

XIRTEC PVC & CORZAN CPVC

PVC Sch 40 – 1/2" – 24"
PVC Sch 80 – 1/4" – 24"
CPVC Sch 40 – 1/2" – 16"
CPVC Sch 80 – 1/2" – 16"

Xirtec¹⁴⁰ CORZAN[®]

THE IPEX SYSTEM ADVANTAGE

IPEX vinyl process piping systems; a complete line of pipe, fittings and valves to meet all your process system requirements.

IPEX developed the Xirtec[®]140 (PVC) and Corzan[®] (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 the problems inherent in purchasing and installing piping system components manufactured by several different companies.

IPEX high-performance vinyl systems are designed to meet the temperature, pressure and size requirements of piping systems used in chemical processes and other industrial applications. They feature outstanding resistance to photodegradation, creep stress and immunity to oxidation, 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.

Xirtec140 pipe and fittings and Corzan pipe are available in Schedule 40 and 80, IPS. Corzan fittings are available in Schedule 80.

APPLICATIONS

- Plant chemical distribution lines
- Water and wastewater
- 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

XIRTEC140



ASTM D1785



CSA B137.3



PW

CORZAN



ASTM F441



PW



CAN/ULC-S102.2

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 & Corzan 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 Corzan CPVC provide years of maintenance free service. Our materials will not rust, pit, scale or corrode on either interior or exterior surfaces. Thermoplastic piping systems in a variety of demanding industrial applications have operated successfully for over 45 years.
- 3 Superior Underground Performance**

Xirtec and Corzan CPVC are immune to damage 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 and Corzan have a substantially lower Roughness Factor than metal and other materials, and since they do not rust, pit, scale or corrode, the interior walls remain smooth in virtually any service.
- 6 Potable Water Approved**

Xirtec140 polyvinyl chloride (PVC) and Corzan chlorinated polyvinyl chloride (CPVC) are suitable for use with potable water as listed with the National Sanitation Foundation (NSF) and CSA International.
- 7 Exceptional Temperature Range**

IPEX vinyl systems are designed to meet a broad range of service temperatures. Xirtec has a recommended maximum service temperature of 140°F (60°C) under pressure. Corzan has a maximum service temperature of 200°F under pressure with occasional exposure to boiling water (212°F / 100°C) in drainage.
- 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 and Corzan piping materials requires less than half the energy needed to produce the equivalent size of carbon steel or steel alloy materials.



i 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, compared to 400°F for wood chips.

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

PRODUCT SELECTION CHART

PVC PIPE PRESSURE RATINGS

Sizes		Schedule 40 PVC			Schedule 80 PVC		
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

CPVC PIPE PRESSURE RATINGS

Sizes		Schedule 40 CPVC			Schedule 80 CPVC				Schedule 80 HP 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)	*Max. Pressure 180°F (psi)	Wall Thickness (in.)	I.D. (in.)	*Max. Pressure 73°F (psi)	*Max. Pressure 180°F (psi)
1/2	.840	.109	.602	600	.147	.526	850	213	.147	.526	850	264
3/4	1.050	.113	.804	480	.154	.722	690	173	.154	.722	690	214
1	1.315	.133	1.029	450	.179	.936	630	158	.179	.936	630	195
1-1/4	1.660	.141	1.360	370	.191	1.255	520	130	.191	1.255	520	161
1-1/2	1.900	.145	1.590	330	.200	1.476	470	118	.200	1.476	470	146
2	2.375	.154	2.047	280	.218	1.913	400	100	.218	1.913	400	124
2-1/2	2.875	.203	2.445	300	.276	2.290	420	105	.276	2.290	420	130
3	3.500	.216	3.042	260	.300	2.864	370	93	.300	2.864	370	115
4	4.500	.237	3.998	220	.337	3.786	320	80	.337	3.786	320	100
6	6.625	.280	6.031	180	.432	5.709	280	70	.430	5.709	280	87
8	8.625	.322	7.941	160	.500	7.565	250	63	.500	7.565	250	78
10	10.750	.365	9.976	140	.593	9.493	230	58	–	–	–	–
12	12.750	.406	11.888	130	.687	11.294	230	58	–	–	–	–
14	14.000	.438	13.072	130	.750	12.412	220	55	–	–	–	–
16	16.000	.500	14.936	130	.843	14.224	220	55	–	–	–	–

* Maximum pressure @

PVC AND CPVC PRESSURE PIPE

Dimension inches	PRODUCT CODE								
	PVC Sch 40 White Plain End	PVC Sch 40 White Bell End	PVC Sch 40 Grey Bell End	PVC Sch 80 Grey Plain End	PVC Sch 80 Grey Bell End	CPVC Sch 40 Plain End	CPVC Sch 80 Plain End	CPVC Sch 80 Bell End	HP CPVC Sch 80 Plain End
1/2 x 10'	022600	022603	022004	-	085106	-	-	-	
3/4 x 10'	022633	022604	022011	-	085111	-	-	-	
1 x 10'	022612	022611	022016	-	085114	-	-	-	
1-1/4 x 10'	022608	022674	022027	-	085119	-	-	-	
1-1/2 x 10'	022614	022616	022032	-	-	-	-	-	
2 x 10'	022618	022619	022037	-	-	-	-	-	
2-1/2 x 10'	022621	-	022042	-	-	-	-	-	
3 x 10'	022637	022624	022046	-	-	-	-	-	
4 x 10'	022626	022628	-	085138	-	-	-	-	
5 x 10'	-	-	-	-	-	-	-	-	
6 x 10'	022666	022659	-	085143	-	-	-	-	
1/4 x 20'	-	-	-	085103	-	-	-	-	
3/8 x 20'	-	-	-	085104	-	-	-	-	
1/2 x 20'	022602	022601	-	085101	085108	019300	019203	-	019035
3/4 x 20'	022677	022607	-	085107	085112	019301	019205	-	019036
1 x 20'	022606	022610	-	085110	085116	019302	019207	-	019037
1-1/4 x 20'	022678	022617	-	085117	085122	019303	019209	-	019038
1-1/2 x 20'	022675	022615	-	085115	085127	019304	019211	019031	019039
2 x 20'	022679	022620	-	085120	085132	019305	019213	019032	019040
2-1/2 x 20'	022646	022625	-	085125	085134	019306	019216	-	019041
3" x 20'	022623	022630	-	085130	085137	019307	019217	019033	019042
4 x 20'	022627	022640	022040	085140	085139	019308	019219	019256	019043
5 x 20'	022651	022650	-	085150	-	-	-	-	-
6 x 20'	022665	022660	022060	085160	085162	019309	019220	019218	019044
8 x 20'	022681	022680	022058	085180	085147	019310	019221	019255	019045
10 x 20'	022691	222690	022061	085190	085192	019013	019222	-	-
12 x 20'	022693	022692	022064	085195	085151	019016	019223	-	-
14 x 20'	022682	022694	-	085158	085152	-	019228	-	-
16 x 20'	022683	022696	-	085153	085155	019226	019229	-	-
18 x 20'	022687	022697	-	085159	-	-	-	-	-
20 x 20'	022702	022698	-	-	085170	-	-	-	-
24 x 20'	022704	022699	-	-	085171	-	-	-	-