

SUBMITTAL FOR CHARLOTTE PIPE® **PVC SCHEDULE 40 PRESSURE PIPE AND FITTING SYSTEM**

Date: _____

Job Name:

Engineer:

Location:

Contractor:

Scope:

This specification covers PVC Schedule 40 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 40 pipe shall be Iron Pipe Size (IPS) conforming to ASTM D 1785. Injection molded PVC Schedule 40 fittings shall conform to ASTM D 2466. 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. Solvent cement joints shall be made in a two-step process with primer conforming to ASTM F 656 and 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 40 ASTM D 2466: PVC Plastic Fittings, Schedule 40 ASTM D 2564: Solvent Cements for PVC Pipe and Fittings

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

Æ			ſ	ſ	Schedule 40 Tapered Socket Dimensions PVC SCHEDULE 40 - ASTM D 2466																
Quarter Bend	Eighth Bend	Cross	oss Street Quarter				Nominal		Schedule 80 and Schedule 40 Se Entrance Bottom				ocket Diameter Tolerance		Schedule 80 Socket Length			dule 40 t Length			
· _	_	_		Bend	1				Size	4	A		B		statice		nimum)		nimum)		
								_	1/2	0.8	48	0.8	336	±0.	.004	0.8	375	0.6	88		
	-						1		3/4		58				±0.004		1.000		0.719		
								_	1	1.3			310	-	.005		25	0.8			
								_	11/4	1.6	-		655		.005		250	0.9			
Male Adapter	Bushing	Female Adapter		Сар				_	11/2	1.9			394	-	.006		375	1.0			
_								-	2	2.3			369	-	.006		500	1.1			
								-	2 ¹ /2	2.8			368 192	-	.007		7 <u>50</u> 375	1.7			
								-	4	4.5		4.4			.008		250	2.0			
								-	6	6.6			514		.003)00	3.0			
								_	8	8.6			510		015)00	4.0			
Plug	Tee	Coupling						-	10	10.7		10.7			015		000	5.0			
							· .	_	12	12.7		12.7		-	.015		000	6.0			
		PIPE REFE	RENCI	EGU	IDE																
Not all fitting										Sizes Available											
patterns shown		Dreduct		1/2	³ /4	1	11/	1½	2	2 ¹ /2	3			4	•	10	12	14	14		
		Product			/4	1	1/4	1 /2	2	4 /2	2	4	5	6	8	10	12	14	16		
		PVC Schedul	e 40	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		

Charlotte Pipe and Charlotte Pipe and Foundry Company are registered trademarks of Charlotte Pipe and Foundry Company. FO-SUB-PVC-40 (5-30-19)



Reducer Bushing, Flush Style SPG x S

PVC PART NO. 2107



Size	Universal Part Number	L	SPG	N	Approx. Wt. (Lbs)
³ / ₄ X ¹ / ₂	437-101	- 11/32	²⁵ /32	1/8	0.023
1 x ½	437-130	13/16	15/16	9/32	0.052
1 x ³ ⁄4	437-131	1 ³ /16	¹⁵ /16	³ /16	0.038
1 ¹ /4 X ³ /4	437-167	11/2	11/4	1/2	0.112
11⁄4 x 1	437-168	1%16	11/4	7/16	0.069
1½ X ½	437-209	1 ¹⁵ /16	15/32	²³ /32	0.112
1½ X ¾	437-210	11/2	1 ³ /16	1/2	0.118
1½ x 1	437-211	11/2	15/32	¹¹ / ₃₂	0.114
11/2 X 11/4	437-212	11/2	1 ³ /16	1/4	0.062
2 x ³ ⁄4	437-248	1 ¹⁹ /32	17/32	¹⁹ /32	0.164
2 x 1	437-249	15⁄/8	17/32	1/2	0.170
2 x 1¼	437-250	15⁄/8	1 ¹ /4	³ /8	0.205
2 x 1½	437-251	15⁄/8	17/32	¹⁵ /32	0.148
21/2 x 2	437-292	2 ⁵ /32	13⁄4	²⁵ / ₃₂	0.270
3 x 1	437-335	27/16	2	1 ¹⁷ /32	0.459
3 x 2	437-338	2 ⁹ /32	11//8	²⁹ /32	0.497
3 x 2 ¹ /2	437-339	2 ⁹ /32	11⁄/8	17/ ₃₂	0.420
4 x 2	437-420	2 ⁵ /16	21/16	¹⁵ /16	0.888
4 x 3	437-422	2 ¹¹ /32	21/16	³ /8	0.736
6 x 4	437-532	3 ³ /8	3	111/32	2.001
8 x 4	437-582	4 ¹¹ /16	4 ¹ /16	25⁄/8	3.712
8 x 6	437-585	4 ¹¹ /16	4 ¹ /16	15⁄/8	3.852