



VICTORY FIRE & GAS INC.

Distributed by
 www.Ameraproducts.com
 Phone: (800) 608-6568
 Fax: (409) 840-3343
 info@ameraproducts.com

MODEL **AVD 6L**
 STANDARDS COMPLIED **ANSI/UL8**

6L AVD BATTERY FIRE EXTINGUISHER

EFFECTIVE LITHIUM BATTERY FIRE PROTECTION

Address the burning issues surrounding lithium-ion battery fires.

Specifically designed for lithium-ion battery fires, AVD delivers superior performance to extinguish flames and minimize damage.

AVD is a pioneering fire extinguishing agent that is Specifically designed to tackle the particular threat posed by lithium battery fires. It is the only agent that contains, cools and extinguishes lithium battery fires. Discover a new, revolutionary fire extinguishing agent for Lithium-ion battery fires with AVD.

FEATURES

- Effectively Extinguishes Class A fires
- Non-flammable properties inhibit reignition
- Effective use as a firebreak to prevent propagation
- Proven results on Lithium-ion battery fires
- Environmentally friendly/reach compliant
- Stainless steel cylinder/brass valve with stainless handles
- 100% Helium leak tested
- Production under ISO9001 Quality System
- AVD agent has local & global certification



TECHNICAL SPECIFICATION

Model Number	AVD6L
Capacity (Liters)	6L
Cylinder Diameter (in/mm)	7.16 (182)
Height (in/mm)	19.30 (490)
Width (in/mm)	9.65 (245)
Discharge Time(s)	72
Fire Rating	1-A
Extinguisher Weight (lb/kg)	25.42 (11.53)
Packing Size (LxWxH) (in/mm)	7.48 x 7.48 x 19.88 (190 x 190 x 505)
Working Pressure (psi/bar)	195 (13.44)
Discharge Range (ft/m)	10-12 (3-3.6)
Operation Temperature (F/C)	+40-120 (4-49)
UL List File Number	EX29073
Marine Type	/
USCG Approval Number	/

* Transport Classification: Non-Flammable, Non-Toxic GasUN No. 1044 Class 2.2



VICTORY FIRE AVD EXTINGUISHERS

Victory fire AVD extinguishers to help suppress and prevent propagation of Lithium battery fires.

Ideal for use in the home, office, manufacturing, recycling, and other locations where lithium battery technologies are prominent.

HOW TO SELECT

Workshops and service centers

Manufacturing Facilities
Battery recycling facilities
Waste Recycling facilities

Home, office and public transportation

Mobile phone & laptop repair stores

Are you prepared for a lithium-ion battery fire?

Under 100 Wh

100-200 Wh

100-250 Wh

200-500 Wh

500-1000 Wh

Over 1 kW

E-mobility products, E-scooters, E-bikes and Segways within manufacturing, rental/sales, service and charging in the home and office

Larger battery requirements such as vehicle charging including fork lifts and lifting equipment in manufacturing facilities, and EV for car rental facilities, parking garages and road side charging

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Victory Fire & Gas

CAUTION

The AVD2L is not approved to a UL fire extinguisher standard and should only be installed where the state or local jurisdiction permits installation of unlisted equipment. Local regulations restrict the sale of this product as a fire extinguisher in California, Nevada, and New York. Always check local regulations before installing this device. The device is suitable for small class A and small Lithium battery fires and should when permitted be treated as additional equipment rather than primary firefighting equipment.

Victory recommends that the service and maintenance of the AVD 2L follows similar practices as larger units.

HOW TO USE



Persons expected to use this fire extinguisher should be trained in initiating its operation and in the proper firefighting technique. Familiarize all personnel with this information before an emergency occurs. Failure to stand back at a sufficient distance from front edge of the fire or use of an inadequate sweeping technique of the agent stream could splash and / or scatter burning materials.

1. Remove the extinguisher from its hanger or bracket.
2. Pull and remove the ring (safety) pin, breaking the visual tamper seal.
3. Using the extinguisher carrying handle, transport the unit to a safe position upwind of the fire.
4. Remove the nozzle from the retainer and while keeping the extinguisher in a vertical position, aim the nozzle at the base of the fire.
5. Approach fire from upwind, minimum of 8 feet of the front edge of the fire.
6. Starting back from this distance, squeeze the operating lever fully to initiate the agent discharge.
7. Apply the AVD agent discharge in a gentle sweeping manner, being careful not to scatter the fuel. Operators can advance closer as control of the fire is gained; however, they should avoid stepping into the fuel or fire area.
8. When the fire is out, standby if practical, until the burning media has cooled to ensure extinguishment.
9. Evacuate and ventilate the area immediately after extinguishing the fire. The fumes and smoke from any fire may be hazardous and can be deadly.
10. Ensure the burning media is properly removed and disposed of in accordance with any local handling requirement.

