



CROWN[®] CPVC

WORLD CLASS CPVC PIPES & FITTINGS
for superior fire protection system.



**"MAXIMUM
SAFETY &
PROTECTION"**



Partnership with
SEKISUI



ISO 9001:2015
CERTIFIED COMPANY



PSE



CROWN® CPVC

Flammability

Crown CPVC is suitable for wet, automatic, fire sprinkler system because of its excellent balance of properties such as lightweight, excellent corrosion resistance, low friction loss, and easy installation. It is unique in that it offers outstanding resistance to fire and low smoke generation qualities.

Nominal diameter	external diameter (mm)	internal diameter (mm)	thickness (mm)
1" (25)	33.40 ~ 33.50	28.02	2.46 ~ 2.97
1-1/4" (32)	42.20 ~ 42.30	35.50	3.12 ~ 3.63
1-1/2" (40)	48.25 ~ 48.35	40.63	3.58 ~ 4.09
2" (50)	60.30 ~ 60.40	50.88	4.47 ~ 5.00
2-2/1" (65)	73.08 ~ 73.18	61.65	5.41 ~ 6.07
3" (80)	89.00 ~ 89.10	75.10	6.58 ~ 7.37
4" (100)	114.40 ~ 114.50	96.51	8.46 ~ 9.48



Nominal Size		Outside Diameter (OD)				Wall Thickness (T)				Allowable Water Pressure Rating at 73°F / 22.7°C
		Average		Tolerance		Minimum		Tolerance		
in	mm	mm	mm	mm	mm	in	mm	in	mm	
1/2"	15	0.840	21.3	±0.004	0.10	0.062	1.57	+0.02	0.51	315 PSI (22.22 kg/cm²)
3/4"	20	1.050	26.7	±0.004	0.10	0.078	1.98	+0.02	0.51	
1"	25	1.315	33.4	±0.005	0.13	0.097	2.46	+0.02	0.51	
1-1/4"	32	1.660	42.2	±0.005	0.13	0.123	3.12	+0.02	0.51	
1-1/2"	40	1.900	48.2	±0.006	0.15	0.141	3.58	+0.02	0.51	
2"	50	2.375	60.3	±0.006	0.15	0.176	4.47	+0.021	0.53	
2-1/2"	65	2.875	73.0	±0.007	0.18	0.213	5.41	+0.026	0.66	
3"	80	3.500	88.9	±0.008	0.20	0.259	6.58	+0.031	0.79	
4"	100	4.500	114.3	±0.009	0.23	0.333	8.46	+0.04	1.02	

Surface roughness constant for other piping material are given below:

$$f=0.2083 \left(\frac{100}{C} \right)^{1.85} \frac{g^{1.852}}{d^{4.8655}}$$

Where f = friction head in feet of water per 100 feet of pipe
d = inside diameter of pipe in inches
g = flow rate in gallons per minute
c = pipe surface roughness constant

Constant (C) Type of Pipe

- 150 CPVC Pipe, new-40 Years
- 130-140 Steel/Cast Iron Pipe, New
- 125 Steel Pipe, old
- 120 Cast Iron, 4-12 years old
- 110 Galvanized Steel/Cast Iron 13-20 Years
- 60-80 Cast Iron, Worn/Pitted

CROWN® CPVC FITTINGS



Equal Tee

Size	
25mm	32mm
40mm	50mm
65mm	80mm
	100mm



Elbow

Size	
25mm	32mm
40mm	50mm
65mm	80mm
	100mm



Socket

Size	
25mm	32mm
40mm	50mm
65mm	80mm
	100mm



Reducer

Size	
32X25mm	40X25mm
40X32mm	50X25mm
50X40mm	65X40mm
65X50mm	80X40mm
80X50mm	80X65mm
100X80mm	



BRT

Size		
32X25mm	40X25mm	40X32mm
50X25mm	50X32mm	50X40mm
65X25mm	65X32mm	65X40mm
65X50mm	80X25mm	80X40mm
80X50mm	80X65mm	100X80mm



