

IE Spill-Save Anti-Spill Device

GENERAL INSTRUMENTATION

■ Description

The IE Spill-Save anti-spill device is the most flexible and inexpensive instrument to ensure two important interlocks; Loading Arm Contact and Overspill Detect Contact. These two interlocks are continuously monitored by the IE Autoload System to prevent loss of product at the time of loading.

■ Design Features

- - Simple design – ease of use - Rugged construction – maintenance free - Ensures prevention of product loss - Certified to be used in Ex.D. IIa, IIb areas - CMRS & CCOE approved

■ Principle Of Operation

The instrument has two interlocks; Loading Arm Contact and Spill-Save. It has a spring loaded plate having a reed switch contact. When the device is inserted in the truck, contact closure is completed and the signal sent to the Autoload System. If the device is removed at any point of time during the delivery cycle the system sends a signal to the valve to shut down. The Spill-Save contact is float operated. A short tube protrudes into the tank compartment. Within this tube is a float, which is buoyant. In case of over flow due to any reason, the product raises in the inserted tube thereby raising the float. This completes a contact closure. This is a normally – open Autoload System. When contact closure is completed the Autoload System sends a signal to the valves to shut down and also sends an alarm signal to the operator at the control room to shut down the pumps.

■ Materials Of Construction

Body – Aluminium Connections 2 - wire connection to IE Autoload Batcher for Loading arm contact 2 – wire connection to IE Autoload Batcher for Spill-Save contact Area Classification Flame Proof Ex.D. IIa, IIb as per IS:2148-1981 Weather Proof to IP-67 as per IS:2147-1962 CMRS & CCOE approved Reference Drawing EK092H500