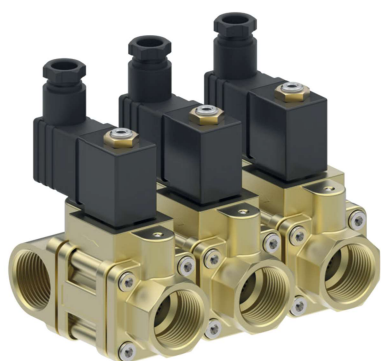


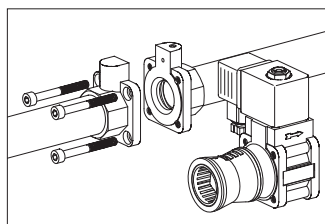
GAMMA Valves Series 100


An especially universal and robust valve series from DN 15 to DN 50 (G1/2 to G2) for the most varied applications in mechanical and apparatus construction.

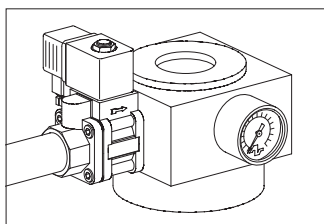
Dirt particles in the medium can lead to malfunction in the valves. It is therefore recommended to install a strainer, e.g. Type SMF-133..

The structural combination of various Types of valve, e.g. solenoid valves and pressure regulators, if required with sensors in multi function blocks, offers significant advantages:

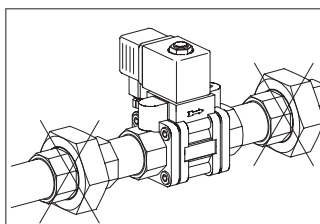
- saving of assembly time (pipework expenditure reduced by up to 85 %)
- saving of fittings
- enormous saving of construction space



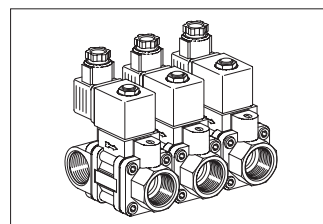
The main valve (intermediate flange valve) can be radially disassembled



Flange mount valves can be screwed onto pressure-bearing elements



Costly assembly of a detachable fitting is not required



Valve batteries up to DN 50 (G 2) with various operation Types and functional applications

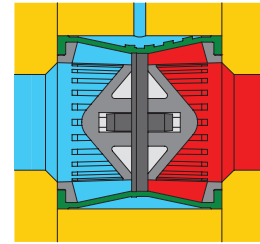
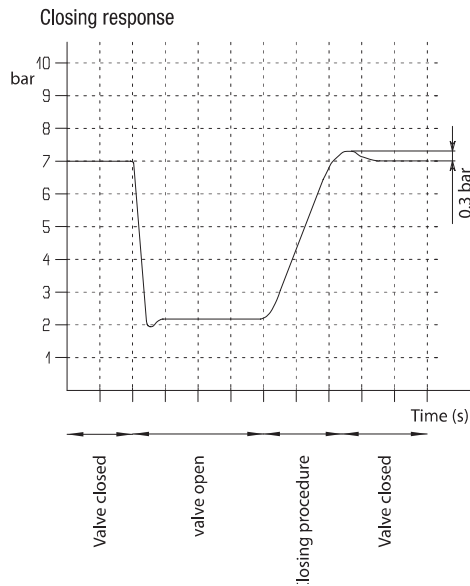
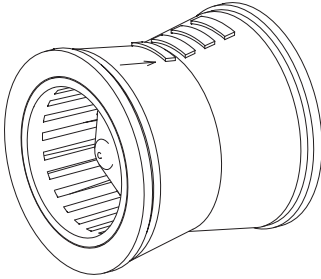
CHARACTERISTICS
GENERAL

Constructional design	low noise membrane valve with coaxial flow				
Product name	2/2-way solenoid valve servo-controlled	2/2-way solenoid valve with pressure regulator servo-controlled	2/2-way valve pressure operated by external or own medium	Hand-adjustable pressure regulator valve servo controlled	Valve batteries (all variants)
Product type	EGV	EGR	PGV	RGV	all previously named
Nominal diameter	DN 15 to DN 50				
Port size	G 1/2 to G 2				
Ambient temperature	-20 °C to +60 °C (others on request)				
Medium temperature	for NBR: -10 °C to +90 °C for FKM and EPDM: -10 °C to +130 °C (for exceptions see table)				
Medium viscosity	up to ca. 20 mm ² /s				
Valve body material	Ms				
Membrane support unit material	reinforced synthetic material (others on request)				
Other internal component material	Stainless steel and non-ferrous metal				
Material sealing material	NBR (nitrile rubber), EPDM (ethylene propylene) or FKM (fluoride rubber) (others on request)				
Mounting method	Installation in rigid pipe system or using mounting bracket (see accessories)				
Mounting position	optional, preferably upright				
PNEUMATIC - HYDRAULIC					
Nominal pressure (bar)	according to Type table. The numerical value of the nominal pressure PN signifies the permitted operating pressure OP in bar at 60 °C ambient temperature and 60 °C medium temperature. Insofar as two values are given, the first value refers to solenoid coil with highest electrical power consumption, the second value to that with lowest power consumption.				
Pressure range	0.2 bar up to permitted operating pressure OP according to table. 0 to 16 bar version is also Possible for Type EGV function "Z" and Type PGV				
Flow rate	Kv-value according to Type table (full flow with pressure difference of 0.3 bar or higher)				
Medium	gaseous or fluids Sealing material NBR: e.g. compressed air, water, hydraulic fluids, neutral gases Sealing material EPDM: e.g. hot water Sealing material FKM: e.g. solvents, hot water, hot air above 90 °C				
Response time	Opening time: 20 ms to 2 s closing time: 25 ms to 5 s, according to flow medium and DN				
Electric	see solenoid coils				

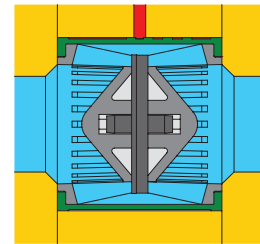
AVS GAMMA valves

Low noise automatic with membraneclosing
GAMMA the perfect valve concept from AVS Römer

closure unit



Closed



Open

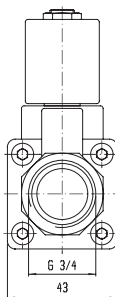
The patented, coaxial constructional design enables advantageous membrane support, in both positions. The optimal heat emission of the open membrane resting on the coil reduces its thermal load. Both sets of circumstances are responsible for the extraordinarily high durability and also with pulsating compressed air. Furthermore the low masses moved enable extremely short response times, if desired.

Further advantages:

- no pressure surges of fluids, minimised flow noises
- also very suitable for compressed air and other gases
- large pressure range (application from 0 bar also Possible)
- large variety of materials (plastic and elastomer components are manufactured in-house)
- the very compact closure unit with rotational symmetry enables very easy structuring of valve coil or special valve batteries

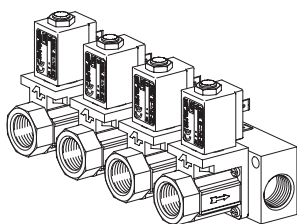
Description

Structural width



The low structural width permits small pipe spacing for single valves and high installation density for valve batteries.

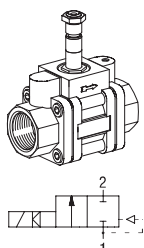
Valve batteries

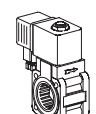

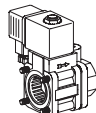

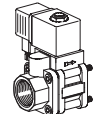
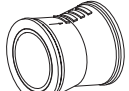
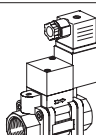
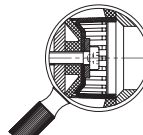


DN 12 to DN 50 (G 1/2 to G 2) single valve to 1normal fold battery.

