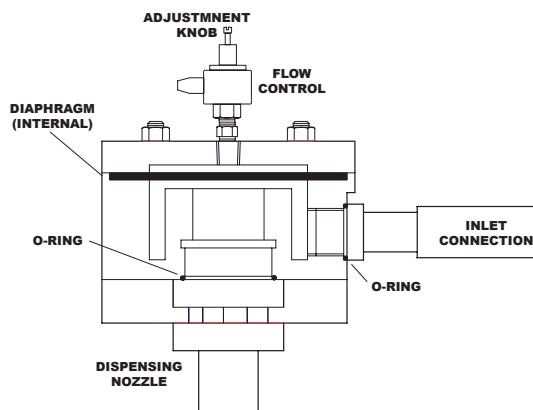


# DIAPHRAGM CUTOFF INSTRUCTIONS

Liquid, cream, and other high viscosity products used with filling machines may require a Diaphragm Cutoff accessory to effectively dispense product with a minimum of dripping, spill, or wastage. This publication describes cutoff components, operation, connection details, and cleaning recommendations for continued, efficient use of the Cutoff with your filling equipment.

## COMPONENTS & OPERATION

Cutoff consists of an inlet connection, an adjustable, flow control, cutoff body, air connection, dispensing nozzle (outlet) connection, and solenoid valve. An internal, flexible diaphragm within the cutoff body flexes to allow product to be dispensed. Typical Diaphragm Cutoff components are shown in the following.



When a fill cycle is initiated, the solenoid is actuated to release air pressure on the diaphragm. At the completion of the fill, the solenoid is actuated again to restore pressure on the diaphragm -sealing the flow of product through the outlet connection.

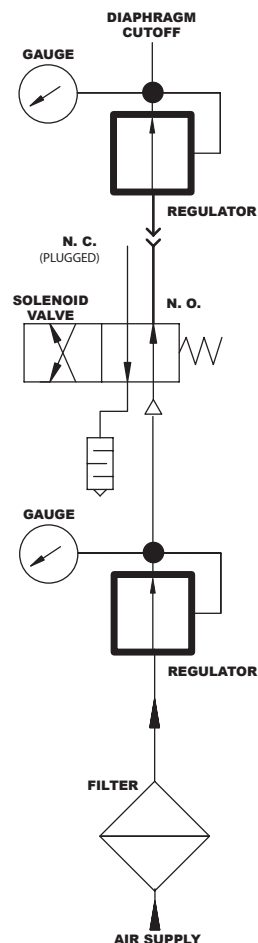
## AIR CONNECTION

During installation, the cutoff must be connected to a suitable source of compressed air. The source of compressed air should be within 5-20 p.s.i. for proper operation.

## !!! IMPORTANT !!!

Excessive air pressure may result in premature wear of the diaphragm.

Use of a separate regulator/gage for the Cutoff may be required to control air pressure to prevent wear of the diaphragm. Additionally, a Flow Control Valve may be recommended for installation between the cutoff and solenoid valve so that air pressure can be controlled to prevent any leaking product from the cutoff. Atypical air schematic for a Diaphragm Cutoff is shown in the following.



## CLEANING RECOMMENDATIONS

The cutoff and components can be periodically cleaned to prevent contamination and/or product buildup. If necessary, the entire cutoff can be disassembled for thorough cleaning. Disassemble by disconnecting inlet, nozzles, and compressed air, removing the bolts (may be supplied as wing nuts) on the top of the housing, separating the body and removing the diaphragm. Clean with warm soapy water or equivalent, as application requires.