

# XIRTEC PVC & CPVC

PVC Sch 40 - 1/2" - 24" (12mm - 600mm)  
PVC Sch 80 - 1/2" - 24" (12mm - 600mm)  
CPVC Sch 40 & 80 - 1/2" - 16" (12mm - 400mm)

## Xirtec® PVC Xirtec® CPVC

### THE IPEX SYSTEM ADVANTAGE

Introducing IPEX vinyl process piping systems – A complete line of pipe, fittings, flanges, strainers and valves to meet all your process system requirements.

IPEX manufactures the Xirtec® PVC and Xirtec® CPVC systems to meet industry demands for a complete Pipe, Valves and Fittings (PVF) package that is designed, produced and backed by a single manufacturer. These systems are engineered and manufactured to IPEX's strict quality, performance and dimensional standards, and therefore eliminate compatibility concerns associated with mixed brands of pipe and fittings.

IPEX high-performance vinyl systems are designed to meet the temperature, pressure and flow requirements of piping systems used in chemical processes and other industrial applications. They feature outstanding resistance to corrosion, and are exceptionally suited for use with a wide range of acids, alcohols, salts and halogens. The perfect extended service, low maintenance alternative to common and exotic metal systems.

Xirtec PVC pipe and fittings and Xirtec CPVC pipe are available in Schedule 40 and 80 thicknesses. Xirtec CPVC fittings are also available in Schedule 80 thicknesses.

### DESIGNED, MANUFACTURED AND BACKED BY IPEX

Our total systems approach means you can be confident that all the material you need is designed, manufactured and backed by the same company. One source to stand behind you and your complete system.

### APPLICATIONS

- Plant chemical distribution lines
- Water and wastewater treatment
- Acid systems for refineries, pickling lines and plating shops
- Chlorine injection, chlorine dioxide and chloralkali plant piping
- Steel wire plants
- Battery manufacturing
- Bleach lines in textile and paper mills
- Alum and caustic handling systems
- Circuit board manufacturing
- Semiconductor
- Pharmaceutical
- Cooling water and cooling tower systems
- Tailing and slurry lines
- Washwater recovery systems
- Plant water supply
- Brine and seawater systems
- Fish farming
- Waterworks
- Aquariums and swimming pools
- Irrigation systems in golf courses, greenhouses, etc.

### STANDARDS

#### XIRTEC PVC



ASTM D1785



CSA B137.3



NSF 14

#### XIRTEC CPVC



ASTM F441

Caution: Do not use or test PVC or CPVC with compressed air or other gases including air-over-water boosters.

## ADVANTAGES

- ① Lower Installation Costs, Easy Handling**  
In addition to a lower material cost, Xirtec pipe can significantly reduce labor and transportation costs on a typical installation. The reason? They are lightweight, easily handled, stored, cut and joined.
- ② Extended Life**  
Xirtec PVC and CPVC are fundamentally ageless and impervious to normal weather conditions. These piping components in uninterrupted service and in a variety of demanding industrial applications have operated successfully for over 40 years.
- ③ Superior Underground Performance**  
Xirtec PVC and CPVC are immune to deterioration from naturally corrosive soil conditions as well as electrochemical and galvanic corrosion. This is particularly advantageous in underground installations where galvanic reaction often causes damage to metal piping products.
- ④ Exceptional Chemical Resistance**  
The IPEX vinyl systems, including pipe, valves and fittings, provide outstanding resistance to a wide range of chemicals such as most acids, alcohols, alkalis, salt solutions, halogens and more.
- ⑤ Improved Flow**  
Xirtec has a substantially lower Roughness Factor than metal and other materials, and since it does not rust, pit, scale or corrode, the interior walls remain smooth in virtually any service.
- ⑥ Potable Water Approved**  
Xirtec PVC (polyvinyl chloride) and Xirtec CPVC (chlorinated polyvinyl chloride) are suitable for use with potable water as listed with NSF International and CSA.
- ⑦ Broad Temperature Range**  
IPEX vinyl systems are designed to meet a broad range of service temperatures. Xirtec PVC has a recommended maximum service temperature of 140°F (60°C) in pressure, with intermittent flow capability of 180°F (82°C) for drainage. Xirtec CPVC has a maximum service temperature of 200°F (93°C).
- ⑧ Lower Thermal Conductivity**  
With a low thermal conductivity factor, IPEX vinyl systems have less heat loss or gain, thus sustaining service temperature more efficiently than metal piping. As a result, pipe insulation is often not required.
- ⑨ Environmentally Responsible**  
With energy conservation a prime concern, you can rely on the fact that IPEX's manufacturing process for Xirtec piping materials require less than half the energy needed to produce the equivalent size of carbon steel or steel alloy materials.



### DID YOU KNOW?

One of the outstanding characteristics of PVC is its resistance to ignition. This is demonstrated by its flash point of 730°F (388°C), compared to 400°F (204°C) for woodchips.

CPVC offers an even greater fire safety profile than PVC. CPVC's ignition resistance is demonstrated by its flash point of 900°F (482°C), with a low flame spread as well.

