ESV 300 Series Solenoid Valve to ISO 5599-1. ISO 2

The ESV-Series ISO Solenoid actuated valves, conforming to ISO 5599-1, are surface mounted valves providing high flow rates. The valve may be mounted on a single manifold base or customised surface, or may be stacked for multifunction use. Exhaust throttles to control an actuator speed are standard for all manifold models. The range may be used Lubrication free.



Product feature

- 1. Special internal seal allow for high flow rate and long service life.
- 2. Compact and easy to install design
- 3. Exhaust flow restrictors included in the manifold bases.
- 4. Internal and external pilots are simply selected by seal position.
- 5. May be used without lubrication.



DNote:Internal guided mode can be interchanged with external guided mode, installation method of the O-ring refering to article 1 o 2 in the installation

Ordering code of manifold



3. The subassembly of plate is applied with Parallel manifold, both for individual pilot type and centralized pilot type

Ordering code of blanking plate

		E	sv	200M	-	В	
l use)	Mo	del		Code			Blanking plate
	ESV:	ISO standard solenoid valve	200M:	200 Series	manifold		B: Blanking plate
			300M:	0M: 300 Series manifold			
			400M:	400 Series	manifold		



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AC: ±15%

AC: 3.5VA

310, 320 Series:42\55ms; 330 Series:50\62ms

50\68ms

Class B

IP65

30 million times above (norma ISO5599-1 standard

210, 220 Series: 33\41ms;

DC: ±10%

DC: 3.0W

230 Series:38\50ms

Voltage range

Activating tim

(0.5Mpa)

Open/close

Insulation

Protection

Service life

Installation size

Power consumption

ESV200 Series

ESV300 Series

ESV400 Series

AUG12/RW/A

The position and specification of the schematic diagram

Port working

Ordering code

condition

ESV202M

ESV202MR

ESV202MB

ESV202MW

ESV202MWR

ESV202MWB

Note

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Installation and operation

- 1、The classification and selection for the pilot type of valve
- 1.1 Internal and external pilot pressure options available
- 1.2 Conversion from internal to external pilot pressure is illustrated below



2、The classification and selection for the parallel manifolds

Individual pilot port

Left side port

Centralized pilot port,

Left side

Unused

Unused

Unused

Unused

Plug the bottom ports is they are not used.

port

Use

Use

ISQ5599-1

Right side

Unused

Unused

Unused

Unused

The above list is for the 200M series, but also applies to the other series 300M and 400M

port

Use

Use

Corresponding tables the ordering code of the parallel manifolds

- 2.1 Multi-station manifold may have common pilot feed pressure or each station can have an individual external pilot pressure.
- 2.2 If external pilot pressure is required a suitable fitting is to be installed in the Individual Pilot Port shown in the illustrations below and likewise in the Centralized Pilot Port if a common pilot pressure is the preferred option.
- Port if a common pilot pressure is the preferred option. 2.3 Mixed external and common pilot pressure cannot be used at the same time on a manifold stack.

1、Exhaust throttle function

- 4.1 An exhaust port throttle restrictor is standard on each manifold station and is located in the illustration below.
- 4.2 Adjustment of the throttle screws is by a hexagon key.4.3 Turn the screw CW to decrease the exhaust flow rate (to slow the controlled actuator) and CCW to increase the flow rate.



Flow chart







Model: ESV310



Inner structure



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Bottom port

Centralized

pilot port

Unused

Unused

Unused

Use

Use

Use

SIZE 1

Port name

Bottom

Unused

Unused

Unused

Unused

port

Use

Use

Centralized pilot port

Individual pilot port

Right side port

Individual

pilot port

Use

Use

Use

Unused

Unused

Unused

AUG12/RW/A

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