XIRTEC PVC & CORZAN 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®140 CORZAN®

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 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 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.

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

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

XIRTEC140	CORZAN
ASTM D1785	ASTM F441
CSA B137.3	
NSF 14	

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 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 and Corzan 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, alkalies, 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**
Xirtec polyvinyl chloride (PVC) and Corzan chlorinated polyvinyl chloride (CPVC) 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 has a recommended maximum service temperature of 140°F (60°C) in pressure, with intermittent flow capability of 180ºF (82ºC) for drainage. Corzan has a maximum service temperature of 200°F (93ºC).

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.

DID YOU KNOW?

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

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

XIRTEC / CORZAN 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 140 PRESSURE PIPE

Dimension		PVC Sch 40 White Plain End	PVC Sch 40 Grey Solvent Bell End	PVC Sch 80 Grey Plain End	PVC Sch 80 Grey Solvent Bell End	CPVC Sch 40 Plain End	CPVC Sch 80 Plain End
inches	mm	Product Code	Product Code	Product Code	Product Code	Product Code	Product Code
1/2 x 10'	12 x 3m	022600	022004	-	-	-	-
3/4 x 10'	20 x 3m	022633	022011	-	-	-	-
1 x 10'	25 x 3m	022612	022016	-	-	-	-
1-1/4 x 10'	32 x 3m	022608	022027	-	-	-	-
1-1/2 x 10'	40 x 3m	022614	022032	-	-	-	-
2 x 10'	50 x 3m	022618	022037	-	-	-	-
2-1/2 x 10'	65 x 3m	022621	022042	-	-	-	-
3 x 10'	75 x 3m	022637	022046	-	-	-	-
1/4 x 20'	6 x 6m	-	-	085103	-	-	019100
3/8 x 20'	10 x 6m	-	-	085104	-	019300	019203
1/2 x 20'	12 x 6m	-	-	085101	-	-	-
3/4 x 20'	20 x 6m	-	-	085107	-	019301	019205
1 x 20'	25 x 6m	-	-	085110	-	019302	019207
1-1/4 x 20'	32 x 6m	-	-	085117	-	019303	019209
1-1/2 x 20'	40 x 6m	-	-	085115	085127	019304	019211
2 x 20'	50 x 6m	-	-	085120	085132	019305	019213
2-1/2 x 20'	65 x 6m	-	-	085125	085134	019306	019216
3" x 20'	75 x 6m	-	-	085130	085137	019307	019217
4 x 20'	100 x 6m	-	022040	085140	085139	019308	019219
6 x 20'	150 x 6m	-	022060	085160	085162	019309	019220
8 x 20'	200 x 6m	-	022058	085180	085147	019310	019221
10 x 20'	250 x 6m	-	022061	085190	085192	019013	019222
12 x 20'	300 x 6m	-	022064	085195	085151	019016	019223
14 x 20'	350 x 6m	-	022066	085158	085152	019227	019228
16 x 20'	400 x 6m	-	022068	085153	085155	019226	019229
18 x 20'	450 x 6m	-	022069	085159	085156	-	-
20 x 20'	500 x 6m	-	022072	085170	085170	-	-
24 x 20'	600 x 6m	-	022073	085171	085171	-	-

PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 40 WHITE & SCH. 40 GREY FITTINGS

LEGEND

FOR XIRTEC 140 PVC SCHEDULE 40 WHITE

† Fabricated fittings

▮ Molded fittings: 150 psi max. working pressure, non-shock @ 73ºF (23ºC)

FOR XIRTEC 140 PVC SCHEDULE 40 GREY

† Indicates fabricated and fiberglass reinforced pipe fittings

◗ Indicates Series 160 Fabricated and Fiberglass reinforced pipe fittings. The maximum continuous working pressure of fittings is 160 psi @ 73ºF (23ºC) under ideal conditions. no provisions have been made for pressure surges, water hammer, or other conditions which should be considered.