

# CPVC Pipes and Fittings



“ Total  
**Plumbing Solution** for  
Commercial Applications ”



## Features :

For Risers, Mains, Loops, Branch Lines for Water and Chemical Applications

Available in 1/2", 3/4", 1", 1 1/4", 1 1/2" and 2" in CTS Sizes Compatible with 2-1/2", 3", 4" 6" in IPS Sizes

Reliable Performance with long term durability, will not corrode, pit or scale, very Broad Chemical Resistance



## Applications

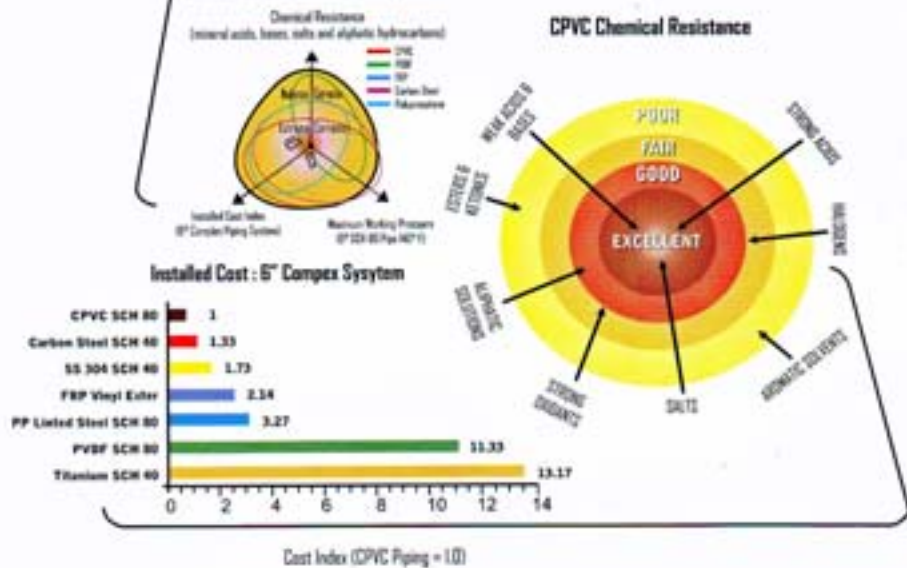
Hot and Cold Water Plumbing (Main Lines and Loop Lines), Plumbing system for Industrial Chemicals in process industries such as:

- Chemical processing
- Metal Treatment
- Fertilizer Mining
- Food and Beverage
- Industrial Plating
- Pulp and Paper
- Chloro-alkali
- Waste-Water Treatment
- De-ionised Water
- Chemical Drainage

## Advantages:

- Very High Corrosion Resistance
- Very High chemical resistance under broad range of environments
- High Operating Temp. and Pressure
- High Mechanical strength
- Leak proof Jointing
- Proven Service Life
- Minimal Lifetime Cost
- High weathering resistance (UV resistance)
- High Ignition Resistance and low smoke generation
- High Abrasion resistance
- Resistance to microbial attack
- NSF Approved (suitable for potable water)
- Low thermal conductivity (High Energy Conservation)
- Maintenance Free

## Outstanding Balance of Properties



## What is CPVC?

Chlorinated polyvinyl chloride (CPVC) is manufactured through the post chlorination process of PVC and is the result of advanced material technology of Noveon which produces an engineering thermoplastic providing the piping industry and its customers a product with longer service life, lower maintenance, and improved process utilization compared to traditional materials. CPVC due to its relatively low cost, high glass transition temperature, high heat distortion temperature, chemical inertness, outstanding mechanical, dielectric, flame and smoke properties, offers superior corrosion resistance, mechanical strength, and excellent life-cycle economics in a single package.

## Product Description

All pipes and fittings are manufactured using CPVC compounds with Cell Class 23447B defined by ASTM D1784 with Design Stress of 2000 PSI and Maximum service temperature of 200°F.

