REV Oct 2020

AMEREX KITCHEN PROTECTION

PARTS BOOK &

COMPONENT OVERVIEW

(P/N 27428)

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AMEREX KITCHEN PROTECTION

Index

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System Overview and Coverage Kits

MRM / PRM Mechanical System Overview 1
STRIKE™ Electronic System Overview 2
STRIKE™ Electronic System With SRM Overview 3
Amerex KP Coverage Options 4
Zone Defense Coverage Kits 5
Appliance Specific Coverage Kits 6

Agent Cylinder Components

Agent Cylinder - KP275 7
Agent Cylinder - KP375 8
Agent Cylinder - KP475 9
KP 275/375/475 Discharge Valve 10
KP 275/375/475 Cylinder Bracket 11
KP 275/375/475 Cylinder Cover 12
KP 275/375/475 Cylinder Enclosure 13
Swivel Adapter 14
Agent Cylinder - KP600 15
KP600 Discharge Valve 16
KP600 Cylinder Bracket 17
KP600 Pneumatic Actuator 18
Liquid Agent Recharge 19

Actuation Components

Mechanical Release Module 20
MRM Parts List 21
Gas Trip Assembly 22
Pneumatic Release Module 23
PRM Parts List 24
PRM Low Pressure Module 25
PRM Detection Tubing 26

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Actuation Components Continued

PRM End of Line Fitting 27
PRM and LHD Tubing Support Clip 28
Copper Actuation Tubing and Cable 29
Actuation Check Valve 30
Nitrogen Actuation Cylinders 31
Microswitch 32
Alarm-Initiating Microswitch 33
Actuation Hose 34
Additional Actuation Hoses 35
Flexible Discharge Hose 36
KP Discharge Nozzle 37
Nozzle Swivel Adapter 38
Nozzle Caps 39

Detection Components

Fusible Links 40
Job Links 41
Test Links 42
Fusible / Job Link Detector Bracket 43
Cable Terminal End 44
Lanyard Carabiner Detection System 45
Eyebolt 46
Manual Pull Station 47
Corner Pulley - Amerex 48
Corner Pulley - Brooks CP5 49
Pulley Tee 50
Conduit Offset 51

STRIKE™ Detection and Actuation

STRIKE™ Control Panel 52

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STRIKE™ Detection and Actuation Continued

KP 275/375/475 Electric Control Head 53
KP600 Electric Control Head 54
STRIKE™ Releasing Module (SRM) 55
STRIKE™ Releasing Module (SRM), OEM 56
Linear Heat Detection 57
Spot Detection 58
STRIKE™ Leads 59
STRIKE™ Leads Continued 60
STRIKE™ Manual Pull Stations 61
STRIKE™ Extensions 62
STRIKE™ Relay Modules 63
End of Line Resistor (EOL) 64
Alarm Module 65
LHD / Pull Station Circuit Test Switch 66
PC Interface Cable 67
Battery 68

Additional Components and Tools

MRM Enclosure 69
Single Tank / MRM Enclosure 70
Quick Seal Adapters 71
Compression Seal Adapters 72
LHD Bulkhead Quick-Seal 73
Quick Seal Compression Fitting 74
Quick Seal Corner Pulley Adapter 75
Quick Seal Hole Plug and Seal 76
Mechanical Gas Shut-Off Valve 77
Electric Gas Shut-Off Valve 78
Manual Reset Relay 79

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Additional Components and Tools Continued

MRM Reset Tools 80
KP 275/375/475 Adapters 81
KP600 Adapters 82
KP600 Discharge Fitting Adapter 83
Nitrogen Cylinder Recharge Adapters 84
Actuation Network Adapter 85
Vent Plug 86
120 VAC Horn & Strobe 87
Grease Tight Kitchen Fasteners 88
KP/IS Spare Parts Kit 89
KP/IS Spare Parts Kit with PRM Parts 90

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Android

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If accessed online, this booklet utilizes hyperlinks. Every part in the Index is linked and the Amerex logo located at the bottom left returns to Page I of the Index.

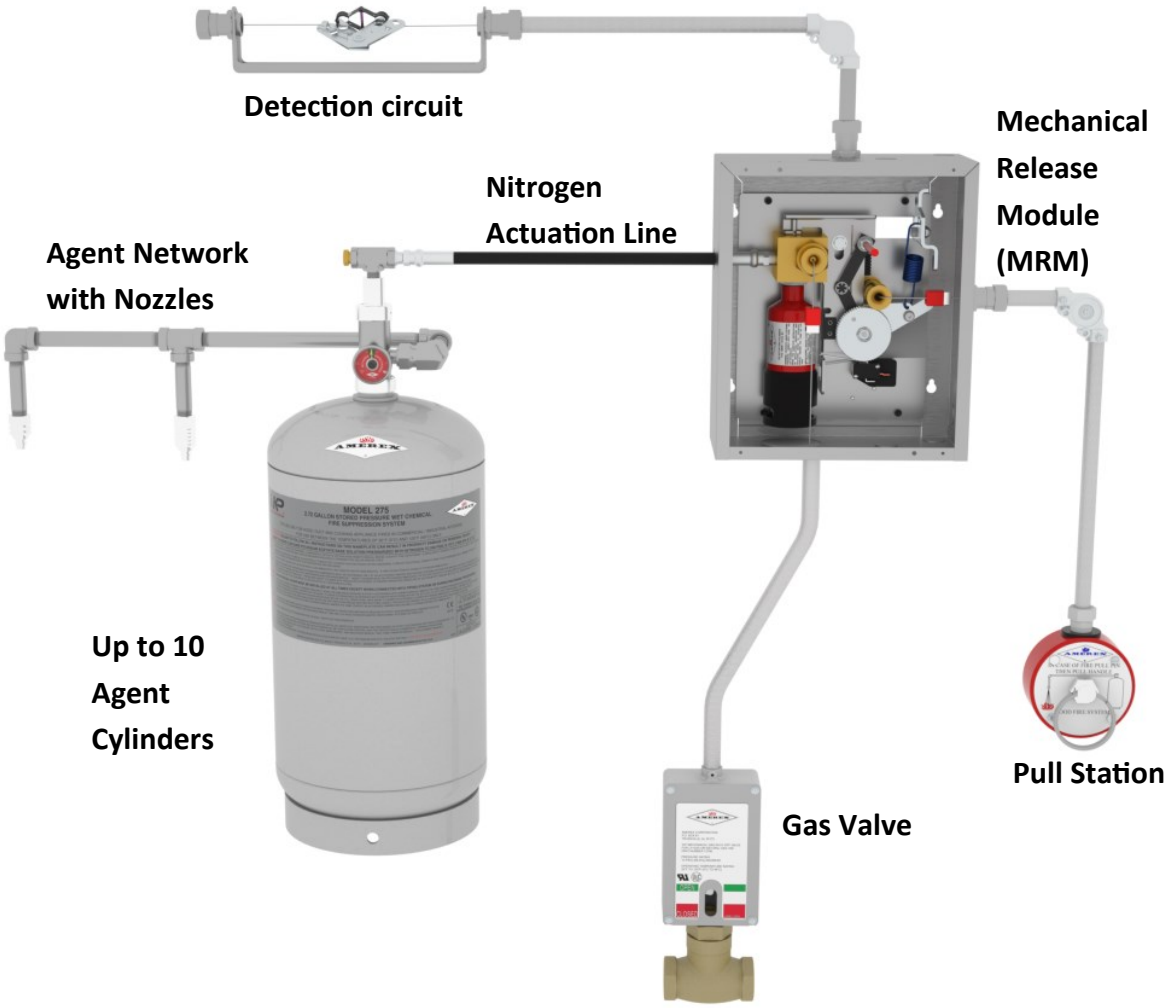
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MRM/PRM MECHANICAL SYSTEM OVERVIEW



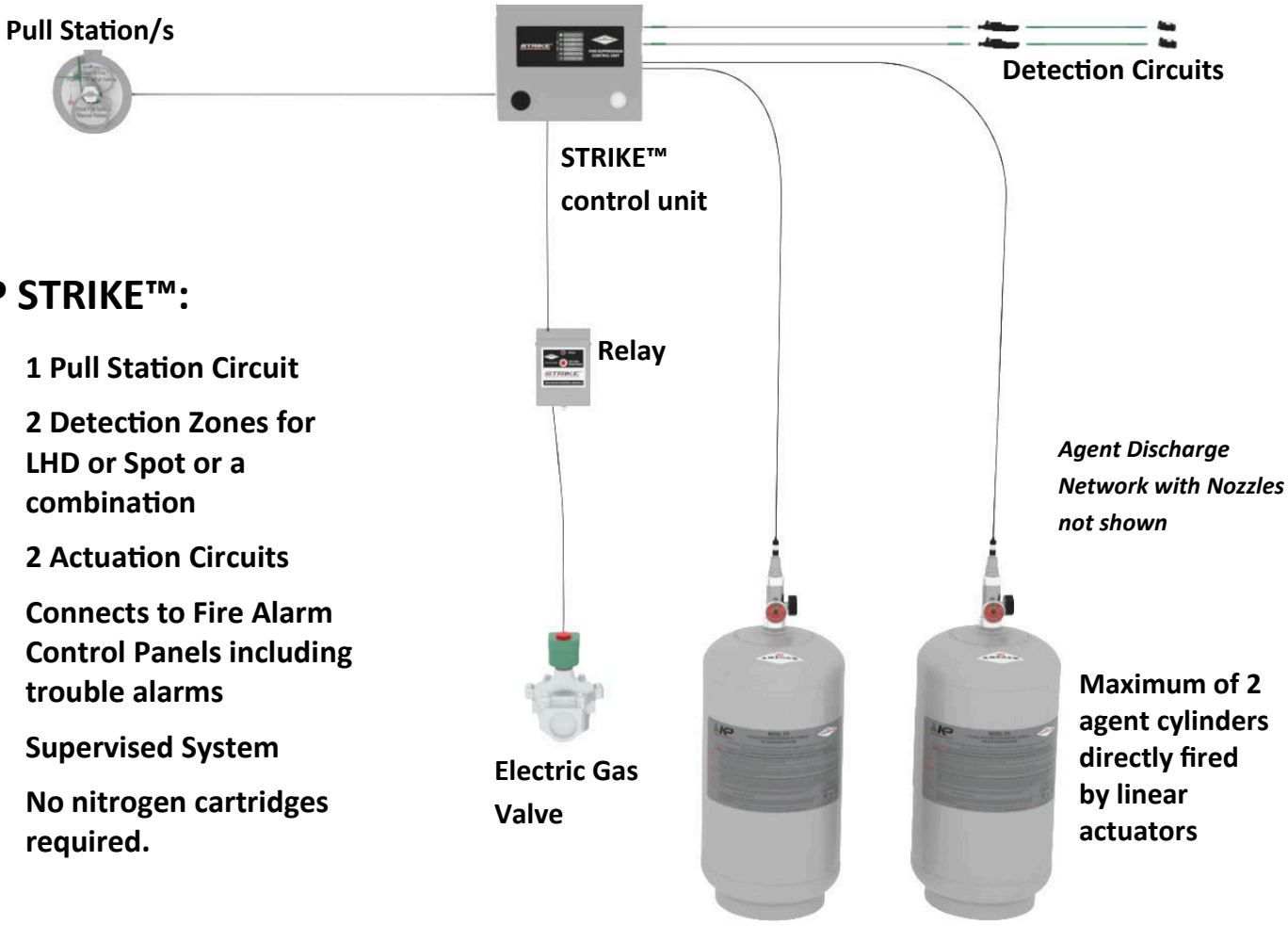
MRM and PRM systems utilize link based detection or pressurized tubing to detect a fire. Both detection types then mechanically release a puncture pin into a pressurized nitrogen cylinder. The pressure in this cylinder then travels through the actuation line and opens the valves on the top of the pressurized agent tanks. The KP agent then travels through the agent network and out the nozzles to suppress the fire. The system can be similarly fired by means of pulling a manual pull station. Both MRM and PRM systems can manually connect to gas valves and utilize microswitches to trip electrical appliances or trigger alarms in fire alarm control panels.

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STRIKE™ ELECTRONIC SYSTEM OVERVIEW



KP STRIKE™:

- 1 Pull Station Circuit
- 2 Detection Zones for LHD or Spot or a combination
- 2 Actuation Circuits
- Connects to Fire Alarm Control Panels including trouble alarms
- Supervised System
- No nitrogen cartridges required.

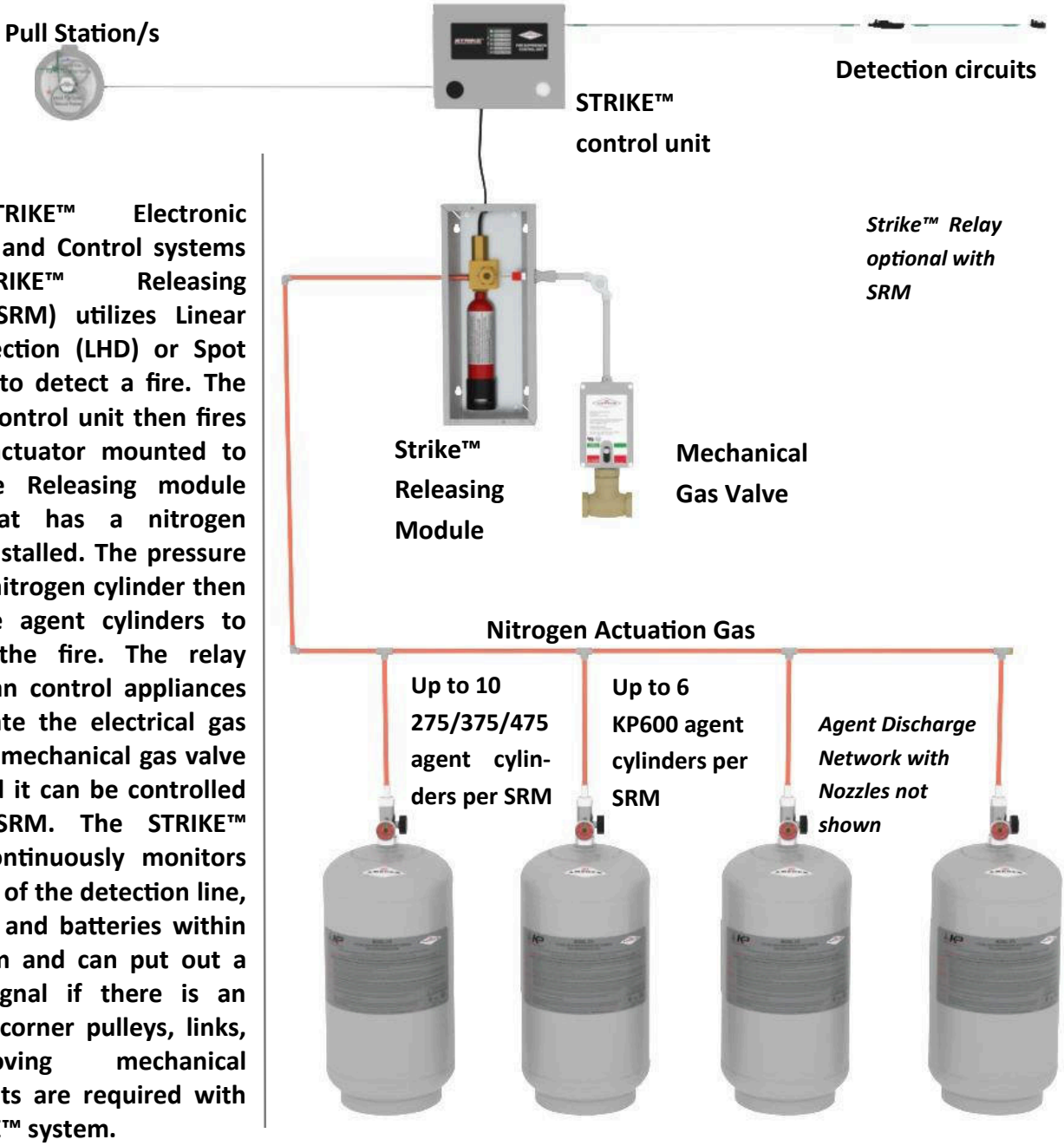
The STRIKE™ Electronic Actuation and Control systems utilizes Linear Heat Detection (LHD) or Spot detectors to detect a fire. The STRIKE™ control unit then fires a linear actuator that is mounted on top of a pressurized agent cylinder directly opening the valve to release agent in the cylinders to nozzles, suppressing the fire. The relay module can control appliances and operate the electrical gas valve. The STRIKE™ system continuously monitors the health of the detection line, actuators, and batteries within the system and can put out a trouble signal if there is an issue. It can also interface with a Fire Alarm Control Panel to give both alarm and trouble signals. No corner pulleys, links, or moving mechanical components are required with the STRIKE™ system.

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STRIKE™ ELECTRONIC SYSTEM OVERVIEW WITH STRIKE RELEASING MODULE (SRM)



The STRIKE™ Electronic Actuation and Control systems with STRIKE™ Releasing Module (SRM) utilizes Linear Heat Detection (LHD) or Spot detectors to detect a fire. The STRIKE™ control unit then fires a linear actuator mounted to the Strike Releasing module (SRM) that has a nitrogen cylinder installed. The pressure from the nitrogen cylinder then opens the agent cylinders to put out the fire. The relay module can control appliances and operate the electrical gas valve. If a mechanical gas valve is required it can be controlled by the SRM. The STRIKE™ system continuously monitors the health of the detection line, actuators, and batteries within the system and can put out a trouble signal if there is an issue. No corner pulleys, links, or moving mechanical components are required with the STRIKE™ system.

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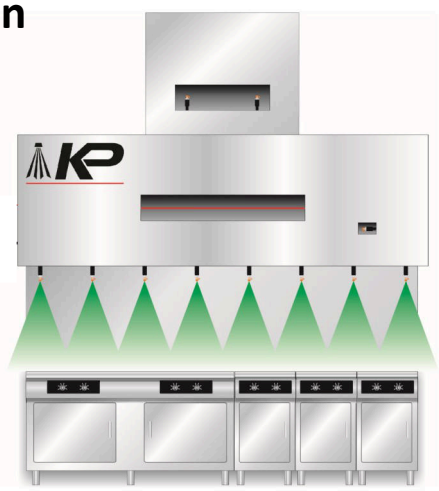
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AMEREX KP COVERAGE KITS

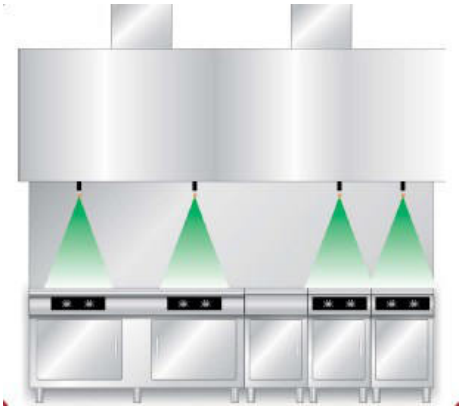
Amerex provides two coverage options for Kitchen Protection, Appliance specific and Zone Defense. Both coverage options utilize the same UL tested and certified tank and nozzle network and can work with any of our three detection and control options.

Zone Defense - Simple Future Proof Fire Protection



The Amerex KP Zone Defense Solution is the easiest and most effective way to design protection for your kitchen. Coverage Zones for the hazard areas can be set up over any appliance lineup and within those hazard zones appliances can be moved or exchanged without the need for piping reconfiguration like traditional Appliance Specific systems. An entire hood or just portions of a hood (Split Zone) can be covered by Zone Defense coverage. Additional flow points can be used for hazards like salamander broilers that require internal nozzle placement which are not covered by Zone Defense configurations. Unlike other manufacturers systems, no connection to the domestic water supply or building sprinkler system are needed. The ZD Coverage Zone is 34" (863mm) deep centered over the appliances with nozzles spaced every 20"(508mm) apart and 6" (152mm)from the edges.

Appliance Specific Coverage



The Amerex KP Appliance Specific Solution is often the most economical way to cover a kitchen lineup that rarely changes. Each appliance has dedicated detectors and nozzles to protect it. If these appliances are moved the detectors and nozzles must also be moved. Appliance Specific coverage can work extremely well for restaurant chains that have a consistent and repeatable appliance setups. Portions of a hood can be covered with Zone while other portions utilize Appliance Specific Coverage. The details of the appliance coverages are detailed in our UL Listed manual. In addition there are many other manufacturer recommended coverage letters that Amerex issues for appliance specific coverages that provide coverage recommendations for appliances that are not in the UL test protocol.

For Specifications and Drawings visit us at: https://www.amerex-fire.com/products/amerex-restaurant-systems/

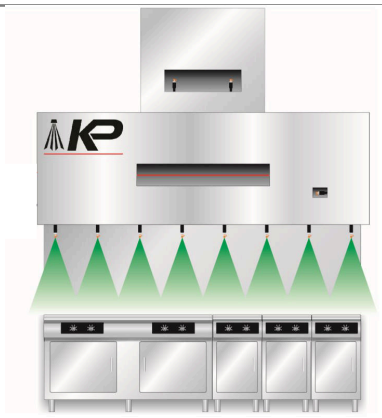
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ZONE DEFENSE COVERAGE KITS

P/N: K0100, K0102, K0103, K0104



Bundle and save with our Zone Defense Coverage Kits. The area protected is 34" deep with the first nozzle being 6" from the end of the zone, with each additional nozzle covering 20". Nozzles should be located between 46-51" above the appliance. The asterisk on parts below indicates duct coverage. A single 16416 or 11983 nozzle can cover ducts up to 50 perimeter inches. Two 11983 nozzles together can cover up to 100 perimeter inches.

Gas Valves sold separately (p. 76) or interface with an electric gas valve.

