CHARLOTTE PIPE AND FOUNDRY COMPANY

DIMENSIONAL CATALOG

ChemDrain® with Corzan® CPVC Chemical Waste Drain System

(Updated August 1, 2023)

You can't beat the system.

© 2005-2023 Charlotte Pipe and Foundry Company ChemDrain is a registered trademark of Charlotte Pipe and Foundry Co.

Corzan is a registered trademark of Lubrizol Advanced Materials.

Shem

ChemDrain® with Corzan® CPVC Chemical Waste Drain System Dimensions

Corzan® CPVC is the only CPVC material delivering market leading quality, reliability and performance for the most demanding applications.



All products manufactured by Charlotte Pipe and Foundry Company are proudly made in the U.S.A.

Table of Contents

ChemDrain® with Corzan® CPVC Schedule 40 Pipe Dimensions
ChemDrain® with Corzan® CPVC Schedule 40

Page

•	
Warranty	19

Fitting Dimensions...... 5-18



Download our Tech Tools App for dimensional info, tech calculators and more on your mobile device.

This catalog accurately reflects dimensional information to the best of our knowledge. If the dimensions on your job are critical, please verify dimensional information with our factory.

This dimensional catalog accurately reflects our product line at the time the catalog was printed. However, we add items on an ongoing basis to better serve our customers. Please refer to our current list price sheets for an accurate listing of items offered.

Charlotte Pipe® products are manufactured to the applicable ASTM standard. Charlotte Pipe and Foundry cannot accept responsibility for the performance, dimensional accuracy, or compatibility of pipe, fittings, or couplings not manufactured or sold by Charlotte Pipe and Foundry.

Charlotte Pipe and ChemDrain are registered trademarks of Charlotte Pipe and Foundry Company. Corzan is a registered trademark of Lubrizol Advanced Materials.



ChemDrain® with Corzan® CPVC Pipe

ChemDrain is a registered trademark of Charlotte Pipe and Foundry Company. Corzan is a registered trademark of Lubrizol Advanced Materials.



ChemDrain® with Corzan® CPVC Schedule 40 Pipe, Type IV, Grade 1 ASTM F 2618

CPVC SCHEDULE 40 (LIGHT GRAY)			PLAIN END		CPVC 4120	
PART NO.	NOM. SIZE	UPC # 611942-	QTY. PER SKID	AVG. OD (IN.)	MIN. WALL (IN.)	WT. PER 100 FT. (LBS.)
AW 14015	1½" x 10'	10732	1650′	1.900	.145	55.3
AW 14002	2" x 10'	10733	1110′	2.375	.154	74.3
AW 14003	3" x 10'	10734	1130′	3.500	.216	154.2
AW 14004	4" x 10'	10735	670′	4.500	.237	219.6
AW 14006	6" x 10'	10736	330′	6.625	.280	386.1
AW 14008	8" x 10'	11363	140′	8.625	.322	581.1

NOTE: Full skids of pipe are polyethylene wrapped for cleanliness and UV protection.

NSF Listed. Meets All Requirements of ASTM F 2618.

A WARNING

Testing with or use of compressed air or gas in ABS / CPVC / PVC pipe or fittings can result in explosive failures and cause severe injury or death.

- AIR/GAS

 NEVER test with compressed air or general perfectings.

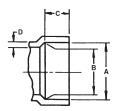
 NEVER test ARS / G
- se severe injury or death.
 NEVER test with or transport/store compressed air or gas in ABS / CPVC /
 - NEVER test ABS / CPVC / PVC pipe or fittings with compressed air or gas, or air over water boosters.
 - ONLY use ABS / CPVC / PVC pipe or fittings for water or approved chemicals.
 - Refer to warnings on PPFA's website and ASTM D 1785.

All products manufactured by Charlotte Pipe and Foundry Company are proudly made in the U.S.A.



