

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





Schedule 80 PVC Product

PVC Schedule 80 Fittings

Reducer Bushing

art Number	Size	Std	Mstr	Prod	
art Number	Size	Pk	Ctn	Code	

Reducer Bushing (T.T.) Flush Style (continued)

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839-250	2X1-1/4	10	60	080
839-251	2X1-1/2	10	60	080
839-292	2-1/2X2	10	80	080
839-337	3X1-1/2	10	0	080
839-338	3X2	10	0	080
839-339	3X2-1/2	10	0	080
839-420	4X2	6	0	080
839-422	4X3	6	0	080
839-532	6X4	5	0	080

Reducer Bushing - Special Reinforced

Mipt x SR Fipt - Stainless Steel Collar

1X1/4	25	150	086
1-1/2X1/2	25	300	086
1-1/2X3/4	25	300	086
2X1/2	10	60	086
2X3/4	10	60	086
2X1	10	120	086
4X2	6	0	086
	1-1/2X1/2 1-1/2X3/4 2X1/2 2X3/4 2X1	1-1/2X1/2 25 1-1/2X3/4 25 2X1/2 10 2X3/4 10 2X1 10	1-1/2X1/2 25 300 1-1/2X3/4 25 300 2X1/2 10 60 2X3/4 10 60 2X1 10 120

Caps

Cap

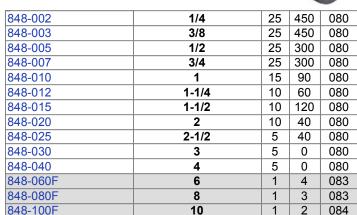


847-002	1/4	25	450	080
847-003	3/8	25	450	080
847-005	1/2	25	150	080
847-007	3/4	25	300	080
847-010	1	15	90	080
847-012	1-1/4	10	60	080
847-015	1-1/2	10	120	080
847-020	2	10	80	080
847-025	2-1/2	5	40	080
847-030	3	5	0	080
847-040	4	5	0	080
847-050F	5	1	6	083
847-060	6	4	0	080
847-080	8	3	0	080
847-100F	10	1	5	083
847-120F	12	1	4	083
847-140F	14	1	2	083
847-160F	16	1	2	083
847-180F	18	1	0	083
847-200F	20	1	0	083
847-240F	24	1	0	083

Part Number Size Std Mstr Prod Pk Ctn Code

Cap

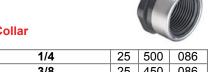
Fipt



Cap - Special Reinforced

848-120F





0

083

848-002SR	1/4	25	500	086
848-003SR	3/8	25	450	086
848-005SR	1/2	50	300	086
848-007SR	3/4	25	300	086
848-030SR	3	5	0	086

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Plugs

Plug

Spigot

849-005	1/2	50	300	080
849-007	3/4	50	300	080
849-010	1	50	200	080
849-012	1-1/4	25	100	080
849-015	1-1/2	10	120	080
849-020	2	10	120	080
849-025F ⁴	2-1/2	1	4	083
849-030F ⁴	3	1	4	083
849-040F ⁴	4	1	4	083
849-060F ⁴	6	1	6	083
849-080F ⁴	8	1	6	083
849-100F ⁴	10	1	2	083
849-120F ⁴	12	1	0	083
⁴ Plug fabricated using Cap and nine spigot				

⁴ Plug fabricated using Cap and pipe spigot.