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.

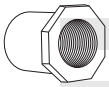
CPVC offers an even greater fire safety profile than PVC. CPVC's ignition resistance is demonstrated by its flash point of 900ºF (482ºC), with a low flame spread as well.

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

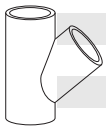
PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 40 WHITE & SCH. 40 GREY FITTINGS

Reducer Bushing Spig x FPT



Dimension inches	Dimension mm	Sch 40 White Product Code	Sch 40 Grey Product Code
1/2 x 1/8	12 x 3	035717	-
1/2 x 1/4	12 x 6	035718	035258
1/2 x 3/8	12 x 9	035719	035259
3/4 x 1/4	20 x 6	035720	-
3/4 x 1/2	20 x 12	035722	035260
1 x 3/8	25 x 9	035723	-
1 x 1/2	25 x 12	035724	035262
1 x 3/4	25 x 20	035725	035263
1-1/4 x 1/2	32 x 12	035726	035264
1-1/4 x 3/4	32 x 20	035727	035265
1-1/4 x 1	32 x 25	035728	035266
1-1/2 x 1/2	40 x 12	035729	035267
1-1/2 x 3/4	40 x 20	035730	035268
1-1/2 x 1	40 x 25	035731	035269
1-1/2 x 1-1/4	40 x 32	035732	035270
2 x 1/2	50 x 12	035733	035271
2 x 3/4	50 x 20	035734	035272
2 x 1	50 x 25	035735	035273
2 x 1-1/4	50 x 32	035736	035274
2 x 1-1/2	50 x 40	035737	035275
2-1/2 x 1/2	65 x 12	035738	-
2-1/2 x 3/4	65 x 20	035739	-
2-1/2 x 1	65 x 25	035740	-
2-1/2 x 1-1/4	65 x 32	035741	-
2-1/2 x 1-1/2	65 x 40	035742	035277
2-1/2 x 2	65 x 50	035743	035278
3 x 3/4	75 x 20	035744	-
3 x 1	75 x 25	035745	-
3 x 1-1/4	75 x 32	035746	-
3 x 1-1/2	75 x 40	035747	035282 †
3 x 2	75 x 50	035748	035283
3 x 2-1/2	75 x 65	035749	-
4 x 2	100 x 50	035750	035285
4 x 2-1/2	100 x 65	035751	-
4 x 3	100 x 75	035752	035286
5 x 3	125 x 75	035753	-
5 x 4	125 x 100	035754	235062
6 x 2	150 x 50	035755	-
6 x 3	150 x 75	035756	-
6 x 4	150 x 100	035757	035287
6 x 5	150 x 125	035758	-

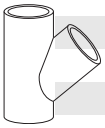
45º Wye Soc x Soc x Soc



Dimension inches	Dimension mm	Sch 40 White Product Code	Sch 40 Grey Product Code
1-1/2	40	035912 ▮	-
2	50	035913 ▮	-
3	75	035915 ▮	-
4	100	035916 ▮	-
6	150	035917 ▮	-
6 x 6 x 4	150 x 150 x 100	035922 ▮	-

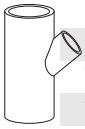
1/2" - 2" - 235 psi maximum internal pressure rating @ 73ºF
(12 - 50mm - 1 620 kPa maximum internal pressure rating @ 23°C)
3" - 6" - 150 psi maximum internal pressure rating @ 73ºF
(75 - 150mm - 1 034 kPa maximum internal pressure rating @ 23°C)

45º Wye Soc x Soc x Soc (50 psi / 345 kPa max)



Dimension inches	Dimension mm	Sch 40 White Product Code	Sch 40 Grey Product Code
1/2	12	-	035357 †
3/4	20	-	035358 †
1-1/2	40	-	035359 †
2	50	-	035360 †
2-1/2	65	-	035361 †
3	75	-	- †
4	100	-	035363 †
6	150	-	035364 †
8	200	-	035365 †
10	250	-	035366 †
12	300	-	035367 †
14	350	-	- †
16	400	-	- †
18	450	-	- ◗
20	500	-	- ◗
24	600	-	- ◗

45º Reducing Wye Soc x Soc x Soc (50 psi / 345 kPa max)



Dimension inches	Dimension mm	Sch 40 White Product Code	Sch 40 Grey Product Code
8 x 8 x 4	200 x 200 x 100	-	035372 †
8 x 8 x 6	200 x 200 x 150	-	035373 †
10 x 10 x 4	250 x 250 x 100	-	- †
10 x 10 x 6	250 x 250 x 150	-	035374 †
10 x 10 x 8	250 x 250 x 200	-	- †
12 x 12 x 4	300 x 300 x 100	-	- †
12 x 12 x 6	300 x 300 x 150	-	035935 †
12 x 12 x 8	300 x 300 x 200	-	- †
12 x 12 x 10	300 x 300 x 250	-	- †
14 x 14 x 6	350 x 350 x 150	-	- †
14 x 14 x 8	350 x 350 x 200	-	- †
14 x 14 x 10	350 x 350 x 250	-	- †
14 x 14 x 12	350 x 350 x 300	-	- †
16 x 16 x 8	400 x 400 x 200	-	035375 †
16 x 16 x 10	400 x 400 x 250	-	- †
16 x 16 x 12	400 x 400 x 300	-	- †
16 x 16 x 14	400 x 400 x 350	-	- †
18 x 18 x 8	450 x 450 x 200	-	- ◗
18 x 18 x 10	450 x 450 x 250	-	- ◗
18 x 18 x 12	450 x 450 x 300	-	- ◗
18 x 18 x 14	450 x 450 x 350	-	- ◗
18 x 18 x 16	450 x 450 x 400	-	- ◗
20 x 20 x 12	500 x 500 x 300	-	- ◗
20 x 20 x 14	500 x 500 x 350	-	- ◗
20 x 20 x 16	500 x 500 x 400	-	- ◗
20 x 20 x 18	500 x 500 x 450	-	- ◗
24 x 24 x 14	600 x 600 x 350	-	- ◗
24 x 24 x 16	600 x 600 x 400	-	- ◗
24 x 24 x 18	600 x 600 x 450	-	- ◗
24 x 24 x 20	600 x 600 x 500	-	- ◗

▮,†,◗ See page 75 for descriptions