

INSTALLATION

The FM-200 ADS Series installation is based on the requirements of NFPA 2001, *Standard on Clean Agent Extinguishing Systems*, Current Edition.

ASSEMBLY:

Both the nitrogen drivers and agent storage cylinders are to be installed in the vertical position only. The nitrogen driver is located to the immediate right apart from the agent cylinder (see Figure 1). The nitrogen driver cylinder is connected to the agent cylinder by using the nitrogen transfer components (two 1-in. nitrogen transfer hoses [P/N 06-118207-003] and a 3/4-in. NPT transfer fitting, see Figure 2). The 3/4-in. transfer fitting connects into the orifice fitting. The orifice fitting is a custom fitting that is designed to regulate the nitrogen pressure flow required for the specific system. The orifice fitting then connects into the nitrogen injector assembly to diffuse the nitrogen in a horizontal pattern.

ACTUATION:

The control head is attached to the master nitrogen driver by means of electric, cable, lever, or pneumatic devices. The actuating of the second nitrogen driver and agent cylinder is done upon transfer of nitrogen from the master driver cylinder using the actuation assembly kit (P/N 06-129985-001).

Assembly includes:

- Nitrogen Transfer Fitting
- 1/8-in. Flex Loop
- 1/8-in. Flare Fitting
- 1/8-in. Branch Tee
- 1/8-in. Schrader Fitting and Cap
- Pressure Operated Control Head
- 3/4-in. Nipple (Hex)

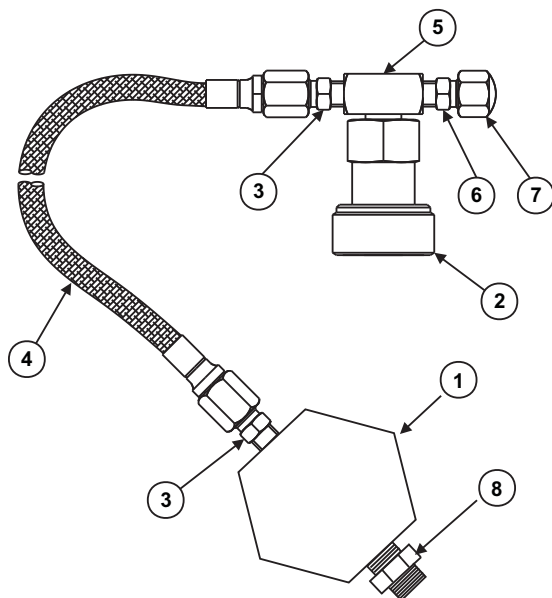


Figure 2. Nitrogen Transfer Components

MAINTENANCE

According to NFPA standards, the following inspection and/or maintenance procedure must be scheduled as listed below and performed upon the occurrence of any event, which might affect the reliability of the system.

QUARTERLY:

1. Check the weight of each agent storage container and the pressure of the nitrogen drivers.
 - Nitrogen driver if the pressure is less than 1800 PSI (124 bar) at 70°F (21°C)

Note: Pressure changes with temperature.

- The containers should be removed and carefully inspected by certified personnel.
 - The containers should then be reconditioned, recharged or replaced.
2. Check all components supporting hardware and tighten, repair or replace as required.
 3. Visually check all components for evidence of physical wear and tear and take whatever action is required. Replace any component that looks like it may be damaged or worn.

SEMI-ANNUAL:

The following checks/tests should be conducted by qualified personnel:

1. Determine the weight of FM-200 in each agent cylinder by the procedure indicated in the Design, Installation, Operation and Maintenance (DIOM) Manual (P/N 90-FM200M-030).
2. Functional tests of required system devices (reference the DIOM manual).
3. All outlet piping must be cleaned and free of dirt, chips and other foreign material that may become hazardous projectiles or cause the system to become inoperative or ineffective at the time of discharge.

Table 3. Nitrogen Transfer Components Descriptions

Item No.	Qty.	Part Number	Description
1	1	06-236260-001	Nitrogen Transfer "Y" Fitting
2	1	878737	Pressure Operated Control Head
3	2	06-118191-001	Fitting Flared 1/8" x 1/4"
4	1	06-118193-001	3/16" Flexible Actuation Hose
5	1	06-118192-001	1/8" Branch Tee
6	1	263303	1/8" Schrader Valve
7	1	263304	1/8" Schrader Valve Cap
8	1	06-118330-001	3/4" Nipple

