

Clean Agent Suppression Systems with Solenoid Actuated Valve

P/N 70-127-2



DESCRIPTION

The Slave Actuation Package consists of three core components; a pneumatic valve assembly, nitrogen cylinder, and mounting bracket assembly.

The Slave Actuation Package is used when multiple solenoid operated HFC-227ea containers are in a manifold style arrangement. The Master Actuation Package starts the clean agent discharge sequence. Each additional HFC-227ea container requires a Slave Actuation Package.

The Pneumatic Valve of the Slave Actuation Package is actuated when nitrogen pressure from the previous nitrogen cylinder of the manifold chain enters through the 1/8" NPT port on top of the actuator. Nitrogen pressure enters into the actuator chamber forcing the piston downward, thus piercing the disc of the nitrogen cylinder. The nitrogen pressure will actuate the HFC-227ea container it serves and if present, actuate the next Slave Actuator downstream of the manifold.

A maximum of five slave HFC-227ea containers can be operated from a single Master Actuation package, making the total number of containers in a manifold style arrangement to be six (6).

PNEUMATIC VALVE

The machined pneumatic valve body and main internal components are all constructed of 304 stainless steel. The minimum pressure required to operate the actuator is 48 barg.

Once actuated, the valve will automatically reset. The only component of the Slave Actuation Kit that needs replaced after a discharge is the nitrogen cylinder, and it is supplied in the HFC-227ea container valve Re-load Kits.

NITROGEN CYLINDER

The Slave Actuation Package comes equipped with a seamless 210 ml "sealed for life" nitrogen cylinder. The cylinder has a charge pressure of 157-176 barg and a net weight of 39 grams.

The nitrogen cylinder is a non-regulated pressurized cylinder and is not restricted cargo when shipped by ground, air, or rail transportation. The nitrogen cylinder has a 1/2"-20 UNF outlet and is threaded into the bottom of the pneumatic valve. When the piston chamber in the actuator is pressurized via nitrogen pressure, it is driven downward piercing the cylinder cap rupture disc allowing nitrogen to flow from the cylinder and to the HFC-227ea discharge valve. Nitrogen pressure is also routed to the next Slave Actuation Kit, if one exists downstream the manifold.

April, 2002
Revised Issue

INSTALLATION

The Slave Actuation Package comes equipped with a mounting bracket and is securely anchored at a maximum of 1 metre from the HFC-227ea storage container it is intended to actuate. Two flexible pilot hoses are included with the actuation kit to connect the Slave Actuation Package to the HFC-227ea storage container and to the previous Master or Slave actuation package in the manifold line.

SPECIFICATIONS

Shipping Weight:	3.0 kg
Nitrogen Cylinder:	
Filling Pressure	157-176 barg
Volume	210 ml
Maximum Exposure Temperature	71° C
Classification	2.2
Shipping Number	UN1066

