

## *Marine Suppression System*

## PNEUMATIC ACTUATOR

CATALOG  
NUMBER  
C.1.33.01

P/N C70-233  
N70-233

UL - Ex 4447  
FM 3002238  
USCG - 162.161/2/0 (HFC-227ea)  
USCG - 162.038/12/0 (CO<sub>2</sub>)



Pneumatic Actuator  
Part No C70-233



Remote Pneumatic Actuator  
Part No. N70-233

### DESCRIPTION

Pneumatic Actuators, P/N C70-233 and N70-233, allow manual actuation of a Fike HFC-227ea or CO<sub>2</sub> System for industrial or marine applications. Actuator C70-233 is a single-step actuator and N70-233 is a two step actuator that is housed in a weather proof enclosure. These actuators can be mounted up to 300 linear feet away from the cylinder valves. The actuator connects to the cylinder valve(s) via 1/4" O.D. stainless steel tubing (.035" wall thickness) or 1/4" galvanized schedule 40 or 80 pipe. For Marine HFC-227ea systems actuator N70-233 must be used to fulfill the requirements of the United States Coast Guard and NFPA 2001.

The pneumatic actuator valve is machined brass with a stainless steel lever mechanism. The pneumatic actuator valve includes a pressure gauge to monitor the nitrogen pressure

in the cylinder. The valves are also equipped with a safety relief disc that will rupture if the cylinder pressure exceeds 3,000 psi (20,685 kPa).

Both manual actuators include a sturdy mounting bracket to affix the actuator to wall or other structure. Two u-bolts are used to connect the pressure vessel to the bracket. The overall dimensions of the actuator P/N C70-233, including the bracket, are 5 1/2"w x 24"h x 3"d. The overall dimensions of the two-step actuator N70-233, are 24"w x 30 1/2"h x 8"d.

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## OPERATION

The Pneumatic Actuator P/N N70-233 is operated by opening the enclosure door, removing the safety pin, pulling the lever and turning the accompanying ball valve. The actuator tubing connects directly to the appropriate control valve in a HFC-227ea or CO<sub>2</sub> system.

## SPECIFICATIONS

Part Number: C70-233 Single-Step Pneumatic Actuator  
N70-233 Twp-Step Pneumatic Actuator in an enclosure

Materials: Valve – Brass  
Lever – Stainless steel  
Cylinder – Spun steel  
Painted Steel

Temp. Range: 0 to 130°F

