

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)

Xirtec¹⁴⁰ 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.
- 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

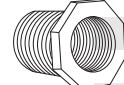
Sizes		IPEX Schedule 40 PVC / CPVC			IPEX Schedule 80 PVC / CPVC		
Diameter (in.)	O.D. (in.)	Wall Thickness (in.)	I.D. (in.)	*Max. Pressure 73°F (psi)	Wall Thickness (in.)	I.D. (in.)	*Max. Pressure 73°F (psi)
1/4	.540	-	-	-	.119	.302	1,130
3/8	.675	-	-	-	.126	.423	920
1/2	.840	.109	.602	600	.147	.526	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

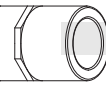
PRODUCT SELECTION CHART - XIRTEC 140 PVC SCH. 80 & CORZAN CPVC SCH. 80 FITTINGS

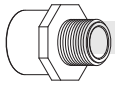
Dimension		PVC Sch 80	CPVC Sch 80
inches	mm	Product Code	Product Code

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

Reducer Bushing		Spig x FPT (flushstyle)	
	3/8 x 1/4	9 x 6	036679 -
	1/2 x 1/4	12 x 6	036681 059428
	1/2 x 3/8	12 x 9	036682 059429
	3/4 x 1/4	20 x 6	036683 059430
	3/4 x 1/2	20 x 12	036684 059431
	1 x 3/8	25 x 9	036685 -
	1 x 1/2	25 x 12	036686 059432
	1 x 3/4	25 x 20	036687 059433
	1-1/4 x 1/2	32 x 12	036688 059434
	1-1/4 x 3/4	32 x 20	036689 059435
	1-1/4 x 1	32 x 25	036690 059436
	1-1/2 x 1/2	40 x 12	036691 059437
	1-1/2 x 3/4	40 x 20	036692 059438
	1-1/2 x 1	40 x 25	036693 059439
	1-1/2 x 1-1/4	40 x 32	036694 059440
	2 x 1/2	50 x 12	036695 059441
	2 x 3/4	50 x 20	036696 059442
	2 x 1	50 x 25	036697 059443
	2 x 1-1/4	50 x 32	036698 059444
	2 x 1-1/2	50 x 40	036699 059445
	2-1/2 x 3/4	65 x 20	036700 059446
	2-1/2 x 1	65 x 25	036701 059447
	2-1/2 x 1-1/4	65 x 32	036702 059448
	2-1/2 x 1-1/2	65 x 40	036703 059449
	2-1/2 x 2	65 x 50	036704 059450
	3 x 3/4	75 x 20	036705 -
	3 x 1	75 x 25	036706 059547
	3 x 1-1/4	75 x 32	036707 -
	3 x 1-1/2	75 x 40	036708 059451
	3 x 2	75 x 50	036709 059452
	3 x 2-1/2	75 x 65	036710 059453
	4 x 2	100 x 50	036711 059454
	4 x 2-1/2	100 x 65	036712 059640
	4 x 3	100 x 75	036713 059455
	6 x 2	150 x 50	036714 -
	6 x 3	150 x 75	036715 059641
	6 x 4	150 x 100	036716 059456

T T Bushing		MPT x FPT (flushstyle)	
	3/8 x 1/4	9 x 6	036647 059402
	1/2 x 1/4	12 x 6	036648 059403
	1/2 x 3/8	12 x 9	036649 059404
	3/4 x 1/4	20 x 6	036651 059405
	3/4 x 3/8	20 x 9	036652 059406
	3/4 x 1/2	20 x 12	036653 059407
	1 x 1/4	25 x 6	036654 059643
	1 x 3/8	25 x 9	036655 -
	1 x 1/2	25 x 12	036656 059408
	1 x 3/4	25 x 20	036657 059409
	1-1/4 x 1/2	32 x 12	036658 059410
	1-1/4 x 3/4	32 x 20	036659 059411
	1-1/4 x 1	32 x 25	036660 059412
	1-1/2 x 1/2	40 x 12	036661 059413
	1-1/2 x 3/4	40 x 20	036662 059414
	1-1/2 x 1	40 x 25	036663 059415
	1-1/2 x 1-1/4	40 x 32	036664 059416
	2 x 1/2	50 x 12	036665 059417
	2 x 3/4	50 x 20	036666 059418
	2 x 1	50 x 25	036667 059419
	2 x 1-1/4	50 x 32	036668 059420
	2 x 1-1/2	50 x 40	036669 059421
	2-1/2 x 2	65 x 50	036672 059422
	3 x 1-1/2	75 x 40	036673 059423
	3 x 2	75 x 50	036674 059424
	3 x 2-1/2	75 x 65	036675 059425
	4 x 2	100 x 50	036676 059426
	4 x 3	100 x 75	036677 059427

Female Adapter		Soc x FPT	
	1/4	6	036209 059217
	3/8	9	036210 059218
	1/2	12	036211 059219
	3/4	20	036212 059220
	1	25	036213 059221
	1-1/4	32	036214 059222
	1-1/2	40	036215 059223
	2	50	036216 059224
	2-1/2	65	036217 059225
	3	75	036218 059226
	4	100	036219 059227
	6	150	036221 † -

Male Adapter		Soc x MPT	
	1/2	12	036420 059286
	3/4	20	036421 059287
	1	25	036422 059288
	1-1/4	32	036423 059289
	1-1/2	40	036424 059290
	2	50	036425 059291
	2-1/2	65	036426 059292
	3	75	036427 059293
	4	100	036428 059294
	6	150	036887 † -

†, † See page 75 for descriptions