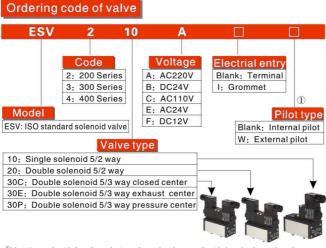
The ESV-Series ISO Solenoid actuated valves, conforming to ISO 5599-1, are surface mounted valves providing high flow rates. The valve may be mounted on a single manifold base or customised surface, or may be stacked for multifunction use. Exhaust throttles to control an actuator speed are standard for 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. please adjust the installation method of the O-ring refering to article 1 o 2 in the installation manual.

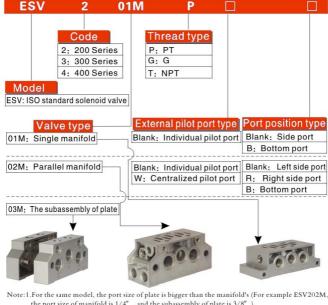


### Specification

Symbol

Item			Specification
Fluid			Air (to be filtered by 40µm filter element)
Acting			Internal pilot or external pilot
Lubrication			Not required
Pressure	Int	ernal pilot	0.2~1.0MPa(2~10.0bar)(29~145psi)
	External pilot		0~1.0MPa(0~10.0bar)(0~145psi)
Control pressure (external pilot)			0.2~1.0MPa(2~10.0bar)(29~145psi)
Proof pressure			1.5MPa(15.0bar)(215psi)
Temperature			–20~70°C
Port size (manifold)			200 Series:1/4" ;300 Series:3/8" ;400 Series:1/2"
Port size (subassembly of plate)			200 Series:3/8" ;300 Series:1/2" ;400 Series:3/4"
Voltage range			AC: ±15% DC: ±10%
Power consumption			AC: 3.5VA DC: 3.0W
Activating t (0.5Mpa) Open/close	ime	ESV200 Series	210、220 Series:33\41ms; 230 Series:38\50ms
		ESV300 Series	310、320 Series:42\55ms; 330 Series:50\62ms
	•	ESV400 Series	50\68ms
Insulation			Class B
Protection			IP65
Service life			30 million times above (normal use)
Installation size			ISO5599-1 standard

### 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

ESV 200M - B

Code

ESV: ISO standard solenoid valve

200M: 200 Series manifold 300M: 300 Series manifold 400M: 400 Series manifold

AUG12/RW/A

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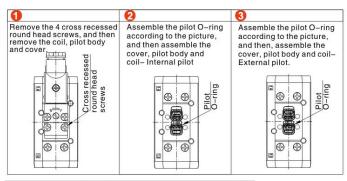
Email: sales@mead.co.uk



# Installation and operation

# 1. The classification and selection for the pilot type of valve

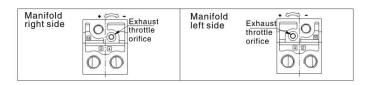
- 1.1 Internal and external pilot pressure options available
- 1.2 Conversion from internal to external pilot pressure is illustrated below



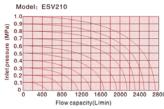
- 2.1 Multi-station manifold may have common pilot feed pressure or each station can have an individual external pilot pressure
- 2.2 If external pilot pressure is required a suitable fitting is to be installed in the Individual Pilot Port shown in the illustrations below and likewise in the Centralized Pilot Port if a common pilot pressure is the preferred option.

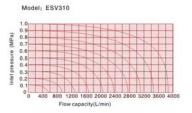
  2.3 Mixed external and common pilot pressure cannot be used at the same time on a
- manifold stack.

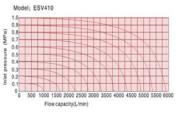
- 4.1 An exhaust port throttle restrictor is standard on each manifold station and is located in the illustration below.
- Adjustment of the throttle screws is by a hexagon key.
- 4.3 Turn the screw CW to decrease the exhaust flow rate (to slow the controlled actuator) and CCW to increase the flow rate.

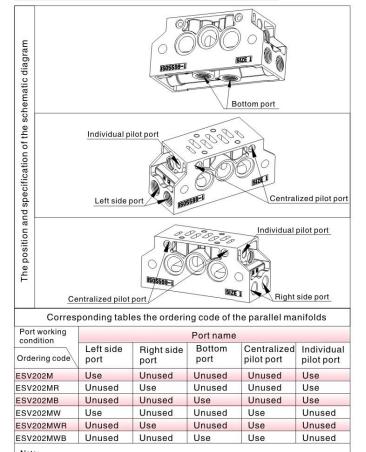


# Flow chart

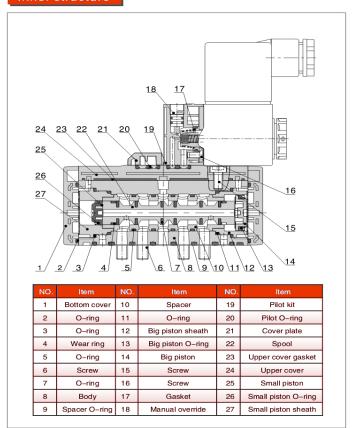








## Inner structure



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Plug the bottom ports is they are not used.

