



# Submittal Information for Spears® Manufacturing Company PVC Schedule 80 Solid Wall Pipe & Fitting System

Date: \_\_\_\_\_

GSPVC80-0718

Job Name: \_\_\_\_\_ Location: \_\_\_\_\_

Engineer: \_\_\_\_\_ Contractor: \_\_\_\_\_

## Scope:

This submittal covers Spears® PVC Schedule 80 solid wall pipe and fittings intended for use in pressure applications where the application operating temperature does not exceed 140° F (63°C).

## Product Specification:

All Spears® PVC Schedule 80 fittings shall be manufactured in the U.S.A by Spears® Manufacturing Company from PVC Type I, with a minimum cell classification 12454 in accordance with ASTM Standard D1784. All injection molded PVC Schedule 80 fittings shall be certified for potable water service by NSF International manufactured in strict compliance to ASTM D2467. All fabricated fittings shall be produced in accordance with Spears® General Specifications for Fabricated Fittings (FAB-7). Spears® PVC Schedule 80 pipe and fittings shall be capable of withstanding a vacuum of twenty-six inches of mercury (Hg) at 73° F (23° C) when subjected to a one hour test with a leak factor of not more than one inch of Hg. All PVC flanges shall be designed and manufactured to meet CL150 bolt pattern per ANSI Standard B16.5 and rated for a maximum internal pressure of 150 psi, non-shock at 73°F unless otherwise noted.

All Spears® PVC Schedule 80 pipe shall be manufactured in the U.S.A by Spears® Manufacturing Company from a Type I, Grade I Polyvinyl Chloride (PVC) compound with a minimum cell classification of 12454 in accordance with ASTM D1784. The pipe shall be manufactured in strict compliance to ASTM D1785 consistently meeting and/or exceeding the quality assurance test requirements of these standards. All Spears® EverTUFF® pipe shall be manufactured in the USA and immediately wrapped for protection. The pipe shall be provided with plain ends in 20 foot cut lengths. All Spears® EverTUFF® pipe shall be certified by NSF International for potable water applications and marked accordingly.

## Product Marking

All Spears® pipe shall be marked PVC schedule 80 and shall be marked with NSF® Listing, ASTM Standard and applicable

pressure @ 73° F. (23°C). Spears® PVC Schedule 80 Fittings shall be engraved with markings required by ASTM Standard and bear an NSF® listing mark for potable water use.

## Installation:

Installation for Spears® PVC Schedule 80 systems shall comply with current installation instructions published by Spears® Manufacturing Company, established industry practices and all applicable code requirements. Buried pipe shall be in accordance with ASTM 2774 and ASTM F1668. The piping system shall be joined using a two-step solvent cement joining process with primer conforming to ASTM F656 and solvent cement conforming to ASTM D2564. The system shall be protected from ultra violet (UV) light exposure from the sun or other source and protected from any chemicals that are not compatible with the PVC materials including but not limited to fire stopping materials, plasticizers, incompatible thread sealants etc.

**NOTE:** PVC piping systems are suitable for oil-free air handling to 25 psi, not for distribution of compressed air or gas.

## Referenced Standards:

ASTM D1784 – Rigid Vinyl Compounds  
ASTM D1785 – PVC Schedule 40, 80 & 120 Pipe  
ASTM D2467 – PVC Schedule 80 Fittings  
ASTM D2564 – Solvent Cements for PVC Pipe & Fittings  
ASTM D2774 – Procedure for Buried Pressure Pipe  
ASTM F656 – Primers for PVC Pipe & Fittings  
ASTM F1668 – Procedures for Buried Plastic Pipe  
ASTM F1866 – Fabricated PVC DWV Fittings  
NSF International – Standard 14/61 Potable Water  
ANSI B16.5 - Pipe Flange Dimensions