		ZD-6'	ZD-9.25'	ZD-12.5'	ZD-20'	ZD-30'
P/N	**Description**	**KP375**	**KP475**	**2 x KP375**	**3 x KP375**	**4 x KP375**
		K0100	K0101	K0102	K0103	K1004
16920	Bracket Mount for KP (275 375 475)	1	1	2	3	4
13334	KP Agent Cylinder 375 (11FP)	1	0	2	3	4
17379	KP Agent Cylinder 475 (11FP)	0	1	0	0	0
14178	Nozzle - Zone Defense - 2 Flow Points	4	6	8	13	19
16416*	Nozzle - Duct - 1 Flow Point	1	1	0	0	3
11982	Nozzle - Appliance / Plenum - 1 Flow Point	1	1	2	2	3
11983*	Nozzle 1.5 flow duct	0	0	2	2	0
12276	Quick Seal - 3/8" Pipe (number of ZD nozzles + 2)	6	8	10	15	21
22279	Quick Seal Corner Pulley Adapter - Fits CP5	1	1	1	1	1
12508-P001	Detector (includes bracket, linkage, and conduit	3	5	7	10	15
12328	Fusible Link - 360 degree F. ("K")	3	5	7	10	15
18001	MRM with enclosure (stainless)	1	1	1	1	1
10173	Vent Check	1	1	1	1	1
12856	Cylinder, Nitrogen - 10 in^3	1	1	1	1	1
12854	Actuation Hose (N2-1/4" x 16")	1	1	2	3	4
16444	Corner Pulley - CP5 Brooks Style	10	10	12	12	12
21481	Manual Pull Station (surface or flush)	1	1	1	1	1
11998-P100	100' of Stainless Steel Cable	1	1	1	1	1
	Spare FP (for appliances not covered by ZD)	1	0	1	2	0

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APPLIANCE SPECIFIC COVERAGE KITS

P/N: 16921-KIT/13334-KIT/17379-KIT



Bundle and save with our Appliance Specific Kit. This kit includes the basic components needed to fully utilize an Agent Cylinder. The kits utilize our innovative Lanyard Detection System. The kits are designed to be used to protect a single hood ranging from 4-16 feet in length. Applying the Lanyard Detection System with the Mechanical Release Module allows for ease of ordering and installation. Gas Valve sold separately (p. 76)

		Kit Part Numbers		
P/N	**Description**	**16921-KIT**	**13334-KIT**	**17379-KIT**
16921	KP Agent Cylinder 275	1	0	0
13334	KP Agent Cylinder 375	0	1	0
17379	KP Agent Cylinder 475	0	0	1
16920	Bracket Mount for KP (275 375 475)	1	1	1
18001	MRM with SS Enclosure	1	1	1
12328	Fusible Link 360 °F	3	5	7
17515	Termination Kit Fusible Link SS	1	1	1
17354	Cable Segment 24” Link-to-Link	2	4	6
19155	Cable Segment 12” Link-to-Link	-	-	1
12856	Nitrogen Cylinder - 10 in^3	1	1	1
10173	Vent Check	1	1	1
21481	Manual Pull Station (surface or flush)	1	1	1
12276	Quick Seal - 3/8” Pipe	2	2	2
12512	Quick Seal 1/2” Compression EMT	1	1	1
14204	Quick Seal 1/2” Pipe	-	-	1
13729	Nozzle - Fryer Griddle - 2 flow points	2	3	4
11982	Nozzle - Appliance / Plenum - 1 flow point	4	5	6
16416	Nozzle - Duct - 1 flow point	2	2	2
14178	Nozzle - 4 Burner Range Griddle - 2 flow points	1	2	2
16448	32” Actuation Hose	1	1	1
17520	Eyebolt Support	2	2	4
	Designed Hood Length	4’-7’	8’-12’	13’-16’

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AGENT CYLINDER - KP275





Model 275	U.S.	METRIC
Height	23 5/8 in	60 cm
Diameter	9 in	22.9 cm
Weight Full	55 1/4 lbs.	25.06 kg
Capacity	2.75 gal	10.41 L
Flow Points	8	8

P/N: 16921

Amerex KP Model 275 Agent Cylinder Assemblies have 2.75 gallon agent capacity and are shipped factory filled with Amerex KP Wet Chemical Agent. The cylinders are pressurized with dry nitrogen or argon gas to a pressure of 240 psi (1655 kPa) at 70 °F (20 °C). This gas is the expellant gas which discharges the wet chemical agent through the distributor network. One cylinder is capable of supplying agent to 8 flow points.

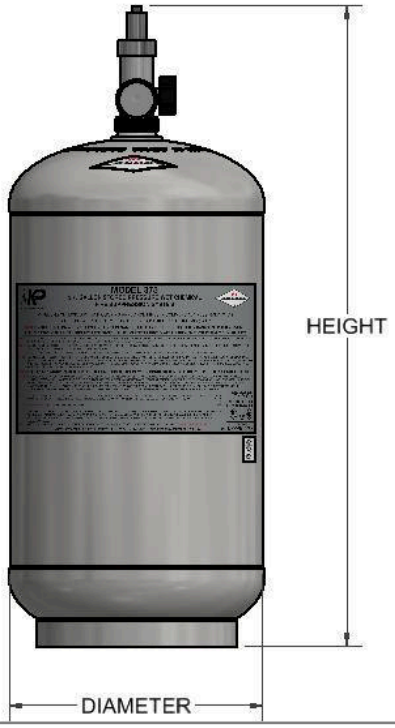
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AGENT CYLINDER - KP375





Model 375	U.S.	METRIC
Height	24 13/16 in	63.02 cm
Diameter	10 in	25.4 cm
Weight Full	64 1/2 lbs.	29.25 kg
Capacity	3.75 gal	14.2 L
Flow Points	11	11
Two Cyl. Flow Points	22	22

P/N: 13334

Amerex KP Model 375 Agent Cylinder Assemblies have 3.75 gallon agent capacity and are shipped factory filled with Amerex KP Wet Chemical Agent. The cylinders are pressurized with dry nitrogen or argon gas to a pressure of 240 psi (1655 kPa) at 70 °F (20 °C). This gas is the expellant gas which discharges the wet chemical agent through the distributor network. One cylinder is capable of supplying agent to 11 flow points and two can supply a combined 22 flow points when manifolded.

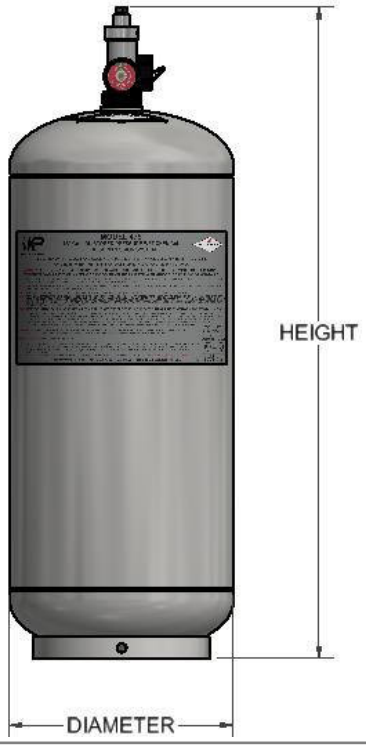
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AGENT CYLINDER - KP475





Model 475	U.S.	METRIC
Height	29 13/16 in	75.7 cm
Diameter	10 in	25.4 cm
Weight Full	78 lbs.	35.4 kg
Capacity	4.80 gal	18.17 L
Flow Points	14	14

P/N: 17379

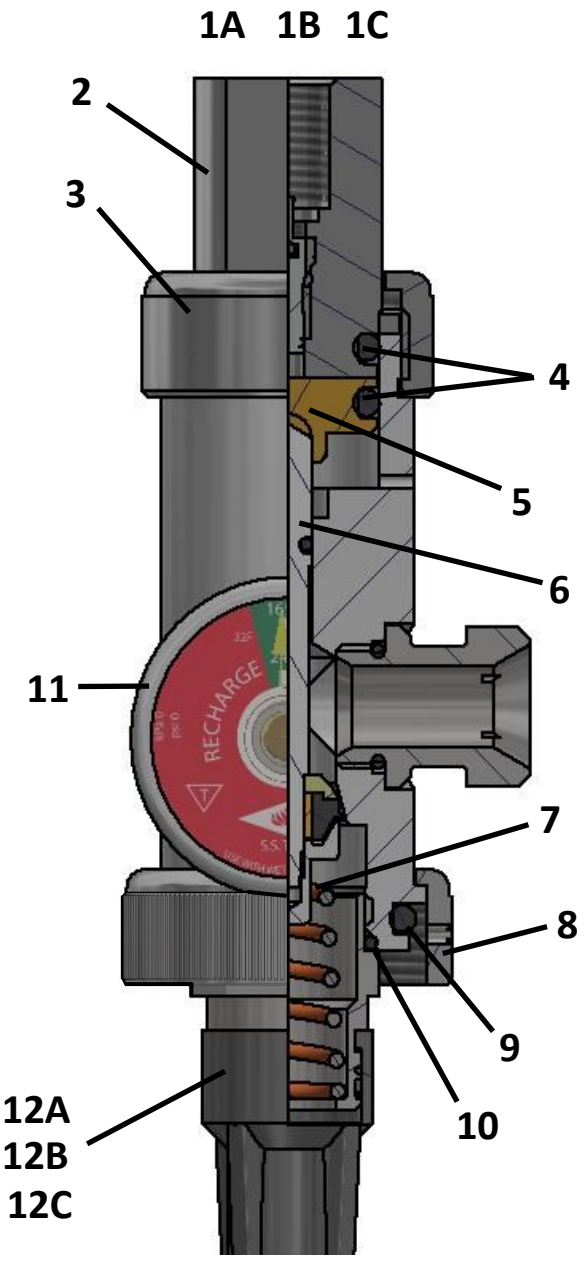
Amerex KP Model 475 Agent Cylinder Assemblies have 4.75 gallon agent capacity and are shipped factory filled with Amerex KP Wet Chemical Agent. The cylinders are pressurized with dry nitrogen or argon gas to a pressure of 240 psi (1655 kPa) at 70 °F (20 °C). This gas is the expellant gas which discharges the wet chemical agent through the distributor network. One cylinder is capable of supplying agent to 14 flow points.

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KP 275/375/475 DISCHARGE VALVE



Item	Description	Part No.	20659 Kit Qty*
1A	Complete Assembly Model 275	17172	
1B	Complete Assembly Model 375	12284	
1C	Complete Assembly Model 475	17477	
2	Cap w/ Check Valve	15143-P001	
3	Cap Nut	13595-P001	
4	O-Rings (2)	10513-P012	2
5	Piston	12001-P001	
6	Valve Stem Asy.	-	1
7	Spring (Stainless Steel)	00383-P006	
8	Retainer Nut	13596-P001	
9	Collar O-Ring	05240-P024	1
10	O-Ring Downtube Retainer	05690-P012	1
11	Gauge - 240 PSI	12402-P001	
		12402-P006	
12A	Downtube Asy. Model 275	16922-P001	
12B	Downtube Asy. Model 375	15945-P001	
12C	Downtube Asy. Model 475	17157-P001	

P/N: 17172/12284/17477

The machined stainless steel Discharge Valve is actuated pneumatically by a Release Module or electrically by utilizing a Linear Actuator and Electric Control Head. The valve assembly has a 1/4 inch NPT (female) actuation port and a discharge adapter with threads to accept a flexible discharge hose or swivel adapter.

***20659 rebuild kit includes items & qty shown**

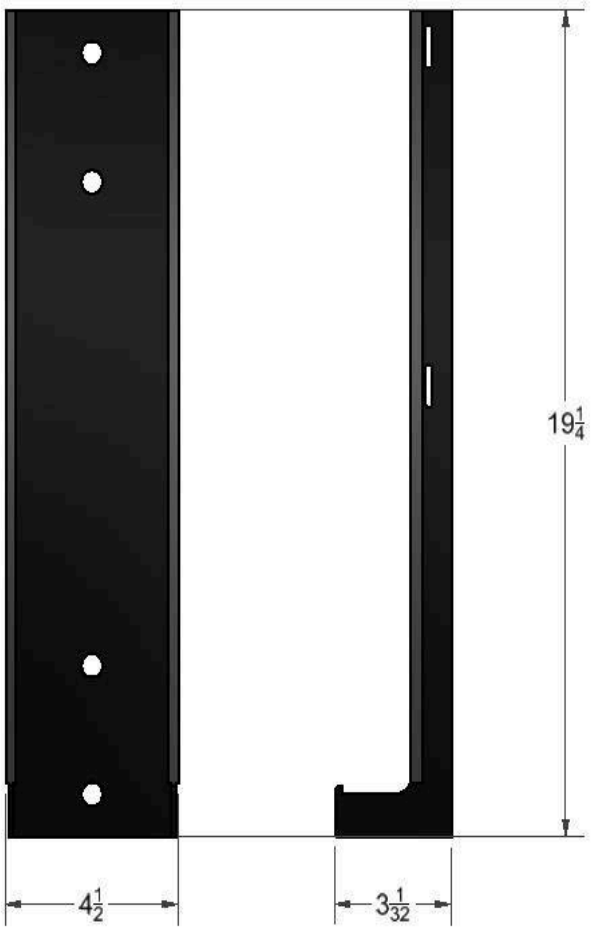
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KP 275/375/475 CYLINDER BRACKET





P/N: 16920

The 275 / 375 & 475 Mounting Bracket is used to secure the Models 275 / 375 & 475 Agent Cylinder Assembly to the mounting surface. The Cylinder Mounting Bracket is made from 1/8" thick formed steel and powder coated silver to resist corrosion. The assembly comes with a stainless steel Bracket Strap (P/N 14927-P002) and a Swivel Adapter (P/N 16901 -P001) for connection to the cylinder valve outlet.

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KP 275/375/475 AGENT CYLINDER COVER

P/N 25851

- **Full cover (32”H x 14”W x 12”D)**
- **20 gauge 430 stainless steel w/ #4 finish**
- **Lightweight/non weight-bearing**
- **Viewing gauge port**
- **Completely removable for full access**
- **Requires separate purchase of wall mounting bracket (P/N 16920)**



P/N 25851	U.S.	Metric
Width	14”	35.6 cm
Depth	12”	30.5 cm
Height	32”	81.3 cm

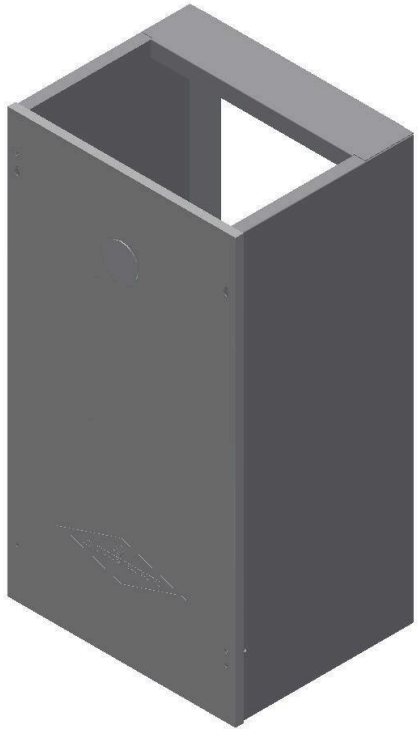
The Amerex Stainless Steel Agent Cylinder Cover fits directly over agent cylinder assembly models 275, 375, and 475 without bearing the weight of the cylinder. This cover is made of durable 400 series stainless steel and can be easily wall-mounted, blending in with any standard stainless kitchen appliance environment. The non-corrosive material provides a practical and cost- effective way to cover agent cylinders, while still maintaining ease of maintenance. The cover simply unscrews at the top and can be completely removed, ensuring full access to agent cylinder(s) when needed. A sight hole is provided for visibility of the Agent Cylinder Pressure Gauge.

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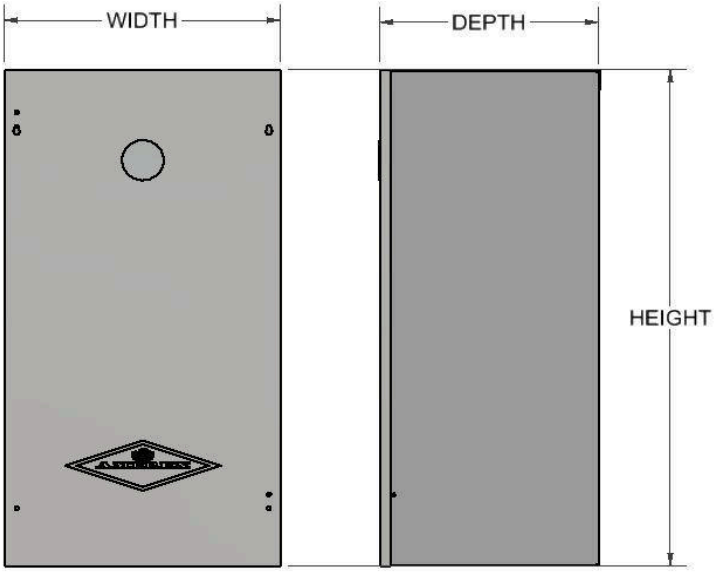
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KP 275/375/475 CYLINDER ENCLOSURE



P/N: 16814

The Stainless Steel Cylinder Enclosure will house a single 275, 375, or 475 Agent Cylinder Assembly and does NOT require the use of a cylinder mounting bracket. The enclosure mounts to the wall and has front plate that completes the enclosure. It also includes a swivel adapter for connection of the cylinder to the discharge piping since no bracket is required.



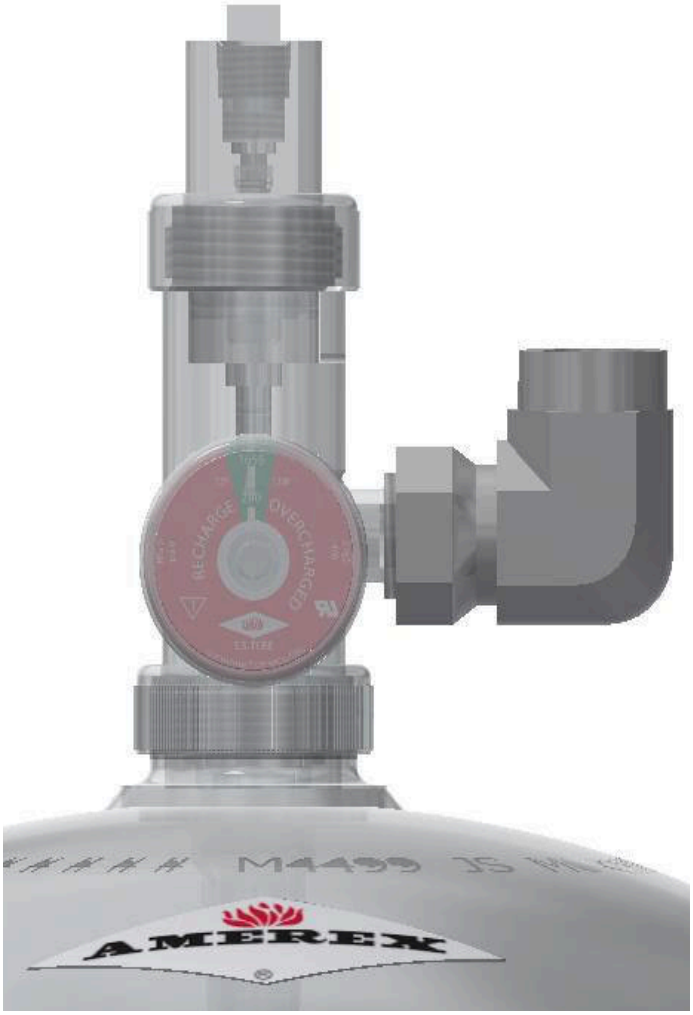
P/N 16814	U.S.	Metric
Width	14”	35.6 cm
Depth	11”	27.9 cm
Height	26 1/4”	66.68 cm

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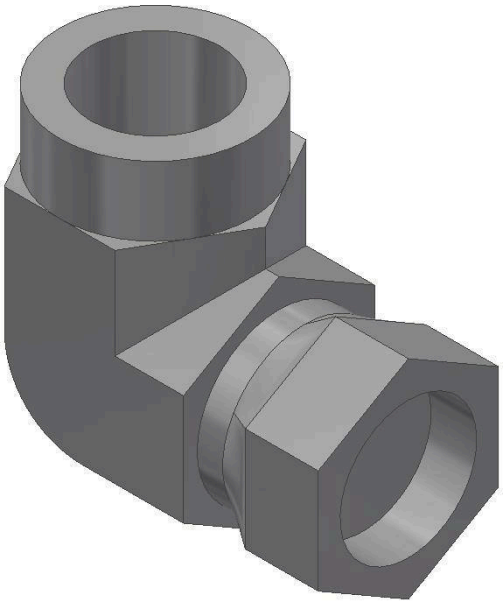
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SWIVEL ADAPTER



P/N: 16901-P001

The Swivel Adapter connects the distribution piping—1/2" NPT to the valve outlet of the 275, 375, and 475 Cylinders. Included in the KP 275/375/475 Cylinder Bracket (P/N 16920) and the KP 275/375/475 Cylinder Enclosure (P/N 16814).



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AGENT CYLINDER - KP600





Model 600	U.S.	METRIC
Height	27.59 in	70.08 cm
Diameter	12 in	30.5 cm
Weight Full	114 lbs.	51.7 kg
Capacity	6.14 gal	23.2 L
Flow Points	18	18

P/N: 15196

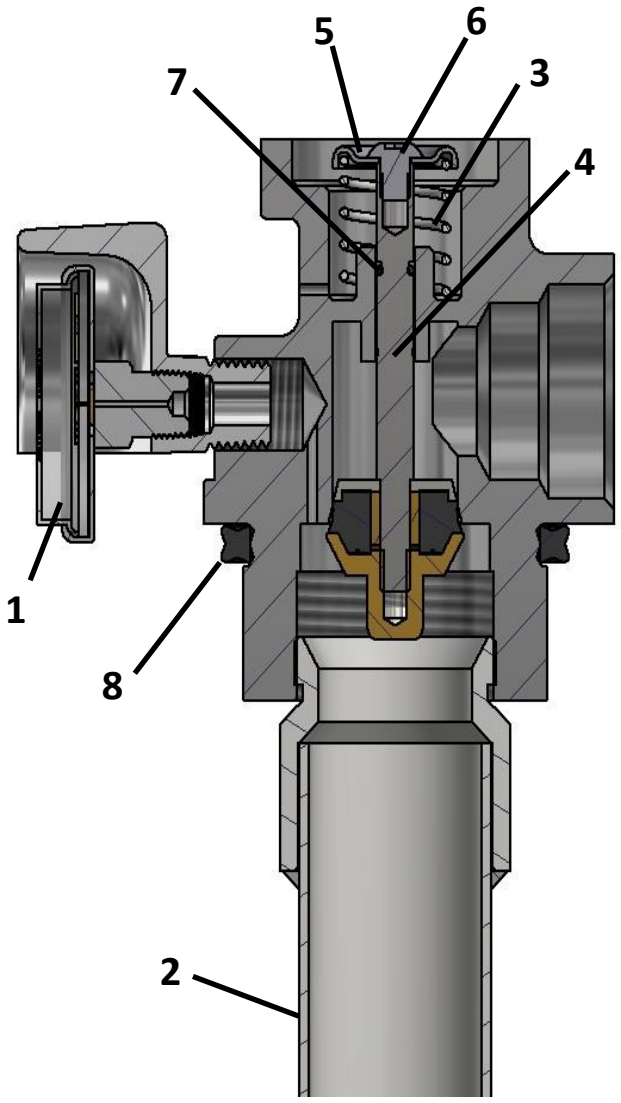
Amerex KP Model 600 Agent Cylinder Assemblies have 6.14 gallon agent capacity and are shipped factory filled with Amerex KP Wet Chemical Agent. It is pressurized with dry nitrogen or argon gas to a pressure of 240 psi (1655 kPa) at 70 °F (20 °C). KP600 Agent Cylinders are DOT 4BW240, tested to 480 psi (3309 kPa). One cylinder is capable of supplying agent to 18 flow points.