## XIRTEC PIPE PRESSURE RATINGS

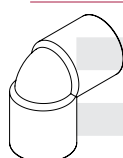
Sizes		IPEX Schedule 40 PVC / CPVC			IPEX Schedule 80 PVC / CPVC		
Diameter (in.)	O.D. (in.)	Wall Thickness (in.)	I.D. (in.)	*Max. Pressure 73°F (psi)	Wall Thickness (in.)	I.D. (in.)	*Max. Pressure 73°F (psi)
1/4	.540	–	–	–	.119	.302	1,130
3/8	.675	–	–	–	.126	.423	920
1/2	.840	.109	.602	600	.147	.526	850
3/4	1.050	.113	.804	480	.154	.722	690
1	1.315	.133	1.029	450	.179	.936	630
1-1/4	1.660	.141	1.360	370	.191	1.255	520
1-1/2	1.900	.145	1.590	330	.200	1.476	470
2	2.375	.154	2.047	280	.218	1.913	400
2-1/2	2.875	.203	2.445	300	.276	2.290	420
3	3.500	.216	3.042	260	.300	2.864	370
4	4.500	.237	3.998	220	.337	3.786	320
6	6.625	.280	6.031	180	.432	5.709	280
8	8.625	.322	7.941	160	.500	7.565	250
10	10.750	.365	9.976	140	.593	9.493	230
12	12.750	.406	11.888	130	.687	11.294	230
14	14.000	.438	13.072	130	.750	12.412	220
16	16.000	.500	14.936	130	.843	14.224	220
18	18.000	.562	16.809	130	.937	16.014	220
20	20.000	.593	18.743	120	1.031	17.814	220
24	24.000	.687	22.544	120	1.218	21.418	210

## PRODUCT SELECTION CHART – XIRTEC PVC SCH. 80 & CPVC SCH. 80 FITTINGS


Dimension		PVC Sch 80	CPVC Sch 80
inches	mm	Product Code	Product Code

Dimension		PVC Sch 80	CPVC Sch 80
inches	mm	Product Code	Product Code


### 90° Elbow Soc x FPT

	1/2	12	036172	059187
	3/4	20	036173	059941
	1	25	036174	059188
	1-1/4	32	036175	059189
	1-1/2	40	036176	059190
	2	50	036177	059191


### 22-1/2° Elbow Soc x Soc

	2	50	036134	059614
	3	75	036135	059615
	4	100	036136	059616
	6	150	036137 †	-
	8	200	036138 †	-
	10	250	036139 †	-
	12	300	036140 †	-

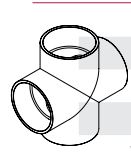
### 45° Elbow Soc x Soc

	1/4	6	036142	059162
	3/8	9	036143	059163
	1/2	12	036144	059164
	3/4	20	036145	059165
	1	25	036146	059166
	1-1/4	32	036147	059167
	1-1/2	40	036148	059168
	2	50	036149	059169
	2-1/2	65	036150	059170
	3	75	036151	059171
	4	100	036152	059172
	6	150	036154	059173
	8	200	036155	059174
	10	250	036862 ■	059087 ■
	12	300	036863 ■	059088 ■
	10	250	036156 †	-
	12	300	036157 †	-
	14	350	036158 †	-
	16	400	036159 †	-

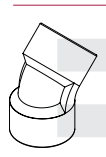
### 11-1/4° Elbow Soc x Soc

	2	50	-	059617
	3	75	-	059618
	4	100	-	059619

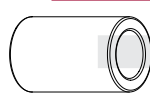
### Cross Soc x Soc x Soc x Soc

	1/4	6	-	059620
	1/2	12	036116	059154
	3/4	20	036117	059155
	1	25	036118	059156
	1-1/4	32	036119	059157
	1-1/2	40	036120	059158
	2	50	036121	059159
	2-1/2	65	036122	059018
	3	75	036123	059160
	4	100	036124	059161
	6	150	036125 †	-


### 45° Elbow FPT x FPT

	1/4	6	036160	059176
	3/8	9	036161	059177
	1/2	12	036162	059178
	3/4	20	036163	059179
	1	25	036164	059180
	1-1/4	32	036165	059181
	1-1/2	40	036166	059182
	2	50	036167	059183
	2-1/2	65	036168	059184
	3	75	036169	059185
	4	100	036170	059186

### Coupling Soc x Soc

	1/4	6	036088	059130
	3/8	9	036089	059131
	1/2	12	036090	059132
	3/4	20	036091	059133
	1	25	036092	059134
	1-1/4	32	036093	059135
	1-1/2	40	036094	059136
	2	50	036095	059137
	2-1/2	65	036096	059138
	3	75	036097	059139
	4	100	036098	059140
	6	150	036099	059141
	8	200	036100	059142
	10	250	036101 †	059033 †
	12	300	036102 †	059043 †
	14	350	036103 †	-
	16	400	036889 †	-

### 30° Elbow Soc x Soc

	6	150	236003	059022
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■,†,‡ See page 75 for descriptions