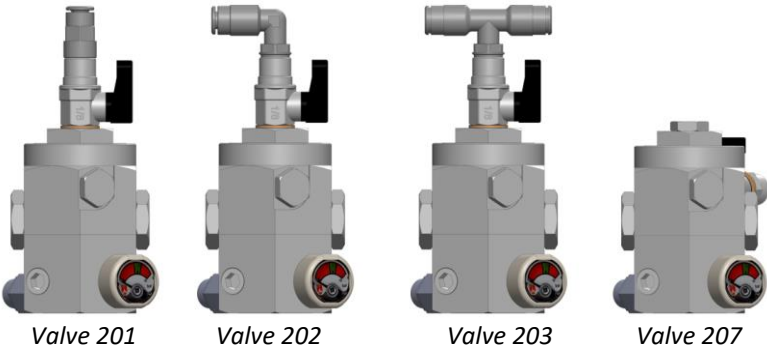
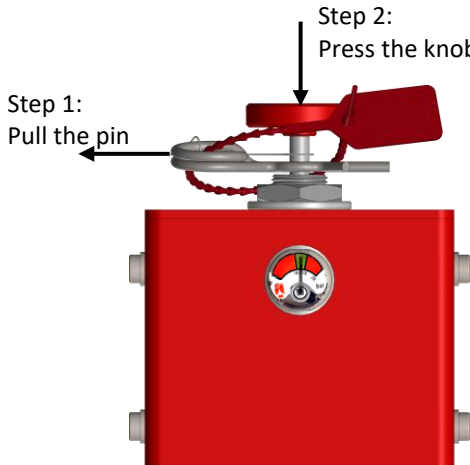
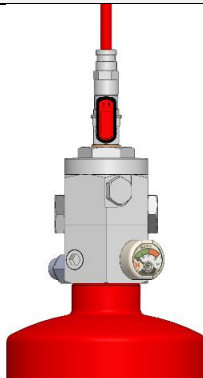


ILP LOP SYSTEMS – without a solenoid



Basic system	System with a manual actuator	System with pressure monitoring
IN CASE OF FIRE The system actuates automatically when fire or extreme heat is detected. Indications: <ul style="list-style-type: none">needle on the pressure gauge points to zeroBlazeTube is ruptured	IN CASE OF FIRE The system actuates automatically when fire or extreme heat is detected or triggered by a manual actuator Indications: <ul style="list-style-type: none">needle on the pressure gauge points to zeroBlazeTube is ruptured ormanual actuator is pressed	IN CASE OF FIRE The system actuates automatically when fire or extreme heat is detected. Indications: <ul style="list-style-type: none">needle on the pressure gauge points to zeroBlazeTube is rupturedconstantly lit RED light on the AAP310 andconstant beep for 120 seconds

FAULT STATES	FAULT STATES	FAULT STATES
<p>Indications:</p> <ol style="list-style-type: none">needle on the pressure gauge is in a red zone between zero and green zoneneedle on the pressure gauge is in a red zone between green zone and 28 <p>Reasons:</p> <ol style="list-style-type: none">low pressure in the systemhigh pressure in the system	<p>Indications:</p> <ol style="list-style-type: none">needle on the pressure gauge is in a red zone between zero and green zoneneedle on the pressure gauge is in a red zone between green zone and 28 <p>Reasons:</p> <ol style="list-style-type: none">low pressure in the systemhigh pressure in the system	<p>Indications:</p> <ol style="list-style-type: none">needle on the pressure gauge is in a red zone between zero and green zone rapid ORANGE FAULT flash 1x per 4 sec. on the AAP210 and beep 1x per 4 sec.needle on the pressure gauge is in a red zone between green zone and 28 rapid ORANGE FAULT flash 1x per 1 sec. on the AAP210 and beep 1x per 1 sec.constantly lit ORANGE FAULT light on the AAP210 and beep 1x per 2 sec. <p>Reasons:</p> <ol style="list-style-type: none">low pressure in the systemhigh pressure in the systemcomponent is disconnected orcomponent is faulty
WORKING ORDER	WORKING ORDER	WORKING ORDER
<p>Indications:</p> <ul style="list-style-type: none">needle on the pressure gauge is in a green zone <p>Reasons:</p> <ul style="list-style-type: none">all active components are working correctly and pressure in the system is optimal	<p>Indications:</p> <ul style="list-style-type: none">needle on the pressure gauge is in a green zone <p>Reasons:</p> <ul style="list-style-type: none">all active components are working correctly and pressure in the system is optimal	<p>Indications:</p> <ul style="list-style-type: none">needle on the pressure gauge is in a green zoneconstantly lit GREEN OK light on the AAP310 <p>Reasons:</p> <ul style="list-style-type: none">all active components are working correctly and pressure in the system is optimal

