

EL-O-MATIC

(INDIA) PVT.LTD.



(IN COLLABORATION WITH EL-O-MATIC B.V. OF HOLLAND)

VALVE AUTOMATION SYSTEMS:



EL-O-Matic offers valve automation systems consisting of Butterfly, Ball and Plug valves with pneumatic or electric actuators for both on / off and modulating application. El-O-Matic on an average executes around 10,000 systems yearly, tailor made for the specific application of the industry. Some of the applications are very fast operating systems, sequencing of valves, batching operation and we also have supplied systems for defence and nuclear power for their critical applications.

MANUAL OVERRIDE:

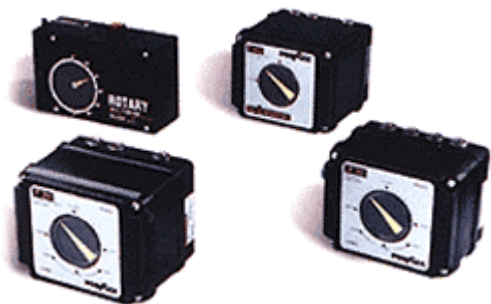


El-O-Matic MO series declutchable gear operators offer simple and reliable manual positioning of the valves, dampers and other quarter turn devices when overriding existing pneumatic or hydraulic rotary actuators. All El-O-Matic MO units combine rugged construction, light weight and modular design to provide the most efficient and cost effective solution to a full range of manual override requirements.

The self locking worm gear design means safe and easy operation, positive manual positioning and extremely long life. The MO can be adapted to any quarter turn actuator and may even be installed in the field on existing valves.

Five Models cover torque upto 800° Nm

POSITIONERS:



El-O-Matic offers Posiflex make Pneumatic (F10), Electro-Pneumatic (F20) and Electro-Pneumatic A/D Positioner (F40). An indigenously developed Pneumatic Positioner model 'M' is also available in the range.

PNEUMATIC POSITIONERS: F10

The Posiflex-Pneumatic Positioner is a simple, single stage, displacement balance instrument suitable for either linear or rotary actuators. It provides stepless positional control for a wide variety of pneumatic actuators. A single universal model can be used for both double acting and single acting applications.

The basic design incorporates a high enhancement flapper and nozzle spool valve and adjustable range and reversing mechanical feedback.

Three Position Cam for Rotary Actuators provides for linear, quick opening and equal percentage characteristics. A special cam for rotary actuator provides for split range.

ELECTO-PNEUMATIC POSITIONERS: F20

The F20 is a universal Electro-Pneumatic Positioner, suitable for either linear or rotary actuators (single or double acting).

The F20 Positioner operates on the principle of analog electronic comparison. An analog 4-20 mA input signal is used to obtain an accurate position of the actuator.

The F20 is a true 2 wire instrument, with the 4-20 mA signal providing both the controlling signal and power supply for the electronics. An electronic module provides all the usual control characteristics; zero, range and sensitivity. They are all electronically resettable using trimmers on the control card.

A comprehensive range of integrated control options include gauges, switches and position transmitters. Mounting is to the Industry standard VDI/VDE 3845 (Namur) or IEC 534/6. The drive coupling for the rotary version is spring loaded for zero backlash.

ELECTRO PNEUMATIC POSITIONERS F40:

The F40 Intelligent Positioner is the most advanced Electro-Pneumatic Positioner available in the market today. This version is made possible by a combination of the latest developments in microprocessor technology together with a lower power interface for the ultimate in actuator control.

The F40 is an instrument, with the 4-20 mA signal, providing both the controlling signal and power supply for the electronics. Smart functions and modular design enable the standard Positioner to be used on most rotary and linear actuators without modification. The micro processor senses what is required and sets itself up accordingly.

All the usual control characteristics are provided, these are easily reset-able from the five buttons on the control panel – split range, equal percentage, quick opening, custom curves and direct / reverse acting. A torque seat function for torque seated valves is also available.

Mounting is to the Industry Standard VDI / VDE 3845 (Namur) or IEC 534 / 6. The drive coupling for the rotary version is spring loaded for zero backlash.

PNEUMATIC POSITIONER MODEL

Pneumatic Positioner Model 'M' is ideal for all rotary Actuators and can also be used on linear application. The Positioner has been designed to provide stable, reliable and proportional position control of pneumatic Actuators used in process automation. In a typical process loop, the Positioner compares the output signal from the controller (pneumatic) with the position of the pneumatic final control element and corrects its position. Positioner and final control element together form a position control loop.

The operation of the Positioner is based on a force balanced system i.e. equilibrium is reached when the force from the feedback spring equals the force from the instrument signal capsule.

Limit switches and / or position transmitter can be added on to the Positioner assembly in a separate enclosure.

SOLENOID VALVES:



Solenoid valves are offered with any variety of option for

Mounting	:	Namur / Non-namur
Type	:	5/2, 4/2, 5/3, 3/2
No. of coil	:	Single / Dual
Coil type	:	Flying lead, terminal box, plug in
Protection	:	<ul style="list-style-type: none">Explosion-proofIntrinsically safeWeatherproof
MOC	:	SS / Brass / Aluminium
Voltage	:	To suit the requirement
Other options:	:	<ul style="list-style-type: none">Manual OverrideChoice of orifice sizeNO, NC, UniversalClass H insulation

LIMIT SWITCH BOX:

Limited switches for ON/OFF indication are offered as per the choice/application.

Mechanical / Micro-switch	:	<ul style="list-style-type: none">1 NO + 1 NC (SPDT)2 NO + 2 NC (DPDT)
Proximity switches	:	<ul style="list-style-type: none">Intrinsic safe / Non-intrinsic safeAC / DC1 NO or 1 NC1 NO + 1 NC2 Wire / 3 Wire
Enclosures are offered for	:	<ul style="list-style-type: none">Weather protection IP 55 / 65 / 67Explosion proof of IIA, IIB / IIC



AIR TANK ASSEMBLY:



Double acting Actuator with auxiliary Air Tank (additional reservoir) can be provided for fail safe operation in place of spring return Actuator.

Air tank can be sized as per customer's requirement (depends on no. Of operations required and available air pressure). The system is offered as a total package i.e. predetermined size of air tank that is mounted on the Actuator with solenoid valve, non-return valve and necessary piping.

ACCESSORIES:

Pneumatic accessories which are required for a particular application will depend on pneumatic logic circuit selected. The commonly used pneumatic accessories are indicated below:



Sl. No.	Item	Application
1.	Air Filter Regulator	Filtering and regulating of air Manual Drain and Auto Drain
2.	Direction Control Valve	Pneumatically operated valve (Function similar to Solenoid valve)
3.	Non-Return Valve	One way valve
4.	Flow Control valve	To reduce the speed of operating of actuator / valve
5.	Quick Exhaust Valve	For fast operation of Actuators
6.	Air Lock Valve	For achieving stayput action in case of air failure
7.	Equalising Valve	Namur mounting-used when application calls for air fail stayput and manual override together
8.	Quartzoid Bulb	Used for fail safe requirement at high temperature for SR Actuators
9.	Breather Block	To avoid or to protect the spring chamber from entry of atmospheric air in corrosive atmosphere.
10.	Double Compression Gland	To hold the cable firmly at the cable entry of electrical equipments.
11.	Pressure Booster	To boost the available air pressure to a higher pressure.

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Specifications & dimensions are subject to change without prior notice.