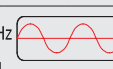
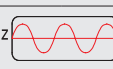
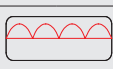
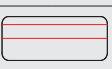
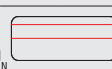
2/2-Way Solenoid Valve - Type EGV Series 100

Price group 53	Function "A" normally closed	low noise and impact-free closing, for neutral, gaseous or fluids	Brass
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Version	DN	Kv-value water [m³/h]	G	PN	Possible Type of power	Sealing material	Type (Partial solenoid valve without solenoid coil)	Order number	Price
Valve without solenoid coil Permitted operating pressure 0.2 bar up to value according to table below. 	15	5.6	G 1/2	16/8	AC/DC	NBR	EGV-111-A78-1/2BN-00	613501	o. r.
	15	5.6	G 1/2	16/8	AC/DC	EPDM	EGV-111-A78-1/2PN-00	613503	o. r.
	15	5.6	G 1/2	16/8	AC/DC	FKM	EGV-111-A78-1/2FN-00	613505	o. r.
	20	7.6	G 3/4	16/8	AC/DC	NBR	EGV-111-A78-3/4BN-00	613521	o. r.
	20	7.6	G 3/4	16/8	AC/DC	EPDM	EGV-111-A78-3/4PN-00	613523	o. r.
	20	7.6	G 3/4	16/8	AC/DC	FKM	EGV-111-A78-3/4FN-00	613525	o. r.
	25	16.8	G 1	16/8	AC/DC	NBR	EGV-111-A78-1BN-00	613551	o. r.
	25	16.8	G 1	16/8	AC/DC	EPDM	EGV-111-A78-1PN-00	613553	o. r.
	25	16.8	G 1	16/8	AC/DC	FKM	EGV-111-A78-1FN-00	613555	o. r.
	32	21	G 1 1/4	16/8	AC/DC	NBR	EGV-111-A78-5/4BN-00	613571	o. r.
	32	21	G 1 1/4	16/8	AC/DC	EPDM	EGV-111-A78-5/4PN-00	613573	o. r.
	32	21	G 1 1/4	16/8	AC/DC	FKM	EGV-111-A78-5/4FN-00	613575	o. r.
	40	29.5	G 1 1/2	16/8	AC/DC	NBR	EGV-111-A78-6/4BN-00	613601	o. r.
	40	29.5	G 1 1/2	16/8	AC/DC	EPDM	EGV-111-A78-6/4PN-00	613603	o. r.
	40	29.5	G 1 1/2	16/8	AC/DC	FKM	EGV-111-A78-6/4FN-00	613605	o. r.
	50	35	G 2	16/8	AC/DC	NBR	EGV-111-A78-2BN-00	613621	o. r.
	50	35	G 2	16/8	AC/DC	EPDM	EGV-111-A78-2PN-00	613623	o. r.
50	35	G 2	16/8	AC/DC	FKM	EGV-111-A78-2FN-00	613625	o. r.	

Variations		Options	
	2/2-way intermediate flange solenoid valve Flange-side 4 through bores: Type EGV-111-AHL-...		Manual override Type EGV-112-... This limits: permitted operating pressure: 12.5 bar permitted Medium temperature: max. 60 °C
	2/2-way flange mount solenoid valve Flange-side pressure inlet Type EGV-111-AH9-...		increases resistance to corrosion and replaces stainless steel valves cost-effectively for many flow media Type EGV-111Q-...
	2/2-way flange mount Solenoid valve Thread-side pressure inlet Type EGV-111-A7L-		Membrane made of other material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils
	2/2-way solenoid valve Rapid function version with 3/2-way servo-control especially for compressed air Type EGV-161-A96-...BP-00		Non-return valve integrated outlet-side in the gate unit Type EGV-111-A78-./-T-.. This only blocks up to the following pressure difference: DN 15 to DN 32: 10 bar DN 40 to DN 50: 8 bar
		EX protection only up to 10 bar	Type EGV-1004-A.-230/5normal EEX m II T5 or -024/ = -EEX m II T5 respectively with 3m cable A fuse (max. 3 x I _{Nenn}) must be installed before the solenoid valve!

Permitted Operating Pressure OP

DN	Type	PN	Combinable solenoid coil			Permitted operating pressure OP [bar] at ambient temperature +60 °C																
			Type	Nominal power P ₂₀			AC 50 Hz  90 %U _N Medium temperature			AC 60 Hz  90 %U _N Medium temperature			DC  90 %U _N Medium temperature			DC  90 %U _N Medium temperature			DC  100 %U _N Medium temperature			
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	
				on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.
15 to 32	EGV-111-A..	16/8	E22...L.	3.5	on req.	2.5	8	on req.	on req.	7	on req.	on req.	6	5	4	4	3	2	6	5	4	
			E22...M.	5.5	5	5	16	16	16	16	16	16	16	16	14	12	10	8	15	13	12	
			E22...H.	-	-	8	-	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E30...P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
40 and 50	EGV-111-A..	16/8	E22...L.	3.5	on req.	2.5	8	on req.	on req.	7	on req.	on req.	5	4	3	3	2	2	5	4	3	
			E22...M.	5.5	5	5	16	16	16	16	16	16	12	10	8	8	7	6	12	10	9	
			E22...H.	-	-	8	-	-	-	-	-	-	16	16	16	12	10	9	16	14	10	
			E30...P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16

Function

Price group 53	Function "A" normally closed	low noise and impact-free closing, for neutral, gaseous or fluids	Brass
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Operating position	Description	Function
	<p>In normal position - magnetic system without power - its resting seat is closed, Pressure thus builds up in the control chamber, which due to the larger effective membrane surface holds the membrane in "closed" position.</p> <p>In operational position - magnetic system under power - its seat is open, the control chamber discharged and the membrane is held by the flow medium in the "open" position, A minimum pressure difference is required for this operation.</p>	

Illustration

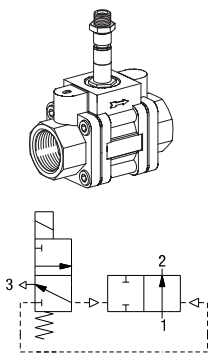
Cable socked adaptable with solenoid coil E22 by 2 x 180°, with E30 by 4 x 90° repositionable. Both solenoid coils 360° turnable.

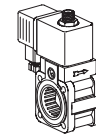


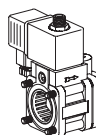
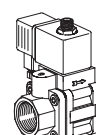
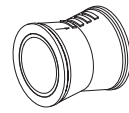
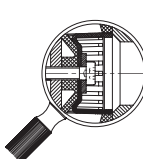
Dimensions **Mounting Accessories**

DN	G	L	I	M	L1	L2	H	S	Illustration	Suitable for valves	Type	Order number	Price
15	G 1/2	68.4	13.5	34.2	72	93.5	43	27		G 1/2 + G 3/4 DN 15 and DN 20	ZGV-10normal D2normal 52	616252	o. r.
20	G 3/4	80.4	15.5	40.2	72	93.5	43	32					
25	G 1	94	17	47	80	109.5	59	41					
32	G 1 1/4	112	19	56	80	109.5	59	50					
40	G 1 1/2	132	21	66	93.5	137	87	55					
50	G 2	160	24,5	80	93	136,5	87	70					
										G 1 + G 1 1/4 DN 25 and DN 32	ZGV-10normal D32-62	616262	o. r.