ChemDrain® with Corzan® CPVC Fittings

Hub Dimensions



CPVC

		CI VC			
SIZE	A	В	С	D	
11/2	1.915	1.895	.687	.156	
2	2.390	2.370	.750	.156	
3	3.520	3.495	1.500	.218	
4	4.520	4.495	1.750	.250	
6	6.647	6.614	3.000	.281	
8	8.655	8.610	4.000	.322	



PART NO. AW 95C

Transition Coupling - ChemDrain CPVC to Steel, Cast Iron, Plain-end Glass or Any Other Schedule 40 or 80 IPS Size

Plastic or Metallic Pipe (300 Series Stainless Steel with

Fluoroelastomer Gasket)			
	SHIELD	NUMBER	
SIZE	WIDTH	OF CLAMPS	
11/2	2 1/8	2	
2	2 1/8	2	
3	2 1/8	2	
4	2 1/8	2	
6	3	4	
8	4	4	



PART NO. AW 96C

Transition Coupling - ChemDrain CPVC to Plain-end High-silicon Iron

(300 Series Stainless Steel with

Fluoroelastomer Gasket)			
	SHIELD	NUMBER	
SIZE	WIDTH	OF CLAMPS	
2	2 1/8	2	
3	2 1/8	2	
4	2 1/8	2	



PART NO. AW 1C

ChemDrain Low-VOC Solvent Cement





PART NO. AW 100C

Coupling нив x нив			
SIZE	A	В	
11/2	1/8	19/16	
2	¹⁵ / ₆₄	13/4	
3	3/16	33/16	
4	1/4	33/4	
6	1/4	61/4	
8	1/4	81/4	



PART NO. AW 101C

Female Adapter			
SIZE	A	В	
11/2	1/4	3/4	
2	1/4	7/8	
3	5/16	11/2	
4	11/32	13/4	
6	1/4	3	



PART NO. AW 102C

Pipe Increaser-Reducer Hub X Hub			
SIZE	A		
1½ x 2	17/32		
1½ x3	13/32		
2 x 3	7/8		
2 x 4	13/8		
3 x 4	¹⁵ / ₁₆		
3 x 6	2		
4 x 6	13/4		

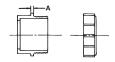




PART NO. AW 103PC

Trap Adapter - Male, with Washer & Polyethylene Nut

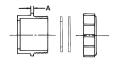
DWV SPIGULX TUBULAR SLIP			
	SIZE	A	
	11/2	3/16	



PART NO. AW 103RC

Trap Adapter-Male, with 1½" PVC Nut & Washer & 1½" x 1 ¼4" Washer

DWV SPIGOT X TUBULAR SLIP WITH AW CPVC NUT			
SIZE	Α		
11/2	3/16		



PART NO. AW 104RC

Trap Adapter-Female, with 11/2" PVC Nut & Washer & 11/2" x 11/4" Washer

DWV HUB X	DWV HUB X TUBULAR SLIP WITH AW CPVC NUT			
SIZE	A			
11/2	3/16			



PART NO. AW 105XC

Fitting Cleanout Adapter with Cleanout Plug (See AW 106C Dimensions)

SPIGOT X FPT			
SIZE	Α	В	
11/2	5/32	5/8	
2	5/32	5/8	
3	7/32	3/4	
4	1/4	7/8	
6	5/16	17/16	





PART NO. AW 106C

Cleanout Plug MPT			
SIZE	A	В	
11/2	13/8	5/8	
2	13/8	5/8	
3	13/4	3/4	
4	11//8	7/8	
6	2	1	



PART NO. AW 107C

Flush Bushing SPIGOT X HUB			
SIZE	A	С	
2 x 1½	11/16	⁵ ⁄ ₁₆	
3 x 1½	13/4	1	
3 x 2	13/4	7/8	
4 x 2	2	11//8	
4 x 3*	1 ⁵¹ / ₆₄	1/4	
6 x 3	313/32	157/64	
6 x 4	31/2	13/4	
8 x 4	45/8	27/8	•
8 x 6	49/16	15/8	•



PART NO. AW 109C

Male Adapter MPT X HUB

(Note: Not a trap adapter. Will

not accept a tail piece.)		
SIZE	Å	
11/2	³ / ₁₆	
2	³ / ₁₆	
3	3/8	
4	3/8	

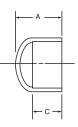


^{* 4} x 3 differs slightly in appearance



PART NO. AW 116C

Cap SOCKET			
SIZE	Α	С	
11/2	1 ¹⁵ / ₁₆	15/16	
2	2 5/32	13/8	
3	215/16	129/32	
4	31/8	21/32	



PART NO. AW 300C

1/4 Bend

(Sanitary 90° EII)			
SIZE	A		
11/2	13/4		
2	2 ⁵ / ₁₆		
3	31/16		
4	37//8		
6	5		
8	6		



