

PistonFire II™ Suppressor

Explosion Protection System Components

Advantages:

- Non-explosive operation increases safety, and reduces storage, licensing, and transportation concerns.
- Up to five year initiator service life reduces maintenance costs.
- DOT approved, the suppressor is shipped fully pressurized, reducing installation time and cost.
- Meets new stringent requirements of NFPA 69
- Corrosion resistant valve body.
- Supervised, integral OSHA lockout/tag-out provision promotes safe entry into protected vessels.
- Supervisory low pressure switch continuously monitors suppressor nitrogen pressure.
- Innovative field-rechargeable design reduces service time, recharge costs and production downtime.
- Designed for use in hazardous locations; Class II, Div. I.
- Charged with food compatible KIDDEX® - Sodium Bicarbonate dry chemical suppressant.
- ATEX and FM approved.



Application

The Fenwal PistonFire II Suppressor is designed to discharge suppressant in milliseconds within a process vessel or to mitigate the propagation of flame through interconnected ductwork. It is used in conjunction with Fenwal's range of control panels and detectors.

Fenwal's sophisticated computer modeling techniques determine the quantity and size of suppressors to be used. These techniques predict reduced explosion pressures based on actual process conditions and detector settings.

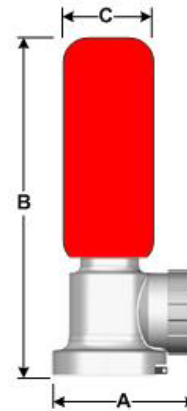
Description

The Fenwal PistonFire II Suppressor consists of a pressurized suppressant storage cylinder and a valve body that contains a dust-ignition proof, weatherproof NEMA enclosure. The NEMA enclosure houses the actuating mechanism, pressure switch, pressure gauge, fill valve, OSHA supervisory switch, and field wiring connections. The NEMA enclosure is completely sealed to ambient via screw cover and an explosion proof quick-disconnect connector for easy connection to field wiring. The OSHA supervisory switch prevents the arming of the explosion protection system when the OSHA lockout plate is installed. The OSHA lockout plate can be secured in place to the designated location on the PistonFire II housing. The pressure switch provides a trouble signal to the control panel if the suppressor pressure drops out of its proper operating pressure. Upon detection of an incipient explosion, the suppressor is sent an actuation signal. The actuating mechanism initiates the rapid release of the pressurized, dry chemical suppressant into the protected area within milliseconds.

Specifications

Construction:	Valve body: corrosion resistant materials including stainless steel and aluminum. Spun cylinder: painted carbon steel (red). Operating Plate: painted carbon steel (red)
Actuation:	Nonexplosive PF Initiator included with suppressor.
Operating Temperature Range:	-30°F to 140°F (-34°C to 60°C).
Operating Pressure Range:	700 to 1040 psig; nominal of 900 psig @ 70°F.
Approvals:	ATEX and FM approved.

Dimensions



Model	A (in.)	B (in.)	C (in.)
PFII-1000	12.0	23.5	5.5
PFII-2000	12.0	30.1	8.0
PFII-3000	12.0	40.8	9.0

Ordering Information

Part Number	Description	Net Weight (lbs.)
32-500005-001	PFII-1000 PistonFire Suppressor (8.8 lbs. of agent)	77
32-500006-001	PFII-2000 PistonFire Suppressor (23.8 lbs of agent)	118
32-500007-001	PFII-3000 PistonFire Suppressor (47.6 lbs of agent)	168
06-220306-001	Cable Assembly - Class II, Division I Locations	2
06-237129-001	PFII Lifting Strap	2
32-094053-020	PistonFire Reconditioning Kit with Pressure Switch	5
32-099932-030	PF II Initiator	< 1

Fenwal is a registered trademark of Kidde-Fenwal, Inc.

This data sheet is provided for information purposes only. Actual performance is based on proper application by a qualified professional.