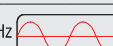
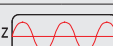



2/2-Way Solenoid Valve - Type EGV Series 100

Price group	53	Function "B" normally open	low noise and impact-free closing, for neutral, gaseous or fluids	Brass
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Version	DN	Kv-value water [m³/h]	G	PN	Possible Type of power	Sealing material	Type (Partial solenoid valve without solenoid coil)	Order number	Price
Valve without solenoid coil Permitted operating pressure 0.2 bar up to valve according to table below. 	15	5.6	G 1/2	16	AC/DC	NBR	EGV-111-B96-1/2BP-00	613701	o. r.
	15	5.6	G 1/2	16	AC/DC	EPDM	EGV-111-B96-1/2PP-00	613703	o. r.
	15	5.6	G 1/2	16	AC/DC	FKM	EGV-111-B96-1/2FP-00	613705	o. r.
	20	7.6	G 3/4	16	AC/DC	NBR	EGV-111-B96-3/4BP-00	613721	o. r.
	20	7.6	G 3/4	16	AC/DC	EPDM	EGV-111-B96-3/4PP-00	613723	o. r.
	20	7.6	G 3/4	16	AC/DC	FKM	EGV-111-B96-3/4FP-00	613725	o. r.
	25	16.8	G 1	16	AC/DC	NBR	EGV-111-B96-1BP-00	613751	o. r.
	25	16.8	G 1	16	AC/DC	EPDM	EGV-111-B96-1PP-00	613753	o. r.
	25	16.8	G 1	16	AC/DC	FKM	EGV-111-B96-1FP-00	613755	o. r.
	32	21	G 1 1/4	16	AC/DC	NBR	EGV-111-B96-5/4BP-00	613771	o. r.
	32	21	G 1 1/4	16	AC/DC	EPDM	EGV-111-B96-5/4PP-00	613773	o. r.
	32	21	G 1 1/4	16	AC/DC	FKM	EGV-111-B96-5/4FP-00	613775	o. r.
	40	29.5	G 1 1/2	16	AC/DC	NBR	EGV-111-B96-6/4BP-00	613801	o. r.
	40	29.5	G 1 1/2	16	AC/DC	EPDM	EGV-111-B96-6/4PP-00	613803	o. r.
	40	29.5	G 1 1/2	16	AC/DC	FKM	EGV-111-B96-6/4FP-00	613805	o. r.
	50	35	G 2	16	AC/DC	NBR	EGV-111-B96-2BP-00	613821	o. r.
	50	35	G 2	16	AC/DC	EPDM	EGV-111-B96-2PP-00	613823	o. r.
	50	35	G 2	16	AC/DC	FKM	EGV-111-B96-2FP-00	613825	o. r.

Variations		Options			
	2/2-way intermediate flange Solenoid valve Flange-side 4 through bores: Type EGV-111-BLH-...		Manual override Type EGV-112-... This limits: permitted operating pressure: 12.5 bar permitted Medium temperature: max. 60 °C		increases resistance to corrosion and replaces stainless steel valves cost-effectively for many fluids Type EGV-111Q-...
	2/2-way flange mount Solenoid valve Flange-side pressure inlet Type EGV-111-BL7-...				
	2/2-way flange mount Solenoid valve Thread-side pressure inlet Type EGV-111-B9H-...		Membrane made of other material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils		Non-return valve integrated in the outlet-side of the closure Type EGV-111-B96-../T-... This isolat only up to the following pressure difference: DN 15 to DN 32: 10 bar DN 40 to DN 50: 8 bar

Permitted Operating Pressure OP

DN	Type	PN	Combinable solenoid coil			Permitted operating pressure OP [bar] at ambient temperature +60 °C																
			Type	Nominal power P ₂₀			AC 50 Hz  90 %U _N Medium temperature			AC 60 Hz  90 %U _N Medium temperature			DC  90 %U _N Medium temperature			DC  90 %U _N Medium temperature			DC  100 %U _N Medium temperature			
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	
				on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.
15 to 50	EGV-111-B..	16	E22...L.	3.5	on req.	2.5	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.		
			E22...M.	5.5	5	5	16	16	16	16	16	16	16	16	on req.	on req.	on req.	on req.	on req.	on req.	on req.	
			E22...H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16	16
			E30...P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16

Function

Price group **53**

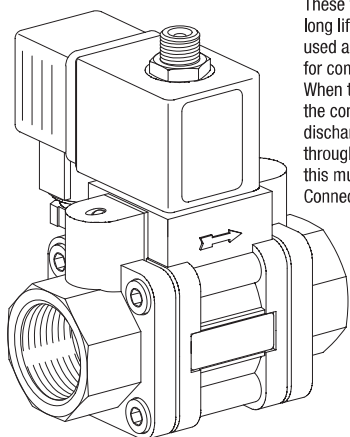
Function "B" normally open

low noise and impact-free closing, for neutral, gaseous or fluids

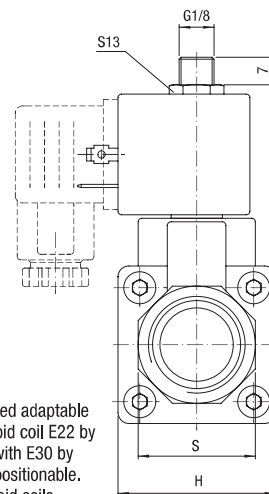
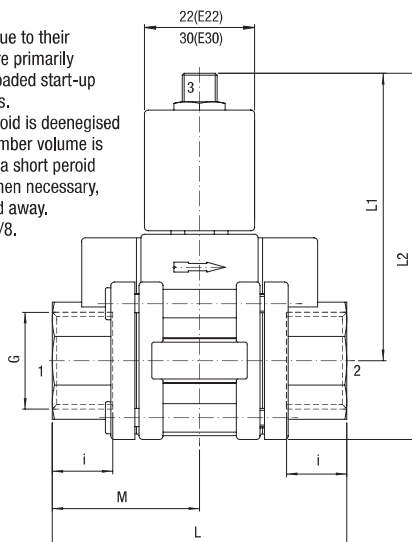
Brass

Operating position	Description	Function
	<p>In normal position - magnetic system without power - its resting seat is closed and its operational seat open. Thereby the control chamber is discharged over "3" and the membrane held in the "open" position by the flow medium. A minimum pressure difference is required for this operation.</p> <p>In operational position - magnetic system under power - its seat is open and its operational seat closed. Pressure builds up in the control chamber, which due to the larger effective membrane surface holds the membrane in "closed" position.</p>	

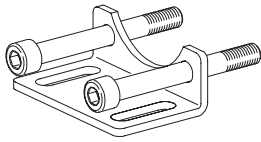
Illustration



These valves, due to their long lifetime, are primarily used as an unloaded start-up for compressors. When the solenoid is deenergised the control chamber volume is discharged for a short period through "3". When necessary, this must be led away. Connection G 1/8.

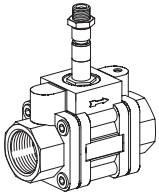
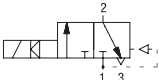


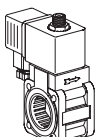

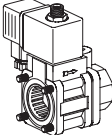

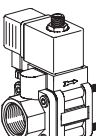

Cable socked adaptable with solenoid coil E22 by 2 x 180°, with E30 by 4 x 90° repositionable. Both solenoid coils 360° turnable.

