

**MAGMA Solenoid Valves Type ETV Series 100**

MAGMA the special valve principle from AVS Römer

MEDIUM  
SEPARATED

**ELSA**  
Push-in Fittings

**NSF**  
COMPONENT



High quality valve series with coaxial flow or 90° flow, in 2/2- and 3/2-way version, especially for use in the food industries and medical technology.

The solenoid operates against spring force a pivot mounted lever to which a membrane is attached. The interior of the valve is spatially and thermally separated from the solenoid system.

A particularly effective ratio of electric power to flow rate and allowable operating pressure is obtained by the optimisation of lever and spring in conjunction with the low friction transmission.

**Other features:**

- minimal dead space without dirt pockets
- easily disassembled, e.g. for cleaning
- insensitive to contamination
- medium is barely heated by the solenoid
- emergency manual override with position indicator as standard
- materials and constructional design are particularly suited for food applications

**Variations / options:**

- other tube connector
- other material for seal
- other nominal diameter or other pressure range
- version for vacuum
- other nominal voltage

**CHARACTERISTICS**
**GENERAL**

<b>Constructional design</b>	Lever actuated seat valve with separating membrane		
<b>Product name</b>	2/2-way solenoid valve	3/2-way solenoid valve	3/2-way solenoid valve
<b>Actuation</b>	Electric, direct acting or via emergency manual override with position indicator		
<b>Product type</b>	ETV-12x -A .	ETV-117-C .	ETV-139-F .
<b>Function</b>	"A" in 0-position closed	"C" in 0-position "1" closed, "2" to "3" discharged	"F" in 0-position "1" to "2" closed, "1" to "4" open
<b>Nominal diameter</b>	DN 2 to DN 4		
<b>Connection</b>	ELSA push-in connectors for pipe/tube OD 6 (others on request)		
<b>Ambient temperature</b>	0 °C to +60 °C (others on request)		
<b>Medium temperature</b>	0 °C to +130 °C (others on request)		
<b>Medium viscosity</b>	up to approx. 35 mm <sup>2</sup> /s		
<b>Valve body and insert material</b>	PPA		
<b>O-ring material</b>	FKM, EPDM on request		
<b>Membran material</b>	FKM, EPDM on request		
<b>Union nut material</b>	Brass		
<b>Solenoid housing material</b>	Plastic-molded PBT, "H" (180 °C)		
<b>Mounting method</b>	with lock nut M14x1 or with self-tapping screws ISO 7049-ST3.5x6.5-C		
<b>Mounting position</b>	optional		
<b>Approval</b>	NSF/ANSI 169		
<b>PNEUMATIC - HYDRAULIC</b>			
<b>Nominal pressure [bar]</b>	up to PN 16 in accordance with the specification table		
<b>Pressure range</b>	0 bar up to allowable operating pressure OP in accordance with the specification table		
<b>Flow rate</b>	Kv-value in accordance with the specification table		
<b>Medium</b>	Gases or liquids which do not corrode the materials specified		
<b>Response time</b>	Opening time 10 to 25 ms; Closing time: 15 to 25 ms		
<b>ELECTRIC</b>			
<b>Nominal voltage</b>	24 V DC (other DC upon request)		
<b>Voltage tolerance</b>	±10 %		
<b>Nominal power P<sub>20</sub></b>	8 W		
<b>Duty cycle</b>	100 %		
<b>Electrical connection</b>	Spade terminals for spade connectors 6.3 x 0.8 mm, DIN 46247		
<b>Protection class according to EN 60529</b>	IP 00		