Isolation module E502 Series

Description

This unit contains 2 normally-closed logic elements.

With the E line vented, the logic elements block the connection between C₁ and J₁, and between C₂ and J₂. Flow cannot occur in either direction. When E is pressurised, the elements open, connecting C₁ to J₁ and C₂ to J₂. E line energisation may either be external or internal.

External.
With plug A fitted, access to the pilot line is via port E or via a 1/4" BSP tapping in the side of the block. Port E is designed to interface with the Moog E503 Solenoid Module. This enables an electrical signal to operate the logic elements. The module is supplied with plug A fitted.

Internal.
By replacing plug A by an orifice, there will be a time delay between applying pressure to port P and unlocking the logic elements. This feature provides a turn-on transient isolator.

Features

- Fits under 62 & 760 Series valves
- Prevents flow to and from actuators
- External pilot supply
- Internal pilot supply option
- Port pattern to BS6494 Part 2, Type 4

Typical applications

This module is designed for applications where it is necessary to prevent flow both to and from the actuator. Typical applications are materials and fatigue testing or lock-up applications where extra security is required.

In applications where turn-on transients are a problem, the module may be set up to provide a “soft-start” when pressure is first supplied.

Specification

Maximum pressure, 315 bar

Seal material, Buna N for petroleum based hydraulic oils, water-oil emulsions or water-glycol mixtures. Other seal materials available on request.

Pilot operating pressure, either element will open when the E line pressure exceeds 0.55 P₁ + 0.44 P₁.
Performance

Installation

Dimensions in mm.

Ports
Ports P, R, J1, J2 and E.
O-rings 1.78mm section x 10.82mm I.D.

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