**Pipes:** comply with the requirements of ASTM F441 in Schedule 40 and 80 dimensions.

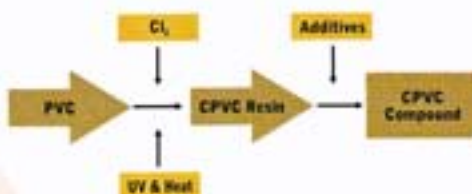
**Availability:** 2 1/2", 3", 4" and 6" (1/2", 3/4", 1", 1 1/4", 1 1/2" and 2" also available against order)

**Fittings:** as per ASTM F439 (Schedule 80 Socket)

**Availability:** 2 1/2", 3", 4" and 6" (1/2", 3/4", 1", 1 1/4", 1 1/2" and 2" also available against order)

**Primer/Solvent Cement:** ASTM F656 and ASTM F493 respectively.

**Color:** in Tan and Grey Colors



## Product List

Item Code	Item Name	Size	Remarks	Product
AID0070M	Pipe SCH - 40	2-1/2"	SCH - 40	
AID0080M	Pipe SCH - 40	3"	SCH - 40	
AID0090M	Pipe SCH - 40	4"	SCH - 40	
AID0096M	Pipe SCH - 40	6"	SCH - 40	
AID0070M	Pipe SCH - 80	2-1/2"	SCH - 80	
AID0080M	Pipe SCH - 80	3"	SCH - 80	
AID0090M	Pipe SCH - 80	4"	SCH - 80	
AID0096M	Pipe SCH - 80	6"	SCH - 80	
AID0070	Elbow 90° Deg.	2-1/2"	SCH - 80	
AID0080	Elbow 90° Deg.	3"	SCH - 80	
AID0090	Elbow 90° Deg.	4"	SCH - 80	
AID0096	Elbow 90° Deg.	6"	SCH - 80	
AID0270	Tee	2-1/2"	SCH - 80	
AID0280	Tee	3"	SCH - 80	
AID0290	Tee	4"	SCH - 80	
AID0296	Tee	6"	SCH - 80	
AID0370	Elbow 45° Deg.	2-1/2"	SCH - 80	
AID0380	Elbow 45° Deg.	3"	SCH - 80	
AID0390	Elbow 45° Deg.	4"	SCH - 80	
AID0396	Elbow 45° Deg.	6"	SCH - 80	
AID0472	Reducer Bushing	2-1/2" x 2"	SCH - 80	
AID0482	Reducer Bushing	3" x 2"	SCH - 80	
AID0483	Reducer Bushing	3" x 2-1/2"	SCH - 80	
AID0491	Reducer Bushing	4" x 2"	SCH - 80	
AID0492	Reducer Bushing	4" x 2-1/2"	SCH - 80	
AID0493	Reducer Bushing	4" x 3"	SCH - 80	
AID0570	Coupler	2-1/2"	SCH - 80	
AID0580	Coupler	3"	SCH - 80	
AID0590	Coupler	4"	SCH - 80	
AID0596	Coupler	6"	SCH - 80	
AID0670	End Cap	2-1/2"	SCH - 80	
AID0680	End Cap	3"	SCH - 80	
AID0690	End Cap	4"	SCH - 80	
AID0696	End Cap	6"	SCH - 80	
AID2270	Cross	2-1/2"	SCH - 80	
AID2280	Cross	3"	SCH - 80	
AID2290	Cross	4"	SCH - 80	
AID2296	Cross	6"	SCH - 80	
AID0470	Flange	2-1/2"	SCH - 80	Use EPDM Washers for Water and FPM washers for corrosive liquids.
AID0480	Flange	3"	SCH - 80	
AID0490	Flange	4"	SCH - 80	
AID0496	Flange	6"	SCH - 80	
AID0970	Ball Valve	2-1/2"	SCH - 80	
AID0980	Ball Valve	3"	SCH - 80	
AID0990	Ball Valve	4"	SCH - 80	
AID0996	Ball Valve	6"	SCH - 80	
AID2030	FlowGuard I-Step Medium Duty	473 ML	For Hot & Cold Water Application	
AID2040	FlowGuard I-Step Medium Duty	946 ML		
AID2010F	Industrial Grade Heavy Duty	473 ML	For use with Industrial Chemicals.	
AID2020F	Industrial Grade Heavy Duty	946 ML		
AID2010P	Purple Primer	473 ML	For use with Industrial Heavy Duty Cement	
AID2020P	Purple Primer	946 ML		

