



**TECHNICAL SPECIFICATIONS, DESCRIPTIONS and GENERAL FEATURES**

- **Fluids:** Valves are suitable for water, low viscosity oils etc... non-aggressive liquids and Air, Inert Gas etc... gaseous but is not suitable for hazardous fluids
- **Switching Function:** Normally Open (N.O, Open when de-energised)
- **Principle of Operation:** Pilot Operated
- **Way Number:** 2/2 (Ports / Positions)
- **Connection and Port Sizes:** G1/8" up to G1"
- **Connection Type:** Thread (Female), G (BSPP / ISO 228-1)
- **Pressure Range:** 0,5 - 16 Bar
- **Fluid Temperature:** -10°C to max. 160°C
- **Ambient Temperature:** -20°C to max. 70°C
- **Opening Time:** 200ms up to 1500ms
- **Closing Time:** 500ms up to 2000ms
- **Max Viscosity:** 38 cSt or mm<sup>2</sup>/s
- **Maximum Allowable Pressure or Design Pressure:** 24 bar
- Minimum operating differential pressure : 0,5 Bar
- Valve has sealing o-rings
- Suitable AC and DC voltage, high voltage tolerance
- Coil interchangeable without dismantling the valve (don't matter AC or DC)
- High flow rate, high reliability, high mechanical strength
- Various flow rate options, wide range of orifice options
- Mounting position, optional any position but preferably solenoid coil vertical on top
- The fluid passing through the valve must be filtered
- Flow rate (Q) can be usually calculated as a function of pressure, density and flow coefficient
- According 97/23/EC Pressure Equipment Directive (PED), 2006/95/EEC Low Voltage Directive (LVD) and 2004/108/EC Electromagnetic Compatibility Directive (EMC)



Low Power Loss	Min. Ope Differential Pressure 0,5 Bar	Coil Rotatable 360°	High Reliability
Full Orifice	Patented Enclosing Tube Design	High Performance	Long Life



10-05  
ESV 507

Model No	Position	Connection and Port Size	Orifice Size	Flow Factor / Coefficient Kv	Operating Pressure Differential				Fluid Temperature		Seal	Approximate Weight	Reference Figure	
					Min. (For AC)	Min. (For DC)	Max. (For AC)	Max. (For DC)	Min. °C	Max. °C				
ESV		G	mm	L/m	m <sup>3</sup> /h	Bar	Bar	Bar	Bar	°C	°C	kg		
ESV 507.02	N.O	3/8"	12	40	2.40	0.5	0.5	16	16	-10	160	VITON	0.65	Fig.1
ESV 507.03	N.O	1/2"	15	70	4.20	0.5	0.5	16	16	-10	160	VITON	0.61	Fig.1
ESV 507.04	N.O	3/4"	20	130	7.80	0.5	0.5	16	16	-10	160	VITON	0.75	Fig.1
ESV 507.05	N.O	1"	25	180	10.80	0.5	0.5	16	16	-10	160	VITON	1.03	Fig.1
ESV 507.00.120	N.O	1/8"	12	20	1.20	0.5	0.5	16	16	-10	160	VITON	0.7	Fig.1
ESV 507.01.120	N.O	1/4"	12	25	1.50	0.5	0.5	16	16	-10	160	VITON	0.68	Fig.1