

PRODUCT SPECIFICATION

ASTM D1785/D2665 SCH. 40 PVC PRESSURE/DWV PIPE & ASTM D1785 SCH. 80 PVC PRESSURE PIPE | Solvent Weld

Our ASTM D1785 Solvent Weld PVC Pipe product line is manufactured to meet the needs of residential, commercial, & industrial plumbing systems, and other pressure applications. With top quality raw materials and modern processing technology, our ASTM D1785 pipe meets all industry standards in addition to our own rigorous quality control standards.

For sizes 1¼" and larger, our ASTM D1785 Schedule 40 pipe is also dual rated to ASTM D2665 for DWV applications. This gives the designer, installer, and end user the flexibility of one product for two distinct applications. Westlake Pipe & Fittings produces ASTM D1785 Solvent Weld pipe in both solid wall and various perforated styles.

SHORT FORM SPECIFICATION

Pipe Standard:	ASTM D1785 & ASTM D2665** Sch. 40	ASTM D1785 Sch. 80
Applications:	Water, DWV**	Water
Diameter Std.:	Iron Pipe Size (IPS)	
Nominal Sizes:	½", ¾", 1", 1¼", 1½", 2", 2½", 3", 4", 5", 6", 8", 10", 12", 14", 16", 18", 20", 24"	
Pressure Ratings:	See Next Page	
Length:	10' or 20'	
Color:	White	Gray
Pipe Compound:	ASTM D1784 Cell Class 12454	
Pipe Joint Std.:	ASTM D2672	
Pipe Options:	Solid Wall Plain End (M x M) Solid Wall Bell End (M x F) 2 Hole Perforated Bell End (M x F) 3 Hole Perforated Bell End (M x F)	
Gasket Standard:	ASTM F477	
Certifications:	NSF 14 & NSF 61 IAPMO Uniform Plumbing Code*	
Installation Std.:	ASTM D2774 & ASTM D2855	

*IAPMO Uniform Plumbing Code listed products must be requested at time of order.

**Sizes ½", ¾", 1" & 5" are not included in the ASTM D2665 DWV pipe standard.

NSF Only products bearing the NSF Mark are Certified



USE OF PVC PIPE IN EXHAUST SYSTEMS

WARNING: Failure to follow these instructions exactly could result in serious injury, death, or property damage.

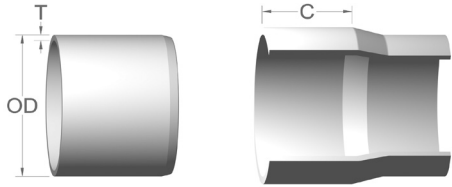
WARNING: Flue gas temperature should not exceed 140° Fahrenheit. PVC pipe exposed to temperatures higher than 140° Fahrenheit may melt or change shape, resulting in leakage of exhaust fumes and property damage.

WARNING CARBON MONOXIDE POISONING HAZARD: Vent pipe must be properly installed in accordance with all local and national plumbing and HVAC installation standards and codes.

Westlake Pipe & Fittings assumes no responsibility for equipment installed in violation of any code or regulation.

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Notes:

1. These dimensions are for estimating purposes only. All dimensions are in inches unless otherwise specified.
2. ASTM Pressure Rating @ 73°F and includes 2:1 safety factor.
3. Internal diameter calculated using nominal outside diameter and minimum wall thickness.

D1785 PIPE DIMENSIONS & PERFORMANCE

Nominal Size	Outside Diameter (OD)	Class	Pressure Rating (psi)	Min. Wall Thickness (T1)	Internal Diameter (ID)	Approx. Bell Diameter in. [mm]	Bell Depth (C)
1/2"	0.840	Sch. 40	600	0.109	0.622	1.086 [27.6]	1.750
		Sch. 80	850	0.147	0.546	1.162 [29.5]	
3/4"	1.050	Sch. 40	480	0.113	0.824	1.304 [33.1]	2.500
		Sch. 80	690	0.154	0.742	1.386 [35.2]	
1"	1.315	Sch. 40	450	0.133	1.049	1.611 [40.9]	2.500
		Sch. 80	630	0.179	0.957	1.704 [43.3]	
1 1/4"	1.660	Sch. 40	370	0.140	1.380	1.970 [50.0]	2.500
		Sch. 80	520	0.191	1.278	2.075 [52.7]	
1 1/2"	1.900	Sch. 40	330	0.145	1.610	2.222 [56.4]	2.500
		Sch. 80	470	0.200	1.500	2.336 [59.3]	
2"	2.375	Sch. 40	280	0.154	2.067	2.715 [69.0]	3.250
		Sch. 80	400	0.218	1.939	2.849 [72.4]	
2 1/2"	2.875	Sch. 40	300	0.203	2.469	3.319 [84.3]	3.500
		Sch. 80	420	0.276	2.323	3.474 [88.2]	
3"	3.500	Sch. 40	260	0.216	3.068	3.974 [100.9]	4.250
		Sch. 80	370	0.300	2.900	4.152 [105.5]	
4"	4.500	Sch. 40	220	0.237	4.026	5.020 [127.5]	5.500
		Sch. 80	320	0.337	3.826	5.232 [132.9]	
5"	5.563	Sch. 40	190	0.258	5.047	6.129 [155.7]	6.000
		Sch. 80	290	0.375	4.813	6.377 [162.0]	
6"	6.625	Sch. 40	180	0.280	6.065	7.241 [183.9]	7.000
		Sch. 80	280	0.432	5.761	7.563 [192.1]	
8"	8.625	Sch. 40	160	0.322	7.981	9.338 [237.2]	7.500
		Sch. 80	250	0.500	7.625	9.715 [246.8]	
10"	10.750	Sch. 40	140	0.365	10.020	11.555 [293.5]	8.500
		Sch. 80	230	0.593	9.564	12.038 [305.8]	
12"	12.750	Sch. 40	130	0.406	11.938	13.643 [346.5]	10.000
		Sch. 80	230	0.687	11.376	14.238 [361.6]	
14"	14.000	Sch. 40	130	0.437	13.126	14.962 [380.0]	10.000
		Sch. 80	220	0.750	12.500	15.625 [396.9]	
16"	16.000	Sch. 40	130	0.500	15.000	17.105 [434.5]	10.000
		Sch. 80	220	0.843	14.314	17.832 [452.9]	
18"	18.000	Sch. 40	130	0.562	16.876	19.246 [488.8]	12.000
20"	20.000	Sch. 40	120	0.593	18.814	21.322 [541.6]	12.000
24"	24.000	Sch. 40	120	0.687	22.626	25.531 [648.5]	12.000

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D1785 PIPE PERFORATION PATTERNS					
Nominal Size	Perforation Rows	Circumferential Hole Spacing	Longitudinal Hole Spacing (in)	Hole Diameter (in)	Inlet Area (in ² /ft pipe)
4"	2	120°	5.000	0.500	0.942
	3	60°-60°	5.000	0.500	1.414
6"	2	120°	5.000	0.500	0.942
	3	60°-60°	5.000	0.500	1.414
8"	2	120°	5.000	0.500	0.942
	3	60°-60°	5.000	0.500	1.414