REMEMBER STEPS
P.A.S.S.

PULL AIM SQUEEZE SWEEP

HOW TO SERVICE

AVD EXTINGUISHERS SHOULD ONLY BE SERVICED BY COMPETENT PROFESSIONALS IN ACCORDANCE WITH VICTORY FIRE AND GAS SERVICE MANUAL AND NFPA 10

KEY POINTS

AVD is a highly refined, aqueous, mineral dispersion and hence its quality will be spoilt by:

1. Soluble salts, including those naturally present in mains water, will destabilize the dispersion causing the mineral particles to flocculate even if not visually obvious.
2. Allowing the water to evaporate, for example by leaving the lid off the container, may lead to dry film forming; this will potentially lead to blocked extinguisher filter / nozzles preventing discharge of the AVD agent.
3. Contamination, especially large particles, from dirty equipment or holding vessels may cause blockage of the filters preventing discharge of the AVD agent.
4. Contamination could lead to microbial growth including under anaerobic conditions.

FOR CLEANING AND TRANSFERRING

1. Only use demineralized water (deionized or distilled) water for cleaning valves, siphon tubes, hose assemblies or flushing cylinders.
2. Ensure all equipment is spotlessly clean.
3. Store AVD in its delivery container with lid on until required for refilling extinguishers.

HANDLING AVD

All equipment, including pumps and transfer lines should be spotlessly clean; it is advisable to have dedicated equipment for handling AVD. Cleaning should be with demineralized water only and, if possible, thoroughly dried. As an absolute minimum the transfer lines should be flushed with AVD, and the cleaning charge discarded.

1. Visually inspect the AVD for settling, thickening, microbial growth, etc.
2. Agitate the AVD, for example with an air lance to ensure homogeneity.
3. Ideally check viscosity is within specification.
4. Use only spotlessly clean transfer lines and vessels.

REFILLING AVD

1. Empty AVD into a clean holding container and flush the extinguisher with demineralized water, emptying the contents into same container.
2. Thoroughly clean and dry the extinguisher body paying particular attention to the points above.
3. Perform extinguisher maintenance.
4. Charge the extinguisher with correct amount of AVD just prior to reassembly.
5. Pressurize only with nitrogen. Do not use carbon dioxide.

POST SERVICE AVD

1. Recycling of AVD for use in extinguishers is not recommended.
2. Dispose of used AVD in line with local and federal regulations.



LIMITED WARRANTY

Victory warrants its fire extinguishers ("Products") to be free from defects in material and workmanship for a period of six (6) years from the date of manufacture. Victory's responsibility for defects in material or workmanship are limited to repair or replacement of the products for the original retail purchaser ("Consumer") only. This limited warranty does not cover defects resulting from modification, abuse, accident, alteration, misuse, exposure to corrosive conditions, or improper installation or maintenance. No warranty is provided for products or components that have been subject to normal wear and tear; misuse, improper installation, incompatible chemicals/materials, corrosion; that have not been used for their intended purpose; or that have not been installed, maintained, modified, or repaired in accordance with applicable standards of the National Fire Protection Association and/or the standards of any other authorities having Jurisdiction. Materials found by seller to be defective shall be either repaired or replaced, at seller's sole option. Seller neither assumes, nor authorizes any person to assume for it, any other obligation in connection with the sale of products or parts of products. Seller shall not be responsible for system design errors, or inaccurate or incomplete information supplied by buyer or buyer's representatives. This limited warranty sets forth the exclusive remedy for claims based on failure of or defect in products, materials, or components, whether the claim is made in contract, tort, strict liability, or any other legal theory. This warranty will apply to the full extent permitted by law. The invalidity, in whole or part, of any portion of this warranty will not affect the remainder. Victory is not responsible for the installation or the maintenance of the products.

Defective products for which a valid claim has been made shall be returned to Victory's facility for repair or replacement (or to other repair facilities pursuant to Victory's prior written authorization), and transportation costs to such locations shall be paid by consumer.

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AVD EXTINGUISHER LIMITED WARRANTY

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