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KP600 DISCHARGE VALVE



Item	Description	Part No.
1	Gauge - 240 PSI	12402-P001
		12402-P006
2	Downtube Assembly	15195-P001
3	Spring	10097-P006
4	Valve Stem Assembly	15063-P001
5	Washer - Stainless Steel	10102-P012
6	Screw	10732-P012
7	O-ring - Valve Stem	10733-P024
8	O-ring - Collar	05239-P012

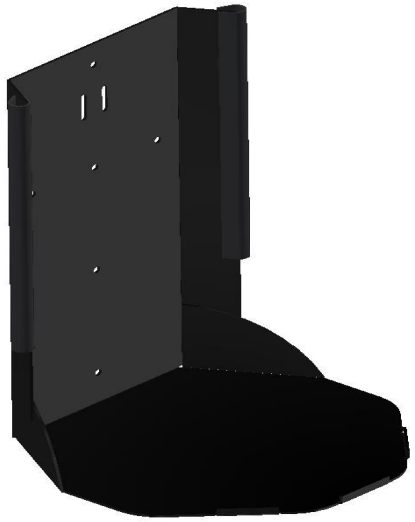
P/N: 27167

The Cylinder Valve Assembly is made with a forged brass body which has been nickel plated. The valve stem is made of stainless steel with plated parts. The valve has a 240 psi pressure gauge protected by a gauge guard. The valve controls agent discharge via a spring loaded, internal sealing valve stem that must be depressed from the top of the valve either by pneumatic actuation or electrically by utilizing a Linear Actuator and Electric Control Head. P/N 15060 is the complete assembly. (27167 is the sales version of Production part 15060)

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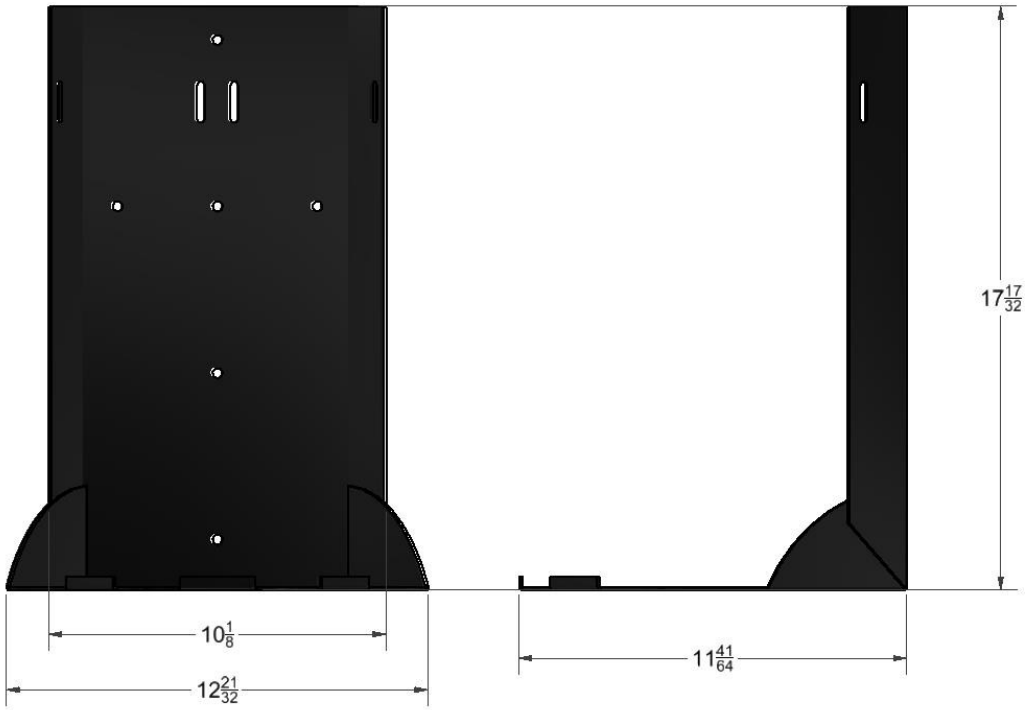
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KP600 CYLINDER BRACKET



P/N: 23184

The mounting bracket is used to secure the KP600 Agent Cylinder Assembly to the mounting surface. The bracket consists of a steel mounting base and stainless steel belly strap. The Bracket is attached to the wall via three holes down the back or any combination using three holes. A stainless steel Bracket Strap (P/N 15412-P001) is provided to hold the cylinder against the back of the bracket.



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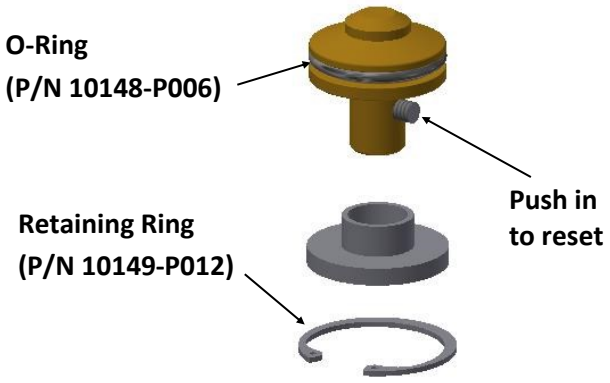
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KP600 PNEUMATIC ACTUATOR









P/N: 10147

The Pneumatic Actuator is required for every pneumatically actuated KP600 Agent Cylinder Assembly. The actuator is bolted directly to the top of the agent cylinder discharge valve. When actuation occurs at the MRM or PRM, the pneumatic pressure from the nitrogen cylinder enters the actuator through ¼" NPT threaded ports on either side. The actuation pressure forces the piston inside to extend and depress the valve stem of the discharge valve. Resetting is easier than the previous discontinued Actuator P/N 15157.

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LIQUID AGENT RECHARGES



P/N 16924 - CH547

2.75 Gal. Pail – 30 lbs. (13.6 kg)

P/N 12866 - CH544

3.75 Gal. Pail – 42½ lbs. (19.277 kg)

P/N 17450 - CH656

4.80 Gal. Pail – 51.24 lbs. (23.24 kg)

P/N 15416 - CH664

6.14 Gal. Pail – 67 lbs. (29.71 kg)

The operating temperature of the Liquid Agent is 32 °F to 120 °F (0 °C to 49 °C).

Amerex KP Wet Chemical Agent is specially formulated potassium acetate based solution designed for use on cooking grease and cooking oil fires. Amerex Wet Chemical Recharge is shipped in plastic pails with each pail marked with a date and batch code.

WARNING: AMEREX WET CHEMICAL AGENT IS AN ALKALINE MIXTURE, SAFETY GLASSES AND GLOVES SHOULD BE WORN WHENEVER HANDLING THE AGENT. CONTACT WITH SKIN SHOULD BE AVOIDED. IN CASE OF DISCHARGE, THE SOLUTION SHOULD BE CLEANED UP PROMPTLY TO AVOID DAMAGE TO APPLIANCES, HOOD AND DUCT, ALL FOOD IN CONTACT WITH THE AGENT MUST BE DISCARDED. REFER TO THE AGENT'S MATERIAL SAFETY DATA SHEET.

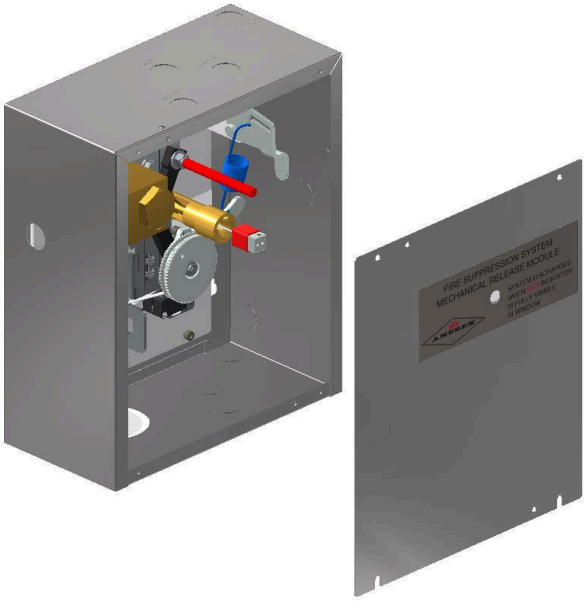
AMEREX SDS: https://AMEREX-fire.com/resources/data-sheets/

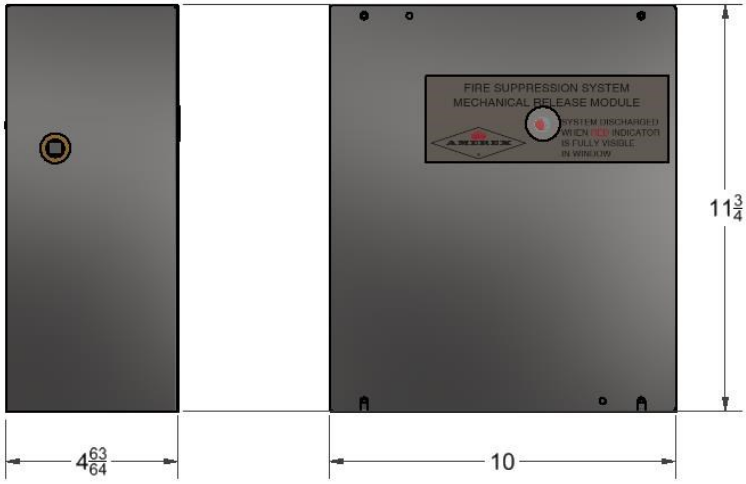
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MECHANICAL RELEASE MODULE





P/N: 18001

The new MRM combines the same features and functionality as the original MRM along with increased detection capabilities and far simpler means of setting the detection cable tension. The slide plate and collapsible column are now Teflon coated. The MRM is available in the above configurations, now preinstalled in its own enclosure.

Setting the detection cable tension does not require the use of any tools (once the cable is locked down into the large, knurled ratchet wheel). A large lever to the right of the ratchet wheel is used to increase the cable tension. Alignment of the bottom edge of the lever with markings on a label indicates when the proper tension has been achieved. Lowering cable tension to change out detection links is now also much simpler.

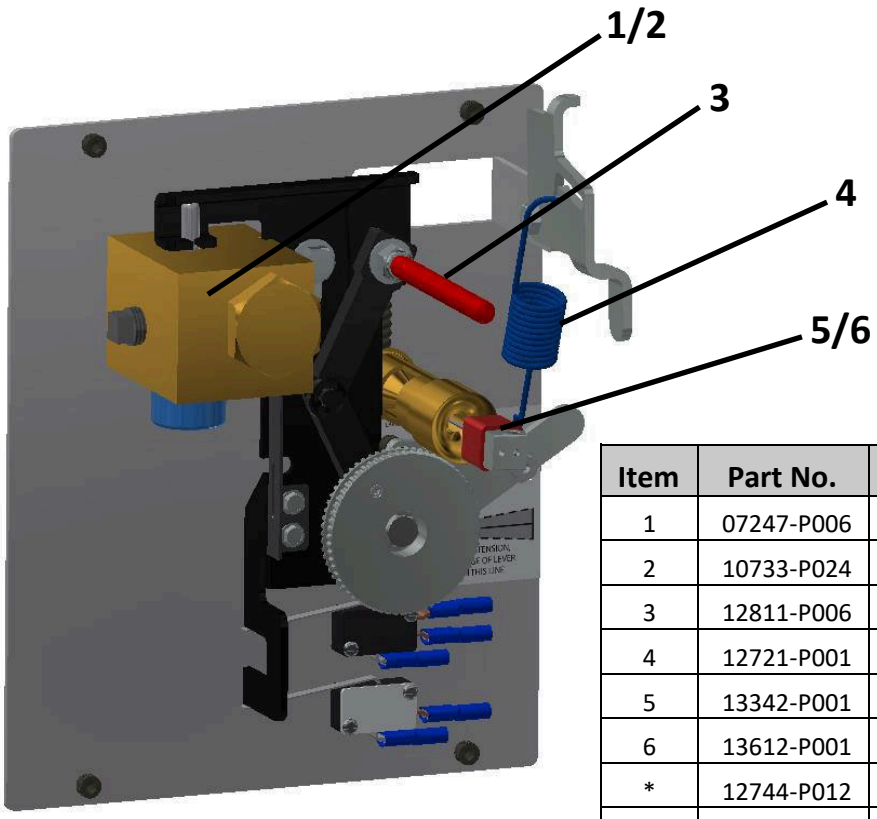
There is also a MRM available without the enclosure, P/N 11977. This has the same purpose and functionality as the MRM (P/N 18001). It is often used in conjunction with the Single Tank / MRM Enclosure (P/N 11978) or to upgrade from the MRM I.

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MRM SPARE PARTS LIST



Backplate Assembly (P/N 11977)

Spare Parts for the MRM (18001) or MRM Backplate (11977) are shown above. If other components are needed please contact Amerex technical support.

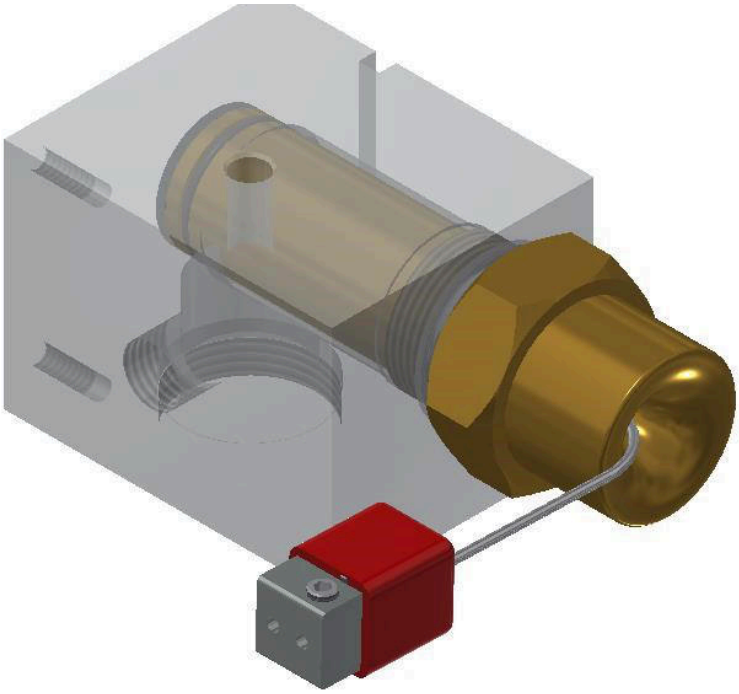
Item	Part No.	Description
1	07247-P006	Gasket Hose
2	10733-P024	O-Ring - Valve Stem
3	12811-P006	Vinyl Screw Cap - Red
4	12721-P001	Spring Link Act
5	13342-P001	Connection Cable - Gas Valve
6	13612-P001	Vinyl Cable Cap - Red
*	12744-P012	Screw Set (#10-32)
*	12733-P012	Screw Tap (#8-18)
*	12859	Cable Terminal End
*	13393	MRM Enclosure
*	13323	KP/IS Spare Parts Kit (p. 88)
*	14899	KP/IS Spare Parts Kit w/ PRM Parts (p. 89)
*	01387-P100	Lockwire Seal
*	13390-P010	Crimp
*	13119-P001	Label Indicator MRM
*	12868-P025	Caution Label - KP Hood
* PART NOT SHOWN		

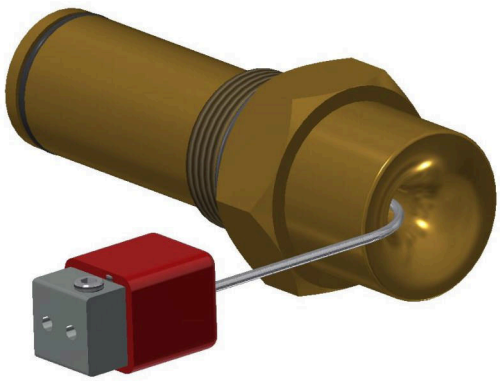
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GAS TRIP ASSEMBLY





P/N: 12740-P001

Operation of one or two mechanical gas valves may be accomplished with the Gas Trip Assembly (P/N 12740-P001) which is included in the Amerex Mechanical Gas Valve.

The cable for the gas valves, manual pull stations and detection network may be attached to the MRM from either the top or bottom.

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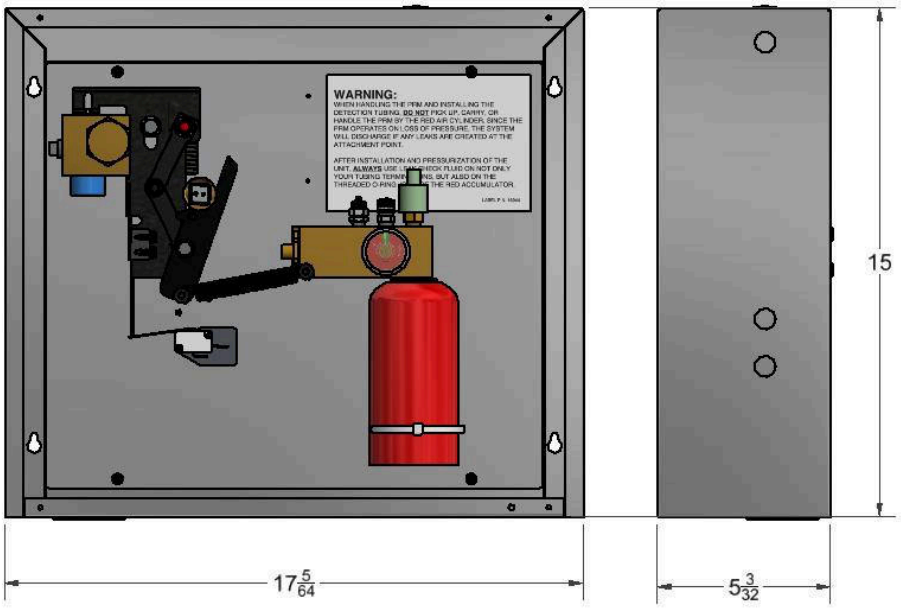
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PNEUMATIC RELEASE MODULE



P/N: 16795

The Pneumatic Release Module uses a simple linear pneumatic detection interface. The control mechanism interfaces with mechanical manual pull station), actuation networks; mechanical gas valves, and offers electrical contacts for shutdown functions. A low pressure switch is provided for connection to an alarm panel and/or the optional low pressure indicator. Supplied with the PRM are an End of Line Fitting and two sealing balls.

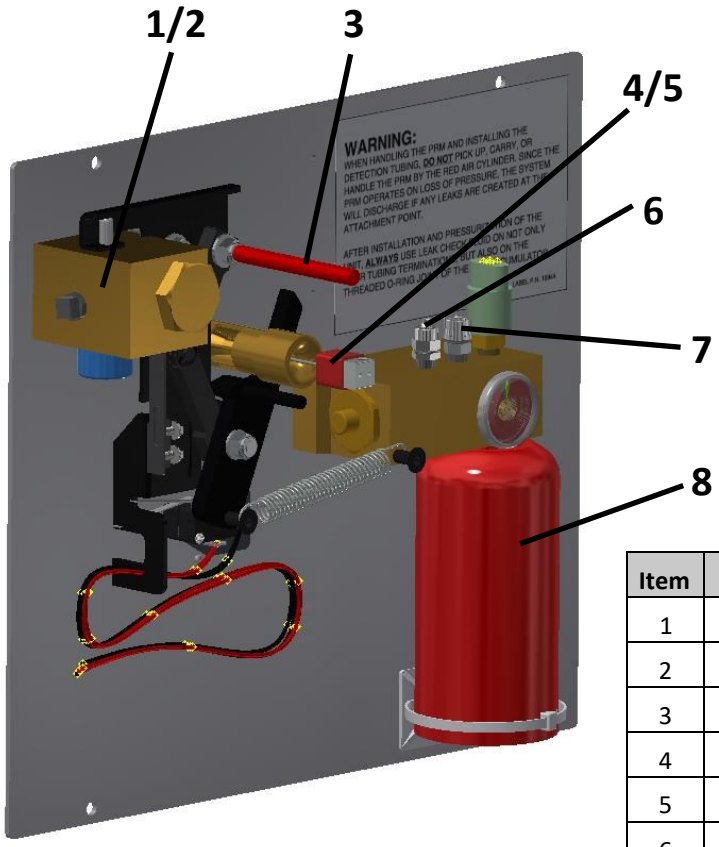


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PRM SPARE PARTS LIST



Backplate Assembly (P/N 25697)

Spare Parts for the PRM (16795) or PRM Backplate (25697) are shown above. If other components are needed please contact Amerex technical support. Note that the entire backplate assembly should be purchased to replace a PRM 1 when the hydrotest comes due.

Item	Part No.	Description
1	07247-P006	Gasket Hose
2	10733-P024	O-Ring - Valve Stem
3	12811-P006	Vinyl Screw Cap - Red
4	13342-P001	Connection Cable - Gas Valve
5	13612-P001	Vinyl Cable Cap - Red
6	13871-P001	1/8” NPT Male Fitting
7	00155-P002 or P012	Valve w/ Core & Cap
8	22678-P001	Replacement Accumulator Assembly
*	12733-P012	Screw Tap (#8-18)
*	13323	KP/IS Spare Parts Kit (p. 88)
*	14899	KP/IS Spare Parts Kit w/ PRM Parts (p. 89)
*	01387-P100	Lockwire Seal
*	13390-P010	Crimp
*	16555-P006	Installation Label
* PART NOT SHOWN		

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PRM LOW PRESSURE MODULE



P/N: 17484

The Low Pressure Module monitors the accumulator and PRM tubing pressure in order to alarm the user when a slow leak, which could eventually falsely trip the system, is occurring. Cables connect the 17484 to the PRM in order to allow for low pressure alarming.

Cable Lengths

Part #	Length (ft)
17564	2.5
17565	5.0
17566	10
17567	15
17568	20
17569	30

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PRM DETECTION TUBING



Part No.	Length
16557	25 Feet
16551	50 Feet
16579	100 Feet
16552	150 Feet
16554	300 Feet

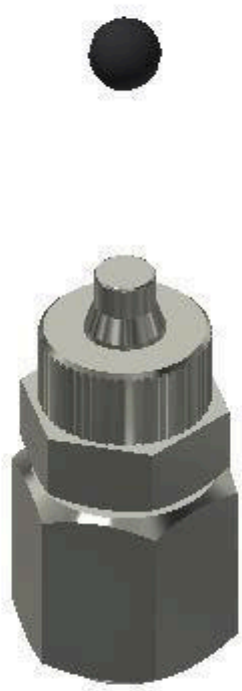
¼" pressurized thermal responsive tubing provides a mechanical movement via loss of pressurization anywhere along its entire length that results in system actuation. Detection temperature is at 435 °F. Tubing requires an End of Line Fitting to operate. The replacement interval is every 3 years.

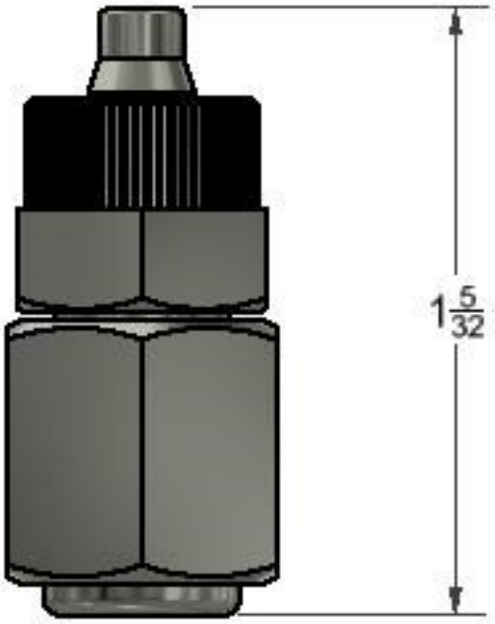
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PRM END OF LINE FITTING





P/N: 16506

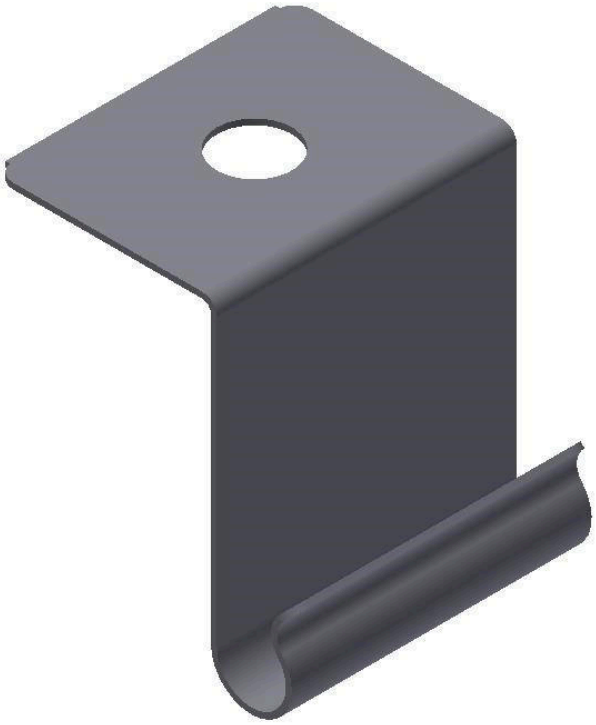
The “End of Line Fitting” is installed at the end of the pneumatic detection network. The sealing ball must be installed in the end of the tubing. One End of Line Fitting and two Sealing Balls are supplied with each PRM.