**Notes:**

All Above pipes and Fittings also available in 1/2", 3/4", 1", 1 1/2", 2" and 2 1/2" in IPS (Sch 40/80) sizes against special orders Pipes and Fittings also available under "Ajoy CPVC" brand in grey color against special orders

Other Valves and Accessories: (available against order)

Expansion Joints, Check Valves, Diaphragm Valves, Butterfly Valve (manual as well as pneumatic/electrically actuated type also available)

## SCH 40 & SCH 80 Dimensional Chart

	PIPE SIZE	2 1/2"	3"	4"	6"
<b>AVG. OD (MM)</b>	CPVC SCH 40	73.03	88.90	94.30	108.28
	CPVC SCH 80	73.03	88.90	94.30	108.28
<b>AVG. WT (MM)</b>	CPVC SCH 40	5.16	5.43	6.02	7.11
	CPVC SCH 80	7.01	7.62	8.56	10.97

## SCH 40 & SCH 80 Temperature/Pressure Rating Chart

OPERATING TEMPERATURE	PIPE SIZE	2 1/2"	3"	4"	6"
<b>23°C</b>	CPVC SCH 40	21.03	18.28	15.47	12.66
	CPVC SCH 80	29.53	26.01	22.50	19.69
<b>27°C</b>	CPVC SCH 40	21.03	18.28	15.47	12.66
	CPVC SCH 80	29.53	26.01	22.50	19.69
<b>32°C</b>	CPVC SCH 40	19.19	16.64	14.08	11.52
	CPVC SCH 80	26.87	23.67	20.47	17.91
<b>38°C</b>	CPVC SCH 40	17.30	14.99	12.68	10.38
	CPVC SCH 80	24.21	21.33	18.45	16.14
<b>43°C</b>	CPVC SCH 40	16.24	14.08	11.91	9.74
	CPVC SCH 80	22.74	20.03	17.32	15.16
<b>49°C</b>	CPVC SCH 40	13.71	11.89	10.05	8.23
	CPVC SCH 80	19.19	16.51	14.62	12.80
<b>54°C</b>	CPVC SCH 40	13.08	11.33	9.59	7.85
	CPVC SCH 80	18.31	16.13	13.95	12.21
<b>60°C</b>	CPVC SCH 40	10.55	9.14	7.73	6.33
	CPVC SCH 80	14.77	13.01	11.25	9.84
<b>66°C</b>	CPVC SCH 40	9.91	8.59	7.27	5.95
	CPVC SCH 80	13.88	12.23	10.57	9.25
<b>71°C</b>	CPVC SCH 40	8.44	7.31	6.19	5.08
	CPVC SCH 80	11.81	10.41	9.00	7.87
<b>77°C</b>	CPVC SCH 40	6.75	5.85	4.95	4.05
	CPVC SCH 80	9.45	8.32	7.20	6.30
<b>82°C</b>	CPVC SCH 40	5.27	4.57	3.87	3.16
	CPVC SCH 80	7.38	6.50	5.62	4.92
<b>93°C</b>	CPVC SCH 40	4.22	3.66	3.09	2.53
	CPVC SCH 80	5.91	5.20	4.50	3.94

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House

Municipal Corporation  
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An ISO 9001:2000  
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No. of Awards  
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IP License Holder  
in India



Manufactured and Marketed by :

# ajay industrial corporation

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