45° Elbow

Size	
25mm	32mm
40mm	50mm
65mm	80mm



30° Elbow / 60° Elbow

Size	
50mm	



Cap

Size	
25mm	32mm
40mm	50mm



Valve Socket(PT)

Size	
25mm	32mm
40mm	50mm
65mm	80mm



Valve Socket
(for connecting SP Joint)

Size	
25mm	



M,F Valve Socket, F Elbow

Size	
25mm	



Fittings for PT

Size	
Socket	25mmX1/2" (15mm)
Elbow	25mmX1/2" (15mm)
Tee	25mmX1/2" (15mm)



BORT

Size	
32 X 25 X 25mm	40 X 32 X 25mm
50 X 40 X 25mm	



Flange

Size	
40mm	50mm
65mm	80mm
	100mm



Gasket

Size	
40mm	50mm
65mm	80mm



Crown Solvent

Size	
500g	1kg
USA, KOR	USA, KOR



Insert M Valve Socket(STS)

Size	
25mm	50mm



Insert M Valve Socket
(for connecting SP Joint)

Size	
25mm	

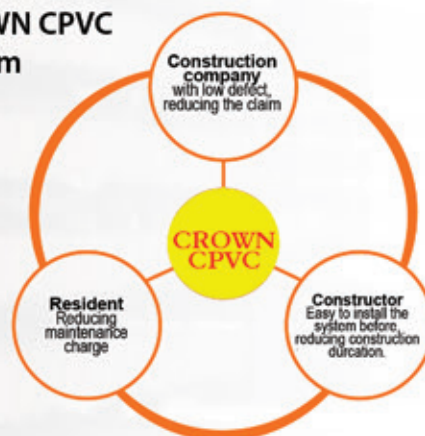
Crown CPVC Pipes and Fittings are designed specifically for fire sprinkler system. They are made from a specialty thermoplastic known chemically as post-chlorinated polyvinyl chloride (CPVC). provide unique advantage in sprinkler installations including superior hydraulics in comparison to traditional metal system , ease of joining, increased hanger spacing in comparison to other thermoplastics and ease of assembly. They also are baed on a technology with a continuous and proven service history of more than 30 years.



Application

- CPVC - Light Hazard occupancies as define in the standard for Installation of Sprinkler System, such as CHurhces, Schools, Hotels, Condominiums, Hospital Offices & High Rises.
- Residential occupancies as defined in the Standard for Sprinkler System.
- Residential, Multi-story and Multi-family.
- Air plenums, as dfeined by the Installation of Air Conditioning and Ventilating system.
- Underground water pressure service.

Benefit of CROWN CPVC plumbing system



Characteristics of Crown CPVC plumbing material

CPVC(Chlorinated Polyvinyl Chloride) pipe is the heat-resistant rigid PVC pipe that made use of excellent chemical resistance, corrosion resistance and workability of Polyvinyl Chloride as they are and significantly improved thermal resistance, its weakness.



• Corrosion resistance and hygiene

1. Corrosion and scale do not occur: No rust, no pipe blockage (Proven corrosion in chemical environments such as various acids, alkali, salt, halogen etc.)
2. Crown CPVC materials and bonding bond are harmless to humans and ecosystem
3. Its antimicrobial material inhibits bacteria production

• Self-extinguishing

1. Its own self-extinguishing not catching fire if exposed to it, (For Crown CPVC combustion, more than three times of oxygen amount is required in the air of the current earth)
2. When applying the heat, it does not spread flame and is carbonized back.
3. Smoke toxic is lower than that of ordinary building materials (Result of the combustion test by Pittsburgh University, California Institute for Environmental Studies).

Materials	limited oxygen rate	Remarks
CPVC	60	oxygen content in the air 21%
colton	16-17	
PE	17	
PP	18	
PS	18	
PB	18	



A QUALITY PRODUCT MANUFACTURED BY:



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