Dimensions										Mounting Accessories							
DN	G	L	I	M	L1	L2	H	S									
15	G 1/2	68.4	13.5	34.2	78	99.5	43	27									
20	G 3/4	80.4	15.5	40.2	78	99.5	43	32						G 1/2 + G 3/4 DN 15 and DN 20	ZGV-10normal D2normal 52	616252	o. r.
25	G 1	94	19	47	86,5	116	59	41						G 1 + G 1 1/4 DN 25 and DN 32	ZGV-10normal D32-62	616262	o. r.
32	G 1 1/4	112	19	56	86	115,5	59	50									
40	G 1 1/2	132	21	66	99,5	143	87	55									
50	G 2	160	26	80	99	142,5	87	70									

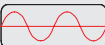
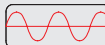
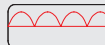
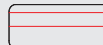
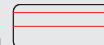
2/2-Way Solenoid Valve - Type EGV Series 100

Price group 53	"C" in 0 position "1" closed, "2" after "3" discharged	low noise and impact-free closing, for neutral, gaseous or fluids	Brass
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Version	DN	Kv-value water [m ³ /h]	G	PN	Possible Type of power	Sealing material	Type (Partial solenoid valve without solenoid coil)	Order number	Price
Valve discharge seat ND 1,8 without solenoid coil Permitted operating pressure 0.2 bar up to value according to table below.  	15	5,6	G 1/2	12,5	AC/DC	NBR	EGV-121-C78-1/2BN-00	618801	o. r.
	15	5,6	G 1/2	12,5	AC/DC	EPDM	EGV-121-C78-1/2PN-00	618803	o. r.
	15	5,6	G 1/2	12,5	AC/DC	FKM	EGV-121-C78-1/2FN-00	618805	o. r.
	20	7,6	G 3/4	12,5	AC/DC	NBR	EGV-121-C78-3/4BN-00	618821	o. r.
	20	7,6	G 3/4	12,5	AC/DC	EPDM	EGV-121-C78-3/4PN-00	618823	o. r.
	20	7,6	G 3/4	12,5	AC/DC	FKM	EGV-121-C78-3/4FN-00	618825	o. r.
	25	16,8	G 1	12,5	AC/DC	NBR	EGV-121-C78-1BN-00	618851	o. r.
	25	16,8	G 1	12,5	AC/DC	EPDM	EGV-121-C78-1PN-00	618853	o. r.
	25	16,8	G 1	12,5	AC/DC	FKM	EGV-121-C78-1FN-00	618855	o. r.
	32	21	G 1 1/4	10	AC/DC	NBR	EGV-121-C78-5/4BN-00	618871	o. r.
	32	21	G 1 1/4	10	AC/DC	EPDM	EGV-121-C78-5/4PN-00	618873	o. r.
	32	21	G 1 1/4	10	AC/DC	FKM	EGV-121-C78-5/4FN-00	618875	o. r.
	40	29,5	G 1 1/2	10	AC/DC	NBR	EGV-121-C78-6/4BN-00	618901	o. r.
	40	29,5	G 1 1/2	10	AC/DC	EPDM	EGV-121-C78-6/4PN-00	618903	o. r.
	40	29,5	G 1 1/2	10	AC/DC	FKM	EGV-121-C78-6/4FN-00	618905	o. r.
	50	35	G 2	10	AC/DC	NBR	EGV-121-C78-2BN-00	618921	o. r.
	50	35	G 2	10	AC/DC	EPDM	EGV-121-C78-2PN-00	618923	o. r.
50	35	G 2	10	AC/DC	FKM	EGV-121-C78-2FN-00	618925	o. r.	

Variations	Options
 <p>2/2-way intermediate flange Solenoid valve Flange-side 4 through bores: Type EGV-121-CHL-...</p>	 <p>Manual override Type EGV-122-... This limits: permitted operating pressure: 12.5 bar permitted Medium temperature: max. 60 °C</p>
 <p>2/2-way flange mount Solenoid valve Flange-side pressure inlet Type EGV-121-CH9-...</p>	 <p>Membrane made of other material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils</p>
 <p>2/2-way flange mount Solenoid valve Thread-side pressure inlet Type EGV-121-C7L-...</p>	 <p>increases resistance to corrosion, and replaces stainless steel valves cost-effectively for many flow media Type EGV-121Q-...</p>

Permitted Operating Pressure OP

DN	Type	PN	Combinable solenoid coil			Permitted operating pressure OP [bar] at ambient temperature +60 °C															
			Type	Nominal power P ₂₀			AC 50 Hz  90 %U _N Medium temperature			AC 60 Hz  90 %U _N Medium temperature			DC  90 %U _N Medium temperature			DC  90 %U _N Medium temperature			DC  100 %U _N Medium temperature		
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C
				on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.
15 to 32	EGV-121-C..	12,5	E22...L.	3,5	on req.	2,5	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	
			E22...M.	5,5	5	5	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5
			E22...H.	-	-	8	-	-	-	-	-	-	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5
			E30...P.	12	10,5	8	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5
40 and 50	EGV-121-C..	10	E22...L.	3,5	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	
			E22...M.	5,5	5	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
			E22...H.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
			E30...P.	12	10,5	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

Function

Price group **53**

"C" in 0 position "1" closed, "2" after "3" discharged

low noise and impact-free closing, for neutral, gaseous or fluids

Brass

Operating position	Description	Function
	<p>In normal position - magnetic system without power - its resting seat is closed. Pressure thus builds up in the control chamber, which due to the larger effective membrane surface holds the membrane in "closed" position.</p> <p>In operational position - magnetic system under power - its seat is open, the control chamber discharged and the membrane is held by the medium in "open" position. A minimum pressure difference is required for this operation.</p>	

Illustration

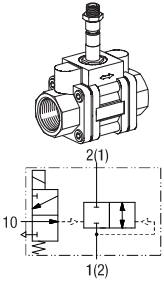
These valves with secondary discharge are primarily used where a downstream compressed air load should be relieved deenergised.

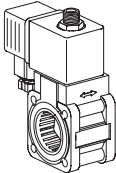

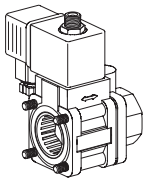
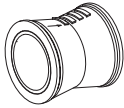


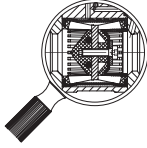
Cable socked adaptable with solenoid coil E22 by 2 x 180°, with E30 by 4 x 90° repositionable. Both solenoid coils 360° turnable.

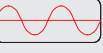
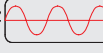
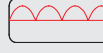


Dimensions									Mounting Accessories				
DN	G	L	I	M	L1	L2	H	S	Illustration	Suitable for valves	Type	Order number	Price
15	G 1/2	68.4	13.5	34.2	78	100	43	27		G 1/2 + G 3/4 DN 15 and DN 20	ZGV-10normal D2normal 52	616252	o. r.
20	G 3/4	80.4	15.5	40.2	78	99.5	43	32					
25	G 1	94	17	47	86	115.5	59	41		G 1 + G 1 1/4 DN 25 and DN 32	ZGV-10normal D32-62	616262	o. r.
32	G 1 1/4	112	19	56	86	115.5	59	50					
40	G 1 1/2	132	21	66	99.5	143	87	55					
50	G 2	160	24.5	80	99.5	143	87	70					

