

SUBMITTAL FOR CHARLOTTE PIPE® PVC SCHEDULE 80 PRESSURE PIPE AND FITTING SYSTEM

Date:		
Job Name:	Location:	
Engineer:	Contractor:	
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Scope:

This specification covers PVC Schedule 80 pipe and fittings for pressure applications. This system is intended for pressure applications where the operating temperature will not exceed 140° F.

Specification:

Pipe and fittings shall be manufactured from virgin rigid PVC (polyvinyl chloride) vinyl compounds with a cell class of 12454 as identified in ASTM D 1784.

PVC Schedule 80 pipe shall be Iron Pipe Size (IPS) conforming to ASTM D 1785. Injection molded PVC Schedule 80 fittings shall conform to ASTM D 2467. PVC Schedule 80 threaded fittings shall conform to ASTM D 2464. Pipe and fittings shall be manufactured as a system and be the product of one manufacturer. All pipe and fittings shall be manufactured in the United States. Pipe and fittings shall conform to NSF International Standard 61 and the health effects portion of NSF Standard 14.

Installation:

Installation shall comply with the latest installation instructions published by Charlotte Pipe and Foundry and shall conform to all applicable plumbing, fire, and building code requirements. Buried pipe shall be installed in accordance with ASTM F 1668 and ASTM D 2774. Solvent cement joints shall be made in a two-step process with a primer meeting ASTM F 656 and a medium- or heavy-bodied solvent cement conforming to ASTM D 2564. The system shall be protected from chemical agents, fire-stopping materials, thread sealant, plasticized-vinyl products or other aggressive chemical agents not compatible with PVC compounds. The system shall be hydrostatically tested after installation. **WARNING!** Never test with or transport/store compressed air or gas in PVC pipe or fittings. Doing so can result in explosive failures and cause severe injury or death.

Referenced Standards:

ASTM D 1784: Rigid Vinyl Compounds ASTM D 1785: PVC Plastic Pipe, Schedule 80

ASTM D 2464 or D 2467: PVC Threaded Fittings, Schedule 80

ASTM D 2467: PVC Socket Fittings, Schedule 80

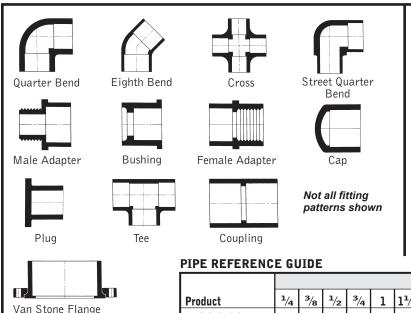
ASTM D 2564: Solvent Cements for PVC Pipe and Fittings

ASTM D 2774: Underground Installation of Thermoplastic Pressure Piping

Schedule 80

ASTM F 1668: Procedures for Buried Plastic Pipe

NSF Standard 14: Plastic Piping Components & Related Materials NSF Standard 61: Drinking Water System Components—Health Effects



Tapered Socket Dimensions PVC SCHEDULE 80 - ASTM D 2467 Schedule 80 and Schedule 40 Socket Diameter Schedule 80 Schedule 40 Tolerance Socket Length Socket Length C (Minimum) Size C (Minimum) 0.848 0.836 ±0.004 0.875 0.688 1.058 1.046 ±0.004 1.000 0.719 1.310 ±0.005 1.125 0.875 1.325 1.670 1.655 ±0.005 1.250 0.938 1.912 1.894 ±0.006 1.375 1.094 2.387 2.369 ±0.006 1.500 1.156 2.889 2.868 ±0.007 1.750 1.750 3.516 3.492 1.875 1.875 ±0.008 4.518 4.491 ±0.009 2.250 2.000 6 ±0.011 3.000 6.647 6.614 3.000 8.655 8.610 ±0.015 4.000 4.000 10.780 10.735 ±0.015 5.000 5.000 12.780 6.000 12.735 ±0.015 6.000

Charlotte Pipe and Foundry Company • P.O. Box 35430 Charlotte, NC 28235 • (800) 438-6091 • www.charlottepipe.com

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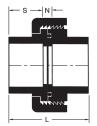


Union, with Viton® O-Ring Seal*

PVC PART NO. 8700

Union, with EPDM O-Ring Seal*

PVC PART NO. 8710



	Universel	Part Number				
Size	with Viton O-Ring Seal	with EPDM O-Ring Seal	L	N	s	Approx. Wt. (Lbs.)
1/2	857-005	897-005	21/8	5/16	²⁹ / ₃₂	0.18
3/4	857-007	897-007	27/16	7/16	1	0.26
1	857-010	897-010	25/8	3/8	1½	0.36
11/4	857-012	897-012	215/16	7/16	11/4	0.52
11/2	857-015	897-015	33/16	7/16	1 ³ / ₈	0.57
2	857-020	897-020	321/32	21/32	11/2	0.90
3	857-030	897-030	5½	1 ⁵ / ₁₆	1 ²⁹ / ₃₂	2.22

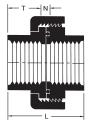
^{*} THE MAXIMUM WORKING PRESSURE IS 235 PSI AT 73°F.

Union, with Viton® O-Ring Seal*

PVC PART NO. 8800

Union, with EPDM O-Ring Seal*

PVC PART NO. 8810



	Universal	Part Number				
	with Viton	with EPDM				Approx.
Size	O-Ring Seal	O-Ring Seal	L	N	T	Wt. (Lbs.)
1/2	858-005	898-005	23/16	1/2	¹⁵ / ₁₆	0.19
3/4	858-007	898-007	213/32	9/16	1 ³ / ₃₂	0.27
1	858-010	898-010	25/8	9/16	1 ³ / ₃₂	0.40
11/4	858-012	898-012	231/32	23/32	11/4	0.58
11/2	858-015	898-015	31/8	23/32	111/32	0.67
2**	858-020	898-020	35/8	²⁷ / ₃₂	119/32	1.03
3 [†]	858-030	898-030	51/8	13/4	111/16	2.49

^{*} THE MAXIMUM WORKING PRESSURE IS 235 PSI AT 73°F.

^{**} THE MAXIMUM WORKING PRESSURE IS 200 PSI AT 73°F.

[†] THE MAXIMUM WORKING PRESSURE IS 185 PSI AT 73°F.