

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

Constructional design	Lever actuated seat valve with separating membrane		
Product name	2/2-way solenoid valve	3/2-way solenoid valve	3/2-way solenoid valve
Actuation	Electric, direct acting or via emergency manual override with position indicator		
Product type	ETV-12x -A .	ETV-117-C .	ETV-139-F .
Function	"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
Nominal diameter	DN 2 to DN 6		
Connection	ELSA push-in connectors for pipe/tube OD 6 OD 8 (others on request)		
Ambient temperature	0 °C to +60 °C (others on request)		
Medium temperature	0 °C to +130 °C (others on request)		
Medium viscosity	up to approx. 35 mm ² /s		
Valve body and insert material	PPA		
O-ring material	FKM, EPDM on request		
Membran material	FKM, EPDM on request		
Union nut material	Brass		
Solenoid housing material	Plastic-molded PBT, "H" (180 °C)		
Mounting method	with lock nut M14x1 or with self-tapping screws ISO 7049-ST3,5x6,5-C		
Mounting position	optional		
Approval	NSF/ANSI 169		

PNEUMATIC - HYDRAULIC

Nominal pressure [bar]	up to PN 16 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: 15 to 25 ms

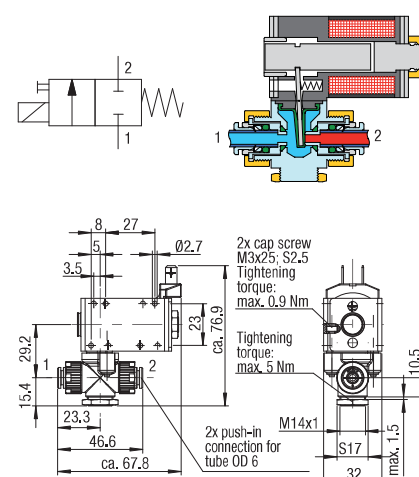
ELECTRIC

Nominal voltage	24 V DC (other DC upon request)
Voltage tolerance	±10 %
Nominal power P₂₀	8 W
Duty cycle	100 %
Electrical connection	Spade terminals for spade connectors 6,3 x 0,8 mm, DIN 46247
Protection class according to EN 60529	IP 00

2/2-Way Coaxial Solenoid Valve - Type ETV Series 100

Price group	56	"A" in 0-position closed (closing with the flow)					 		Plastic PPA	
DN	Kv-value water [l/min]	for tube OD	PN	Allow. OP [bar]	Seal material	Voltage / current	Type	Order number	Price	
2	1.8	6	16	0 - 16	FKM (FDA-compliant)	24 V DC	ETV-122-A20-6FF-024/=-R0	627003	o. r.	
3	3,4	6	16	0 - 16	FKM (FDA-compliant)	24 V DC	ETV-122-A30-6FF-024/=-R0	627008	o. r.	
4	5,4	6	8	0 - 8	FKM (FDA-compliant)	24 V DC	ETV-122-A40-6FF-024/=-R0	627010	o. r.	
6	11	8	2.5	0 - 2.5	FKM (FDA-compliant)	24 V DC	ETV-122-A60-8FF-024/=-R0	629013	o. r.	

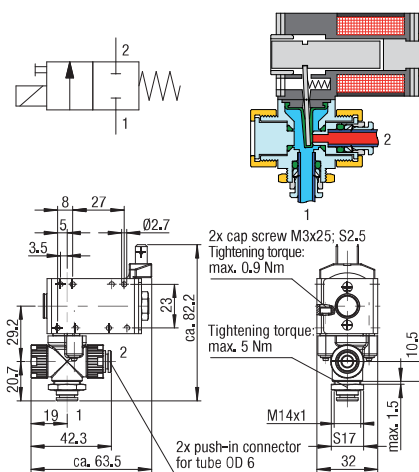
Illustration



2/2-Way 90° Solenoid Valve - Type ETV Series 100

Price group	56	"A" in 0-position closed (closing with the flow)					 		Plastic PPA	
DN	Kv-value water [l/min]	for tube OD	PN	Allow. OP [bar]	Seal material	Voltage / current	Type	Order number	Price	
2	1,8	6	16	0 - 16	FKM (FDA-compliant)	24 V DC	ETV-125-A20-6FF-024/=-R0	627033	o. r.	
3	3,4	6	16	0 - 16	FKM (FDA-compliant)	24 V DC	ETV-125-A30-6FF-024/=-R0	627038	o. r.	
4	5,4	6	8	0 - 8	FKM (FDA-compliant)	24 V DC	ETV-125-A40-6FF-024/=-R0	627040	o. r.	
6	9,9	8	2,5	0 - 2,5	FKM (FDA-compliant)	24 V DC	ETV-125-A60-8FF-024/=-R0	629023	o. r.	

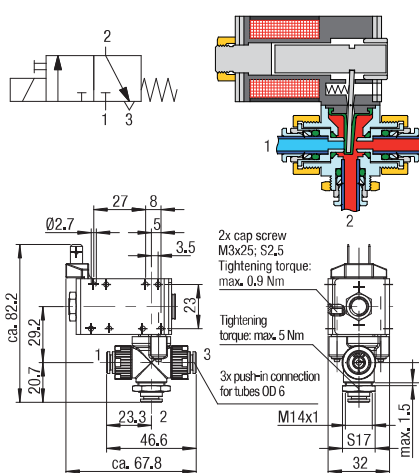
Illustration



3/2-Way Solenoid Valve - Type ETV Series 100

Price group	56	“C” in 0-position “1” closed, “2” to “3” discharged							Plastic PPA	
DN	Kv-value water [l/min]	for tube OD	PN	Allow. OP [bar]	Seal material	Voltage / current	Type	Order number	Price	
2	1.7	6	12.5	0 - 12.5	FKM (FDA-compliant)	24 V DC	ETV-117-C20-6FF-024/=-R0	627103	o. r.	
3	3.3	6	6	0 - 6	FKM (FDA-compliant)	24 V DC	ETV-117-C30-6FF-024/=-R0	627108	o. r.	
4	5.3	6	3	0 - 3	FKM (FDA-compliant)	24 V DC	ETV-117-C40-6FF-024/=-R0	627113	o. r.	
6	8.3	8	1	0 - 1	FKM (FDA-compliant)	24 V DC	ETV-117-C60-8FF-024/=-R0	629033	o. r.	

Illustration



3/2-Way Solenoid Valve - Type ETV Series 100

Price group **56**

"F" in 0-position "1" to "2" closed,
"1" to "4" open

Plastic
PPA

DN	Kv-value water [l/min]	for tube OD	PN	Allow. OP [bar]	Seal material	Voltage / current	Type	Order number	Price
2	1.8	6	10	0 - 10	FKM (FDA-compliant)	24 V DC	ETV-139-F20-6FF-024/=-R0	627153	o. r.
3	3.3	6	8	0 - 8	FKM (FDA-compliant)	24 V DC	ETV-139-F30-6FF-024/=-R0	627157	o. r.
4	5.3	6	6	0 - 6	FKM (FDA-compliant)	24 V DC	ETV-139-F40-6FF-024/=-R0	627161	o. r.
6	9.9	8	2	0 - 2	FKM (FDA-compliant)	24 V DC	ETV-139-F60-8FF-024/=-R0	629043	o. r.

Illustration

