

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)



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.
- Broad Temperature Range**

7 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 180°F (82°C) for drainage. Corzan 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 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 (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 / 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

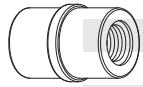
PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 80 & CORZAN CPVC SCH. 80 FITTINGS

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

Coupling

FPT x FPT

Dimension (inches)	Dimension (mm)	PVC Sch 80 Product Code	CPVC Sch 80 Product Code
1/4	6	036104	059143
3/8	9	036105	059144
1/2	12	036106	059145
3/4	20	036107	059146
1	25	036108	059147
1-1/4	32	036109	059148
1-1/2	40	036110	059149
2	50	036111	059150
2-1/2	65	036112	059151
3	75	036113	059152
4	100	036114	059153

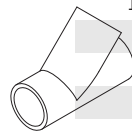


Dimension		PVC Sch 80	CPVC Sch 80
inches	mm	Product Code	Product Code

45° Wye

Soc x Soc x Soc

Dimension (inches)	Dimension (mm)	PVC Sch 80 Product Code	CPVC Sch 80 Product Code
1-1/2	40	036854	059553
2	50	036855	059536
3	75	036856	059537
4	100	036857	059538
6	150	036858	059539
6 x 4	150 x 100	036861	059541
8	200	036859	-
8 x 6	200 x 150	036884	-

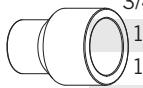


1/2" - 2" - 235 psi maximum internal pressure rating @ 73°F
 (12 - 50mm - 1 620 kPa maximum internal pressure rating @ 23°C)
3" - 6" - 150 psi maximum internal pressure rating @ 73°F
 (75 - 150mm - 1 034 kPa maximum internal pressure rating @ 23°C)

Reducer Coupling

Soc x Soc

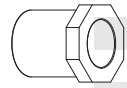
Dimension (inches)	Dimension (mm)	PVC Sch 80 Product Code	CPVC Sch 80 Product Code
3/4 x 1/2	20 x 12	036719	059460
1 x 1/2	25 x 12	036720	059461
1 x 3/4	25 x 20	036721	059462
1-1/4 x 3/4	32 x 20	036723	-
1-1/4 x 1	32 x 25	036724	059463
1-1/2 x 1/2	40 x 12	036725	-
1-1/2 x 3/4	40 x 20	036726	059464
1-1/2 x 1	40 x 25	036727	059465
1-1/2 x 1-1/4	40 x 32	036728	059466
2 x 1/2	50 x 12	036897	-
2 x 1	50 x 25	036729	059467
2 x 1-1/2	50 x 40	036731	059458
3 x 2	75 x 50	036735	059470
4 x 2	100 x 50	036736	059459
4 x 3	100 x 75	036738	059472
6 x 4	150 x 100	036740	059471
8 x 6	200 x 150	036743	059473



Reducer Bushing

Spig x Soc (flushstyle)

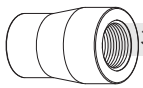
Dimension (inches)	Dimension (mm)	PVC Sch 80 Product Code	CPVC Sch 80 Product Code
3/8 x 1/4	9 x 6	036599	-
1/2 x 1/4	12 x 6	036600	059373
1/2 x 3/8	12 x 9	036601	059374
3/4 x 1/2	20 x 12	036604	059375
1 x 1/2	25 x 12	036605	059376
1 x 3/4	25 x 20	036606	059377
1-1/4 x 1/2	32 x 12	036607	059378
1-1/4 x 3/4	32 x 20	036608	059379
1-1/4 x 1	32 x 25	036609	059380
1-1/2 x 1/2	40 x 12	036610	059381
1-1/2 x 3/4	40 x 20	036611	059382
1-1/2 x 1	40 x 25	036612	059383
1-1/2 x 1-1/4	40 x 32	036613	059384
2 x 1/2	50 x 12	036614	059385
2 x 3/4	50 x 20	036615	059386
2 x 1	50 x 25	036616	059387
2 x 1-1/4	50 x 32	036617	059388
2 x 1-1/2	50 x 40	036618	059389
2-1/2 x 1-1/4	65 x 32	036620	-
2-1/2 x 1-1/2	65 x 40	036621	-
2-1/2 x 2	65 x 50	036622	059392
3 x 1	75 x 25	036623	-
3 x 1-1/2	75 x 40	036624	059393
3 x 2	75 x 50	036625	059394
3 x 2-1/2	75 x 65	036626	059395
4 x 2	100 x 50	036628	059396
4 x 3	100 x 75	036630	059397
6 x 2	150 x 50	036632	059398
6 x 3	150 x 75	036633	059399
6 x 4	150 x 100	036634	059400
8 x 6	200 x 150	036638	059401
10 x 6	250 x 150	036922	+
10 x 8	250 x 200	036270	+
12 x 10	300 x 250	036208	+
12 x 6	300 x 150	036908	-
12 x 8	300 x 200	036645	-



Reducer Coupling

FPT x FPT

Dimension (inches)	Dimension (mm)	PVC Sch 80 Product Code	CPVC Sch 80 Product Code
1/2 x 1/4	12 x 6	036746	-
3/4 x 1/2	20 x 12	036748	-
1 x 1/2	25 x 12	036749	-
1 x 3/4	25 x 20	036750	-
1-1/4 x 3/4	32 x 20	036751	-
1-1/2 x 1	40 x 25	036754	-
2 x 1-1/2	50 x 40	036758	-



■,†,▶ See page 75 for descriptions