CONTROL VALVE ACCESORIES

Model AGPS24

Threaded 2-way solenoid



PRODUCT DESCRIPTION

Solenoid Valves are two-way, pilot operated valves that are listed/approved releasing devices for Ag Fire Sprinkler Deluge and Preaction Systems utilizing electric detection. The solenoid valves are used in conjunction with a listed/approved releasing control panel, operated by listed/approved electric heat or smoke detectors. The releasing control panel must have a supervised releasing circuit and back up batteries (60 hour for UL and 90 Hour for FM compliance). The system will not operate with a total loss of power so inspection and Maintenance of the battery charging function of the control panel is required.

TECHNICAL DATA

Model	**AGPS24**
Nominal size	½"
Factor C_V	4.0
End connection	Threaded ½" NPT F-F
Current/Voltage	0.41 Amp / 24VDC
Power	10W
Working pressure range	AGPS24-175: 20psi to 175psi (1.4bar to 12bar) AGPS24-250: 20psi to 250psi (1.4bar to 17.2bar)
Operation position	Normally closed – Energize to open
Material	Brass body
Installation position	AGPS24-175: any direction AGPS24-250: vertical installation

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INSTALLATION

1.Check nameplate for the correct voltage and the installation and maintenance instructions enclosed with the valve.

2.Remove the plastic plugs, if the unit is not installed in the trim by the factory.

3.Solenoids may be installed in any position but the recommended installation is vertical, with the coil upright.

4.The solenoid must be wired in accordance with local and national electrical codes. Units located in hazardous areas are to be wired with the appropriate electrical fittings.

5.Ag Fire Sprinkler provides a strainer in the inlet water line (1/2") to restrict foreign matter from entering the solenoid valve.

6.Apply pipe joint compound sparingly to the male threads of the pipe only. Use Teflon tape carefully to prevent any tape from getting into the solenoid valve. Teflon tape can become lodged in the valve and cause it to malfunction.

7.Only wrench flats provided on the body should be used when tightening the valve. Never use the sleeve or enclosure as a lever.

The solenoid valve is normally installed on a supervised circuit and depending on the releasing panel, no EOL is required. Never jumper or short the solenoid circuit terminals.

INSPECTION, TEST AND MAINTENANCE

1.It is imperative that the system be inspected and tested in accordance with NFPA 25 and records maintained of the tests. The frequency of the testing may vary due to contaminated water supplies, corrosive water supplies, or corrosive atmospheres.

2.The solenoid valve should be operated at least once a month and checked for cracks, corrosion, leakage, and cleaned or repaired as necessary.

3.After maintenance the valve should be operated to insure it functions properly.

4.The solenoid valve should be replaced every seven years or less if corrosive conditions exist.

5.The diaphragms and seats must be inspected at least once a year to insure that they are in good condition. Replace if necessary.

6.If lubrication is required use high grade silicone grease.

7.Review the installation and maintenance information in the manufacturer's literature.

Caution: Do not expose plastic or elastomeric materials to any type of cleaning fluid. Parts should be cleaned with a mild soap and water.

The maintenance procedures are the following steps:

1.Disassemble the valve as per the manufacturer's instructions. Remove extraneous matter. Clean parts in a mild soap and water.

2.Examine surface of the plunger or diaphragm. Inspect orifices in the body, cover, and diaphragm for nicks or dirt.

3.Examine surfaces of the diaphragm or seal in contact with the main orifice. Clean if dirty or replace if damaged or worn.

4.Check all springs. If broken or damaged replace.

ORDERING INFORMATION

WORKING PRESSURE	CODE
175psi (12 bar)	VD3931034000
250psi (17.2 bar)	VD3931034001

Specify:

Model	
Operation position	
Quantity	
Working pressure	

The equipment presented in this bulletin is to be installed in accordance with the latest published Standard of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances whenever applicable.
This documentation is not contractual. AG Fire Sprinkler reserves the right to any kind of change without notice.

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