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PRM TUBING SUPPORT CLIP



P/N: 23524

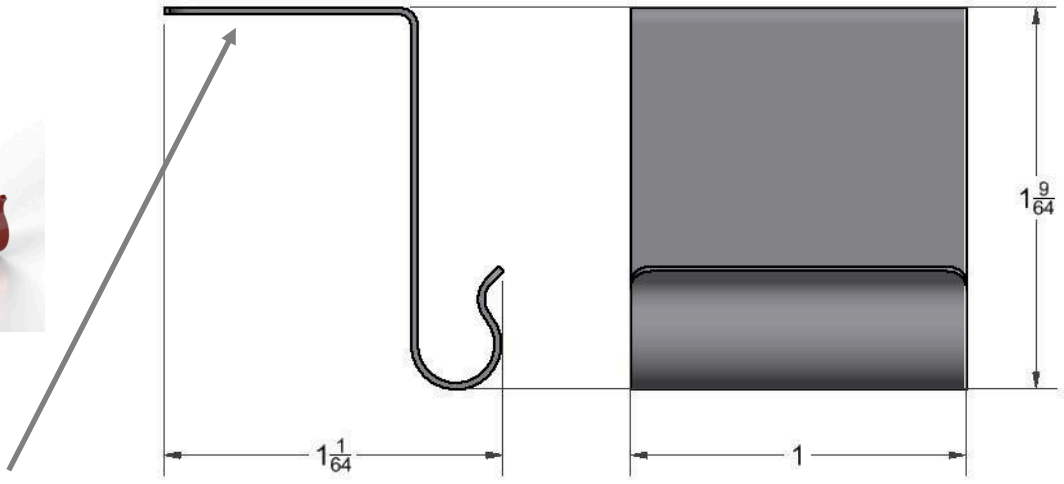
The Stainless Steel Tubing Support Clip is used in the pneumatic detection network to provide a means of support for the pressurized responsive tubing. It is also used for the support of STRIKE™ wiring and detection. A Tubing Clip is required for every 18” of tubing or 24” of LHD. A Tubing Clip is also required within one inch of the End of Line Fitting.

Available as singles (P/N 23524-P001) or in bulk (P/N 23524-P025).

When used with STRIKE™ buy 24539-P025 packs to protect the LHD wire.



Available in Red
as 16501-P001
or 16501-P025



.25” DIAMETER HOLE

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ACTUATION TUBING AND DETECTION CABLE

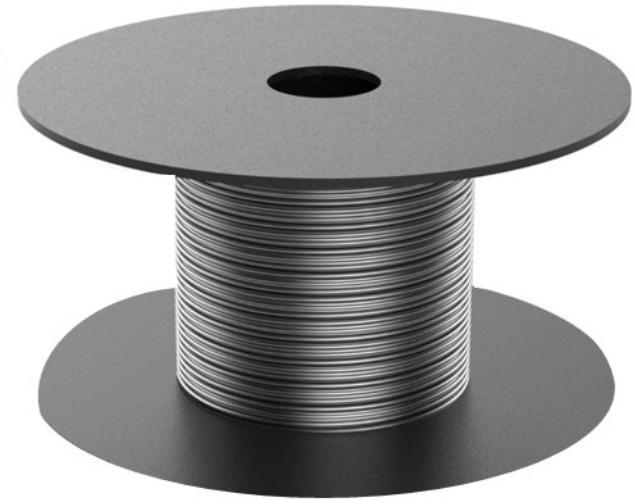
Copper Actuation Tubing



P/N: 22278

50 feet of ¼" O.D. x 0.049 wall thickness copper tubing. Use this tubing to connect the MRM or PRM to the actuation port of the agent cylinder. Fittings used with tubing are to be brass or steel compression style fittings.

Stainless Steel Cable



P/N: 12553

This stainless steel cable connects the MRM or PRM to the detection line, pull station, and gas valve. Contains 500' of coiled steel cable

P/N: 11998-P100

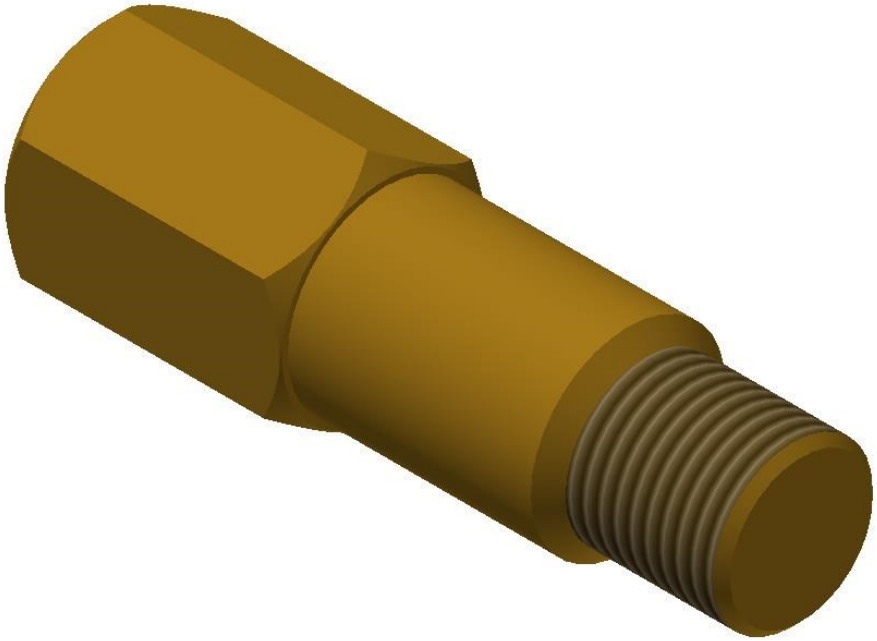
A 100' section of the stainless steel cable connects the MRM or PRM to the detection line, pull station, and gas valve. Ideal for single job sites or drop shipping to location.

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ACTUATION CHECK VALVE



P/N: 10262-P001

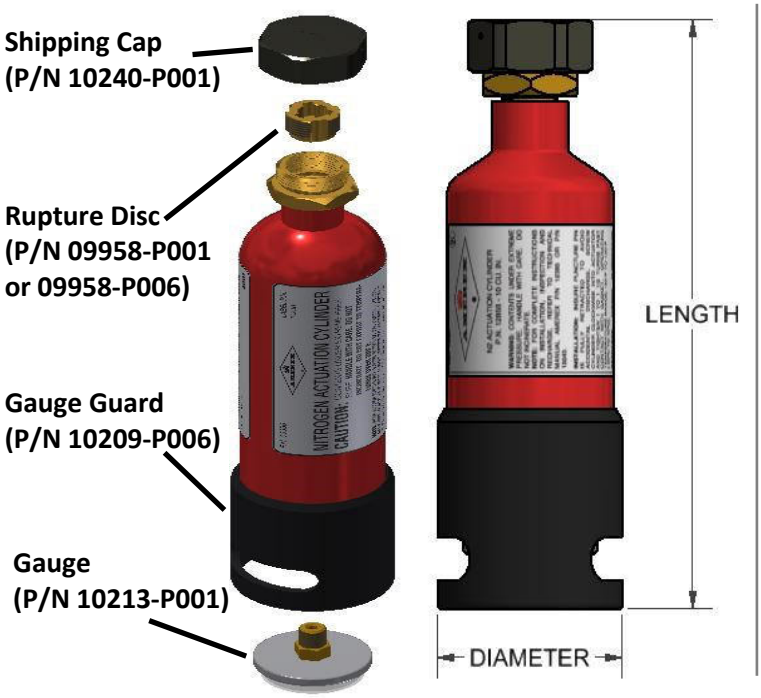
Is only used in Dual/Multiple control unit systems, when the actuation outputs of two MRMs/PRMs/STRIKE SRMs are "Teed" together to protect a single fire hazard or to actuate an agent cylinder that is protecting a common hazard. It is ¼" female NPT by ¼" male NPT, and is to be installed as described in section 3 of the Manual.

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NITROGEN ACTUATION CYLINDERS



Part No.	Cylinder	Length
12856 (10 in^3)	1.998 in	6 3/8 in
	5.07 cm	16.19 cm
09956 (15 in^3)	1.998 in	9 11/25 in
	5.07 cm	24 cm

Typical Pressure	12856 / 09956	
@ 40 ˚F	~1700 PSI	~11722 kPa
@ 70 ˚F	1800 PSI	12411 kPa
@ 100 ˚F	~1900 PSI	~12893 kPa

P/N: 12856 / 09956

The N2 Actuation Cylinder supplies nitrogen gas pressure to the Agent Cylinder Discharge Valve through the actuation network for the purpose of opening the Agent Cylinder. Each Actuation Cylinder is charged to 1800 psig (12410 KPa) at 70 °F (21 °C)

The 10 in^3 N_2 Actuation Cylinder (P/N 12856) contains enough nitrogen to actuate up to ten total of Models 275 / 375 / 475 Agent Cylinders Assemblies in any combination. It can also actuate a total of six Model 600 Agent Cylinders Assemblies OR a total of six Agent Cylinders when the mix contains at least one Model 600.

The 15 in^3 N_2 Actuation Cylinder (P/N 09956) contains enough nitrogen to actuate up to ten total of Models 275 / 375 / 475 & 600 Agent Cylinders Assemblies in any combination.

A Replacement Rupture Disc is available for both cylinders for use by certified Amerex installers when recharging.

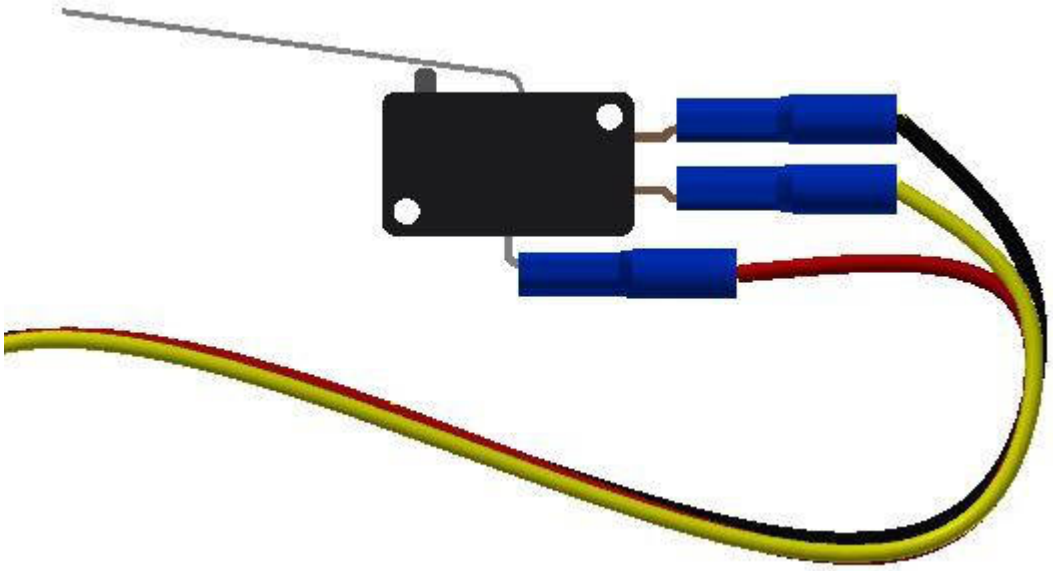
Cylinders under 2” in diameter do not require periodic hydrotesting per DOT.

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MICROSWITCH



P/N: 12524

Designed to be mounted in the Mechanical Release Module (MRM / MRM II) and the Pneumatic Release Module (PRM), microswitches are used to control various output functions. These output functions may involve turning off or turning on power. Examples of output functions are: Sounding a visual or audible alarm, operate an Electrical Gas Valve, shut off Supply Air Fans or other electrical devices designed to shut off or turn on upon system actuation. One field-useable P/N 12524 SPDT (Single Pole, Double Throw) switch is pre-installed in the both the MRM and the PRM (a wire gutter is provided to aid in electrical installation). Up to two additional SPDT switches may be added to the MRM and PRM for the following configurations: SPDT, DPDP, 3PDT, and 4PDT (MRM). Microswitches are intended for indoor use only. All Microswitch connections are to be made outside the MRM / PRM in an approved junction box.

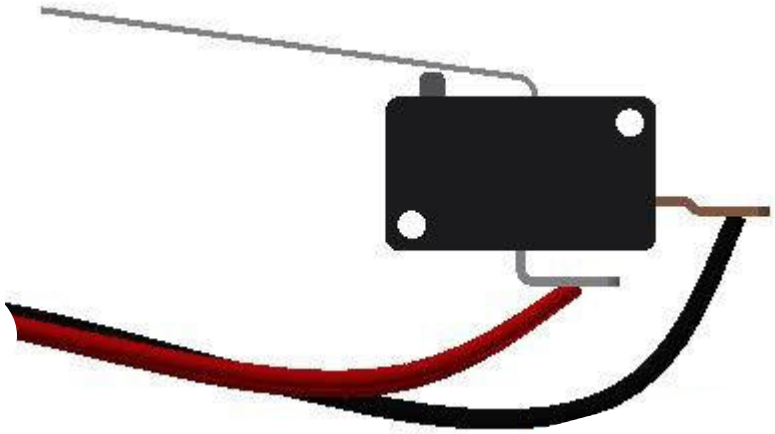
Color Code: Red = Common, Yellow = N.O., Black = N.C.

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ALARM-INITIATING MICROSWITCH



P/N: 18312

The optional alarm initiating microswitch is used when it is required to be electrically connected to a fire alarm system per NFPA 17 and NFPA 72 in a supervised, four-wire manner. It is designed to be mounted in the Mechanical Release Module (MRM / MRM II) and the Pneumatic Release Module (PRM) only for the purpose of initiating an alarm in a fire alarm system. All Microswitch connections are to be made outside the MRM / PRM in an approved junction box. One 18312 comes pre-installed in the MRM and PRM.

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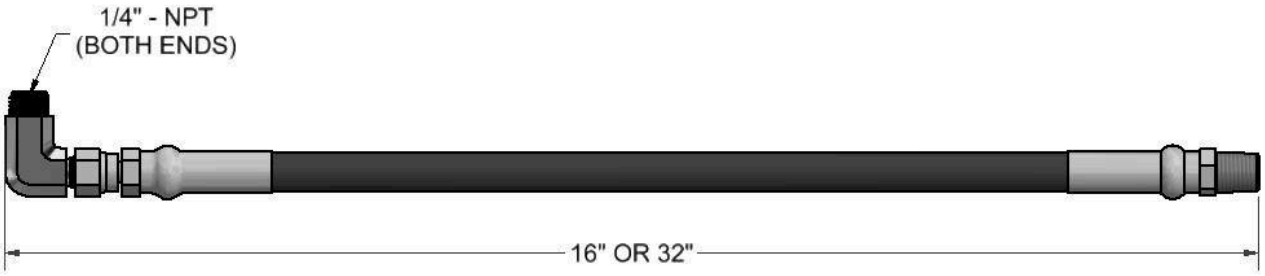
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ACTUATION HOSE



To aid in the installation of systems, an optional Actuation Hose is available. This 16” or 32" hose connects the MRM (Mechanical Release Module), PRM (Pneumatic Release Module), or SRM (STRIKE™ Release Module) actuation port to the top of the Agent Cylinder Discharge Valve(s).

Part No.	Length
P/N 12854	16”
P/N 16448	32”

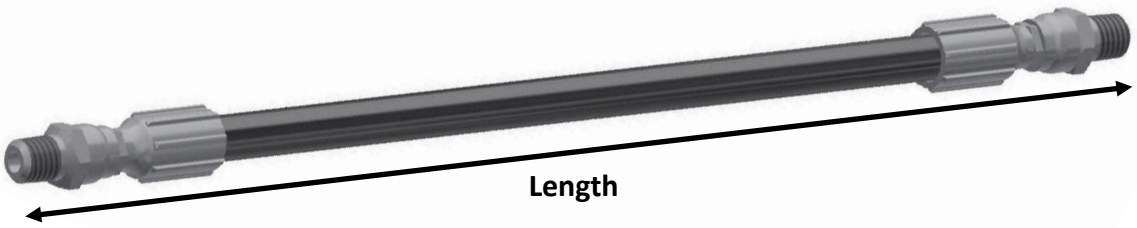


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ADDITIONAL ACTUATION HOSES



P/N: 25283-##

This optional high pressure hose is for connecting the high pressure outlet of a nitrogen cylinder in the MRM, SRM, or PRM to the inlet pressure port of an agent cylinder. The hose allows agent cylinder to be placed further from the MRM than the traditional 16” and 32” hoses while reducing the need for copper tubing. 1/4” NPT on both ends of the hose.

Part No.	Length
25283-03	3 Feet
25283-05	5 Feet
25283-10	10 Feet
25283-15	15 Feet
25283-20	20 Feet
25283-25	25 Feet

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FLEXIBLE DISCHARGE HOSE



P/N: 20473

This hose is designed to be used when a flexible movement of the nozzle branch line is desired. Such as when an appliance needs to be moved for cleaning and the nozzle protecting the appliance is fixed to the appliance. Hose length is 48" end to end and is supplied with ½" NPT ends. The flex hose is limited to use on the appliance branch line only and cannot be used on supply line or supply branch line.

The flexible hose connects to the Nozzle Branch line to prevent kinking or collapsing of the hose. It is to be used to provide for movement of the appliance without the appliance protection being disconnected from the fire suppression system.

The flex hose has a minimum bend radius of 7". The piping limitations for Nozzle Branches do not change when flexible hose is used in the line. However, the flex hose takes the place of 4 feet of pipe.

A maximum of three flex hoses may be used on an agent cylinder piping network.

An appliance locating device is to be used to ensure that the appliance is placed back in proper alignment after being moved for cleaning. The discharge hose is the only one on the market that may be used in the hazard area.

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KP DISCHARGE NOZZLES

Appliance Type	Part No.	Flowpoints	Markings
Appliance / Plenum	11982	1	11982 1 x 38
Solid Fuel Char-Broiler / Duct	11983	1 1/2	11983 1 x 55
Upright Broiler	11984	1/2 Each	11984 .05x 71
Fryer & Griddle	13729	2	13729 2 x FG
Zone Defense / Range / Griddle	14178	2	14178 2 x R
Duct	16416	1	16416 1 x D
Back Shelf Nozzle	16853	1/3	16853 1/3 x BS

One Piece Body & Tip



Internal Filter



Snap Ring





P/N 11982 - 2 RINGS



P/N 11983 - 3 RINGS



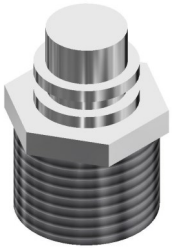
P/N 11984 - 4 RINGS



P/N 13729 - 5 RINGS



P/N 14178 - 1 GROOVE



P/N 16853 - 3/8 NPT



P/N 16416 - NO GROOVES or RINGS

All Nozzles available as singles or with bulk pricing as 10 packs.

#####-P010

The Amerex KP system uses 7 different nozzles, each type of nozzle is specifically machined so it can be identified by touch and are also stamped with the part number. All Amerex KP nozzles come with high temp metal nozzle caps, P/N 12504-P010.

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NOZZLE SWIVEL ADAPTER



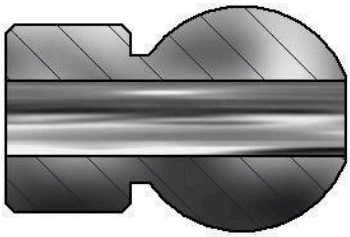
P/N: 16440

The Swivel Adapter is an option offered to aid the installation and aiming of the system nozzles by providing up to 29° of angle correction. The adapter is composed of three parts: the body, swivel adapter, and retainer nut. All nozzles may be used with the swivel adapter without any change in the nozzle's listing.

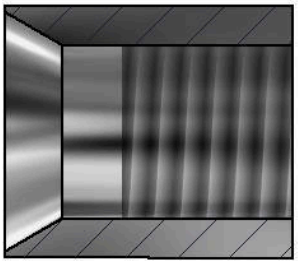
Available as singles (P/N 16440) or in bulk (P/N 16440-P025).



Retainer Nut



Swivel Adapter



Body

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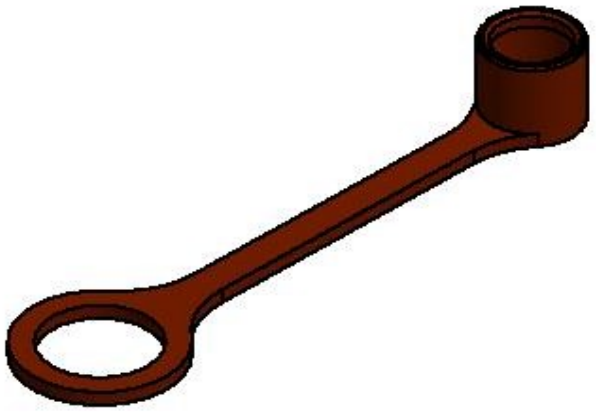
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NOZZLE CAPS

P/N: 12504-P010



P/N: 12334-P010



Two types of replacement nozzle caps are available for the Amerex KP Fire Suppression Systems. The High Temperature Nozzle Cap (P/N 12504-P010) has an O-ring to seal it to the nozzle and is installed on every new nozzle assembly. This cap can be used in environments that exceed temperatures of 350 °F (176.6 °C). The Standard Cap (P/N 12334-P010) can be used where exposure temperatures do not exceed 350 °F (176.6 °C) and is available for purchase. Both nozzle caps come in packs of 10.

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TYPE “K” FUSIBLE LINKS



EXPOSURE LIMIT				
Part No.	Link Rating		Max. Ambient	
12326	212 ˚F	100 ˚C	150 ˚F	66 ˚C
12327	280 ˚F	138 ˚C	225 ˚F	107 ˚C
12328	360 ˚F	182 ˚C	300 ˚F	149 ˚C
12329	450 ˚F	232 ˚C	375 ˚F	191 ˚C

Multiple temperature ratings of fusible links are available. They are assembled using solder which will melt at a predetermined temperature allowing the two halves of the link to separate, triggering the detection network.

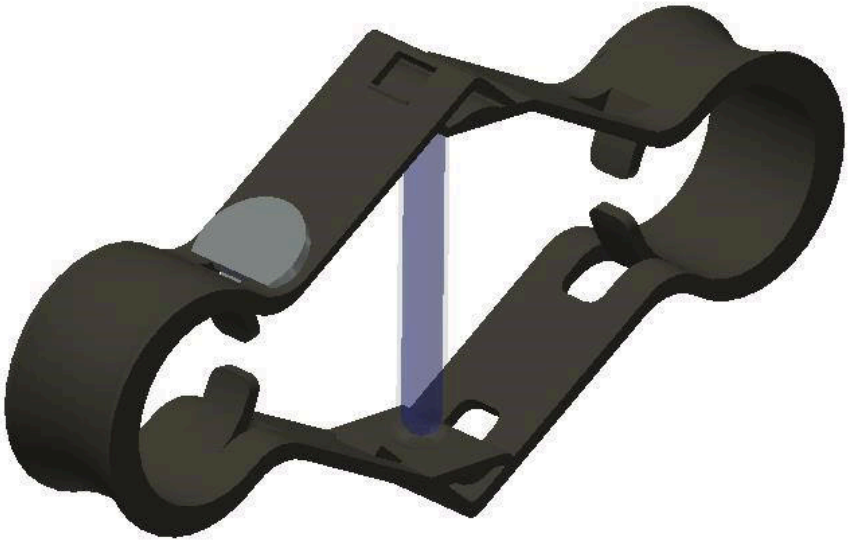
Available as singles or as bulk packs with P/N #####-P025

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JOB QUICK RESPONSE LINKS



Part No.	Response Type	Link Rating		Max. Ambient Temperature	
16225	Quick	200 ˚F	93 ˚C	150 ˚F	66 ˚C
16226	Quick	286 ˚F	141 ˚C	225 ˚F	107 ˚C
16227	Quick	360 ˚F	182 ˚C	300 ˚F	149 ˚C
16445	Quick	450 ˚F	232 ˚C	375 ˚F	191 ˚C
16446	Quick	500 ˚F	260 ˚C	425 ˚F	218 ˚C

Multiple temperature ratings of the Job Links are available. They are constructed of two metal struts held intension by a small, glass bulb that ruptures at the appropriate temperature rating. The detector bracket (P/N 12508-P001) will support either the Globe Type 'K' fusible links or the Job links, and the same detector limitations apply for both types of detector.

