

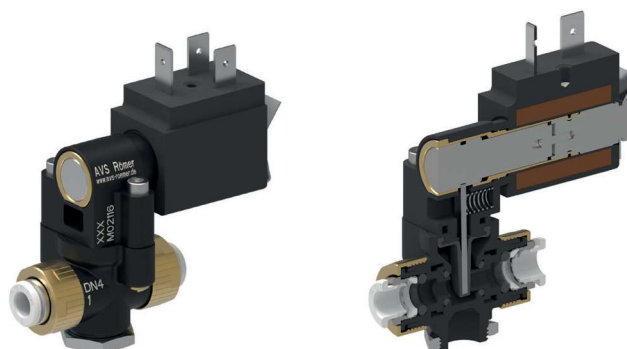
MAGMA Solenoid Valves Type ETV Series 400

MAGMA the 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-way 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
- easily disassembled, e.g. for cleaning
- insensitive to contamination
- thermal insulation between the electro-magnet and the medium
- emergency manual override with position indicator as standard
- materials and constructional design especially optimised for food applications
- IP class 65 possible

Variations / options:

- other tube connector
- other material for seal
- other nominal diameter or other pressure range
- version for vacuum
- other function (e.g. 3/2-way distribution valve)
- other nominal voltage
- 230 V AC using a bridge rectifier (see under cable sockets)

CHARACTERISTICS
GENERAL

Constructional design	Lever actuated seat valve with separating membrane	
Product name	2/2-way solenoid valve	3/2-way solenoid valve
Actuation	Electric, direct acting or by emergency manual override with position indicator	
Product type	ETV-422-A .	ETV-419-F .
Function	"A" in 0-position closed	"F" in 0-position "1" to "2" closed, "1" to "4" open
Nominal diameter	DN 4 (DN 1,5 - 6 on demand)	
Connection	ELSA push-in connectors for pipe/tube OD 6 (OD 4 OD 8 on request)	
Ambient temperature	0 °C to +60 °C	
Medium temperature	0 °C to +130 °C	
Medium viscosity	up to approx. 35 mm ² /s	
Valve body and insert material	PPA, PPSU	
Membrane and O-ring material	FKM and EPDM	
Solenoid housing material	PPS, EPDM (UL94-V0) plastic, insulation class "F"	
Mounting method	with M14x1 locknut	
Mounting position	optional	
Approval	NSF/ANSI 169	
PNEUMATIC - HYDRAULIC		
Nominal pressure	in accordance with the specification table	
Pressure range	0 bar up to allowable operating pressure OP in accordance with the specification table	
Flow rate	Kv-value in accordance with the specification table	
Medium	Gases or liquids which do not corrode the materials specified	
Response time	Opening time 10 to 25 ms; Closing time: 10 to 25 ms	
ELECTRIC		
Nominal voltage	24 V DC	
Voltage tolerance	±10 %	
Nominal power P₂₀	6 W	
Duty cycle	100 %, depending on the duty cycle the power consumption decreases by up to 20 %	
Electrical connection	11 mm - industry standard form B (DIN EN 175301 - 803)	
Protection class according to EN 60529	IP 00	

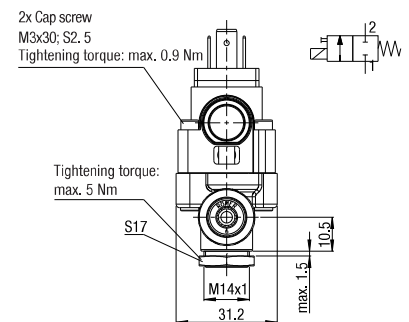
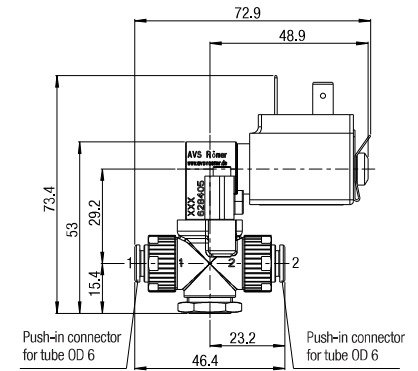
2/2-Way Coaxial Solenoid Valve - Type ETV Series 200

 Price group **56** "A" in 0-position closed (closing with the flow)


Plastic PPA

Irrespective of the information in the solenoid valve tables a housing temperature of +155 °C may not be exceeded. The value is limited to +120 °C with use of a cable socket. In case of doubt we are pleased to advise you.

DN	Kv-value water [l/min]	for tube OD	PN	Allow. OP [bar]	Seal material	Voltage / current	Type	Order number	Price
4	5	6	2	0-2	FKM	24 V DC	ETV-422-A40-6FF-024/=-H0	628407	o. r.
4	5	6	2	0-2	EPDM	24 V DC	ETV-422-A40-6PF-024/=-H0	628417	o. r.

Illustration

3/2-Way Coaxial Solenoid Valve - Type ETV Series 200

 Price group **56** "F" in 0-position "1" to "2" closed, "1" to "4" open


Plastic PPA

Irrespective of the information in the solenoid valve tables a housing temperature of +155 °C may not be exceeded. The value is limited to +120 °C with use of a cable socket. In case of doubt we are pleased to advise you.

DN	Kv-value water [l/min]	for tube OD	PN	Allow. OP [bar]	Seal material	Voltage / current	Type	Order number	Price
4	5	6	1.5	0-1.5	FKM	24 V DC	ETV-429-F40-6FF-024/=-H0	628537	o. r.
4	5	6	1.5	0-1.5	EPDM	24 V DC	ETV-429-F40-6PF-024/=-H0	628547	o. r.

Illustration