2/2-Way Solenoid Valve - Type EGV Series 100

Price group 53	Function "Z" normally closed, auxiliary pressure at X, at least 1 bar above OP.	low noise and impact-free closing, for neutral, gaseous or fluids	Brass
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Version	DN	Kv-value water [m³/h]	G	PN	Possible type of power	Sealing material	Type	Order number	Price
Valve without solenoid coil Permitted operating pressure 0.2 bar up to value according to table below, double-sided isolating. Permitted control pressure at "10": ≥ Operating pressure, max. 16 bar 	15	5.6	G 1/2	16	AC/DC	NBR	EGV-111-Z76-1/2BP-00	613901	o. r.
	15	5.6	G 1/2	16	AC/DC	EPDM	EGV-111-Z76-1/2PP-00	613903	o. r.
	15	5.6	G 1/2	16	AC/DC	FKM	EGV-111-Z76-1/2FP-00	613905	o. r.
	20	7.6	G 3/4	16	AC/DC	NBR	EGV-111-Z76-3/4BP-00	613911	o. r.
	20	7.6	G 3/4	16	AC/DC	EPDM	EGV-111-Z76-3/4PP-00	613913	o. r.
	20	7.6	G 3/4	16	AC/DC	FKM	EGV-111-Z76-3/4FP-00	613915	o. r.
	25	16.8	G 1	16	AC/DC	NBR	EGV-111-Z76-1BP-00	613921	o. r.
	25	16.8	G 1	16	AC/DC	EPDM	EGV-111-Z76-1PP-00	613923	o. r.
	25	16.8	G 1	16	AC/DC	FKM	EGV-111-Z76-1FP-00	613925	o. r.
	32	21	G 1 1/4	16	AC/DC	NBR	EGV-111-Z76-5/4BP-00	613931	o. r.
	32	21	G 1 1/4	16	AC/DC	EPDM	EGV-111-Z76-5/4PP-00	613933	o. r.
	32	21	G 1 1/4	16	AC/DC	FKM	EGV-111-Z76-5/4FP-00	613935	o. r.
	40	29.5	G 1 1/2	16	AC/DC	NBR	EGV-111-Z76-6/4BP-00	613941	o. r.
	40	29.5	G 1 1/2	16	AC/DC	EPDM	EGV-111-Z76-6/4PP-00	613943	o. r.
	40	29.5	G 1 1/2	16	AC/DC	FKM	EGV-111-Z76-6/4FP-00	613945	o. r.
	50	35	G 2	16	AC/DC	NBR	EGV-111-Z76-2BP-00	613961	o. r.
50	35	G 2	16	AC/DC	EPDM	EGV-111-Z76-2PP-00	613963	o. r.	
50	35	G 2	16	AC/DC	FKM	EGV-111-Z76-2FP-00	613965	o. r.	

Variations		Options	
	2/2-way intermediate flange Solenoid valve Flange-side 4 through bores: Type EGV-111-ZHL-...		Manual override Type EGV-112-... This limits: permitted operating pressure: 12.5 bar permitted Medium temperature: max. 60 °C
	2/2-way flange mount Solenoid valve Flange-side pressure inlet Type EGV-111-ZH7-...		Membrane made of other material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils
			Connector G1/8 in outlet-port flange for discharging the control medium Type EGV-111-Z74-..
			increases resistance to corrosion and replaces stainless steel valves cost-effectively for medium Type EGV-111Q-...
			normal pressure membrane requires no differential pressure to open, however to close it requires control pressure 1 bar above operating pressure Type EGV-111-Z76-../.O-..

Permitted Operating Pressure OP			Permitted operating pressure OP [bar] at ambient temperature +60 °C																			
DN	Type	PN	Combinable solenoid coil			Permitted operating pressure OP [bar] at ambient temperature +60 °C																
			Type	Nominal power P ₂₀			AC 50 Hz 90 %U _N 			AC 60 Hz 90 %U _N 			DC 90 %U _N 			DC 90 %U _N 			DC 100 %U _N 			
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	
15 to 50	EGV-111-Z..	16	E22...L.	3.5	on req.	2.5	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.		
			E22...M.	5.5	5	5	16	16	16	16	16	16	16	16	on req.	on req.	on req.	on req.	on req.	on req.	on req.	
			E22...H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16	16
			E30...P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16

Function

Price group 53	Function "Z" normally closed, auxiliary pressure at X, at least 1 bar above OP.	low noise and impact-free closing, for neutral, gaseous or fluids	Brass
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Operating position	Description	Function
	<p>In normal position - magnetic system without power - its seat is closed. The auxiliary pressure accumulated at "10" builds up in the control chamber and holds the membrane in "closed" position.</p> <p>In operational position - magnetic system under power - its seat is closed. The control chamber is discharged by the open seat and the membrane held in "open" position by the medium. A minimum pressure difference is required for this operation (except normal pressure membrane as listed under Options).</p>	

Illustration

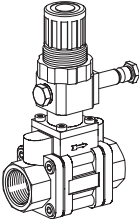
These valves can also be used for dirty medium by the application, depending on constructional design, of an external medium, e.g. compressed air, for controlling the membrane. A typical application is the drainage of condensation from compressed air networks.

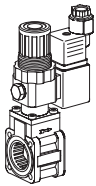


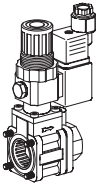
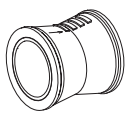
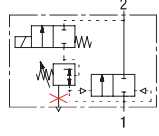
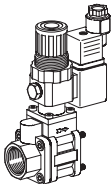
Cable socked adaptable with solenoid coil E22 by 2 x 180°, with E30 by 4 x 90° repositionable. Both solenoid coils 360° turnable.

Dimensions **Mounting Accessories**

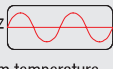
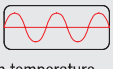
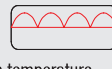
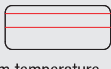
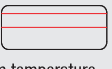
DN	G	L	I	M	L1	L2	H	S	Illustration	Suitable for valves	Type	Order number	Price
15	G 1/2	68.4	13.5	34.2	78	99.5	43	27		G 1/2 + G 3/4 DN 15 and DN 20	ZGV-10normal D2normal 52	616252	o. r.
20	G 3/4	80.4	15.5	40.2	78	99.5	43	32					
25	G 1	94	17	47	86	115.5	59	41		G 1 + G 1 1/4 DN 25 and DN 32	ZGV-10normal D32-62	616262	o. r.
32	G 1 1/4	112	19	56	86	115.5	59	50					
40	G 1 1/2	132	21	66	99.5	143	87	55					
50	G 2	160	24,5	80	99.5	143	87	70					