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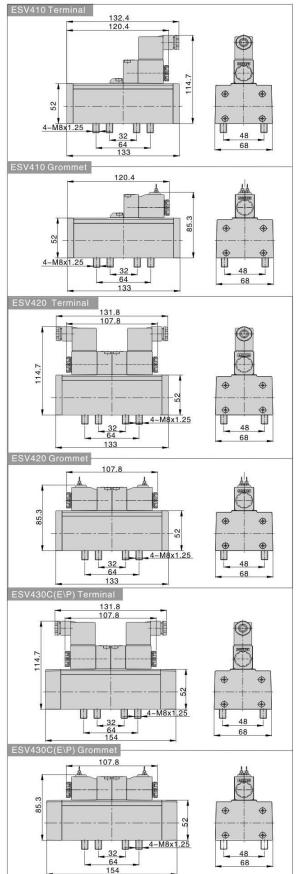
Fax: +44(0) 1903 851943

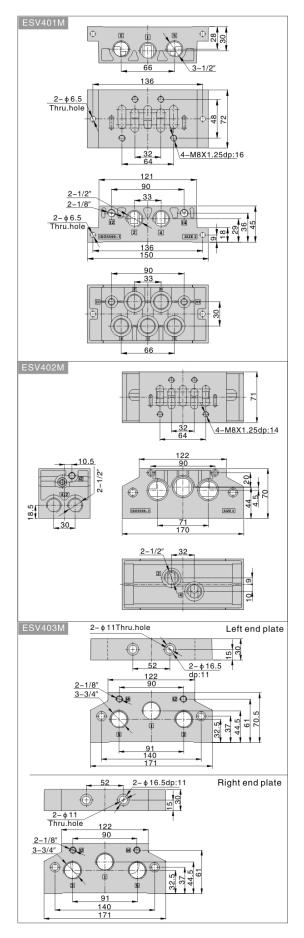
The above list is for the 200M series, but also applies to the other series 300M and 400M

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# Dimensions(ESV400 Series)

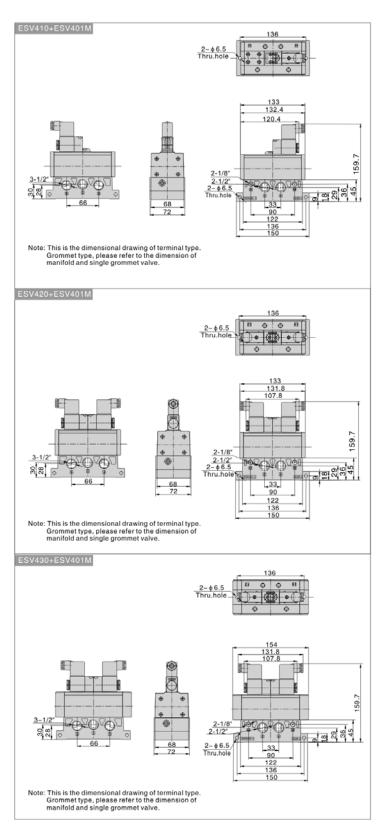


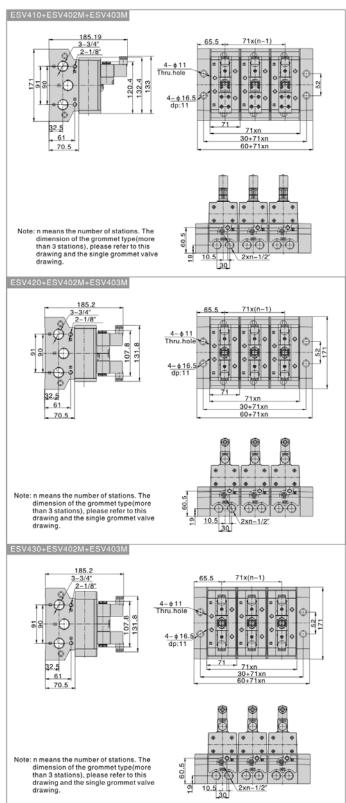


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