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: 3/2 (Ports / Positions)

• Connection and Port Sizes: G1/8" and G1/4"

• Connection Type: Thread (Female), G (BSPP / ISO 228-1)

• Pressure Range: 0 -16 Bar

• Fluid Temperature: -10°C to max. 160°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: 24 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

· 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)

1: Inlet 2: Outlet [Body] 3: Outlet (Enclosing Tube) De-energised: 1-3 Energised: 1-2

ESV 506 (3/2, N.C)





























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Model No Position Connection and Part Size ESV G	Connection	Orifice	Flow Factor / Coefficient Kv		Operating Pressure Differential				Fluid Temperature		Seal	Approximate	Reference	
		Size			Min. (For AC)	Min (Far DC) N	Max. (For AC)	Max (For DC)	Min.	Max.	Seat	Weight	Figure	
		G	mm	L/m	m/h	Bar	Bar Bar	Bar	Bar	0C:	DE.		kg	
ESV 504.00.010	N.C	1/8*	1	71-2:0,5 2-3:1,4"	"1-2:0,03 2-3:0,08"	0	0	16	16	-10	160	VITON	0.4	Fig.1
ESV 506.00.018	N.C	1/8"	1.8	71-2:1.7 2-3:1,4"	"1-2:0,1 2-3:0,08"	0	.0	10	10	-10	160	VITON	0.4	Fig.1
ESV 506,00.025	N.C	1/8"	2.5	"1-2:3,3 2-3:1,4"	^1-2:0,19 2-3:0,08°	0	0	6	6	-10	160	VITON	0.4	Fig.1
ESV 506.01.010	N.C	1/4"	- F	"1-2:0,5 2-3:1,4"	"1-2:0,03 2-3:0,08	0	0	16	16	-10	160	VITON	0.38	Fig.1
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