Available as singles or as bulk packs with P/N #####-P005

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TEST LINKS



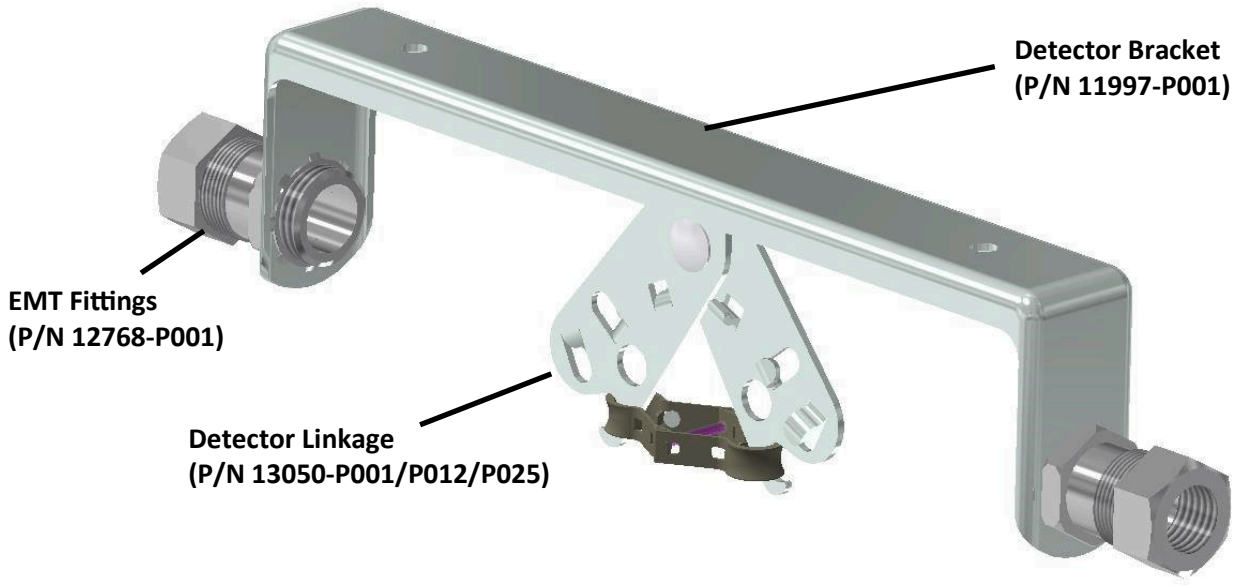
P/N: 12891

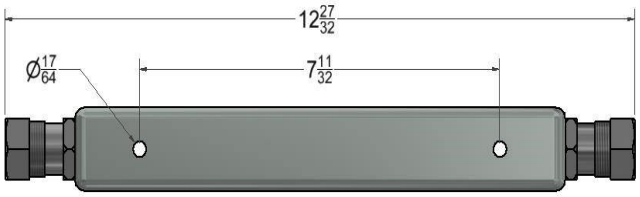
Test links are available for conducting functional tests of the detection system. This device fits the detector linkage in the same manner as the fusible link, is normally placed on the terminal detector and can be cut, simulating a fusible link separating under fire conditions. Available as singles (P/N 12891) or in packs of 10 (P/N 12891-P010).

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FUSIBLE / JOB LINK DETECTOR BRACKET





Available as singles (P/N 12508-P001) or in bulk (P/N 12508-P012)

P/N: 12508-P001

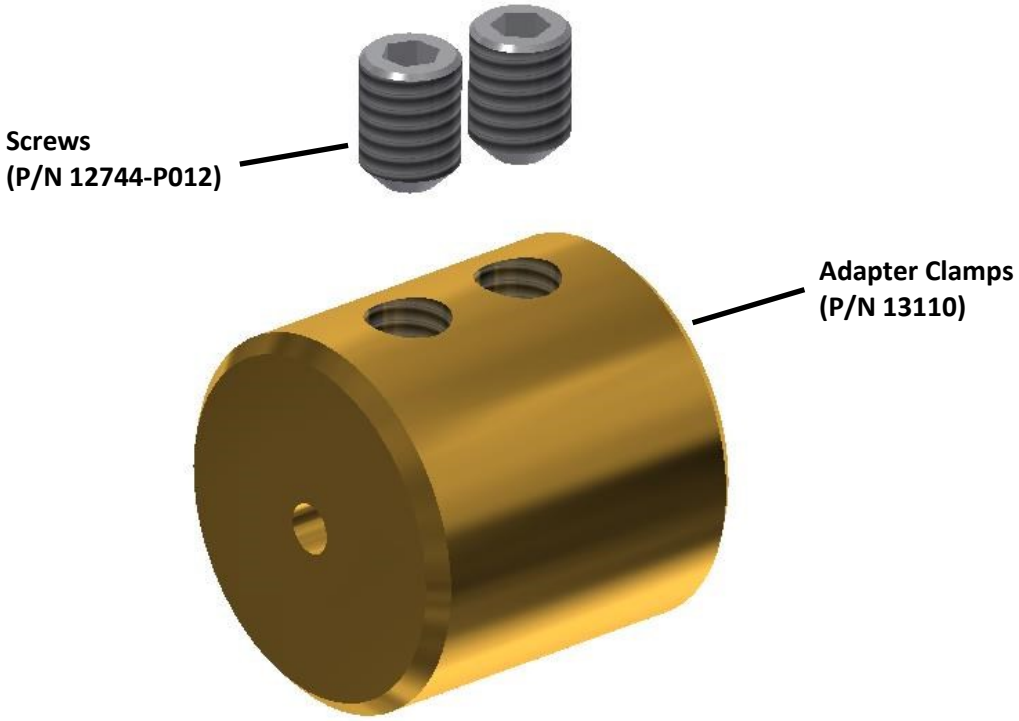
Each Detector Bracket in the Amerex KP System is comprised of three parts the Detector Bracket (11997-P001), Detector Linkage (13050-P001/P012/P025) and two EMT fittings (12768-P001). The fusible link is ordered separately. The bracket serves as support for the linkage and is attached to a rigid surface. The linkage supports the fusible link and a continuous cable run under tension. At a predetermined temperature the fusible link will separate, relieving tension on the cable and actuating the system.

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CABLE TERMINAL END



P/N 12859

This assembly includes the Brass Adapter Clamp (P/N 13110 *NOT SOLD SEPARATELY*) and screws (P/N 12744-P012). The screws clamp the adapter to the detection cabling to properly terminate the detection line at the exit of a detection bracket. This part is included in the MRM or available in the KP Spare Part Bag Assembly (P/N 14899) or 13323 parts bag.

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LANYARD DETECTION SYSTEM









P/N: 19155

Cable Segment 12" - Link-to-link, these links are used to connect fusible links or Job links without the need for the bracket (P/N 12508-P001). (Replaces 24864)

P/N: 17354

Cable Segment 24" - Link-to-link, these links are used to connect fusible links or Job links without the need for the bracket (P/N 12508-P001). (Replaces 24863)

P/N: 17515

Fusible Link Kit - Includes Beginning Cable, End Cable, & Conduit Box. Use in conjunction with 19155 or 17354 to cover the length of the hood. All Lanyard crimps are now stainless steel. (Replaces 25120)

—All Stainless Steel Cable and Stainless Steel Crimps —

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EYEBOLT





P/N: 17520

Eyebolt is used to support bare cable run in plenum of the hood in a Lanyard Detection System (Carabiner Style). The Eyebolt is supplied with one hex nut used to lock the eyebolt into final position.

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MANUAL PULL STATION

Surface Mount



Recess Mount



This Manual Pull Station may either be surface or recess mounted. The oversized cover is large enough to cover the sheetrock access hole for the standard 4" octagonal box and remain attractive and functional. Manual Pull Stations should be located in the path of egress and mounted at a height conforming to the local code requirements. If spare parts are needed, the pull stations are composed of the Ring Pin (P/N 00160-P024), Cover Screw (P/N 13257-P012), Screw Set (P/N 12744-P012), and the Pull Handle (P/N 12766-P001)

Part No.	Description
21481	Manual Pull Station - English (Recess or Surface Mount)
27195	Manual Pull Station Recess Only - English
27196	Manual Pull Station Surface Only - English
22116	Manual Pull Station - English/Spanish (Recess or Surface Mount)
27197	Manual Pull Station Recess Only - English/Spanish
27198	Manual Pull Station Surface Only - English/Spanish
22117	Manual Pull Station - English/French (Recess or Surface Mount)
27199	Manual Pull Station Recess Only - English/French
27200	Manual Pull Station Surface Only - English/French

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CORNER PULLEY - AMEREX

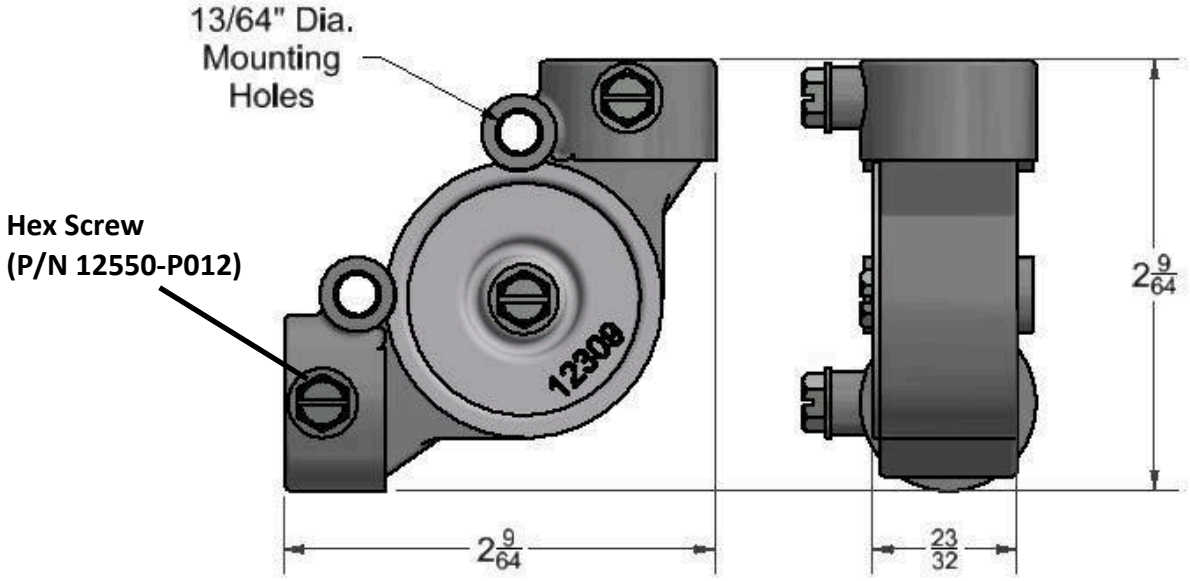


P/N: 12309

The Amerex KP System uses a "high temperature" corner pulley to change direction of the cable by 90°. This corner pulley may be used in environments with temperatures up to 700°F (371°C). Mounting holes are provided for anchoring the corner pulley where allowed by local codes.

Available as singles (P/N 12309) or bulk (P/N 12309-P050)

Utilizes #8-32 Hex Screw (P/N 12550-P012)



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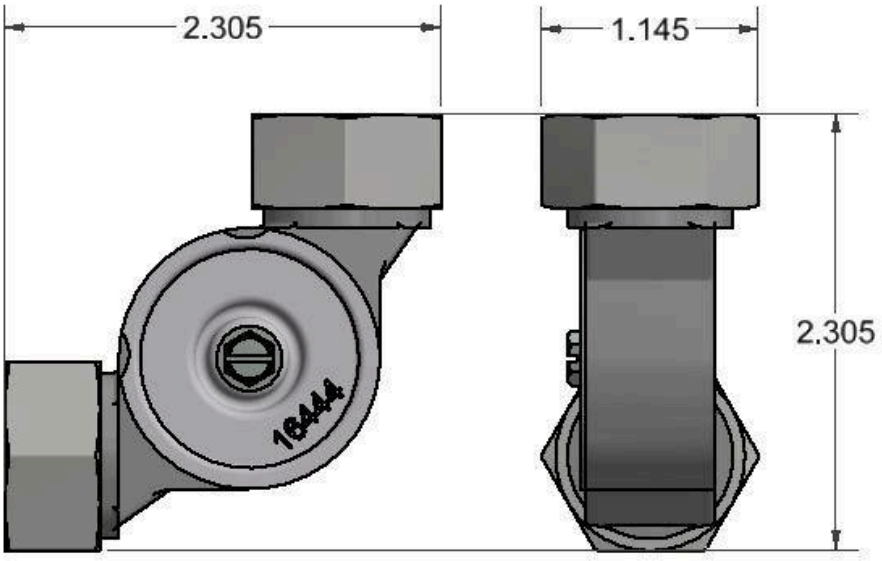
CORNER PULLEY - BROOKS CP5



P/N: 16444

This compression corner pulley, Brooks Model CP5, allows complete assembly of conduit and corner pulleys prior to installing the cable. Like the Amerex Corner Pulley (P/N 12309) it is used to change direction of the cable by 90°

Available as singles (P/N 16444) or as bulk (P/N 16444-P050)



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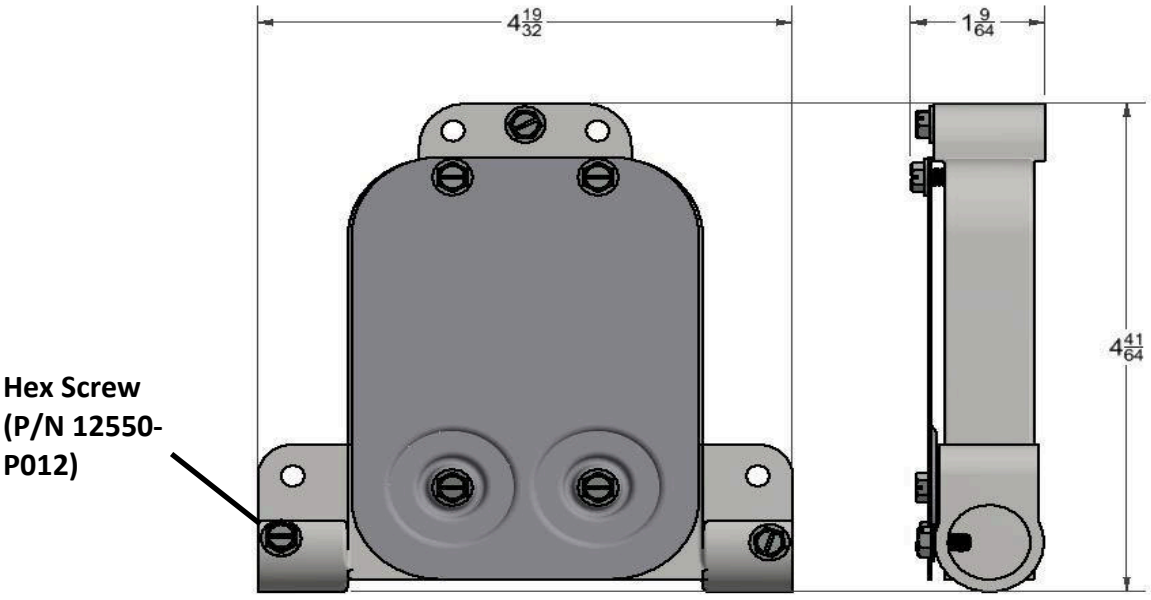
PULLEY TEE



P/N: 12506

A pulley tee is used to change the direction of two cables by 90° (Limit of one per line). This device can be used with mechanical gas valves and manual pull stations but not fusible link detectors. It allows two gas valves to be tripped by a single gas trip assembly or two pull stations to trigger a single system. It cannot be used where temperatures exceed the range of 32 °F to 120 °F (0 °C to 49 °C).

Utilizes #8-32 Hex Screw (P/N 12550-P012)



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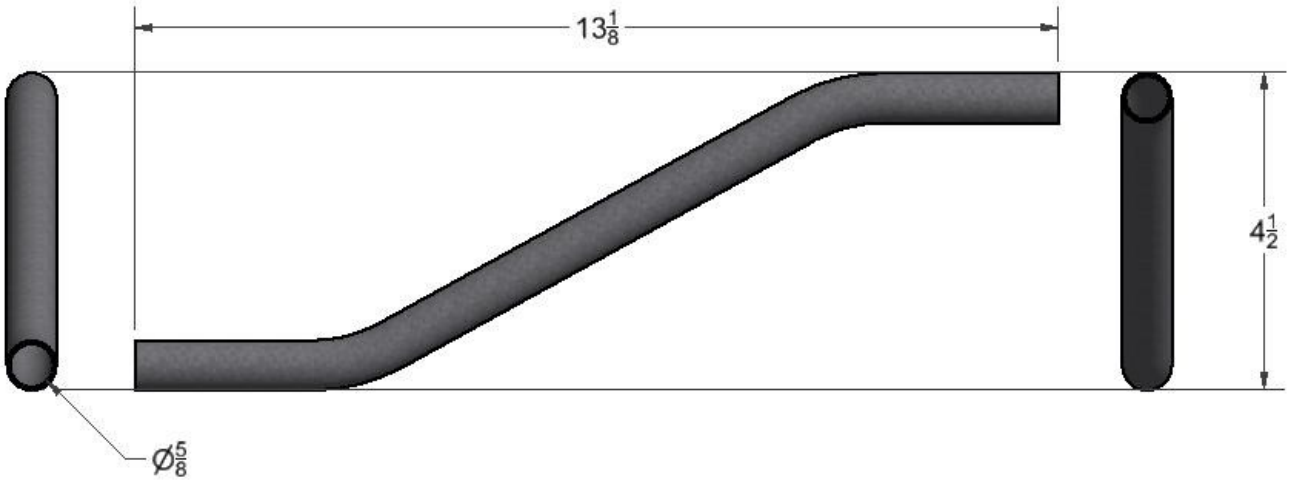
CONDUIT OFFEST



P/N: 12507

The conduit offset is used to allow a smooth transition for cable runs into or out of the MRM & PRM without using pulley elbows. It may be used with the detection network, manual pull stations or mechanical gas valve actuation network. The use of this device does not reduce the maximum number of corner pulleys allowed in the system. The Conduit Offset may only be attached to the enclosure of either the MRM, PRM or SRM.

EMT Conduit (P/N 12886) is also available and sold by the foot.

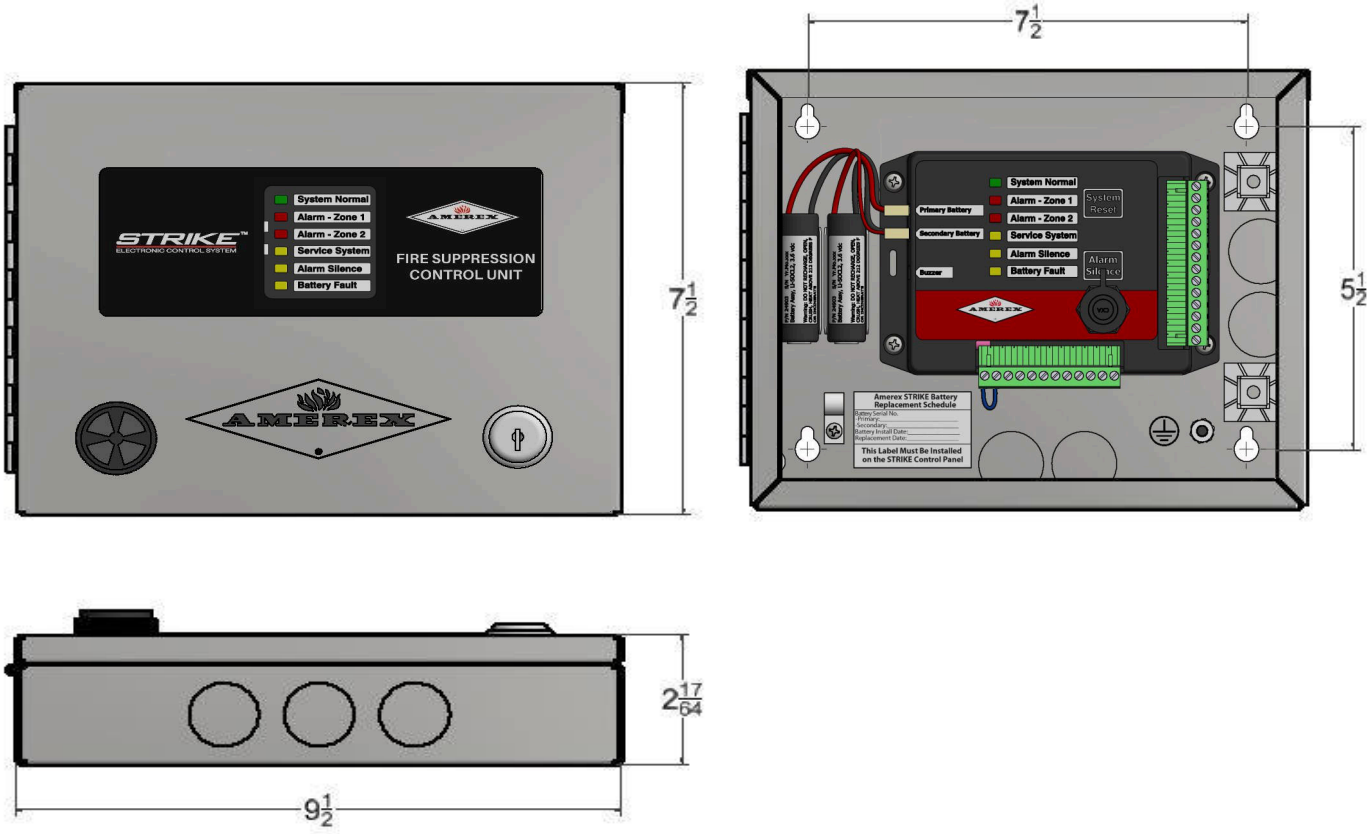


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STRIKE™ CONTROL UNIT



P/N: 23826

The Amerex STRIKE™ ECS Control Unit is a UL 864 compliant alarm initiating and release unit designed to function without external power. The Control Unit utilizes two non-rechargeable batteries as a primary and secondary (backup) power supply and will sustain itself for up to six months. The Control Unit and batteries are housed within a protective stainless steel enclosure that can be surface mounted to a wall or other surface. The enclosure features a hinged, lockable door for internal access. All field wiring enters the enclosure through electrical knockouts and terminates to the labeled terminal boards on the Control Unit. Enclosure dimensions are shown here along with an open enclosure.

