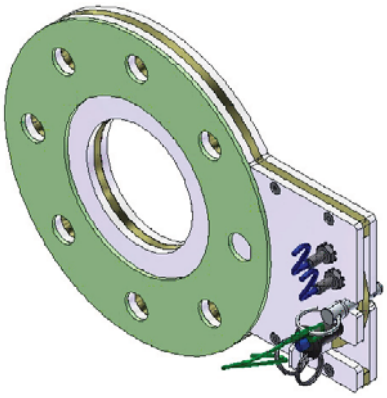
HRD MECHANICAL LOCKOUT

Data Sheet

DESCRIPTION

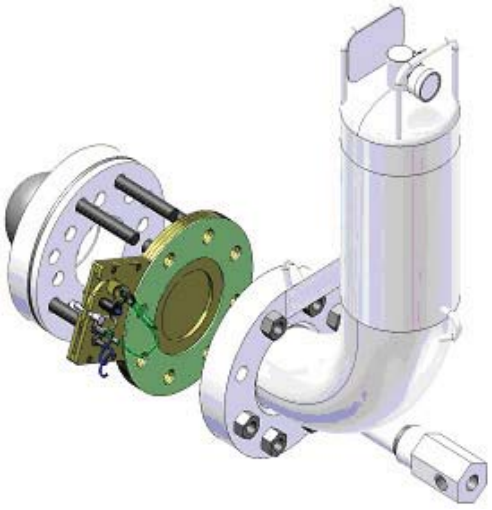
Fike's High Rate Discharge (HRD) Mechanical Lockout Assembly provides a means for the user to physically prevent an accidental discharge of the HRD suppression container into the process vessel and to electrically prevent the unintentional arming of the suppression system by the Fike Explosion Protection Controller (EPC).



The HRD Mechanical Lockout consists of a 2-position lockout blade assembled between flanges. The assembly is equipped with a mechanical locking pin, two Position Indicating Sensors and a Position Indicator Module.

The spring operated locking pin secures the lockout blade in each discrete position (open/closed) and can be secured with a padlock or tag.

The lockout blade Position Indicating Sensors are connected to an intrinsically safe Position Indicator Module which provides a visual status of the lockout device by means of dedicated LED lights. The output of the Position Indicator Module is connected to the disarm contacts of the EPC to prevent the arming of the explosion protection system if the lockout blade is missing or in the lockout position.



FEATURES

- Increased safety for personnel in compliance with:
  - OSHA requirement 29 CFR 1910.147, The Control of Hazardous Energy (Lockout/Tagout)
  - NFPA 69-2007, 10.3 Personnel Safety
  - EN 14373, 8 Instructions for installation, commissioning and maintenance
- Compatible with existing installations
- Easy installation and maintenance
- No impact on suppression efficiency
- Fail safe interlock with controller and process
- Manually operated

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SPECIFICATIONS

Available Sizes:	4 inch: for use on 2.5, 5, 10, 20, 30 Liter Containers 6 inch: for use on 50 Liter Containers
Part Number:	E70-054: 4 inch w/ electrical components E70-055: 6 inch w/ electrical components E70-052: 4 inch w/o electrical components E70-053: 6 inch w/o electrical components
Dimensions:	4 inch: 10" wide x 13" long x 7/8" thick 6 inch: 12-1/2" wide x 16-7/8" long x 1-1/4" thick
Weight:	4 inch: 17.25 lbs 6 inch: 40.5 lbs
Materials:	High strength carbon steel, nickle plated

POWER SPECIFICATION

Position Indicator Module	
Supply Voltage:	20 – 250 VAC / 20 – 125 VDC (24 VDC Recommended)
Line Frequency (AC):	40 – 70 Hz
Power Consumption:	≤ 3 Watts (Maximum)

Power Consumption as Installed	
24 VDC Power Consumption with 2 Sensors (p/n: 02-12109)	19 mA (Normal Operation)
	40 mA (Isolated Operation)
Wire Length	3,000 Ft. (Position Indictor Module to Sensors)

NOTE: If AC voltage is used to power the Position Indictor Module, separate conduit is required to prevent interference with DC circuits.

Hazardous Location Approvals (Intrinsically Safe)	
FM:	Class I, Div 1 & 2, Class A, B, C, D Class I, Zone 0, 1, or 2, Group IIC, IIB, or IIA Class II, Div 1 & 2, Class E, F, G Class III, Div 1 & 2
ATEX:	Ex II (1) GD [EEx ia] IIC Ex II 3 G Ex nA nC [nL] IIC/IIB T4

ELECTRICAL COMPONENT APPROVALS

- FM
- UL
- CSA
- ATEX