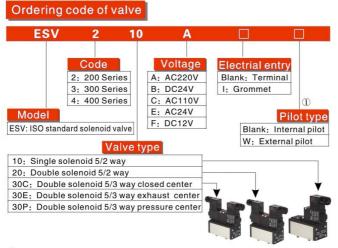
The ESV-Series ISO Solenoid actuated valves, conforming to ISO 5599-1, are surface mounted valves providing high flow rates. The valve may be mounted on a single manifold base or customised surface, or may be stacked for multi-function use. Exhaust throttles to control an actuator speed are standard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



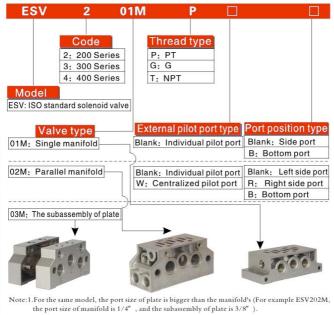
### Product feature

- 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, please adjust the installation method of the O-ring refering to article 1 o 2 in the installation manual.

#### Ordering code of manifold



the port size of manifold is 1/4", and the subassembly of plate is 3/8"). 2. The external pilot port for Single manifold is individual pilot port. 3. The subassembly of plate is applied with Parallel manifold, both for individual pilot type and centralized pilot type.

Ordering code of blanking plate

50/06IIIS	ordering code of blanking plate
Class B	ESV 200M – B
IP65	ESV 2001VI - B
30 million times above (normal use)	
ISO5599-1 standard	Model Code Blanking plate
	ESV: ISO standard 200M: 200 Series manifold B: Blanking plate
	solenoid valve 300M: 300 Series manifold
	400M: 400 Series manifold

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AC: 3.5VA

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

50\68

210, 220 Series: 33\41ms;

DC: 3.0W

230 Series:38\50ms

Power consumption

Activating tim

(0.5Mpa)

Open/close

Insulation Protection Service life

ESV200 Series

ESV300 Series

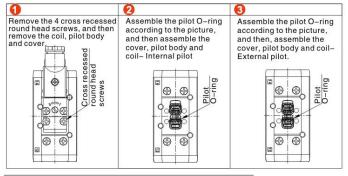
ESV400 Series

4*U* 

AUG12/RW/A

#### 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

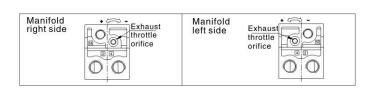


2. The classification and selection for the parallel manifolds

- 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.

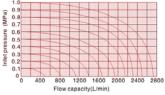
4、Exhaust throttle function

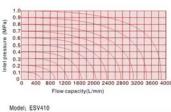
- 4.1 An exhaust port throttle restrictor is standard on each manifold station and is located in the illustration below.
- 4.2 Adjustment of the throttle screws is by a hexagon key.4.3 Turn the screw CW to decrease the exhaust flow rate (to slow the controlled actuator) and CCW to increase the flow rate.