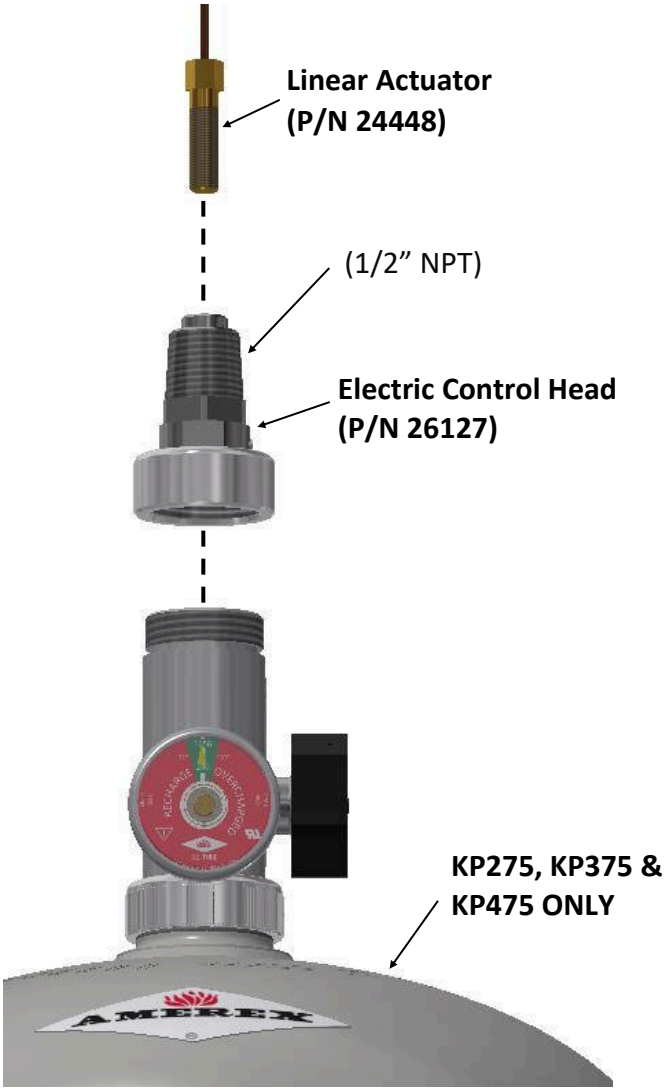
Batteries not included; they are available for purchase as singles (P/N 24903) or in bulk (P/N 24903-P010).

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KP 275/375/475 ELECTRIC CONTROL HEAD



P/N: 26127

The Electric Control Head is an option for use with the STRIKE™ ECS for installations requiring direct actuation of KP275 / KP375 / KP475 agent cylinders. This device is constructed of machined stainless steel and is installed on the top of the Agent Cylinder Valve. The Electric Control Head is threaded to accept a Linear Actuator (P/N 24448) and for electrical conduit box mounting (1/2" NPT). The Linear Actuator, when activated from the STRIKE™ ECS, will force the piston inside the Valve assembly down to depress the Agent Cylinder Valve stem, releasing the KP Agent.

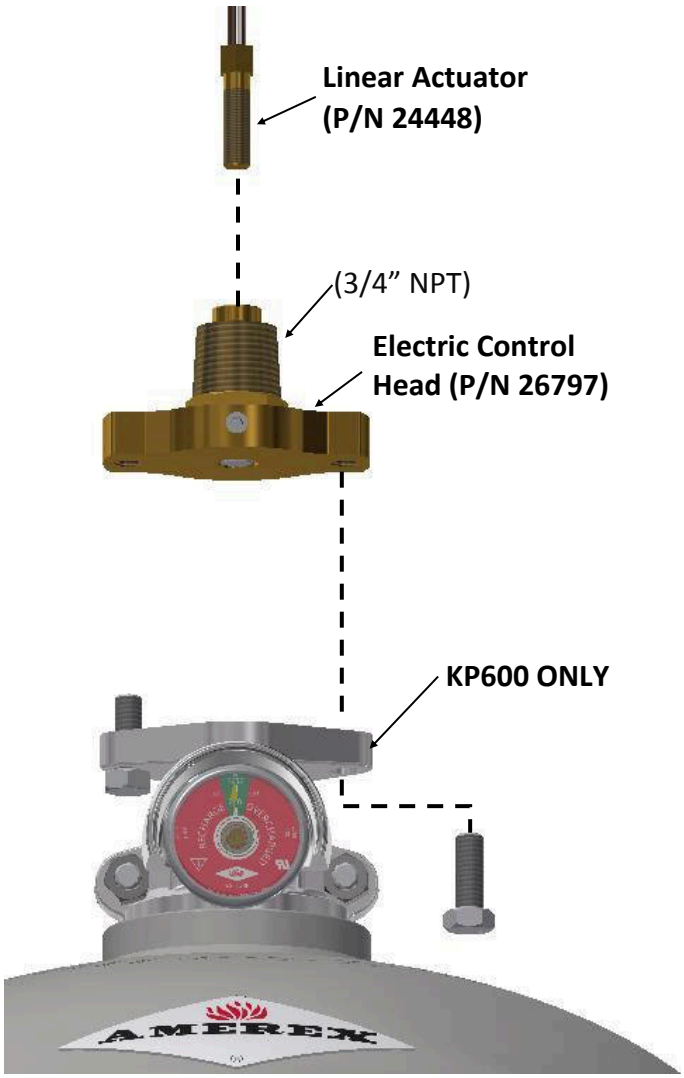
The Electric Control Head is used in conjunction with the STRIKE™ ECS and is UL Certified only and cannot be considered for or used in installations of KP systems in Canada.

Rebuild Parts available with P/N 26795.

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KP600 ELECTRIC CONTROL HEAD



P/N: 26797

The Electric Control Head, KP600 is used with the STRIKE™ ECS for installations requiring direct actuation of a KP600 agent cylinder without the use of an SRM. This device is constructed of machined brass and bolts directly to the top of the Agent Cylinder Valve. The Electric Control Head is threaded to accept a Linear Actuator (P/N 24448) and threaded for electrical conduit box mounting (3/4" NPT). The bottom plate retains the actuator piston and locking ring. The Linear Actuator, when activated from the STRIKE™ ECS, will force the piston inside the Electric Control Head down to depress the Agent Cylinder Valve stem, releasing the KP Agent.

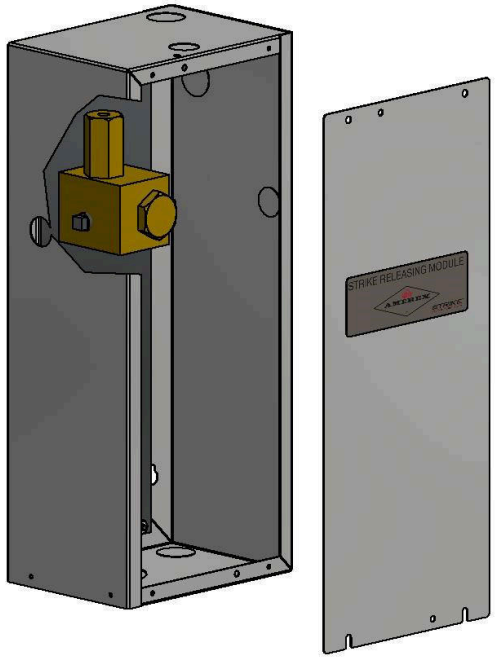
The Electric Control Head, KP600 is used in conjunction with the STRIKE™ ECS and is UL Certified and cannot be considered for or used in installations of KP systems in Canada.

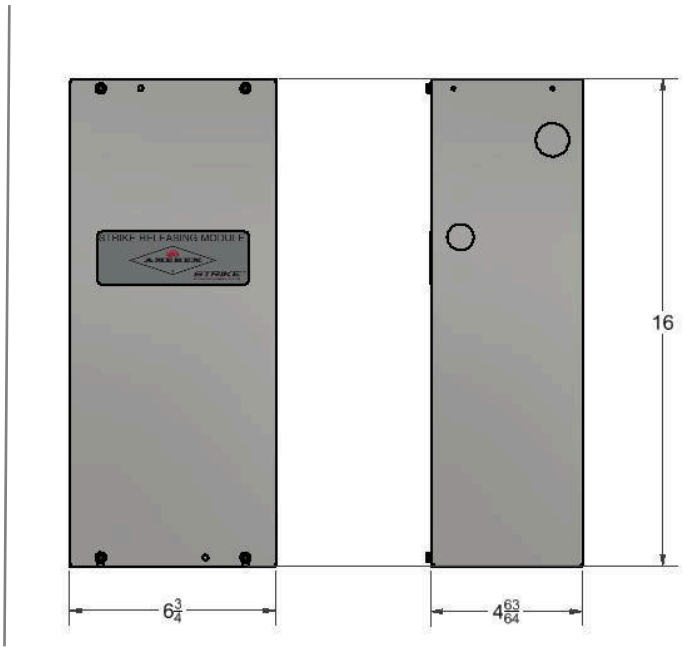
Rebuild Parts Available as P/N 26795.

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STRIKE™ RELEASING MODULE (SRM)





P/N: 26607

The STRIKE™ Releasing Module can be utilized when more than two agent cylinders need to be actuated by a single STRIKE™ panel.

Automatic release of actuation gas is accomplished when the linear actuator receives a signal from the STRIKE™ ECS Panel. This causes a spring loaded plunger to perforate the rupture disc and releases nitrogen thought the actuation hose/piping network to the agent cylinder discharge valve(s).

Manual release of agent is accomplished in the same manner by pulling on an electric manual pull station which is connected to the STRIKE™ ECS Panel.

The SRM is designed for actuation networks with more than two agent cylinders or in installations using a mechanical gas valve.

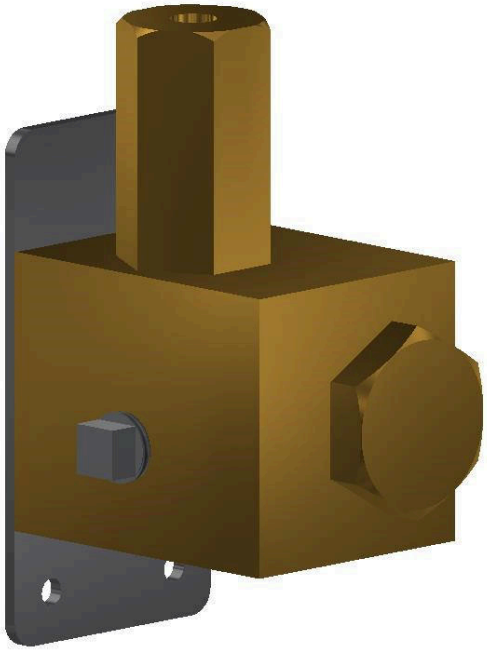
Operation of one or two mechanical gas valves may be accomplished by adding a Gas Trip Assembly (P/N 12740-P001). The cable for the gas valves may be attached to the SRM from any of the assigned gas trip locations.

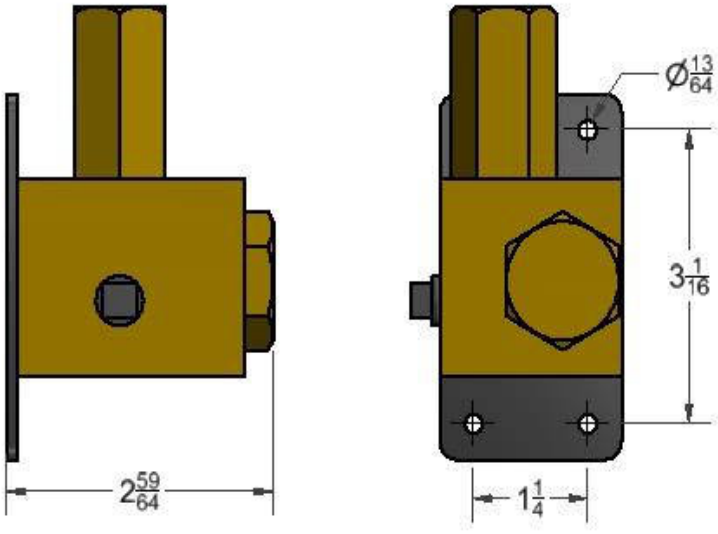
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STRIKE™ RELEASING MODULE (SRM), OEM





P/N: 26577

The SRM, OEM has the same functionality as the 26607 but lacks the stainless steel enclosure. It is used in hood end cabinet or OEM installations. If a manual valve is to be tripped ensure there is a proper mounting point for the conduit/cable.

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LINEAR HEAT DETECTOR



Mounted in Hood using 23524 Clips and 24539 LHD sleeves

P/N: 24744-XX

A Linear Heat Detector (LHD) is a grease tight, UL listed, normally open device that closes when subjected to heat. The device is comprised of two internal coiled spring loaded conductors that make contact in the event of an overheat or fire condition. LHDs are color coded (green) and have a temperature set point of 356 °F (180 ° C). LHDs must be replaced once they detect an overheat condition. Various lengths of the LHD are available. The LHD is supplied with an uninstalled connector and connector lock on one end to facilitate installation through an LHD Bulkhead Quik-Seal.

Use 23524 clips (singles -P001 or bulk -P025) to support and packs of 24539-P025 to protect the LHD when in the clip.

Length Code	Length (Feet)
24744-06	6
24744-08	8
24744-10	0
24744-12	12
24744-15	15
24744-20	20
24744-25	25
24744-30	30
24744-40	40
24744-50	50

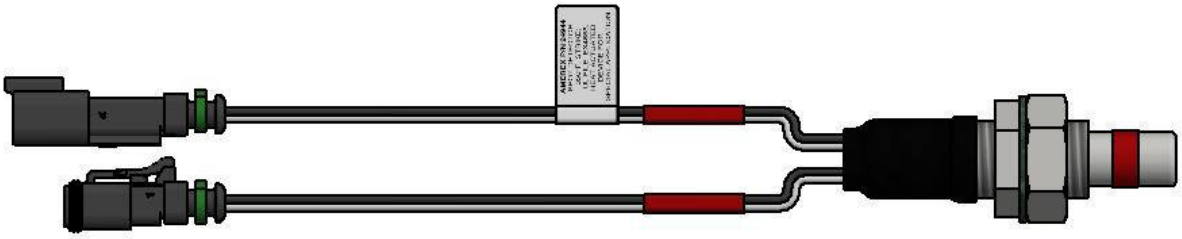
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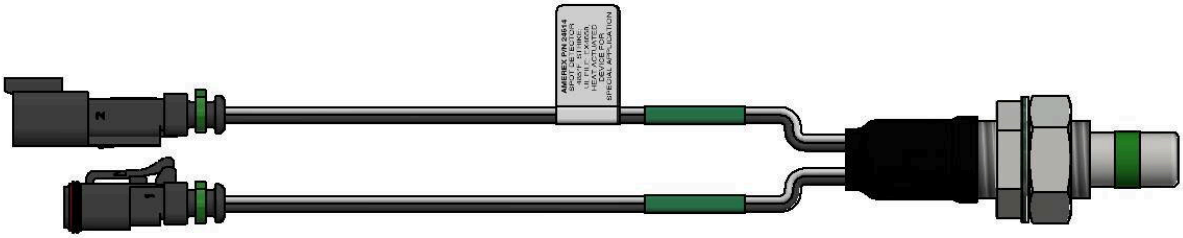
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SPOT HEAT DETECTORS

P/N: 24944



P/N: 24514



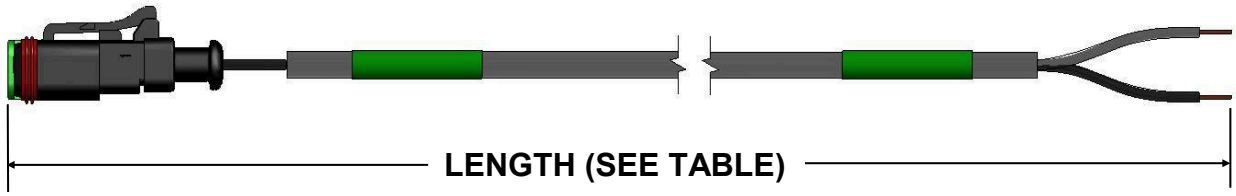
Spot Heat Detectors (SHD) are grease tight, UL Listed, normally open, self resetting contact closure devices. These devices are configured with four wires allowing supervision of series connected circuitry. The internal contacts of the devices will close upon reaching designed temperature set point parameters. Both SHDs are identical, except P/N 24944 has a set point of 350 °F (177 °C) as indicated by a red set point ID color, while P/N 24514 has a set point of 485 °F (252 °C) as indicated by a green set point ID color. Color coding (green) can be found on each connector. SHDs feature a bulkhead (Quik-Seal) mounting style with an included seal washer and jam nut. The length from the detector to the end of each cable is 6.25".

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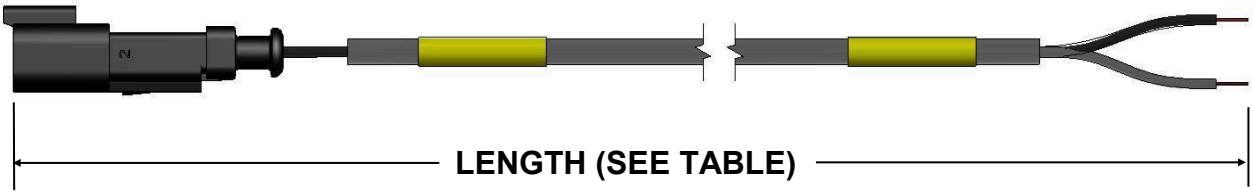
STRIKE™ LEADS



Detection Lead P/N: 24409-XX

Detection Lead Cables are used to connect a detection device (LHD or SHD) to the STRIKE™ Control Unit in the detection circuits only. Color coding (green) can be found on each cable end. Various lengths of this cable are available as shown in the table. They utilize a smaller connector than the Detection Leads to facilitate a connection inside the junction box.

Length Code	Length (Feet)
24409-10	10
24409-25	25
24409-50	50
24409-99	99



Actuation Lead P/N: 24411-XX

Actuation Lead Cables are used to connect a Linear Actuator to the STRIKE™ Control Unit in an actuation circuit only. Only one Linear Actuator may be connected to each actuation circuit, therefore no extension cables are available. Color coding (yellow) can be found on each cable end. Various lengths of this cable are available as shown in the table.

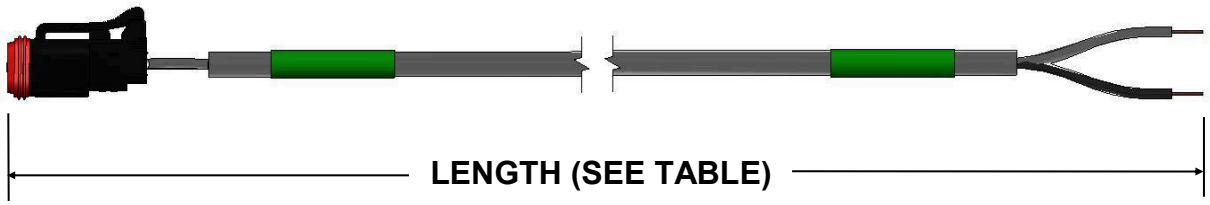
Length Code	Length (Feet)
24411-10	10
24411-25	25
24411-50	50
24411-99	99

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STRIKE™ LEADS CONTINUED

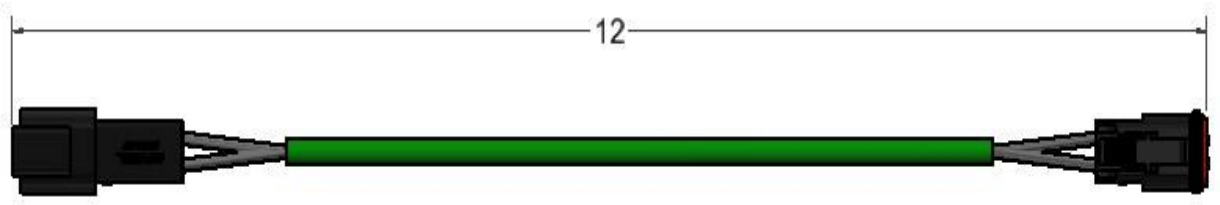


Manual Pull Station Lead P/N: 24412-XX

Manual Pull Station Lead Cables are used to connect a Manual Pull Station to the STRIKE Control Unit in the manual pull circuit only. Color coding (green) can be found on each cable end. Various lengths of this cable are available as shown in the table.

Detection Extensions and Detection Leads can also be used to connect to a pull station however the shorter connector length on the manual pull stations assists with making the connection in the conduit box.

Length Code	Length (Feet)
24412-05	5
24412-25	25
24412-50	50
24412-99	99



LHD Test Lead P/N: 24527-P010

LHD Test Leads provide a means of functionally testing detection circuit(s) that use LHD detection devices. These sacrificial leads are inserted in the detection circuit in place of the actual LHD (already installed) and can be subjected to set point temperatures to verify that the STRIKE Control Unit responds properly. This is accomplished by the wires within the detection line shorting once the insulation between them melts. These devices can then be removed from the circuit and properly disposed. LHD Test Leads are 12” long and supplied in bags of 10 leads.

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STRIKE™ MANUAL PULL STATIONS



P/N: 24168



P/N: 24290

Amerex offers two Manual Pull Stations for use with the STRIKE™ System. Manual Pull Stations are used to manually activate the STRIKE™ Control Unit from a remote location when a fire condition is observed. The Manual Pull Station contains a normally open internal switch that closes and locks when pulled. A Lock Pin and Tamper Seal are provided and prevent accidental pulling of the station. Two versions of the Manual Pull Station are available depending on the mounting configuration desired. A flush mount option (P/N 24168) is recessed into the mounting wall and features a red cover plate. A surface mount option (P/N 24290) features a red cover cup. Both versions utilize an included octagonal outlet/conduit box to house the Manual Pull Station electrical connectors.

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STRIKE™ EXTENSIONS



Detection Extension P/N: 24410-XX

Detection Extension Cables are used as an extension between individual detection devices connected in series. Color coding (green) can be found on each cable end. Various lengths of this cable are available as shown in the table. Maximum Detector circuit length is a total of 100'.

Length Code	Length (Feet)
24410-03	3
24410-05	5
24410-10	10
24410-25	25



Manual Pull Station Extension P/N: 24413-50

Manual Pull Station Lead Cables are used to connect a Manual Pull Station to the STRIKE™ Control Unit in the manual pull circuit only. Color coding (green) can be found on each cable end. This cable is available at a length of 50 feet. Maximum Pull Station circuit length is a total of 100'.

Detection Extensions and Detection Leads can also be used to connect to a pull station however the shorter connector length on the manual pull stations assists with making the connection in the conduit box.

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STRIKE™ RELAY MODULES



P/N: 24694



P/N: 24695

Relay Modules are used to control external 110-220 VAC devices in the event of an alarm condition or loss of power. These modules are controlled by and connected to the auxiliary outputs (TB2) of the STRIKE™ Control Unit and contain electrical terminals for AC power and external devices. These modules are surface mounted to a wall and consist of a stainless steel housing with a hinged cover for internal access and (4) 3/4" electrical knockouts for all associated wiring.

Relay Modules feature an AC power indicator LED and an internal relay (Relay #1) with manual reset button for connection to an Electric Gas Valve. In the event of a STRIKE™ Control Unit alarm condition or AC power failure, this relay will electrically close the associated gas valve, preventing gas flow to a connected appliance. The gas valve may then only be opened by manually resetting the Relay Module by pressing the reset button located on the module face. Two versions of Relay Modules are available as follows.

The Gas Valve Relay Module (P/N 24694) contains the single gas valve relay and manual reset only. When using this relay, there will be two available contacts (N/C or N/O) on the STRIKE™ TB2.