2/2-Way Solenoid Valve - Type EGR Series 100

Price group 53	Function "C" closed in normal position, with secondary discharge	low noise and impact-free closing, for neutral, gaseous media (liquid optional)	Amb. temp. $T_{min} -20\text{ }^{\circ}\text{C}$, $T_{max} +60\text{ }^{\circ}\text{C}$ Med.-Temp. $T_{min} -10\text{ }^{\circ}\text{C}$, $T_{max} +90\text{ }^{\circ}\text{C}$		Brass					
Version	Secondary pressure [bar]	DN	Flow air [l/min]	G	PN	Possible type of power	Sealing material	Type	Order number	Price
Valve without solenoid coil without pressure gauge Permitted operating pressure 0.5 bar up to valve according to table below. 	0.5 - 10	15	260 to 2,600	G 1/2	16 / 8	AC/DC	NBR	EGR-151-1C78-1/2BN-00	654201	o. r.
	0.5 - 3	15	260 to 2,600	G 1/2	16 / 8	AC/DC	NBR	EGR-151-3C78-1/2BN-00	654202	o. r.
	0.5 - 6	15	260 to 2,600	G 1/2	16 / 8	AC/DC	NBR	EGR-151-6C78-1/2BN-00	654203	o. r.
	0.5 - 10	20	360 to 3,600	G 3/4	16 / 8	AC/DC	NBR	EGR-151-1C78-3/4BN-00	654301	o. r.
	0.5 - 3	20	360 to 3,600	G 3/4	16 / 8	AC/DC	NBR	EGR-151-3C78-3/4BN-00	654302	o. r.
	0.5 - 6	20	360 to 3,600	G 3/4	16 / 8	AC/DC	NBR	EGR-151-6C78-3/4BN-00	654303	o. r.
	0.5 - 10	25	800 to 8,000	G 1	16 / 8	AC/DC	NBR	EGR-151-1C78-1BN-00	654401	o. r.
	0.5 - 3	25	800 to 8,000	G 1	16 / 8	AC/DC	NBR	EGR-151-3C78-1BN-00	654402	o. r.
	0.5 - 6	25	800 to 8,000	G 1	16 / 8	AC/DC	NBR	EGR-151-6C78-1BN-00	654403	o. r.
	0.5 - 10	32	1,000 to 10,000	G 1 1/4	16 / 8	AC/DC	NBR	EGR-151-1C78-5/4BN-00	654501	o. r.
	0.5 - 3	32	1,000 to 10,000	G 1 1/4	16 / 8	AC/DC	NBR	EGR-151-3C78-5/4BN-00	654502	o. r.
	0.5 - 6	32	1,000 to 10,000	G 1 1/4	16 / 8	AC/DC	NBR	EGR-151-6C78-5/4BN-00	654503	o. r.
	0.5 - 10	40	1,400 to 14,000	G 1 1/2	16 / 8	AC/DC	NBR	EGR-151-1C78-6/4BN-00	654601	o. r.
	0.5 - 3	40	1,400 to 14,000	G 1 1/2	16 / 8	AC/DC	NBR	EGR-151-3C78-6/4BN-00	654602	o. r.
	0.5 - 6	40	1,400 to 14,000	G 1 1/2	16 / 8	AC/DC	NBR	EGR-151-6C78-6/4BN-00	654603	o. r.
	0.5 - 10	50	1,650 to 16,500	G 2	16 / 8	AC/DC	NBR	EGR-151-1C78-2BN-00	654701	o. r.
0.5 - 3	50	1,650 to 16,500	G 2	16 / 8	AC/DC	NBR	EGR-151-3C78-2BN-00	654702	o. r.	
0.5 - 6	50	1,650 to 16,500	G 2	16 / 8	AC/DC	NBR	EGR-151-6C78-2BN-00	654703	o. r.	

Variations		Options				
	2/2-way intermediate flange solenoid valve with pressure regulator Flange-side 4 through bores: Type EGR-151-.CHL-...		Manual override Type EGR-152-... This limits: permitted operating pressure: 12.5 bar permitted Medium temperature: max. 60 °C			increases resistance to corrosion, and replaces stainless steel valves cost-effectively for many medium Type EGR-151Q-...
	2/2-way flange mount solenoid valve with pressure regulator Flange-side pressure inlet Type EGR-151-.CH9-...			Membrane made of other material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils		
	2/2-way flange mount solenoid valve with pressure regulator Thread-side pressure inlet Type EGR-151-.C7L-...					

Permitted Operating Pressure OP

DN	Type	PN	Combinable solenoid coil			Permitted operating pressure OP [bar] at ambient temperature +60 °C											
			Type	Nominal power P_{20}			AC 50 Hz $90\%U_N$ 		AC 60 Hz $90\%U_N$ 		DC $90\%U_N$ 		DC $90\%U_N$ 		DC $100\%U_N$ 		
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	60 °C	90 °C	60 °C	90 °C	60 °C	90 °C	60 °C	90 °C	60 °C	90 °C	
15 to 32	EGR-151-C..	16/8	E22...L.	3.5	on req.	2.5	8	on req.	7	on req.	6	5	4	3	6	5	
			E22...M.	5.5	5	5	16	16	16	16	16	16	12	10	15	13	
			E22...H.	-	-	8	-	-	-	-	16	16	16	16	16	16	16
			E30...P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16
40 and 50	EGR-151-C..	16/8	E22...L.	3.5	on req.	2.5	8	on req.	7	on req.	5	4	3	2	5	4	
			E22...M.	5.5	5	5	16	16	16	16	12	10	8	7	12	10	
			E22...H.	-	-	8	-	-	-	-	16	16	12	10	16	14	16
			E30...P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16

Function - Speciality

Price group **53**

Function "C" closed in normal position, with secondary discharge

low noise and impact-free closing, for neutral, gaseous media (liquid optional)

Brass

Operating position	Description
	<p>With respect to electrical function the valve corresponds to a 2/2-way solenoid valve function "A".</p> <p>In operational position - magnetic system under power - the membrane is only held in "open" position by the medium until the outlet-port pressure reaches the value set on the pressure regulator. This can be set using the lockable adjuster.</p> <p>The pressure should preferably be measured as near to the load as Possible. In case of need a pressure gauge can also be attached to the G 1/8 connection on the pilot pressure regulator, as shown in the dimension illustration. For dynamic loads or neutral fluids, a version without secondary-discharge can be supplied, as listed in the options.</p>

Illustration

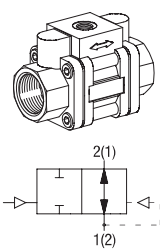
In addition to the function of a 2/2-way solenoid valve the valve regulates the secondary pressure on the set value. This replaces two traditional textures.

Pilot unit can be assembled rotated by 4x90°. For assembly as shown, pressure gauge is limited to NG 40. Cable socket adaptable with solenoid coil E22 by 2 x 180°, with E30 by 4 x 90° repositionable. Both solenoid coils 360° turnable.

Dimensions									Accessories				
DN	G	L	I	L1	L2	L3	H	S	Illustration	Suitable for valves	Type	Order number	Price
15	G 1/2	68,4	13,5	123,5	145	98,7	43	27		G 1/2 + G 3/4 DN 15 and DN 20	ZGV-10normal D2normal 52	616252	o. r.
20	G 3/4	80	16,5	126	146,5	104	43	32					
25	G 1	95	19	132	161,5	112	59	41		G 1 + G 1 1/4 DN 25 and DN 32	ZGV-10normal D32-62	616262	o. r.
32	G 1 1/4	112	21,5	132	161,5	120	59	50					
40	G 1 1/2	132	21	144,5	188	130	87	55					
50	G 2	160	26	144,5	188	144	87	70					

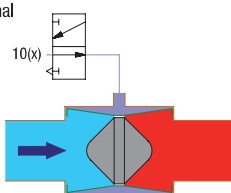
2/2-Way Solenoid Valve Type PGV Series 100 Pressure Operated by External Medium - Double-Sided Isolating