## Approvals:

NSF® – NSF International Standard 14/61 Potable Water

## Features:

Lightweight  
Corrosion Resistant  
Long Service Life

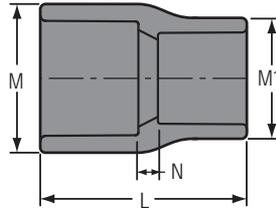


# PVC & CPVC SCHEDULE 80 FITTINGS, UNIONS, TANK ADAPTERS, EXPANSION JOINTS & SADDLES



## REDUCER COUPLING (continued)

Socket x Socket



Part Number		Size	L	M	M1	N	Approx. Wt. (Lbs.)	
PVC	CPVC						PVC	CPVC
829-338	829-338C	3x2	4	4-5/32	2-27/32	11/16	.68	.76
829-339	829-339C	3x2-1/2	3-27/32	4-3/16	3-1/2	3/16	1.26	.80
829-339F	829-339CF	3x2-1/2	6	4-1/16	3-7/16	1-3/4	.90	1.01
829-416 <sup>1</sup>	829-416C <sup>1</sup>	4x3/4	5-23/32	5-9/32	2-29/32	2-13/32	1.67	1.78
829-417 <sup>1</sup>	829-417C <sup>1</sup>	4x1	5-15/16	5-9/32	2-29/32	2-17/32	1.71	1.54
829-419 <sup>1</sup>	829-419C <sup>1</sup>	4x1-1/2	5-23/32	5-9/32	2-29/32	2-1/16	1.59	1.68
829-420	829-420C	4x2	5-1/2	5-9/32	2-7/8	1-25/32	1.45	1.50
829-421	829-421C	4x2-1/2	4-9/16	5-3/16	3-1/2	17/32	1.25	1.35
829-422	829-422C	4x3	4-5/8	5-1/4	4-1/8	1/2	1.25	1.33
829-460F	---	4-1/2x4	6-15/16	5-5/8	5-3/16	2-3/16	1.97	---
829-487F	---	5x2-1/2	8-1/8	6-1/4	5-3/16	3-5/8	2.64	---
829-488F	829-488CF	5x3	7-15/16	6-1/4	5-3/16	2-15/16	3.08	3.13
829-490F	829-490CF	5x4	7-3/4	6-1/4	5-3/16	2-1/2	2.09	2.53
829-491F	---	5x4-1/2	8-3/16	6-1/4	5-5/8	2-15/16	3.22	---
829-528 <sup>1</sup>	829-528C <sup>1</sup>	6x2	7-1/16	7-1/2	5	2-9/16	4.37	4.42
829-529 <sup>1</sup>	829-529C	6x2-1/2	6-31/32	7-19/32	5-9/32	2-3/16	4.30	4.72
829-530 <sup>1</sup>	829-530C <sup>1</sup>	6x3	7-1/8	7-9/16	5-9/32	2-1/4	4.07	4.25
829-530F	---	6x3	9-3/16	7-5/16	5-3/16	3-15/16	3.85	---
---	829-530CF	6x3	9-1/4	7-5/16	5-3/16	4-3/16	---	4.22
829-532	829-532C	6x4	6-5/8	7-5/8	5-5/16	1-7/16	3.28	3.45
829-533F	829-533CF	6x5	8-15/16	7-3/8	6-5/16	2-11/16	3.57	3.93
829-534F	---	6x4-1/2	9-5/16	7-5/16	5-5/8	3-9/16	3.22	---
829-579F	---	8x2-1/2	15	9-1/2	5-3/16	8-3/4	8.33	---
829-580F	---	8x3	14-15/16	9-1/2	5-3/16	8-11/16	7.95	---
---	829-580CF	8x3	15	9-1/2	5-3/16	8-7/8	---	8.74
829-582	829-582C	8x4	8-29/32	9-23/32	5-1/4	2-15/32	6.31	6.47
829-582F	829-582CF	8x4	14-5/8	9-1/2	5-3/16	8-1/8	8.17	9.36
829-583F	829-583CF	8x5	14-11/16	9-1/2	6-5/16	7-7/16	7.78	8.30
829-585	829-585C	8x6	8	9-3/4	7-1/2	1	6.16	6.48
829-621F	829-621CF	10x2	21-1/2	11-3/4	5-3/16	14-3/4	16.16	17.05
829-623F	829-623CF	10x3	21-7/16	11-3/4	5-3/16	14-3/16	15.77	17.18
---	829-623CF	10x3	21-1/2	11-3/4	5-3/16	14-7/16	---	20.10
829-624F	829-624CF	10x4	21-1/8	11-3/4	5-3/16	13-5/8	17.13	16.54
829-625F	829-625CF	10x5	21-3/16	11-3/4	6-5/16	12-15/16	16.38	16.94
829-626	829-626C	10x6	10-19/32	12-1/32	7-19/32	2-17/32	11.08	11.43
829-626F	---	10x6	17-1/2	11-3/4	7-1/2	9	14.72	---
---	829-626CF	10x6	17-5/8	11-3/4	7-1/2	9-1/8	---	15.00
829-628	829-628C	10x8	10-5/8	12	9-3/4	1-17/32	11.26	11.44
829-628F	---	10x8	13-1/4	11-3/4	9-5/8	3-3/4	11.42	---
---	829-628CF	10x8	13-3/8	11-3/4	9-5/8	3-7/8	---	12.00
829-664F	829-664CF	12x4	28-3/8	13-15/16	5-3/16	19-7/8	31.70	32.77
829-665F	829-665CF	12x5	28-7/16	13-15/16	6-5/16	19-3/16	27.25	33.24
829-666F	---	12x6	24-3/4	13-15/16	7-1/2	15-1/4	26.96	---
---	829-666CF	12x6	24-7/8	13-15/16	7-1/2	15-3/8	---	25.86
829-668	829-668C	12x8	12-5/8	14-7/32	9-3/4	2-7/16	17.92	19.26
829-668F	---	12x8	20-1/2	13-15/16	9-5/8	10	24.34	---

<sup>1</sup> Outlet sized with bushing