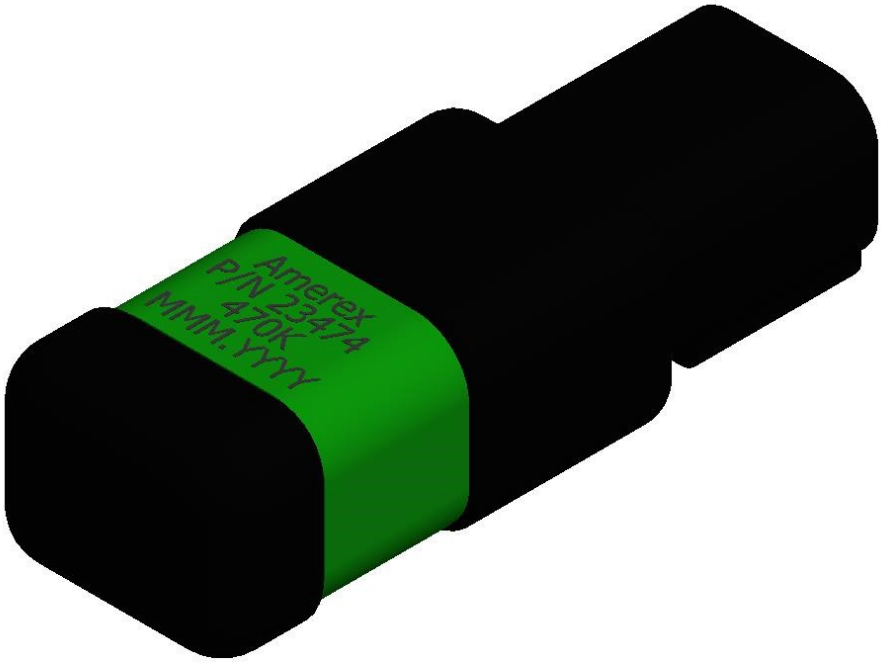
The Control Relay Module (P/N 24695) contains two additional relays (Relay #2 & #3) for control of external AC powered devices, in addition to the gas valve relay and manual reset. Refer to the STRIKE™ Manual for additional wiring instructions.

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END OF LINE MODULE (EOL)



P/N: 23474-P003

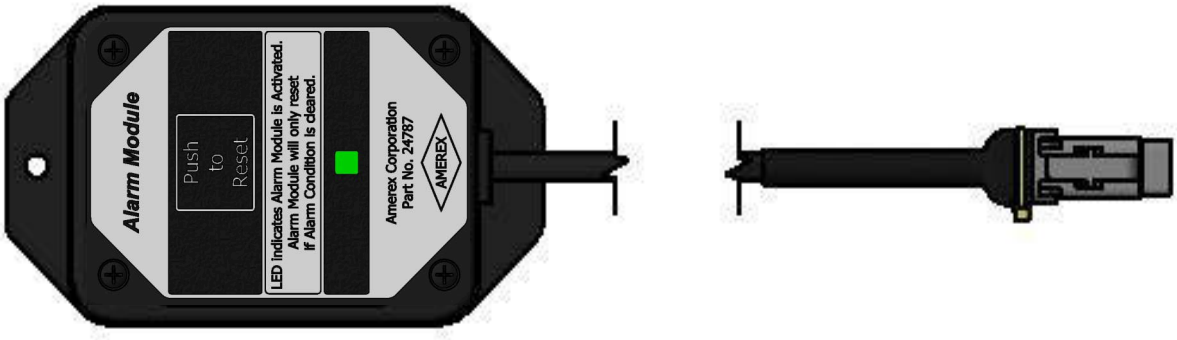
The End Of Line Module (EOL) is utilized to supervise circuitry and installed on the end of the Class B detection circuits and manual pull circuit. The device provides a continuous electrical circuit allowing for supervision of the normally open detection network. Three EOL modules are supplied with each STRIKE™ Control Unit: two for detection circuits and one for the manual pull circuit. The EOL is color coded green.

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ALARM MODULE



P/N: 24787

Alarm Modules provide a means of functionally testing actuation circuits. These devices are installed at the end of the actuation circuit, in place of a Linear Actuator, when performing function testing or required maintenance. These devices contain an LED indicator which illuminates when the actuation circuit is activated and can be manually reset afterwards by pressing the 'Push to Reset' button. Color coding (yellow) can be found on the cable end.

The Alarm Module takes a 9V battery. If no red LED comes on during testing of the STRIKE panel firing please change the battery inside the alarm module.

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LHD / PULL STATION CIRCUIT TEST SWITCH



P/N: 24172-P001

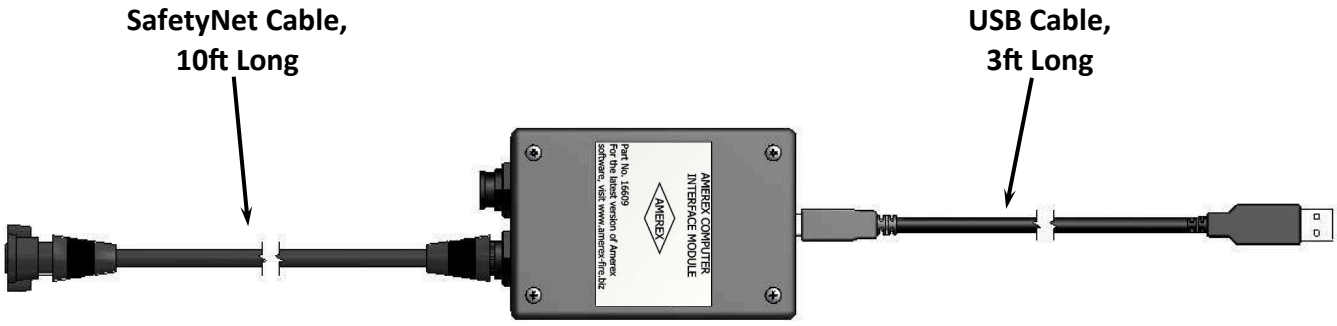
Easily test the detection or pull station circuit by using this reusable micro-switch. It can be swapped between systems and lasts indefinitely. This simulates either the LHD or spot detector detecting a fire or the pull station being pulled.

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PC INTERFACE CABLE



P/N: 16609

The PC Interface Cable is used with the STRIKE™ PC software to program a system configuration, view Monitor Mode, or download the Event Log on the STRIKE ECS. The cable connects the PC Interface Port on the STRIKE™ Control Unit to the USB port of a laptop computer or PC. The latest version of STRIKE™ PC software is available on and can be downloaded from the www.Amerex-fire.biz website or contact KP@amerex-fire.com.

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BATTERY



P/N: 24903

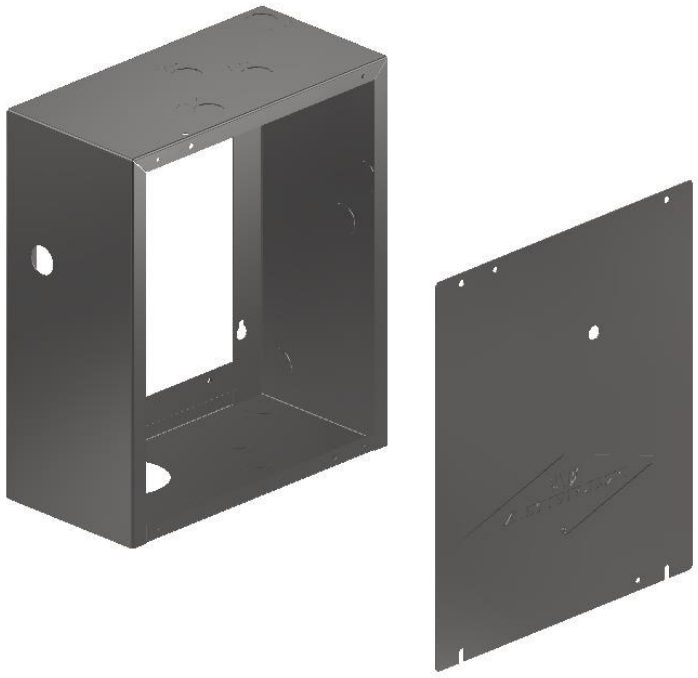
The STRIKE™ Control Unit requires two batteries (2 x P/N 24903), a primary and secondary, which are capable of sustaining normal operating condition of the electronics for up to 6 months, after which a Replacement Battery is required. These additional Replacement Batteries are supplied with a battery identification label which displays the Amerex part number, serial number, and battery description. An additional battery replacement label is also supplied with each battery and must be populated and applied during installation of a Battery. The Replacement Batteries are UN/DOT compliant for shipping purposes and must be stored in a clean, cool (86ºF/30ºC max), and dry environment. Replacement battery shelf life is a maximum 10 years.

Available as singles (P/N 24903) or in bulk (P/N 24903-P010)

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MRM ENCLOSURE



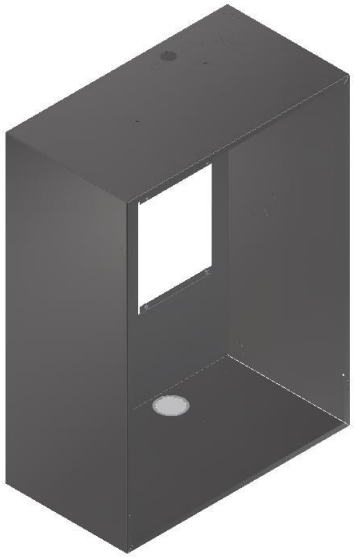
P/N: 13393

Replacement enclosure for the MRM. For secure mounting of the MRM. Knockouts are provided for installation of all external devices. Viewports for system status indicator and external inspection of nitrogen actuation cylinder are provided.

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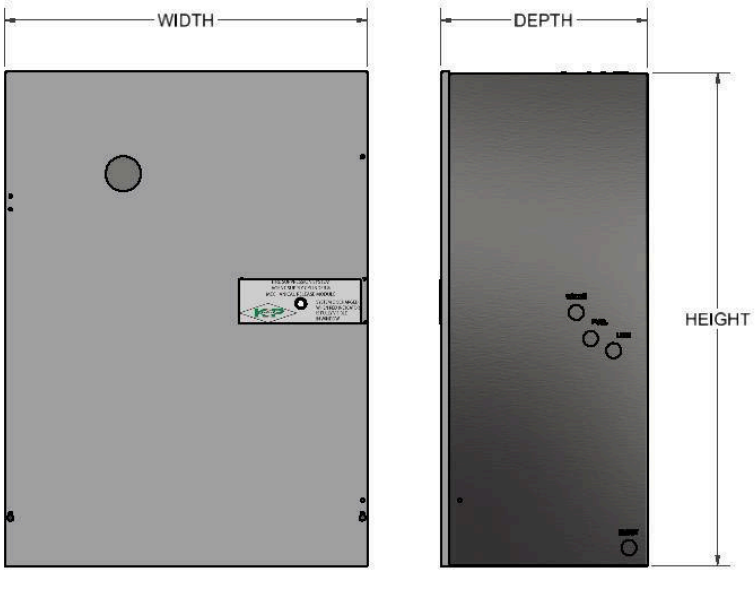
SINGLE TANK / MRM ENCLOSURE





P/N: 11978

Stainless steel cabinets are available for single cylinder systems. The cabinet will house one model 275 or 375 Agent Cylinder Assembly, the required agent cylinder mounting bracket (P/N 16920) required and a Mechanical Release Module (P/N 11977) which are purchased separately.



P/N 11978	U.S.	Metric
Width	20 1/2”	52.07 cm
Depth	10 3/4”	27.3 cm
Height	26 1/4”	66.68

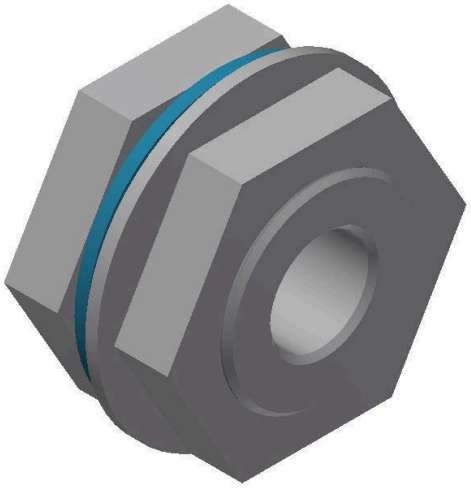
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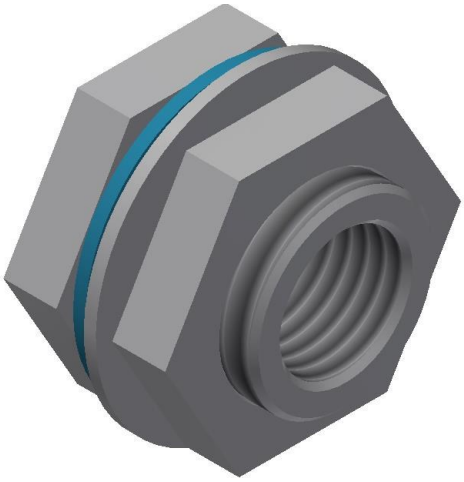
QUICK SEAL ADAPTERS

P/N: 12276



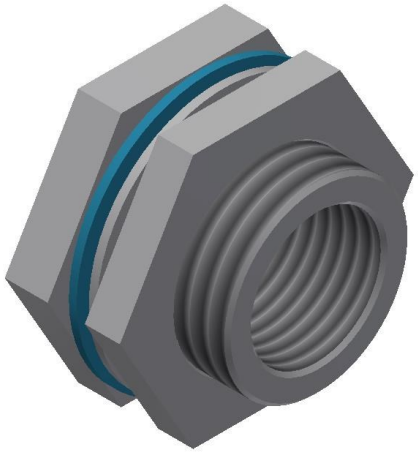
3/8” pipe—HOLE SIZE 1 1/8” DIA.

P/N: 14204



1/2” pipe —HOLE SIZE 1 1/8” DIA.

P/N: 18252



1” pipe—HOLE SIZE 1 5/8” DIA.

These listed mechanical bulkhead fitting produces a liquid tight seal around distribution piping where the piping penetrates hoods or ducts.

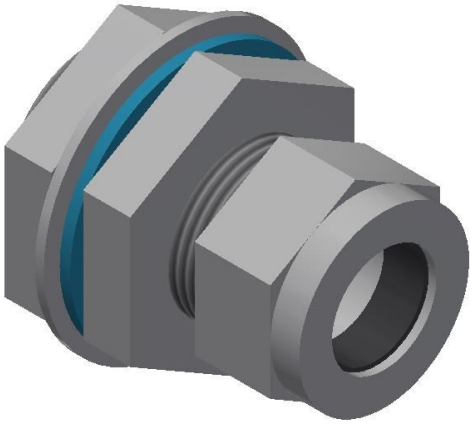
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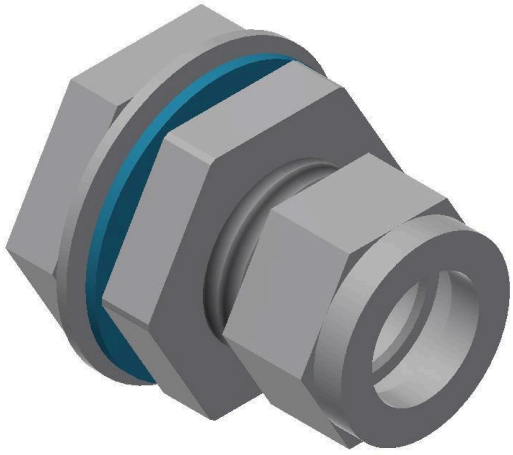
COMPRESSION SEAL ADAPTERS

P/N: 12510



3/8” pipe—HOLE SIZE 1 1/8” DIA.

P/N: 12512



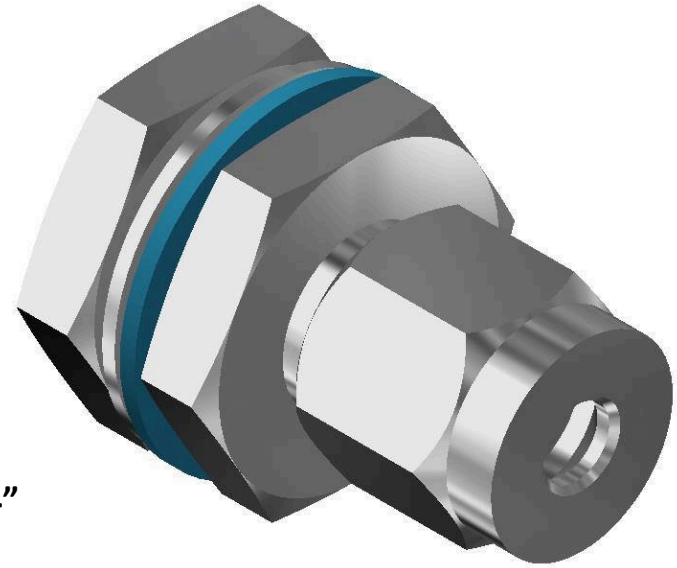
1/2” EMT—HOLE SIZE 1 1/8” DIA.

The compression seal adapters are “listed mechanical bulkhead” fittings that produce a liquid tight seal around pipe or conduit when making penetrations in a hood or duct. Unlike the quick-seal adapter, the compression seal adapter is not threaded to accept pipe and does not require conduit or pipe to be cut or threaded. It is available in 3/8” and 1/2” sizes.

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LHD BULKHEAD QUICK SEAL



HOLE SIZE 3/4”

P/N: 24737

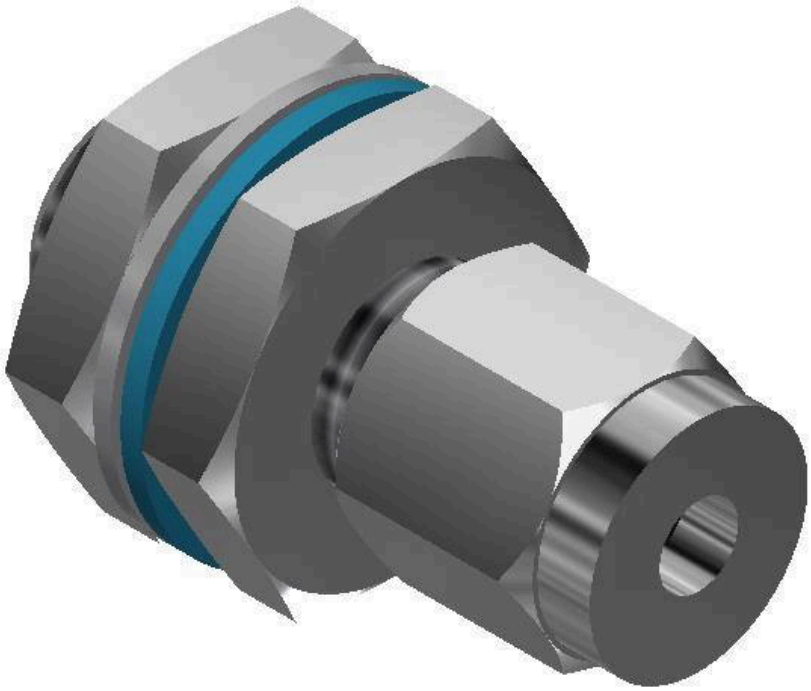
When using an LHD for detection, a grease tight seal must be used anywhere the LHD penetrates a bulkhead such as a hood, plenum or duct wall. An LHD Quick-Seal is provided to accomplish this and allows the uninstalled connector end of an LHD to be passed through the bulkhead from the outside in and then sealed afterward. Use of this seal requires a Ø3/4” hole to be drilled through the bulkhead. The assembly contains a seal, lock washer, and jam nut for installation into a bulkhead and also contains a compression nut that creates a grease tight seal around an LHD when tightened.

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QUICK SEAL COMPRESION FITTING



P/N 16502 - 1/4” Tubing - HOLE SIZE 3/4” DIA.

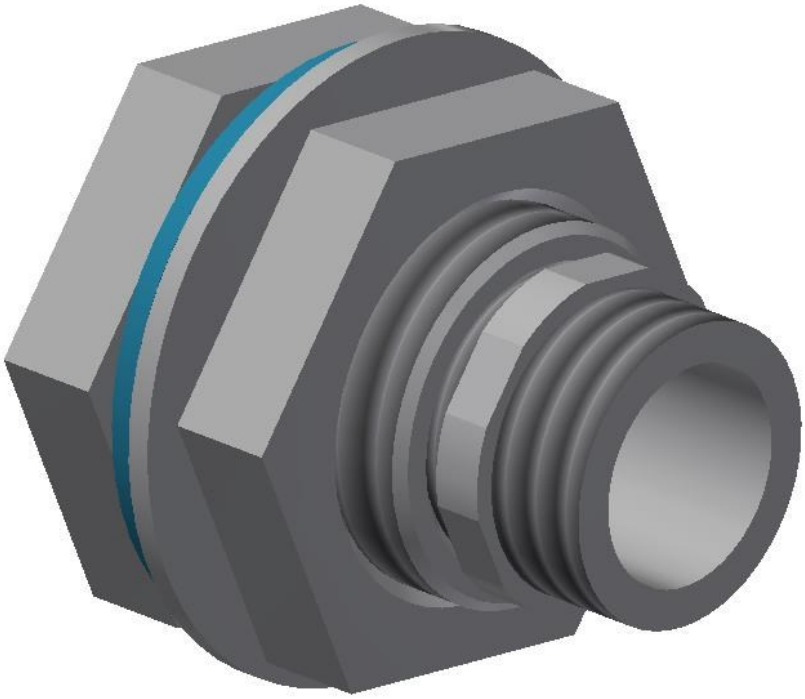
This listed mechanical bulkhead fitting produces a tight seal around the PRM detection tubing where the tubing penetrates the hoods.

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QUICK SEAL CORNER PULLEY ADAPTER



P/N 22279 - EMT THREAD - HOLE SIZE 1-1/8” DIA.

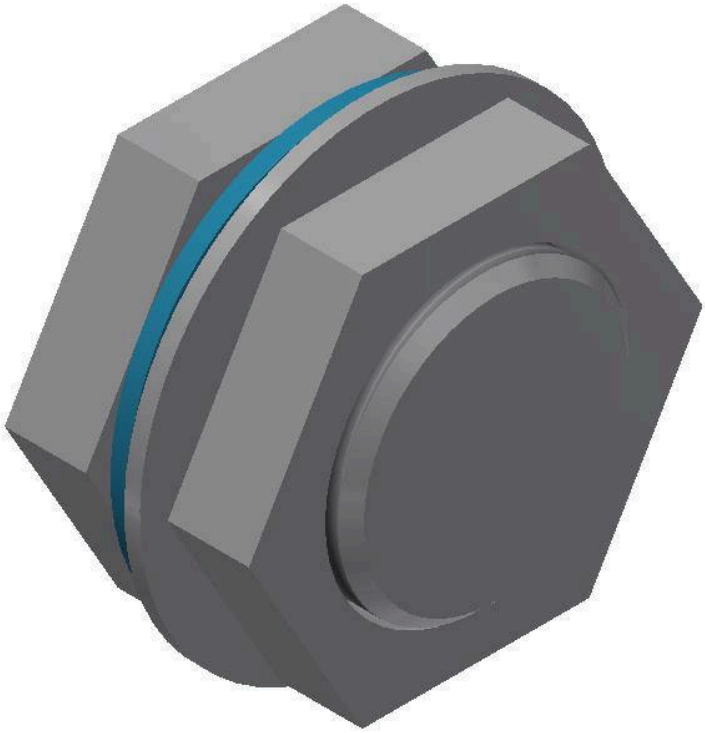
This listed mechanical bulkhead fitting provides a close connection to a CP5 corner pulley. The close coupling of the two assist in alignment of the conduit run to a detection bracket.

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QUICK SEAL HOLE PLUG AND SEAL



P/N 22280 - SEALS HOLE SIZES 1-1/8” TO 1-3/8” DIA.

