Solenoid module E503 Series

Description

This unit contains a 2-way normally-open, pilot-operated solenoid and an orifice. When the solenoid is de-energised, the E port is connected to return through a low impedance. The E port is therefore at low pressure. When the solenoid is energised, the connection to return is blocked and the E port attains the supply pressure.

This approach prevents unsafe failure modes to which spring loaded spool type solenoids are susceptible when running on contaminated fluid.

Features

- Fits under 62 & 760 Series valves
- Energises Moog Lock-Up Module (E501) and Moog Isolation Module (E502)
- Fail-safe design for dirt resistance
- Optional coil voltages
- Encapsulated coil for high reliability
- Port pattern to BS6494 Part 2, Type 4

Typical applications

In applications that employ system monitoring, the module can be used in conjunction with the E501 Module to lock an actuator upon system malfunction.

In applications such as critical materials testing, the module can be used in conjunction with the E502 Module to prevent supply pressure transients from damaging the specimen.

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.
- Solenoid coil rating: 24V DC, 500mA standard, 12V DC, 1A, 115V AC, 100mA optional, 230V AC, 50mA optional
- Coils are rated for continuous operation.
- Connector: Hirschman (standard), Hirschman with lamp (optional)
- Operating sense (standard) E line is low when solenoid is de-energised
- Optional operation, E line is low when solenoid is energised.
- Solenoid leakage when de-energised: 1.2 l/min. at 70 bar supply, 2.1 l/min. at 210 bar supply.
- Replacement seal kit, Moog part no: A75202
Installation

'\(E\)' Port situated on this face to mate directly with E501 or E502 modules

Dimensions in mm.

Ports
Ports P, R, \(J_1\) and \(J_2\).
O-rings 1.78mm section \(\times\) 10.82mm I.D.

We reserve the right to alter specification without prior notice.
For further information, please contact Moog.

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