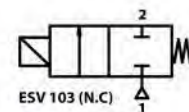


TECHNICAL SPECIFICATIONS, DESCRIPTIONS and GENERAL FEATURES



- **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 Closed (N.C, Closed when de-energised)
- **Principle of Operation:** Direct Operated
- **Way Number:** 2/2 (Ports / Positions)
- **Connection and Port Sizes:** G1/8" and G1/4"
- **Connection Type:** Thread (Female), G (BSPP / ISO 228-1)
- **Pressure Range:** 0 -100 Bar
- **Fluid Temperature:** -10°C to max. 80°C
- **Ambient Temperature:** -20°C to max. 70°C
- **Opening Time:** 25 ms
- **Closing Time:** 25 ms
- **Max Viscosity:** 38 cSt or mm²/s
- **Maximum Allowable Pressure or Design Pressure:** 150 bar
- Don't require differential pressure.
- Compact design
- 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)
- Low flow loss, low power loss
- Various flow rate options, wide range of pressure ratings, 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
- According 97/23/EC Pressure Equipment Directive (PED), 2006/95/EEC Low Voltage Directive (LVD) and 2004/108/EC Electromagnetic Compatibility Directive (EMC)
- Flow rate (Q) can be usually calculated as a function of pressure, density and flow coefficient



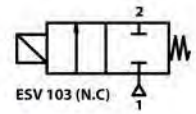
High Pressure	Don't Require Differential Pressure	Coil Rotatable 360°	Small Body Size
Low Weight	Patented Enclosing Tube Design	Fast Opening and Closing	Low Pressure Loss



01-03
ESV 103

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 ³ /h	Bar	Bar	Bar	Bar	°C	°C	kg		
ESV 103.00.010	N.C	1/8"	1	0.5	0.03	0	0	100	100	-10	80	NBR	0.35	Fig.1
ESV 103.00.018	N.C	1/8"	1.8	1.7	0.10	0	0	50	50	-10	80	NBR	0.35	Fig.1
ESV 103.00.025	N.C	1/8"	2.5	3.3	0.19	0	0	20	20	-10	80	NBR	0.35	Fig.1
ESV 103.01.010	N.C	1/4"	1	0.5	0.03	0	0	100	100	-10	80	NBR	0.33	Fig.1
ESV 103.01.018	N.C	1/4"	1.8	1.7	0.10	0	0	50	50	-10	80	NBR	0.33	Fig.1
ESV 103.01.025	N.C	1/4"	2.5	3.3	0.19	0	0	20	20	-10	80	NBR	0.33	Fig.1

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High Pressure	Don't Require Differential Pressure	Coil Rotatable 360°	Small Body Size
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01-03
ESV 103

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