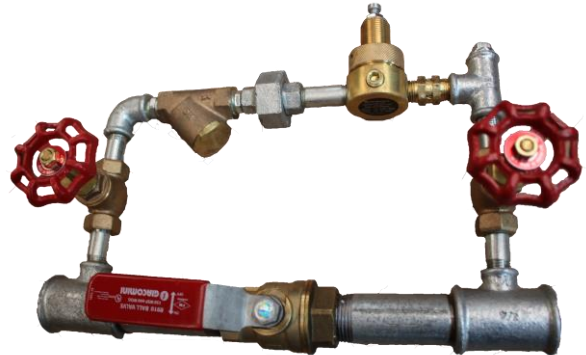


CONTROL VALVE ACCESORIES

Model AG-A2

Air maintenance device



PRODUCT DESCRIPTION

The Model A-2 Pressure Maintenance Device (PMD) is designed for use where a source of compressed air (plant air system, tank-mounted compressor with a pressure control, etc.) or nitrogen cylinder (equipped with a regulating device) is available.

The regulator in the model A-2 of AG Fire Sprinkler reduces higher pressure air or nitrogen to a level required by a dry pipe valve, dry pilot line, or a preaction system.

The model A-2 PMD will maintain a constant pressure in the system regardless of any pressure fluctuations from the compressed air or nitrogen source.

OPERATION

Basic functionality of components (refer to Figure 1):

The strainer's function (pos. 2) is to prevent any foreign matter that may be present in the air supply, from traveling to the regulator (Item 1) and the check valve (Item 3), thereby ensuring their normal operation.

The check valve's function is to prevent the reverse flow of water resulting from a dry pipe or deluge valve's operation, from reaching the regulator.

The globe valves (Item 4) allow for the servicing (if needed) of the strainer (Item 2) and regulator (Item 1) without having to shut down the sprinkler system.

The ball valve (Item 5) permits the rapid restoration (quick-fill) of the required system air pressure after service or operation. The ball valve (Item 5) must be closed and the globe valves (Item 4) must be open for proper automatic operation.

ADJUSTMENT

The pressure regulator (Item 1) is factory set to maintain a nominal system air or nitrogen pressure of 30 psi (2,1 bar). In order to change the outlet pressure, loosen the locknut at the top of regulator and turn the adjustment screw clockwise to increase pressure. To decrease the pressure, turn the adjusting screw counter clockwise.

The resulting pressure can be determined at the sprinkler system air gauge once the air flow through the device has ceased, or at the optional gauge location shown on Figure 1.

Note: The locknut of the regulator (Item 1) must be tightened after adjusting in order to prevent an accidental change in the pressure setting.

Adjustable Outlet Pressure Range: 5 psi to 100 psi (0.34 bar to 6.9 bar)
Maximum Inlet Pressure: 175 psi (12 bar).

COMPONENTS

All steel pipe fittings are galvanized.

POS.	DESCRIPTION	QTY.
1	Regulator 5-100 psi	1
2	Strainer 1/4" NPT	1
3	Check valve, 1/4"	1
4	Globe valve 1/4"	2
5	Ball valve 3/4"	1
6	Union 1/4"	1
7	Tee 3/4" x 3/4" x 1/4"	2
8	Nipple 3/4" x 90mm	1
9	Nipple 1/4" x 40mm	5
10	Elbow 1/4"	1
11	Nipple 1/4" x 30mm	2
12	Tee 1/4"	1
13	Plug 1/4"	1
14	Nipple 3/4" x 80mm	1

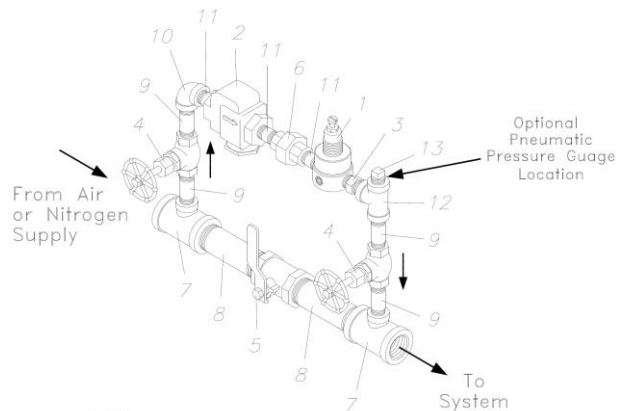


Figure 1.

ORDERING INFORMATION

MODEL	CODE
Air Maintenance Device A-2	VSMAA2

Specify:

Model	
Quantity	

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.