ACTUATION PROCEDURE		LOW VOLTAGE
	<div><div>Step 1: Pull the pin</div><div></div><div>Step 2: Press the knob</div></div>	<div>Indications:</div> <div></div> <div><div>▪ constantly lit GREEN, ORANGE and RED light</div></div> <div>Reasons:</div> <div><div>▪ the voltage has fallen below the minimum operational voltage of 9 V.</div></div>
		<div>OTHER STATES</div> <div>Indications:</div> <div></div> <div><div>▪ no light indication and sound indication</div></div> <div>Reasons:</div> <div><div>▪ the alarm panel could be without power or with a malfunction;</div><div>other unmentioned states.</div></div>
DAILY SYSTEM CHECKS		
<div>During inspection of pressure, the ball valve on the cylinder valve must be open to inspect pressure in the system correctly (like during regular operation of the system).</div> <div><div>1. Check the system pressure on the pressure gauge situated on the cylinder valve, on the end-of-line adapter or manual actuator.</div><div>2. Visually inspect the system: check for loose and/or damage to cylinder assembly, hoses, brackets, detection, wiring, nozzles etc.</div><div>3. Connection between the pressure switch/transducer and the alarm panel. (if used)</div><div>4. Connection between the pressure switch and a beacon or a siren. (if used)</div></div>		<div></div> <div>Open ball valve</div>

CLEANING AFTER SYSTEM ACTIVATION



During the cleaning process always wear appropriate protective glasses, breathing mask, suitable protective gloves and clothes.

Enter the protected area only after the system operation is finished.

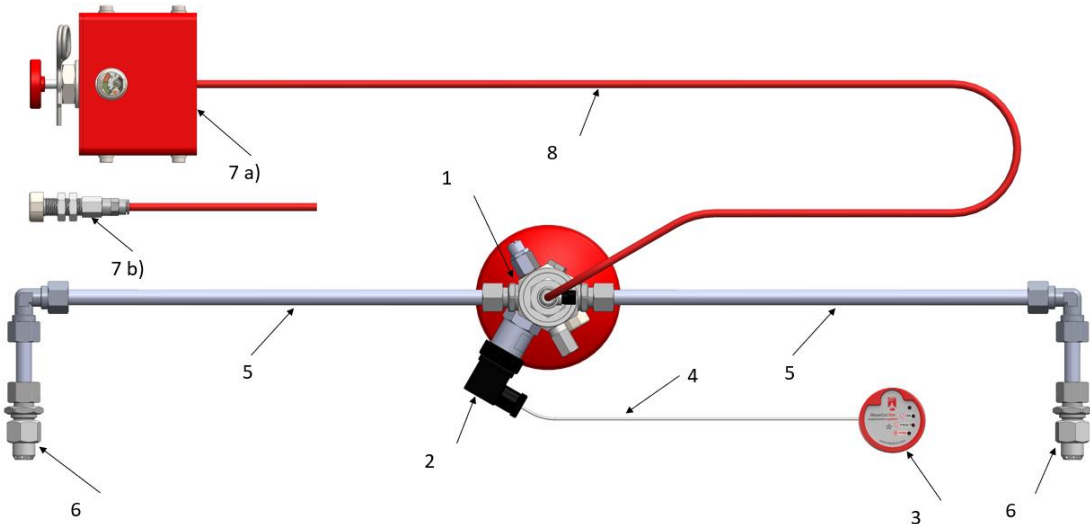
Unless absolutely necessary (e.g., fire is still present and it is necessary to use a portable fire extinguisher), enter the protected area only after it has been properly ventilated and cooled off and make sure that entry is safe.

HFC-227ea, FK-5-1-12	POWDER AGENT	FOAM AGENTS
Extinguishing agent does not leave residue. Ventilate the protected enclosure properly, do not interfere with or work in the area before ventilation.	After the system has activated clean the protected areas as soon as possible preferably by vacuuming the powder or by blowing the powder with air. Try to remove as much powder as possible from affected area to prevent the powder from absorbing moisture and causing corrosion on metal components.	After the system has activated clean the protected areas preferably by washing away the foam with water and allow everything to dry completely before turning the power back on.

SYSTEM OVERVIEW

System components:

1. Cylinder valve (view from above)
2. Pressure Switch/Transducer with a cable connector
3. *External device (e.g., Alarm Panel AAP210)
4. Electrical cables
5. Agent distribution network
 - a) steel tubing and fittings
 - b) Fire hose and fittings
 - c) combination of steel tubing and Fire hoses, fittings
6. Nozzles
7. End-of-line device or another cylinder
 - a) pneumatic remote actuator
 - b) End-of-line connector with a pressure gauge
 - c) cylinder without a solenoid – valve type 20x
 - d) cylinder with a solenoid – valve type 21x-01
8. BlazeTube detection



*Applicable only when the Pressure Switch/Transducer is installed.

Extinguishing system components and their layout depend on the specific application.