

PAFSS[®]

PNEUMATICALLY ACTUATED FIRE SUPPRESSION SYSTEMS



CNC Machines Automatic Fixed Fire Extinguishing Systems for CNC machines Issue 1

JacTone
CONFIDENCE through QUALITY

• U.K. MANUFACTURER • 

CNC Machines



Why choose PAFSS

There are many situations where dealing with a fire at source will both minimise the damage of valuable assets by extinguishing the fire early and before it more fully develops, enabling a quicker recovery of operations.

CNC machines can present a particular problem where unattended automatic machines, tool breakage and processing with potentially flammable lubricants / coolants increases the risk of fire. The range of Jactone PAFSS can offer you the protection required, building on many years of experience and technical knowledge acquired in the fire industry.

Jactone PAFSS can be tailored to customer requirements, but the following common features apply:

- ✓ Simple to install and cost effective to maintain.
- ✓ Superbly engineered specialist valves and pressure vessel(s) containing an appropriately selected extinguishing agent.
- ✓ Linear heat and flame detection allows for an unlimited number of detection points.
- ✓ Flexible detection tubing can be located adjacent to the identified fire risk areas, resulting in fast action.
- ✓ Detection tube remains unaffected by dirt, dust, debris and oil.
- ✓ Failsafe by design principles and simplicity.
- ✓ Totally self-contained. No need for any external energy or power supply for detection or actuation and remaining operational during power interruption.
- ✓ Reliable discharge – Novec 1230 systems are set to 15 bar working pressure.
- ✓ All discharge pipework is stainless steel – vital in potentially corrosive environments.
- ✓ Reliable, vibration resistant push-fit detection tube fittings – for enhanced system leak tightness.

Unique Features Include:

- ✓ Innovative Technology
- ✓ Compact Valves
- ✓ Integrated Functions
 - Isolation Valves
 - Reed Switches
 - Valve position monitoring
 - Discharge confirmation
- ✓ System Monitoring
 - Low pressure
 - Discharge confirmation
- ✓ Reduced possibility of damage and leakage





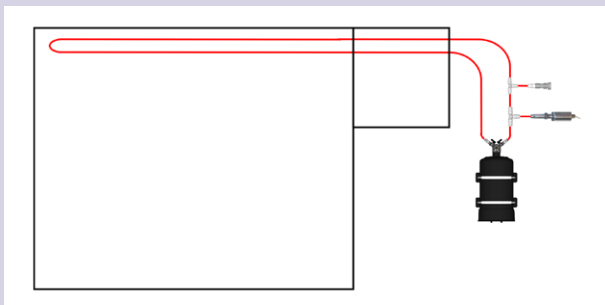
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Principles of Operation

The heart of any Jactone PAFSS is the special detection tubing which acts as a linear heat and flame detector, allowing for an unlimited number of detection points and fast action. The pressurised tubing is completely flexible and tough enough to withstand the harshest of conditions. Upon flame or heat impingement caused by a fire, the tube ruptures at the hot spot and in the case of direct systems, discharges the extinguishant directly onto the hazard. In the case of Indirect systems, tube rupture opens the cylinder valve and releases the extinguishant through separate pipework and nozzles which are aiming at the hazard area. Both DIRECT and INDIRECT systems are available in both low pressure and high pressure format, depending on the most appropriate extinguishant selected.

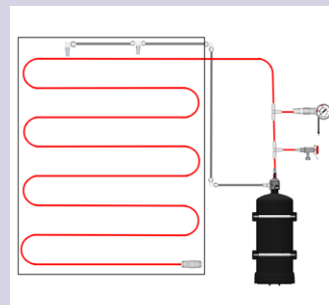


Direct Systems



- ✓ Multiple Compartments can be protected by one system.
- ✓ System size selection based on largest compartment to be protected.

Indirect Systems



- ✓ Single or Multiple Compartments can be protected by one system.
- ✓ System size selection based on total volume of all compartments to be protected by one system.
- ✓ Manual Release or Solenoid Actuation available.

Customer Options

- ✓ Extinguishants – Clean Agent – Novec 1230 (15 Bar Low Pressure System) or CO2 (HP System).
- ✓ Manual release – You can opt for operator activation via means of an additional manual actuator valve. In all cases this supplements automatic tube detection and actuation.
- ✓ Pressure switches / gauges to provide signals for system health and system discharge confirmation. (Note – CO2 systems can only be provided with system discharge confirmation via integral valve switch. System pressure monitoring for CO2 systems is not possible).


- ✓ Jactone Indirect PAFSS can also, if required, be integrated with traditional detection devices which, via suitable control panels, can operate a system solenoid valve and discharge the system. This can mean highly sensitive detection can lead to earlier discharge.



Jactone PAFSS complies with the requirements of the Pressure Equipment Directive (P.E.D. - 97/23/EC) and consequently carries the CE mark.

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- > Jactone PAFSS is manufactured in the UK 
- > PAFSS - On guard 24 hours a day, 365 days a year



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