



TECHNICAL DATA

VIKING BLAZEMASTER® CPVC
Pipe and Fittings for Aspirating
Smoke Detection Systems

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The technical data described herein is for Viking Blazemaster® CPVC ASD Pipe and Fittings

Visit the Viking Integrated Safety website for the latest edition of the technical data and installation manuals.

1. DESCRIPTION

Aspirating smoke detection (ASD) systems are dependent on a network of specialty piping that continuously carries air samples from protected zones to highly sensitive detectors. Viking manufactures, fabricates, and distributes ASD piping and fittings to strict specifications, with product reliability being our hallmark.

With Viking, you are assured of high quality in every link of the supply chain. We partner with BlazeMaster®, the proven leader in chlorinated polyvinyl chloride (CPVC) compound technology, to design and manufacture products that meet the requirements of the industry's most demanding testing and standards agencies, including UL, FM, ASTM, NSF, ANSI, and the Plastic Pipe Institute.

Viking CPVC pipes are prelabeled in accordance with NFPA 72 Requirements.

2. LISTINGS AND APPROVALS



3. TECHNICAL DATA

Viking ASD CPVC pipe is ideally suited for air sampling applications. It's light-weight, easy to handle and assemble, has excellent physical properties, and offers exceptional fire performance. The pipe is produced in standard dimensional ratio (SDR) 13.5 dimensions. The pipe is produced to the specifications of ASTM F442. Fittings are produced to ASTM F437, F438, or F439 specifications depending on the system size and configuration.











Property	Viking CPVC	ASTM
Cell Classification	23477	D 1784
Specific Gravity	1.53	D 792
Tensile Strength	> 8,400 psi	D 638
Modulus of Elasticity	4.23 x 10 ⁵	D 638
Compressive Strength	9600 psi	D 695
Izod Impact	3.0	D 256A
Coefficient of Linear Exp.	3.4 x 10 ⁻⁵	D 696
Temperature Range	25° – 150° F	—
Electrical Conductivity	No	—

4. PHYSICAL PROPERTIES

Nominal Pipe Size		Actual Outside Diameter		Avg. Inside Diameter		*Weight per Length		Length	
Inch	DN	Inch	mm	Inch	mm	Lb.	Kg.	Feet	M
¾ (0.75)	DN20	1.050	26,670	0.874	22,199	1.68	0,76	10	3.05
¾ (0.75)	DN20	1.050	26,670	0.874	22,199	2.52	1,14	15	4.6

5. ORDERING INFORMATION

Viking CPVC pipe and fittings can be ordered with Part Numbers below. **There is no minimum quantity**, allowing you to eliminate waist. Note: pipes are ordered by bag, each off which contains 16 pieces.

Part	Part #	Description	Part	Part #	Description
	25676-10	<ul style="list-style-type: none"> • ¾ in. (DN20) Pipe • Length = 10 ft. 		V5006-007	<ul style="list-style-type: none"> • ¾ in. 45° Elbow • DN20
	25676	<ul style="list-style-type: none"> • ¾ in. (DN20) Pipe • Length = 15 ft. 			
	V5001-007	<ul style="list-style-type: none"> • ¾ in. Coupling • DN20 		V5007-007	<ul style="list-style-type: none"> • ¾ in. 90° Elbow • DN20
	V5017-007	<ul style="list-style-type: none"> • ¾ in. Cap • DN20 		V5011-007	<ul style="list-style-type: none"> • ¾ in. Tee • DN20
	VS5033E-007	¾ in. Standard Union		V5012SBI-101	<ul style="list-style-type: none"> • ¾ x ¾ x ½ in. Tee for Capillary Tube • DN20 x DN20 x DN15
	V5003SBI-101	¾ x ½ in. FNPT Straight Adapter for Test Point		V5097P	Cement (Pint)
				V5097Q	Cement (Quart)
				V5096	Brush, Quantity
				V5093-S	¾ in. Dauber

6. NOTICES

- All Viking CPVC pipe & fittings are from Viking Plastics, a division of The Viking Corporation, and are manufactured in the USA. All CPVC pipe shall be packaged immediately after its manufacture to prevent damage and shall be stored indoors after production, at the manufacturing site, until shipped from the factory. The pipe shall bear the logo of the respective listing agencies.
- Viking CPVC pipe and fittings are fully compatible with the respective manufacturer's ASD system design software. It's important that all ASD manufacturer system design specifications are followed, including, but not limited to, sampling hole diameter, capillary tube attachment, hole spacing, pipe length, and support bracket placement.
- Blazemaster® is a registered trademark of Lubrizol Advanced Materials, Inc., and used with permission.