Price group 53	Function "B" normally open (without control pressure)	low noise and impact-free closing, for neutral, gaseous and fluids	Amb. temp. $T_{min} -20\text{ °C}$, $T_{max} +60\text{ °C}$ Med.-Temp. $T_{min} -10\text{ °C}$, $T_{max} +90\text{ °C}$	Brass
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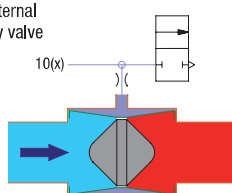
Version	Control pressure [bar]	DN	Kv-value water [m³/h]	G	PN	Sealing material	Type	Order number	Price
2/2-way valve pressure operated, isolating double-sided by external medium Permitted operating pressure 0.2 to 16 bar 	≥ operating pressure max. 16	15	5,6	G 1/2	16	NBR	PGV-131-B76-1/2BP	614201	o. r.
		15	5,6	G 1/2	16	EPDM	PGV-131-B76-1/2PP	614203	o. r.
		15	5,6	G 1/2	16	FKM	PGV-131-B76-1/2FP	614205	o. r.
		20	7,6	G 3/4	16	NBR	PGV-131-B76-3/4BP	614211	o. r.
		20	7,6	G 3/4	16	EPDM	PGV-131-B76-3/4PP	614213	o. r.
		20	7,6	G 3/4	16	FKM	PGV-131-B76-3/4FP	614215	o. r.
		25	16,8	G 1	16	NBR	PGV-131-B76-1BP	614221	o. r.
		25	16,8	G 1	16	EPDM	PGV-131-B76-1PP	614223	o. r.
		25	16,8	G 1	16	FKM	PGV-131-B76-1FP	614225	o. r.
		32	21	G 1 1/4	16	NBR	PGV-131-B76-5/4BP	614231	o. r.
		32	21	G 1 1/4	16	EPDM	PGV-131-B76-5/4PP	614233	o. r.
		32	21	G 1 1/4	16	FKM	PGV-131-B76-5/4FP	614235	o. r.
		40	29,5	G 1 1/2	16	NBR	PGV-131-B76-6/4BP	614241	o. r.
		40	29,5	G 1 1/2	16	EPDM	PGV-131-B76-6/4PP	614243	o. r.
		40	29,5	G 1 1/2	16	FKM	PGV-131-B76-6/4FP	614245	o. r.
		50	35	G 2	16	NBR	PGV-131-B76-2BP	614251	o. r.
		50	35	G 2	16	EPDM	PGV-131-B76-2PP	614253	o. r.
50	35	G 2	16	FKM	PGV-131-B76-2FP	614255	o. r.		

Version and function: 2/2-way solenoid valve Type PGV series 100 pressure operated by external medium, double-sided blocking

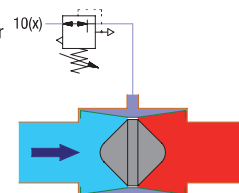
Remotely operated 2/2-way valve regulated by external medium with 3/2-way valve (positive control)



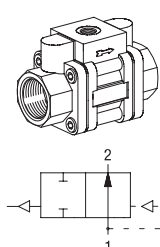
Remotely operated 2/2-way valve regulated by external medium with 2/2-way valve



Remotely operated pressure valve regulated by external medium with pressure regulator

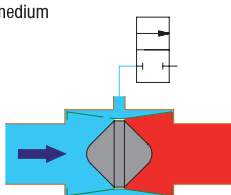

2/2-Way Solenoid Valve - Type PGV Series 100 Pressure Operated by own Medium

Price group 53	Function "B" normally open (without control pressure)	low noise and impact-free closing, for neutral, gaseous and fluids	Brass
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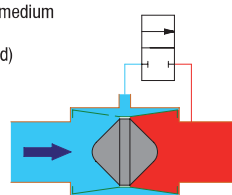
Version	Control pressure [bar]	DN	Kv-value water [m³/h]	G	PN	Sealing material	Type	Order number	Price
2/2-way valve pressure operated, by own medium Permitted operating pressure 0.2 to 16 bar 	≥ operating pressure max. 16	15	5,6	G 1/2	16	NBR	PGV-131-B76-1/2BN	614301	o. r.
		15	5,6	G 1/2	16	EPDM	PGV-131-B76-1/2PN	614303	o. r.
		15	5,6	G 1/2	16	FKM	PGV-131-B76-1/2FN	614305	o. r.
		20	7,6	G 3/4	16	NBR	PGV-131-B76-3/4BN	614311	o. r.
		20	7,6	G 3/4	16	EPDM	PGV-131-B76-3/4PN	614313	o. r.
		20	7,6	G 3/4	16	FKM	PGV-131-B76-3/4FN	614315	o. r.
		25	16,8	G 1	16	NBR	PGV-131-B76-1BN	614321	o. r.
		25	16,8	G 1	16	EPDM	PGV-131-B76-1PN	614323	o. r.
		25	16,8	G 1	16	FKM	PGV-131-B76-1FN	614325	o. r.
		32	21	G 1 1/4	16	NBR	PGV-131-B76-5/4BN	614331	o. r.
		32	21	G 1 1/4	16	EPDM	PGV-131-B76-5/4PN	614333	o. r.
		32	21	G 1 1/4	16	FKM	PGV-131-B76-5/4FN	614335	o. r.
		40	29,5	G 1 1/2	16	NBR	PGV-131-B76-6/4BN	614341	o. r.
		40	29,5	G 1 1/2	16	EPDM	PGV-131-B76-6/4PN	614343	o. r.
		40	29,5	G 1 1/2	16	FKM	PGV-131-B76-6/4FN	614345	o. r.
		50	35	G 2	16	NBR	PGV-131-B76-2BN	614351	o. r.
		50	35	G 2	16	EPDM	PGV-131-B76-2PN	614353	o. r.
50	35	G 2	16	FKM	PGV-131-B76-2FN	614354	o. r.		

Version and function: 2/2-way solenoid valve Type PGV series 100 pressure operated by own medium

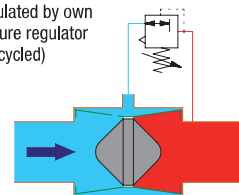
Remotely operated 2/2-way valve regulated by own medium with 2/2-way valve (negative control)



Remotely operated 2/2-way valve regulated by own medium with 2/2-way valve (control medium recycled)



Remotely operated pressure regulator valve regulated by own medium with pressure regulator (control medium recycled)

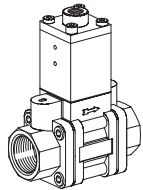
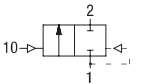


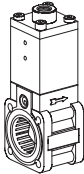
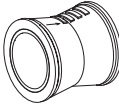

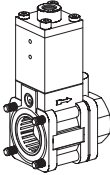
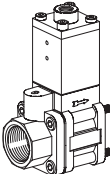
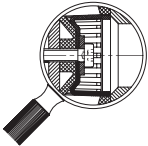
Function					
Price group	53	Function "B" normally open (without control pressure)	low noise and impact-free closing, for neutral, gaseous and fluids	Brass	
Operating position		Variations	Options		
<p>Type PGV in external medium version shown, control pressure present.</p>		<p>2/2-way intermediate flange valve (both versions) Flange-side 4 through bores: Type PGV-131-.BHH-...</p>	<p>normal pressure membrane, requires no differential pressure to open, however control pressure to close, it 1 bar above operating pressure Type PGV-131-B76-../..0</p>		
		<p>2/2-way flange mount valve (only external medium vers.) Flange-side or thread-side pressure inlet Type PGV-131-.BH7-...</p>	<p>Membrane made of other material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils</p>		
			<p>increases resistance to corrosion and replaces stainless steel valves cost-effectively for many medium Type PGV-131Q-...</p>		

Illustration	

Dimensions									Mounting Accessories				
DN	G	L	I	M	L1	L2	H	S	Illustration	Suitable for valves	Type	Order number	Price
15	G 1/2	68.4	13.5	34.2	34.5	56	43	27		G 1/2 + G 3/4 DN 15 and DN 20	ZGV-10normal D2normal 52	616252	o. r.
20	G 3/4	80.4	15.5	40.2	34.5	56	43	32					
25	G 1	94	17	47	42.5	72	59	41					
32	G 1 1/4	112	19	56	42	71.5	59	50					
40	G 1 1/2	132	21	66	56	99.5	87	55					
50	G 2	160	24.5	80	56	99.5	87	70		G 1 + G 1 1/4 DN 25 and DN 32	ZGV-10normal D32-62	616262	o. r.

