

# Kidde ADS

## Pressure Regulator

P/N: 38-509803-001



**Kidde Fire Systems**

A UTC Fire & Security Company

Effective: January 2012

**K-90-117**

### FEATURES

- **Factory Set Outlet Pressure of 116 PSIG (8 bar)**
- **For Use with Pneumatic 3-Way Directional Valve Operation**

### DESCRIPTION

This small, unique pressure regulator is used to reduce the pressure coming from the nitrogen pilot cylinder. The service pressure of the nitrogen pilot cylinder starts at 1800 PSIG at 70°F (124 bar at 21°C). Once the nitrogen pilot is discharged, the nitrogen pressure must be reduced between 100 to 150 PSIG (7 to 10 bar) in order to operate the pneumatic solenoid (P/N 06-118329-001). The pneumatic solenoid is mounted to the actuator of the 3-way ball valve. The pressure regulator is preset to release the nitrogen pressure thru the line to approximately 116 PSIG (8 bar).

### INSTALLATION

The pressure regulator is labeled with an inlet and an outlet; take note to the appropriate orientation prior to installing the regulator in the nitrogen line, down stream of the nitrogen pilot cylinder. Use the following procedure to install the pressure regulator:



**A pressure regulator must be installed in line from the nitrogen pilot in order for the pneumatic solenoid to operate properly. The pneumatic solenoid could be damaged if the manufacturer's maximum pressure recommendation of 150 PSIG (10.34 bar) is exceeded.**

1. Apply tape dope to the 1/4-inch NPT male threads of the inlet and outlet connections.
2. Secure pressure regulator to nitrogen pilot line, being sure the outlet is in line, upstream of the pneumatic solenoid.
3. It is recommended that the pressure regulator be mounted to a fixed structure to minimize vibration and to avoid damage to unit during discharge.

### MAINTENANCE:

**Monthly:** Inspect fittings and assembly for cracks, corrosion, grime, etc. Ensure that the fittings are tight and that the pressure regulator is tightly secured to the nitrogen line. If any defects are found during the monthly inspection, immediately contact a Kidde Distributor to service the systems.



### ORDERING INFORMATION

Part Number	Description
38-509803-001	Pressure Regulator

### SPECIFICATIONS

#### Materials:

<b>Body:</b>	Nickel Plated Brass
<b>Inlet Pressure Max:</b>	5150 PSIG at 130°F (355 BAR AT 54°C)
<b>Outlet Pressure:</b>	116 PSIG (8 bar)
<b>Safety Relief:</b>	145 PSIG (10 bar)
<b>Temperature Range:</b>	-20°F to 130°F (-29°C to 54°C)
<b>Weight:</b>	1.5 lb. (0.68 kg)

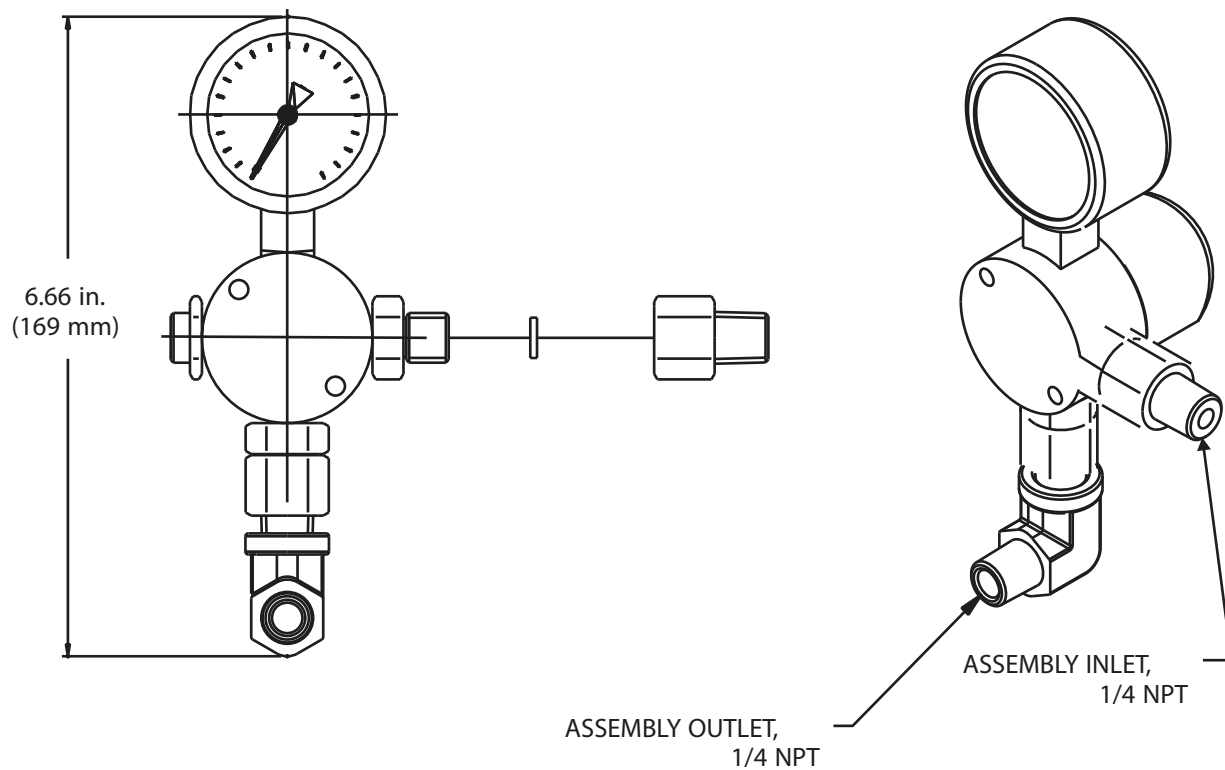


Figure 1. Pressure Relief Dimensions

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