PART NO. AW 302C

1/4 Bend, Street

(Sanitary 90° Street EII) SPIGOT X HUB				
SIZE	A	В		
11/2	13/4	21/2		
2	2 ⁵ / ₁₆	33/16		
3	31/16	49/16		
4	37/8	55/8		
6	53/16	81/8	·	





PART NO. AW 304C

Long Sweep	1/4	Bend
------------	-----	------

нивхнив			
SIZE	A		
11/2	23/4		
2	31/4		
3	41/16		
4	4 ¹⁵ / ₁₆		



PART NO. AW 321C

1/8 Rend

	(45° EII) HUB X HUB	
SIZE	A	
11/2	11/8	
2	11/2	
3	13/4	
4	23/16	
6	21/16	•
8	21/16	•



PART NO. AW 323C

1/8 Bend, Street

(45° Street EII) SPIGOT X HUB			
SIZE	A	В	
11/2	11//8	11//8	
2	11/2	23/8	
3	13/4	31/4	
4	23/16	315/16	
6	21/16	515/64	
8	2	63/32	





PART NO. AW 324C

	1/16 Bend (22 ¹ / ₂ ° EII) HUB X HUB	
SIZE	A	
11/2	1/2	
2	11/16	
3	¹³ / ₁₆	
4	1	



PART NO. AW 326C

1/16 Bend, Street

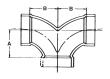
SPIGOT X HUB				
SIZE	Α	В		
11/2	1/2	11/4		
2	11/16	11/2		
3	13/16	25/16		
4	1	23/4		



PART NO. AW 327C

Double 1/4 Bend

ALL HUB				
SIZE	Α	В		
11/2	13/4	13/4		
2	25/16	25/16		
3	31/16	31/16		





PART NO. AW 400C

Sanitary Tee ALL HÜB					
SIZE	A	В			
11/2	13/4	23/4			
2	25/16	311/16			
3	31/16	47/8			
4	37/8	61/8			
6	5	81/2			
8	6	101/2			



PART NO. AW 401C

Sanitaru Tee, Reducing

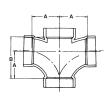
ALL HUB					
SIZE	Α	В	С		
2 x 1½ x 1½	23/16	31/8	115/16		
2 x 1½ x 2	25/16	311/16	25/16		
2 x 2 x 1½	23/16	31/8	115/16		
3 x 3 x 1½	29/16	211/16	13/4		
3 x 3 x 2	27/8	35/16	21/8		
4 x 4 x 2	35/16	33/16	21/16		
4 x 4 x 3	39/16	43/4	3		
6 x 6 x 4	427/32	63/64	3 ²⁵ / ₃₂		



PART NO. AW 428C

Double Sanitary Tee

(Sanitary Cross) ALL HUB					
SIZE	Α	В			
11/2	13/4	23/4			
2	2 ⁵ / ₁₆	311/16			
3	31/16	47/8			
4	37/8	61/8			

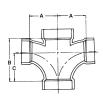




PART NO. AW 429C

Double Sanitary Tee, Reducing (Sanitary Cross)

	ALL HUB		
SIZE	Α	В	С
2 x 2 x 1½ x 1½	23/16	31/8	115/16
3 x 3 x 2 x 2	27/8	3 5⁄16	21/8



PART NO. AW 444XC

Cleanout Tee with Cleanout Plug

HUB X HUB X FPT				
SIZE	Α	В	С	
11/2	1 ¹⁵ / ₁₆	23/8	13/16	
2	21/4	3	11/2	
3	211/16	37/8	115/16	
4	33/8	51/8	29/16	
6	4	8	4	



Cleanout Plug

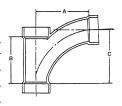
	MPT			
SIZE	A	В		
11/2	13/8	5/8		
2	13/8	5/8		
3	13/4	3/4		
4	1%	7/8		
6	2	1		



PART NO. AW 501C

Combination Wye and 1/8 Bend

(Une Piece) ALL HUB					
SIZE	Α	В	С		
11/2	35/16	31/2	315/16		
2	51/8	47/16	51/8		
3	7%16	61/2	7%16		
4	10	81/2	10		

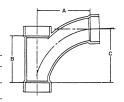




PART NO. AW 502C

Combination Wye and 1/8 Bend, Reducing

ALL HUB				
SIZE	Α	В	С	
2 x 2 x 1½	43/16	31/2	315/16	
$3 \times 3 \times 1\frac{1}{2}$	43/4	31/2	315/16	
3 x 3 x 2	511/16	47/16	51/8	
4 x 4 x 2	61/8	41/2	51//8	
4 x 4 x 3	81/16	61/2	7%16	

