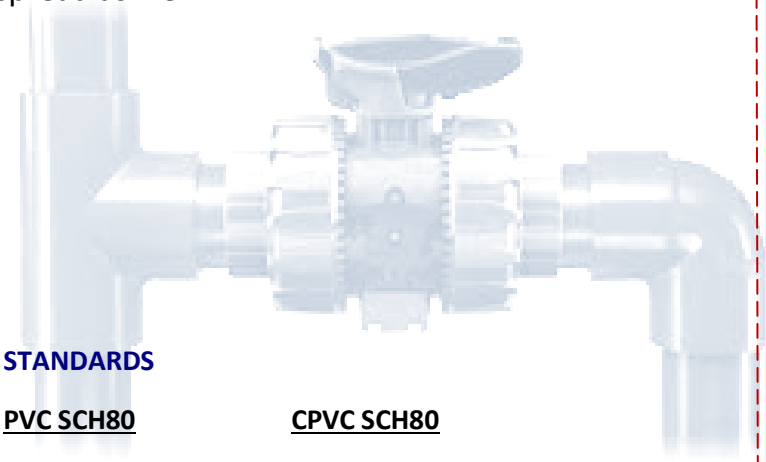
SPECIFICATIONS — PVC /CPVC SCH80 Pipe and Fitting

Our 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 photo degradation, 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.

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 wood chips.

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.



STANDARDS

PVC SCH80	CPVC SCH80
ASTM D1785	ASTM F441
CSA B137.3	CSA B137.3
NSF 14	NSF 14
	ULC-102.2

APPLICATION

- 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.

TYPE APPROVAL

SPECIFICATIONS — PVC SCH80 Pipe and Fitting

Pipe, Fitting and Flanges

Specification ASTM D1785

CSA B137.3

NSF 14

Grade SCH80

PVC SCH80 PRESSURE RATING

Sizes		IPEX schedule 40 PVC			IPEX 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

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 wood chips.

TYPE APPROVAL

SPECIFICATIONS — CPVC SCH80 Pipe and Fitting

Pipe, Fitting and Flanges

Specification ASTM F441

CSA B137.3

NSF 14

ULC-102.2

Grade SCH80

CPVC PRESSURE RATING

Sizes		IPEX schedule 40 CPVC			IPEX Schedule 80 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)
1/2	.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

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.

TYPE APPROVAL

SPECIFICATIONS — PVC/CPVC SCH80 Pipe and Fitting

PVC/CPVC SCH80 FITTINGS


PLAIN SOCKET


UNION COUPLING


EQUAL TEE


90DEG ELBOW


VANSTONE FLANGE

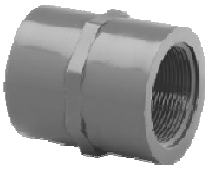

MALE SOCKET

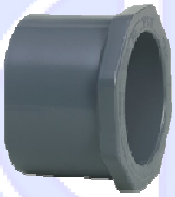

UNION COUPLING FPT


RED TEE


45DEG ELBOW


ONE PIECE FLANGE


FEMALE SOCKET


RED BUSH SPIG X SOC


TEE SOC X FPT


ELBOW SOC X FPT


BLIND FLANGE


SOCKET FPT X FPT


RED BUSH SPIG X FPT


Y TEE

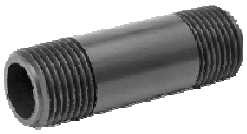

ELBOW FPT


HEX PLUG


RED SOCKET


RED BUSH MPT X FPT


CROSS TEE


NIPPLE PIPE


END CAP FPT


RED SOCKET FPT


TANK ADAPTOR


TEE FPT


HOSE NIPPLE


END CAP

SPECIFICATIONS — PVC/CPVC SCH80 Pipe and Fitting

PVC/CPVC SCH80 VALVES

BALL VALVE

LOCKABLE BALL VALVE

3 WAY BALL VALVE

FLANGED BALL VALVE

BALL CHECK VALVE

ANGLE CHECK VALVE

LEVER BUTTERFLY VALVE

GEAR OPR BUTTERFLY VALVE

Y STRAINER

LAB COCK

AIR RELEASE VALVE

WAFER CHECK VALVE

ELECTRIC ACTUATOR BALL VALVE

PNEUMATIC ACTUATOR BALL VALVE

ELECTRIC ACTUATOR BUTTERFLY VALVE

PNEUMATIC ACTUATOR BUTTERFLY VALVE