

## 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.

Viking partners 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.

**NOTE: 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 <sup>5</sup>	D 638
Compressive Strength	9600 psi	D 695
Izod Impact	3.0	D 256A
Coefficient of Linear Exp.	3.4 x 10 <sup>-5</sup>	D 696
Temperature Range	25° – 150° F	—
Electrical Conductivity	No	—

#### 4. PIPE 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 waista. Note: pipes are ordered by bag, each off which contains 16 pieces.

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

#### 6. IMPORTANT INSTRUCTIONS

##### NOTICE

Viking CPVC products can be permanently damaged if not stored properly.

- Products shall be packaged immediately after manufacture.
- Products shall be stored indoors and in the original packaging until leaving the manufacturing facility.
- Follow the ASD manufacturer's system design specifications including but not limited to sampling hole diameter, capillary tube attachment, hole spacing, pipe length, and support bracket placement.

##### NOTES:

*All Viking CPVC pipe and fittings are manufactured in the USA by Viking Plastics LLC, a division of The Viking Corporation and are fully compatible with the respective manufacturer's ADS system design software. The pipe is marked with the respective listing or approval agency logo(s).*

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