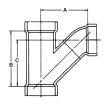


PART NO. AW 503C

Combination Wye and 1/8 Bend

ALL HUB				
SIZE	Α	В	С	
6**	1115/32	105/32	11%4	
8**	1419/32	141/32	14 ²³ / ₃₂	

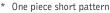
^{**}Two pieces



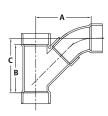
PART NO. AW 504C

Combination Wye and 1/8 Bend, Reducing

ALL HUB				
Α	В	С		
93/8	75/64	719/32		
815/16	85/8	713/16		
	A 9 ³ / ₈	A B 93/8 75/64	A B C 93/8 75/64 719/32	



^{**}Two pieces

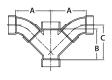




PART NO. AW 507C

Double Combination Wue and 1/8 Bend

	ALL HUB	•	
SIZE	Α	В	С
2†	517/64	53/8	$4^{27}/_{64}$
2x2x1½x1½†	45/32	47/32	$3^{61}/_{64}$
3†	61/4	75/8	65/16
3x3x2x2†	65/64	55/32	511/64
4†	913/32	83/16	95/32
4x4x2x2†	75/16	5	6
4x4x3x3†	819/64	69/16	719/32



† Three pieces.

PART NO. AW 600C

	Wye (45° Wy ALL HU	e) B		
SIZE	Α	В	С	
11/2	4	11/8	27/8	
2	5	13/8	35/8	
3	65/8	15/8	5	
4	81/4	11//8	63/8	
6	103/16	13/4	87/16	
8	141/8	23/8	113/4	



PART NO. AW 601C

Wye, Reducing (45° Wye)

	(45° Wy ALL HU			
SIZE	A	В	С	
2 x 2 x 1½	41/2	1	37/16	
$3 \times 3 \times 1\frac{1}{2}$	41/4	1/2	45/16	
3 x 3 x 2	5	7/8	45/8	
4 x 4 x 2	51/16	3/8	5%16	
4 x 4 x 3	65/8	11/16	6	
6 x 6 x 4	67/8	³ / ₁₆	71/2	
8 x 8 x 4	10 ½	1	11%16	
8 x 8 x 6	10½	1	913/16	

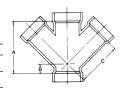




PART NO. AW 611C

Double Wye (Double 45° Wye)

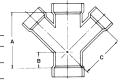
	ALL HU	В		
SIZE	A	В	С	
11/2	4	11/8	27/8	
2	5	13/8	35/8	
3	65/8	15/8	5	
4	81/4	11//8	63/8	
6	103/16	13/4	87/16	



PART NO. AW 612C

Double Wye, Reducing (Double 45° Wye)

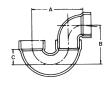
	ALL H	JB		
SIZE	Α	В	С	
2 x 2 x 1½ x 1½	43/8	11/16	37/16	
3 x 3 x 2 x 2	5	7/8	45/8	
4 x 4 x 3 x 3	65/8	11/16	6	



PART NO. AW 706XC

P-Tran with Solvent Weld Joint

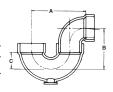
ap w	HUBXH		2 001111	
SIZE	Α	В	С	
11/2	45/8	315/16	13/4	
2	613/16	47/8	23/8	
3	815/16	615/16	31/16	
4	111/16	87/16	311/16	



PART NO. AW 707XC

P-Trap with Cleanout, Solvent Weld Joint

	HUB X F	HUB		
SIZE	Α	В	С	
11/2	45/8	315/16	13/4	

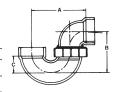




PART NO. AW 708PC

P-Trap with Union

HUB	X HUB WITH	PLASTIC NI	JT	
SIZE	A	В	С	
11/2	45/8	315/16	13/4	
2	613/16	47/8	23/8	

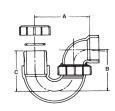


PART NO. AW 711PC

L.A. Pattern P-Trap with Union SLIPX HUB WITH PLASTIC NUTS

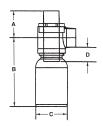
SIZE	A	В	С	
11/2	45/8	315/16	33/4	

§Nut is sized to fit tubular sink tailpieces.



