



SMITH
FLOW CONTROL LTD

SFC KEY INTERLOCKS & PROCESS MANAGEMENT SYSTEMS



VESSEL CLOSURES



Ensure total isolation, venting and draining **BEFORE** opening vessel closure.

INTRODUCTION

Access into pressure vessels is a potentially hazardous exercise. Residual pressure, volumes of residual liquids or gases all can be harmful - typical examples of these potential hazards include pig traps, slug catchers and filter housings.

Locking the vessel closure in the closed position ensures access into the vessel can be achieved only under controlled safe conditions. The operating key is held in a secure place - e.g. Control Room or Supervisor's office or is retained (trapped) in some other related interlocked item of equipment.

Most international vessel design codes as a minimum require vessel closures to be interlocked with venting and draining functions - this interlocking arrangement can be extended to incorporate all other vessel functions (e.g. draining, purging or flushing).



Locking Arm Engaged



Locking Arm Released

Prevent loss of containment of explosive or toxic product.

Any type of closure can be fitted with the 'DL3' interlock, regardless of their method of operation. Design details can be provided on request.

- Two-Piece Lock.
- When the two lock halves are separated, the interlock key remains trapped in the DL3 door lock.



PRODUCT DETAILS

The SFC 'DL3' interlock is adaptable to all types of vessel/access closures and is very simple to use in pig trap applications especially where the closure incorporates a bleed device.

The 'DL3' interlock will be designed to interface with the bleed function to ensure the bleed screw cannot be removed until the interlock permit key has been inserted to unlock the 'DL3' assembly. This key is usually obtained after opening and locking of the vent valve.

When the 'DL3' is incorporated into vessel access safety procedures, total equipment and personnel safety is assured.



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