80176W	
CPVC SPIGOT Adapter SPIG X Female Thread NPT 	25mm x 15mm	16	80	80178	

Reducer

	Size	Bag Quantity	Box Quantity	Part Number
Reducing Bushes CPVC Reducer SPIG X SLIP 	32mm x 25mm	20	200	80202
	40mm x 25mm	20	200	80204
	40mm x 32mm	10	60	80205
	50mm x 25mm	10	100	80207
	50mm x 32mm	10	100	80208
	50mm x 40mm	10	30	80209
	75mm x 50mm	4	36	80210
	50mm x 25mm	10	120	80077
	50mm x 32mm	10	70	80078
	50mm x 40mm	5	40	80079
	CPVC Cap 	25mm	25	225
25mm		20	300	80101
32mm		10	60	80102
40mm		10	30	80103
50mm		5	20	80104

Solvent Cement

	Pallet Quantity	Box Quantity	Part Number
TFP - 600 One Step Cement, Pint (473mL) 	204	12	90766

About Johnson Controls

At Johnson Controls, we transform the environments where people live, work, learn and play. From optimizing building performance to improving safety and enhancing comfort, we drive the outcomes that matter most. We deliver our promise in industries such as healthcare, education, data centers and manufacturing. With a global team of 105,000 experts in more than 150 countries and over 130 years of innovation, we are the power behind our customers' mission. Our leading portfolio of building technology and solutions includes some of the most trusted names in the industry, such as Tyco®, York®, Metasys®, Ruskin®, Titus®, Frick®, Penn®, Sabroe®, Simplex®, ANSUL® and Grinnell®.

For more information, contact your regional Fire Suppression product representative, or visit www.tycofpp.com/tyco-cpvc

Australia & New Zealand

Tel: +61 1300 725 688
FSP.InsideSales.ANZ@jci.com