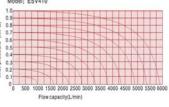
### Flow chart



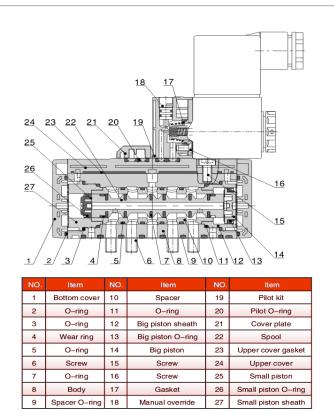




Model: ESV310



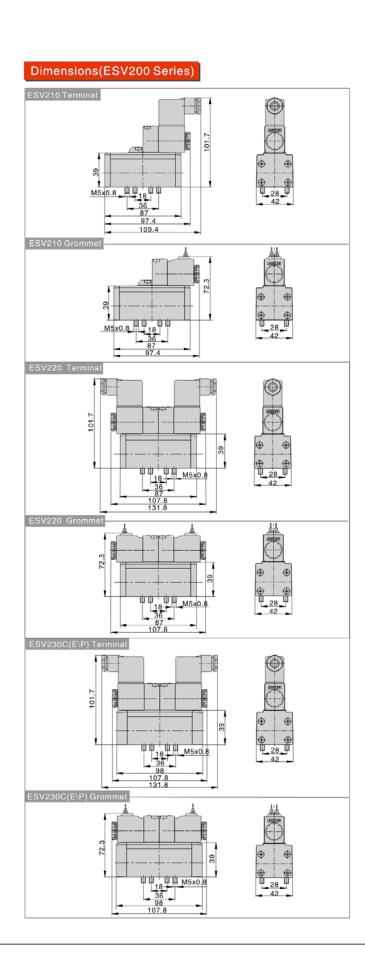
#### Inner structure

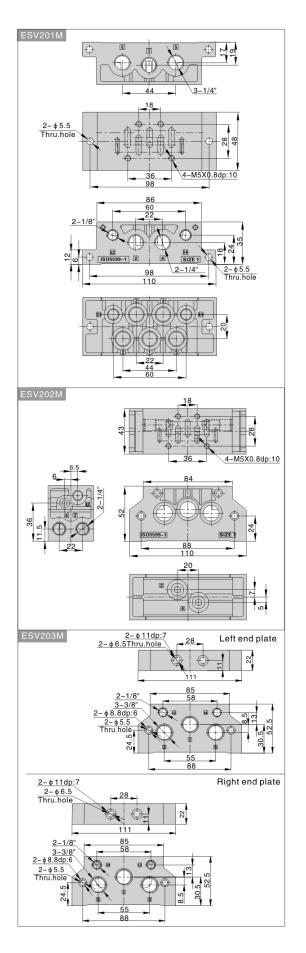




The position and specification of the schematic diagram Bottom port Individual pilot port C SIZE 1 Centralized pilot port Left side port Individual pilot port ISQ5599-1 SIZE 1 Right side port Centralized pilot port, Corresponding tables the ordering code of the parallel manifolds Port working Port name condition Left side Bottom Centralized **Right side** Individual Ordering code port port pilot port pilot port port ESV202M Use Unused Unused Unused Use Use Use ESV202MR Unused Unused Unused ESV202MB Unused Unused Use Unused Use Use ESV202MW Use Unused Unused Unused Unused Use Use Unused ESV202MWR Unused ESV202MWB Unused Unused Use Use Unused Note Plug the bottom ports is they are not used. The above list is for the 200M series, but also applies to the other series 300M and 400M

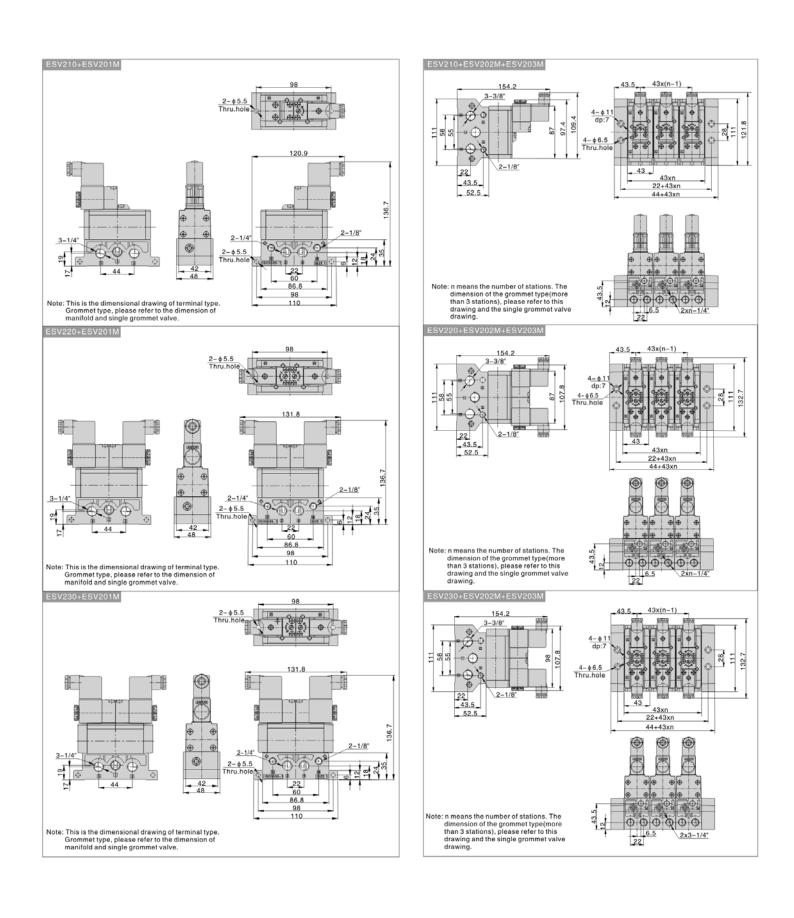
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