PART NO. AW 712C

	Jar Tr SLIP X H	ap IUB		
SIZE	A	В	С	D
11/2	31/8	81/4	37/8	2

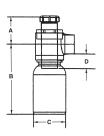


PART NO. AW 712PC

Jar Trap with Tail Piece Adaptor

 SLII	P X HUB WITH P	LASTIC NU	Π§	
SIZE	Α	В	С	D
11/2	35/16	85/32	31/8	2

§ Nut is sized to fit tubular sink tailpieces.



В

PART NO. AW 1512PC

CPVC Tail Piece with Nut‡ [May be cut to length]

Supplied with a Fluoroelastomer Gasket

11/ 10		
1½ X 12	12	11/2

[‡] Tubular O.D.

LIMITED WARRANTY

Charlotte Pipe and Foundry Company® (Charlotte Pipe®) Products are warranted to be free from manufacturing defects and to conform to currently applicable ASTM standards for a period of five (5) years from date of delivery. Buyer's remedy for breach of this warranty is limited to replacement of, or credit for, the defective product. This warranty excludes any expense for removal or reinstallation of any product and any other incidental, consequential, or punitive damages. This limited warranty is the only warranty made by seller and is expressly in lieu of all other warranties, express and implied, including any warranties of merchantability and fitness for a particular purpose. No statement, conduct or description by Charlotte Pipe or its representative, in addition to or beyond this Limited Warranty, shall constitute a warranty. This Limited Warranty may only be modified in writing signed by an officer of Charlotte Pipe.

This Limited Warranty will not apply if:

- The Products are used for purposes other than their intended purpose as defined by local plumbing and building codes, and the applicable ASTM standard.
- The Products are not installed in good and workmanlike manner consistent with normal industry standards; installed in compliance with the latest instructions published by Charlotte Pipe and good plumbing practices; and installed in conformance with all applicable plumbing, fire and building code requirements.
- 3) This limited warranty does not apply when the products of Charlotte Pipe are used with the products of other manufacturers that do not meet the applicable ASTM or CISPI standards or that are not marked in a manner to indicate the entity that manufactured them.
- 4) In hubless cast iron installations, this warranty will not apply if products are joined with unshielded hubless couplings. Charlotte Pipe requires that its hubless cast iron pipe and fittings be joined only with shielded hubless couplings manufactured in accordance with CISPI 310, ASTM C 1277 and certified by NSF® International or with Heavy Duty Couplings meeting ASTM C 1540.
- 5) The Products fail due to defects or deficiencies in design, engineering, or installation of the piping system of which they are a part.
- 6) The Products have been the subject of modification; misuse; misapplication; improper maintenance or repair; damage caused by the fault or negligence of anyone other than Charlotte Pipe; or any other act or event beyond the control of Charlotte Pipe.
- The Products fail due to the freezing of water in the Products.
- 8) The Products fail due to contact with chemical agents, fire stopping materials, thread sealant, plasticized vinyl products, or other aggressive chemical agents that are not compatible.
- 9) Pipe outlets, sound attenuation systems or other devices are permanently attached to the surface of Charlotte® PVC, ABS or CPVC products with solvent cement or adhesive glue.

Charlotte Pipe products are manufactured to the applicable ASTM or CISPI standard. Charlotte Pipe and Foundry **cannot** accept responsibility for the performance, dimensional accuracy, or compatibility of pipe, fittings, gaskets, or couplings not manufactured or sold by Charlotte Pipe and Foundry.

This Limited Warranty will not apply unless written notice of a claim is mailed to Charlotte Pipe at the address below within 30 days of discovery of the allegedly defective product.

Any Charlotte Pipe products alleged to be defective **must** be made available to Charlotte Pipe at the following address for verification, inspection and determination of cause:

Charlotte Pipe and Foundry Company Attention: Technical Services 2109 Randolph Road Charlotte, North Carolina 28207

Purchaser must obtain a return materials authorization and instructions for return shipment to Charlotte Pipe of any product claimed defective or shipped in error.

Any Charlotte Pipe product **proved** to be defective in manufacture will be replaced F.O.B. point of original delivery, or credit will be issued, at the discretion of Charlotte Pipe.

5/19/23

Charlotte and Charlotte Pipe are registered trademarks of Charlotte Pipe and Foundry Company.

CHARLOTTE PIPE AND FOUNDRY COMPANY

P0 B0X 35430

CHARLOTTE

NORTH CAROLINA 28235

PHONE (704) 348-6450

(800) 438-6091

FAX (800) 553-1605

WWW.CHARLOTTEPIPE.COM