This listed mechanical bulkhead fitting produces a liquid tight seal around the detection tubing where the tubing penetrates the hoods.

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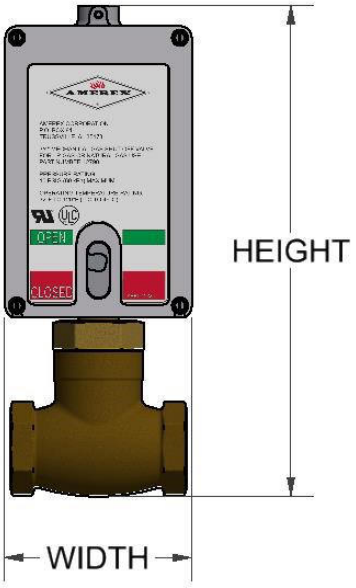
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MECHANICAL GAS SHUT-OFF VALVE



All Amerex Kitchen Fire Suppression Systems protecting gas-fired cooking appliances must use a gas shut-off valve listed for use with the system. The Amerex Mechanical Gas Valves are held open with a latching device. Upon system discharge a piston in the MRM, PRM, or SRM will pull on a cable connected to the latch in the gas valve actuation box, releasing the latch and allowing the gas valve spring to close the valve. These valves are considered to be "Pull to Close" valves. The valve bodies are made of brass and threaded with female NPT threads on both ends and are UL listed for natural gas and propane in ¾", 1", 1¼", 1½", and 2" sizes. The Gas Trip Assembly (P/N 12740-P001) is included with all Amerex Mechanical Gas Valves. Non-Amerex gas valves larger than 2" are available.

If spare parts are needed, Cover Enclosure (P/N 12772-P001) and the #8-32 Hex Screw (P/N 12550-P012)



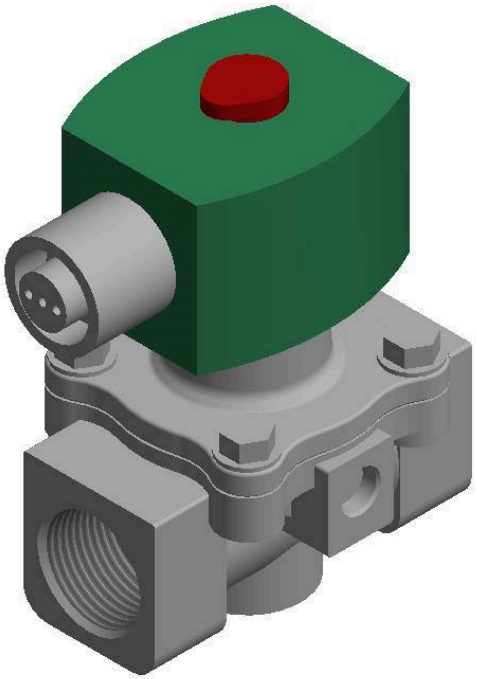
Part No.	Size	Height	Width	Pressure
12790	3/4 in	10 5/16 in (26.2 cm)	3 3/4 in (9.525 cm)	10 PSIG (69 kPa) Max
12791	1 in			
12792	1 1/4 in	11 9/16 in (29.369 cm)	4 7/8 in (12.383 cm)	
12793	1 1/2 in			
12794	2 in	12 1/2 in (31.75 cm)	6 in (15.24 cm)	

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ELECTRIC GAS SHUT-OFF VALVE



Part No.	Size	Manufacturer
12870	3/4 in	ASCO
12871	1 in	
12872	1 1/4 in	
12873	1 1/2 in	
12874	2 in	
12875	2 1/2 in	
12876	3 in	

Electric Gas Shut-Off Valves operate on 110 VAC current which powers a solenoid holding the valve open against a spring. Upon system actuation, current to the solenoid is interrupted by a micro switch in the MRM or PRM causing the valve to shut. A loss of electrical power will also cause an electrical gas valve to close. A Manual Reset Relay must be used with each electric gas valves. UL listed sizes are ¾", 1", 1¼", 1½", 2", 2½", 3".

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MANUAL RESET RELAY



P/N: 12526

Anytime an electrical gas valve is connected to an Amerex Kitchen Fire Suppression System, a Manual Reset Relay must be used. After an electrical gas valve has closed (either because of system discharge or because of power failure), the gas valve cannot be opened without manually pressing the reset button on the Manual Reset Relay. This operation is to guard against a momentary loss of power closing the valve, extinguishing the pilot lights and allowing gas to escape when power is restored. All Reset Relays are UL listed and have a pilot lamp to indicate their status.

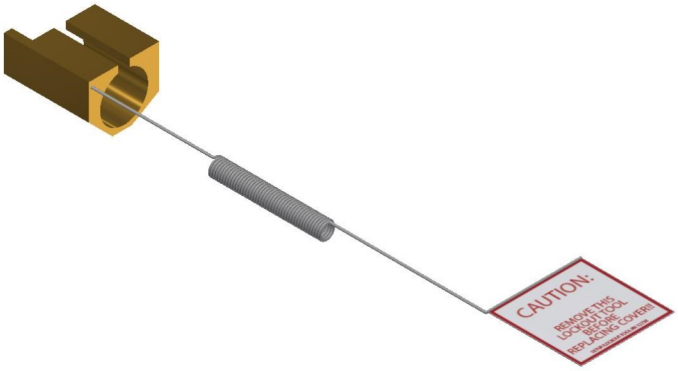
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MRM RESET TOOLS

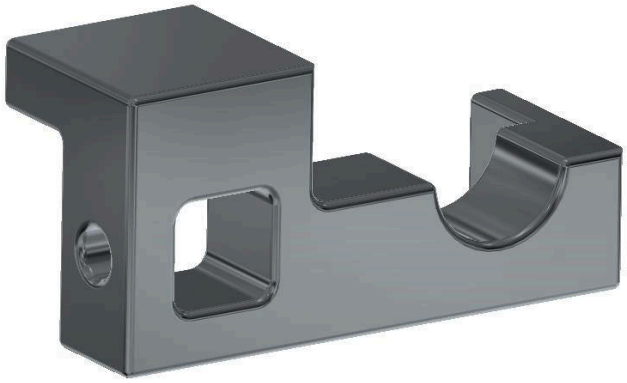
Setup / Lockout Tool



P/N: 12738

The setup and lockout tool is to be used on the MRM/PRM to prevent accidental actuation of the system during setup or maintenance. To use set-up/lock-out tool over the manual pull cam housing until it rests against the outside edge of the link plate. Draw tension on to the cable through the connector until the link plate is drawn against the set-up tool, then tighten the set screw on the connector. Remove the set-up tool and raise the tension bar to test cable run.

Cocking Tool



P/N: 13341

Use the Amerex Cocking Tool, in conjunction with a 3/8” drive socket wrench and extension, re-cock the Collapsible Column on the MRM or PRM. This is accomplished by simultaneously pushing in on the Lock Spring while turning the Cocking Tool counterclockwise.

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KP 275/375/475 ADAPTERS

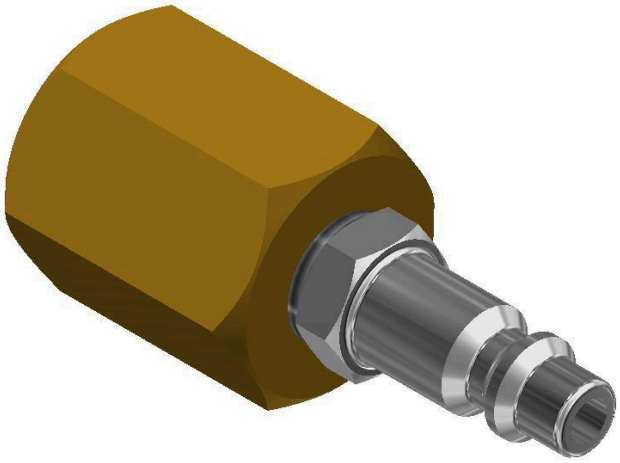
Recharge Adapter



P/N: 12855

In order to recharge KP 275/375/475 cylinders, attach the recharge adapter to the top of the discharge valve and pressurize the cylinder using nitrogen to 240psi.

Fill Adapter



P/N: 09492

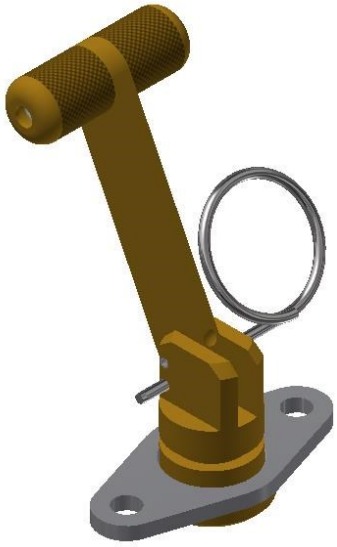
In order to recharge KP 275/375/475 cylinders, attach the recharge adapter to the valve discharge port after it has been confirmed that all pressure has been relieved form the cylinder and the valve and stem assembly has been properly inspected.

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KP600 ADAPTERS

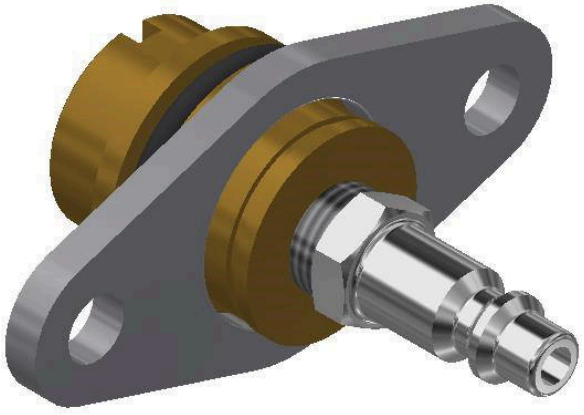
Recharge Adapter



P/N: 10134

In order to recharge KP 600 and IS cylinders, attach the recharge adapter to the top of the discharge valve and pressurize the cylinder using nitrogen to 240psi.

Fill Adapter



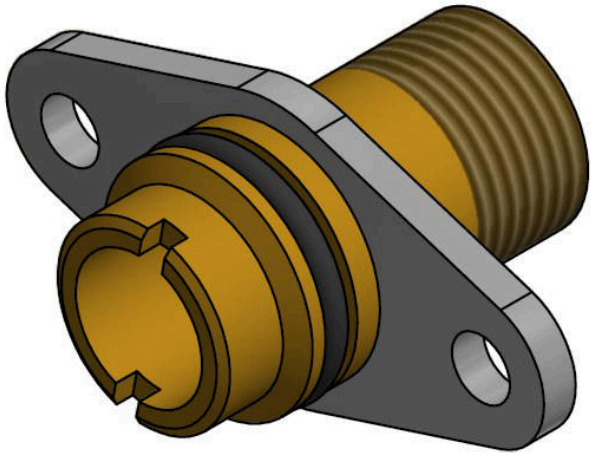
P/N: 10136

In order to recharge KP 600 cylinders or IS Cylinders, attach the recharge adapter to the valve discharge port after it has been confirmed that all pressure has been relived form the cylinder and the valve and stem assembly has been properly inspected.

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DISCHARGE FITTING KIT KP600



P/N: 10199

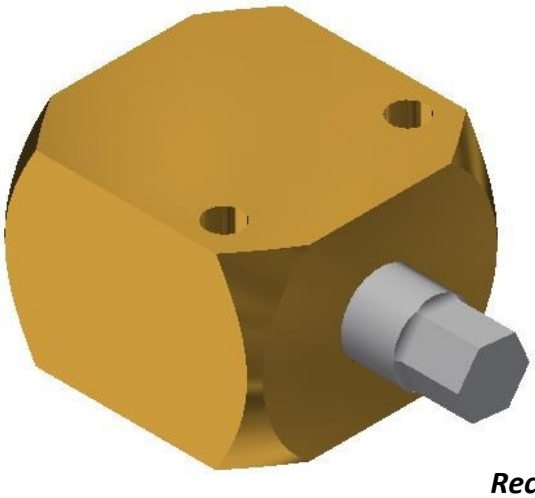
The discharge fitting kit consists of a brass fitting with an o-ring on one end, ¾ NPT male pipe threads on the other and a stainless steel flange for locking the fitting into place. One discharge fitting kit is required for each KP600 Agent Cylinder Assembly.

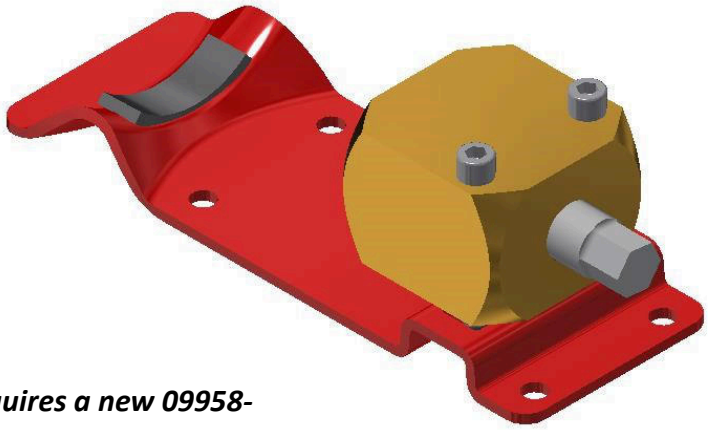
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NITROGEN CYLINDER RECHARGE ADAPTERS





Recharge requires a new 09958-P001 or P006 Safety Disc shown on the Nitrogen Cylinder Sheet.

P/N: 10270

The Nitrogen cylinder recharge adapter was made to recharge nitrogen cylinders (P/N 12856 / 09956) by authorized distributors. A replacement safety disc/cap assembly is also required.

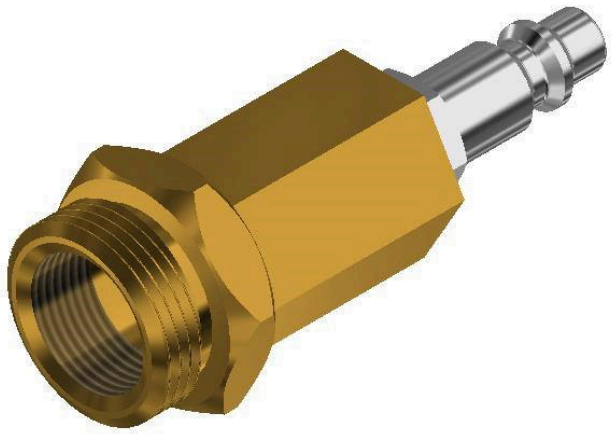
P/N: 13430

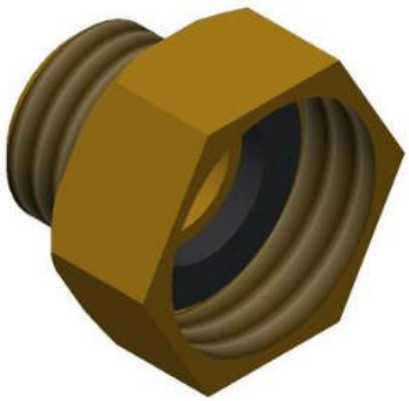
The Nitrogen cylinder recharge adapter with bracket was made to recharge nitrogen cylinders (P/N 12856 / 09956) by authorized distributors. The bracket is for ease of recharging. A replacement safety disc/cap assembly is also required.

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ACTUATION NETWORK AND FLUSH ADAPTER





P/N: 10895

The Actuation Network Adapter can be used in conjunction with an outside regulated source of nitrogen into the MRM or the PRM for testing of an agent distribution network.

P/N: 13690

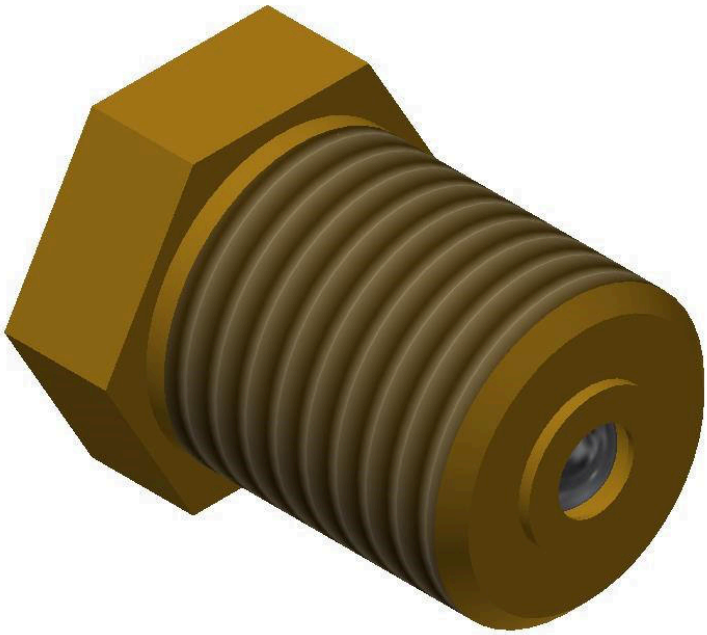
The Agent Flush Adapter Kit is used to connect a water source to the agent network to flush piping after a system discharge.

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VENT PLUG



P/N: 10173

The vent plug is required in the system actuation network to allow a means of relieving pressure in the actuation piping after a system discharge, and to prevent a slow build-up of pressure in the actuation line.

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120 VAC HORN & STROBE



P/N: 21396

The Horn & Strobe Assembly is provided for use when visual and sound warnings are required at system actuation. The unit requires the use of a 4” square (10.16cm sq.) x 2 1/8” (5.5cm) deep back-box with ½” conduit entrance on the top of the box. This device is to be used with 120 VAC power supply and may be used inside or outside. Refer to installation and setup instructions supplied with each unit.

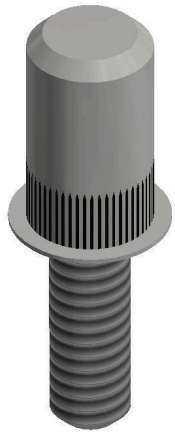
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GREASE TIGHT KITCHEN FASTENERS

P/N: 20535-P010



The rivet type stud is a ¼–20UN–2A threaded stud with approximately 3/4" of length. This device may be used for mounting detector brackets, conduit fasteners, PRM clips, pipe hangers, etc. Attach devices to the stud using a standard ¼-20UN nut and lock washer. Rivet studs come 10 to a bag. UL listed.

P/N: 20536-P010



The rivet type nut is tapped ¼–20UN–2B with approximately 3/4" of length. This device may be used for mounting detector brackets, conduit fasteners, PRM clips, pipe hangers, etc. Attach devices to the tapped blind rivet using a standard ¼-20UN bolt or screw and lock washer. Rivet nuts come 10 to a bag. UL listed.

P/N: 24832-P024



Quik-Fasteners are available for securing LHD Support Clips to a sheet metal mounting surface. These fasteners are supplied 24 to a bag along with a pilot drill bit for easy installation using a hand drill (capable of 2000-3500 rpm) with a 10 mm hex driver. These fasteners are self sealing. Installation instructions are provided with each bag. UL listed.

P/N: 20552

The Rivet Installation Tool Set Comes complete with mandrel and nosepiece for installing both studs and nuts. Instructions on set up and use of the tool are contained in the box with each tool. This is used for the installation of P/N 20535 & 20536.

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KP/IS SPARE PARTS KIT

Part No.	Description	Quantity
12352	Lockwire Seal (Green Replacement)	2
12386	KP Owners Manual	1
13110	Cable Termination Block	1
12744	Cable Termination Block Screws	3
12868	Warning Label WetSystems Equipment	1
13614	Plastic Wire Mount	3
13615	Wire Mount Instructions	1
19422	Cable Clamp Tie MRM/PRM	1
14293	Screw #10-32 x 3/8	1

P/N: 13323

The KP MRM Spare Parts Bag is the bag of parts that comes with the MRM (P/N 18001). It contains owners manuals, labels, cable termination block, etc.

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KP/IS SPARE PARTS KIT WITH PRM PARTS

Part No.	Description	Quantity
12733	Screw Tap #8-18 3/8 ST	6
13117	Screw Cap #10-32 1/4 ST	4
09137	Hex Nut 1/4-20 ST	2
12778	Ring Retaining .05 X .875	2
12550	Screw Hex #8-32 5/16 SL ST	6
12744	Screw Set #10-32 1/4 SS	8
07247	Gasket Hose 1/2” (N2 cart. Seal)	2
13110	Cable Termination Piece	1
13390	Crimp Stainless Steel	2
13612	Cap Vinyl 1/2 Square—Red	2
13342	Connection Cable Gas Valve	2
16550	Plug Snap 5/8”	1
00158	Cap Air Valve	2
12352	Lockwire Seal (Replacement GR)	4
16555	Label Tubing Replace PRM	2
11263	Wire Grip Body Size 9	1
11264	Wire Grip Nut Size 9	1
16506	PRM End of Line Fitting	1

P/N: 14899

The PRM Spare Parts Kit contains various fasteners, screws, and connectors for PRM KP systems conveniently packaged in one kit.

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WARRANTY INFORMATION

Amerex KP/ZD Fire Suppression Systems are manufactured under the ISO Quality System and to ANSI/UL Standards. They are warranted for three (3) years. To protect the U.L. listing and to keep the warranty in effect you must use Amerex replacement parts.

Genuine factory parts are available to insure proper maintenance - use of other manufacturer's parts releases Amerex of its warranty obligations. Amerex parts have machined surfaces and threads which are manufactured to exacting tolerances. O-rings, hoses, nozzles and all metal parts meet precise specifications and are subject to multiple in-house inspections and tests for acceptability. The Amerex Warranty is voided by use of generic, off-the-shelf or substitute parts. DO NOT SUBSTITUTE!

Amerex Corporation does not install, service, maintain nor recharge KP/ZD Fire Suppression Systems. This Parts Book and the Amerex system service manuals are published as guides to assist qualified personnel in the proper selection of parts and the design, installation, maintenance and recharge of Amerex KP/ZD Fire Suppression Systems only. FAILURE TO USE AMEREX REPLACEMENT PARTS OR FOLLOW THE SERVICE MANUAL INSTRUCTIONS COULD CAUSE MALFUNCTION OF THE SYSTEM RESULTING IN SERIOUS INJURY OR PROPERTY LOSS.

WARRANTY AND LIMITATION OF LIABILITIES AND BUYER'S REMEDIES. Seller warrants that the Goods delivered hereunder shall be of the kind described in the within agreement and free from defects in material and workmanship under conditions of normal use for a period of three (3) years from date of purchase [except for: (A) High performance extinguisher - twelve (12) years; and (B) Halotron extinguisher - one (1) year]. Seller reserves the right to make any modifications required by production conditions to the information set forth in Seller's catalogues and advertising literature. Seller shall not be liable or responsible, however, for (A) any defects attributed to normal wear and tear, erosion or corrosion or improper storage, use or maintenance, or (B) defects in any portion or part of the Goods manufactured by others. If (B) above is applicable, Seller will, as an accommodation to Buyer, assign to Buyer any warranties given to it by any such other manufacturers. Any claim by Buyer with reference to the Goods for any cause shall be deemed waived by Buyer unless submitted to Seller in writing within ten (10) days from the date Buyer discovered, or should have discovered, any claimed breach. Buyer shall give Seller an opportunity to investigate.

Provided that Seller is furnished prompt notice by Buyer of any defect and an opportunity to inspect the alleged defect as provided herein, Seller shall, at its option and in its sole discretion either: (i) repair or replace the defective or non-conforming Goods PROVIDED THE ORIGINAL GREY LOCKWIRE SEAL IS INTACT AND/OR IF ONLY FACTORY PARTS HAVE BEEN USED TO SERVICE THE EXTINGUISHER.

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