



Amerex Defense

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Dry Chemical Extinguishers for Vehicle Fire Suppression Systems

Commercial dry chemical fire suppression systems have been protecting commercial over-the-road and off-road vehicle as well as military vehicles since 1991. These systems consist of pressurized agent tanks discharging dry chemical through a network of nozzles targeting the protected area. Dry chemicals have been proven to be some of the most effective firefighting agents available today.

Amerex Defense uses Field Proven Purple K Dry Chemical, a specially fluidized and siliconized potassium bicarbonate which is particularly effective on Class B flammable liquids and pressurized gases. It is electrically non-conductive and has been the choice of oil, gas, chemical and utilities industries as the preferred firefighting agent. Recently a series of smaller dry chemical extinguishers have been added to the product family, exclusively for Amerex Defense Market applications. These smaller extinguishers reduce system weight while providing the same firefighting performance as the larger systems in the specific target area.

Main Features

- Stored Pressure Design
- Dependable Steel Cylinders
- Green & Red Pressure Gauge
- Durable Polyester Powder Paint
- CARC Cylinders Available
- Lightweight Anodized Aluminum Valves*
- Heavy Duty Brass Valves available*
- High Performance Anodized Aluminum Nozzles
- Wide-Cone Pattern Brass Nozzles Available
- Electrical System Actuation
- Pneumatic Manual Actuation
- Combination Actuation available
- Pressure Monitoring Switches available
- All Circuitry Supervised
- Flexible or Rigid Piping Installations
- Tested for Demanding Military and Industrial use
MIL-STD-810G/7905H



*Valve material & coating based on extinguisher type

Example of a Simple Distribution Network



Flexible hose distribution network shown.
Network can be flexible hose, rigid tube
or a combination of both.



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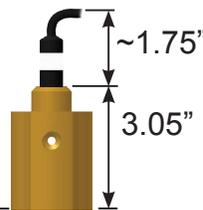
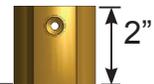
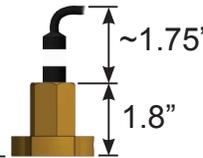
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Figure A



Figure B



The 14032 Electric Control Head accepts a Linear Actuator connected to an Electric Actuation Circuit. The number of actuators that can be triggered together varies based on the system controller.

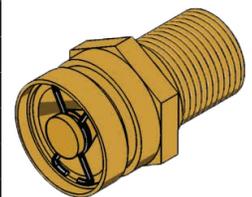
The 12302 Pneumatic Control Head connects to a Pneumatic Actuation Network which is charged manually using a mounted palm button and actuator cartridge. This Pneumatic Actuation Network can be used to trigger several Control Heads simultaneously without power.

The 17068 Electric/Pneumatic Control Head connects up to 4 extinguishers in a single network using both Actuation methods. Use of this dual control head is required in certain applications.

Extinguisher Dimensions										
Extinguisher Model	Part # w/No Pressure Switch	Part # w/ Pressure Switch	Figure Type	L	Ø (in)	Discharge Outlets	Nozzles	13980 nozzles	Bracket PN	
V1.7	-	21937	A	12.93	3	2	2	20857	22055	
V2	-	20716		10.88		1	TBD	21988	21898	
V3	-	-					TBD	21988	21898	
V5	-	21939		14.8	4.25	2	6	20857	22054	
V6	-	22729				1X1/4"	2	20868	21235	
VH6**	-	21358				1X1/4"	2	20868	21235	
V10	14607	-	B	15.91	6	1X3/4"	2	10250	22343	
V13	11346	21426		15.5	7	1X3/4"	2	10250	12156	
VH13**	-	22051		15.33	7	1X3/4"	2	10250	-	
V25	10981	-		17.85	9	1X3/4"	4	10250	10180	
VH25**	12318	21425		18.25	9	1X3/4"	4	10250	11338	
V30	-	-		21.32	9	1X3/4"	5	10250	22685	
VH30**	-	23914		21.82	9	1X3/4"	5	10250	23259	
V50	-	15653		31.12	9	1X3/4"	4, 6 or 8x	10250	8	10181
VS50	-	16980		16.12	14	1X3/4"	8x	10250	8	16974



20857 Nozzle (Female JIC)



10250 Nozzle (Male NPT)

** 'H' Denotes Horizontal Mount Design