2/2-Way Valve - Pressure Operated - Type PGV Series 100

Price group 53	Function "A" normally closed	low noise functioning, for gaseous media, especially compressed air						Brass	
Version	Controlpressure [bar]	DN	Q _{Nn} -value air [l/min]	G	PN	Sealing material	Type (Partial solenoid valve without solenoid coil)	Order number	Price
2/2-way valve pressure-operated by maintained compressed air Permitted operating pressure 0.2 to 16 bar  	4 - 7	15	6100	G 1/2	16	NBR	PGV-151-A96-1/2BP	614371	o. r.
	4 - 7	20	8300	G 3/4	16	NBR	PGV-151-A96-3/4BP	614372	o. r.
	4 - 7	25	18400	G 1	16	NBR	PGV-151-A96-1BP	614373	o. r.
	4 - 7	32	23400	G 1 1/4	16	NBR	PGV-151-A96-5/4BP	614374	o. r.
	4 - 7	40	32400	G 1 1/2	16	NBR	PGV-151-A96-6/4BP	614375	o. r.
	4 - 7	50	38400	G 2	16	NBR	PGV-151-A96-2BP	614376	o. r.

Variations		Options			
	2/2-way intermediate flange valve Flange-side 4 through bores: Type PGV-151-ALH-...		Membrane made of other material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils		increases resistance to corrosion, and replaces stainless steel valves cost-effectively for many medium Type PGV-151Q-...
	2/2-way flange mount valve Flange-side pressure inlet Type PGV-151-AL7-...				
	2/2-way flange mount valve Thread-sided pressure inlet Type PGV-151-A9H-...		Non-return valve integrated outlet-side of the closure-unit Type PGV-151-A96-./T		
			Pressure difference: DN 15 to DN 32, 10 bar DN 40 to DN 50, 8 bar		

Function - Speciality

Price group 53	Function "A" normally closed	low noise functioning, for gaseous media, especially compressed air	Brass
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Operating position	Description	Function
	<p>In normal position - pre-control valve not pressurised - its seat is closed. Pressure builds up in the control chamber, which due to the larger effective membrane surface holds the membrane in "closed" position.</p> <p>In operational position - pre-control valve pressurised - its operational seat is closed. The control chamber is discharged by the open seat and the membrane held in "open" position by the medium. A minimum pressure difference is required for this operation.</p>	

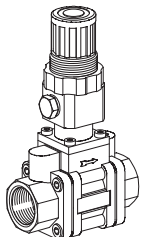
Illustration

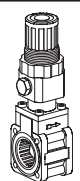
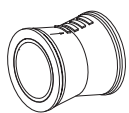

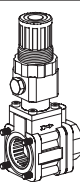
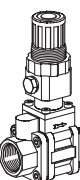
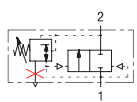
These servo-controlled valves with pneumatic operation are used in the control of compressed air, e.g. for the purposes of explosion protection, where solenoid valves are not desirable.

Dimensions									Mounting Accessories				
DN	G	L	I	M	L1	L2	H	S	Illustration	Suitable for valves	Type	Order number	Price
15	G 1/2	68.4	13.5	34.2	86.1	107.6	43	27		G 1/2 + G 3/4 DN 15 and DN 20	ZGV-10normal D2normal 52	616252	o. r.
20	G 3/4	80.5	15.5	40	86	107.5	43	32					
25	G 1	94	17	47	94.1	123.6	59	41					
32	G 1 1/4	112	19	56	94	123.5	59	50					
40	G 1 1/2	132	21	66	107.6	151.1	87	55					
50	G 2	160	24.5	80	107.6	151.1	87	70		G 1 + G 1 1/4 DN 25 and DN 32	ZGV-10normal D32-62	616262	o. r.

Pressure Regulator Valve - Type RGV Series 100 with Secondary Discharge

Price group 53	Low noise and impact-free control, for neutral, gaseous media (optional liquids)	Amb. temp. $T_{min} -20\text{ °C}$, $T_{max} +60\text{ °C}$ Med.-Temp. $T_{min} -10\text{ °C}$, $T_{max} +90\text{ °C}$	Brass
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Version	Secondary pressure [bar]	DN	Flow air [l/min]	G	PN	Sealing material	Type	Order number	Price
Pressure regulator valve without pressure gauge Permitted operating pressure 0.5 to 16 bar 	0.5 - 10	15	260 to 2.600	G 1/2	16	NBR	RGV-151-1C78-1/2BN	653201	o. r.
	0.5 - 3	15	260 to 2.600	G 1/2	16	NBR	RGV-151-3C78-1/2BN	653202	o. r.
	0.5 - 6	15	260 to 2.600	G 1/2	16	NBR	RGV-151-6C78-1/2BN	653203	o. r.
	0.5 - 10	20	360 to 3.600	G 3/4	16	NBR	RGV-151-1C78-3/4BN	653301	o. r.
	0.5 - 3	20	360 to 3.600	G 3/4	16	NBR	RGV-151-3C78-3/4BN	653302	o. r.
	0.5 - 6	20	360 to 3.600	G 3/4	16	NBR	RGV-151-6C78-3/4BN	653303	o. r.
	0.5 - 10	25	800 to 8.000	G 1	16	NBR	RGV-151-1C78-1BN	653401	o. r.
	0.5 - 3	25	800 to 8.000	G 1	16	NBR	RGV-151-3C78-1BN	653402	o. r.
	0.5 - 6	25	800 to 8.000	G 1	16	NBR	RGV-151-6C78-1BN	653403	o. r.
	0.5 - 10	32	1.000 to 10.000	G 1 1/4	16	NBR	RGV-151-1C78-5/4BN	653501	o. r.
	0.5 - 3	32	1.000 to 10.000	G 1 1/4	16	NBR	RGV-151-3C78-5/4BN	653502	o. r.
	0.5 - 6	32	1.000 to 10.000	G 1 1/4	16	NBR	RGV-151-6C78-5/4BN	653503	o. r.
	0.5 - 10	40	1.400 to 14.000	G 1 1/2	16	NBR	RGV-151-1C78-6/4BN	653601	o. r.
	0.5 - 3	40	1.400 to 14.000	G 1 1/2	16	NBR	RGV-151-3C78-6/4BN	653602	o. r.
	0.5 - 6	40	1.400 to 14.000	G 1 1/2	16	NBR	RGV-151-6C78-6/4BN	653603	o. r.
	0.5 - 10	50	1.650 to 16.500	G 2	16	NBR	RGV-151-1C78-2BN	653701	o. r.
0.5 - 3	50	1.650 to 16.500	G 2	16	NBR	RGV-151-3C78-2BN	653702	o. r.	
0.5 - 6	50	1.650 to 16.500	G 2	16	NBR	RGV-151-6C78-2BN	653703	o. r.	

Variations		Options			
	Intermediate flange pressure regulator valve Flange-side 4 through bores: Type RGV-151-.CHL-...		Membrane made of other material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils		increases resistance to corrosion, and replaces stainless steel valves cost-effectively for many medium Type RGV-151Q-...
	Flange mount Pressure regulator valve Flange-side pressure inlet: Type RGV-151-.CH9-...				
	Flange mount Pressure regulator valve Thread-side pressure inlet: Type RGV-151-.C7L-...		without secondary side discharge of the pilot pressure regulator, especially for fluids Type RGV-151-.A78-...		

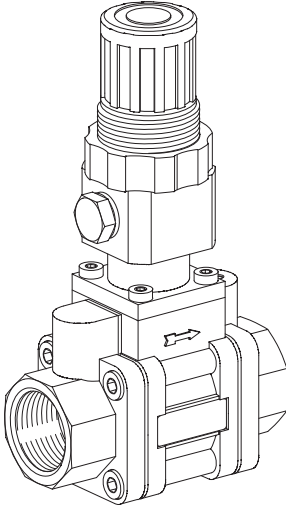
Function

Price group **53** low noise and impact-free control, for neutral, gaseous media (optional liquids)

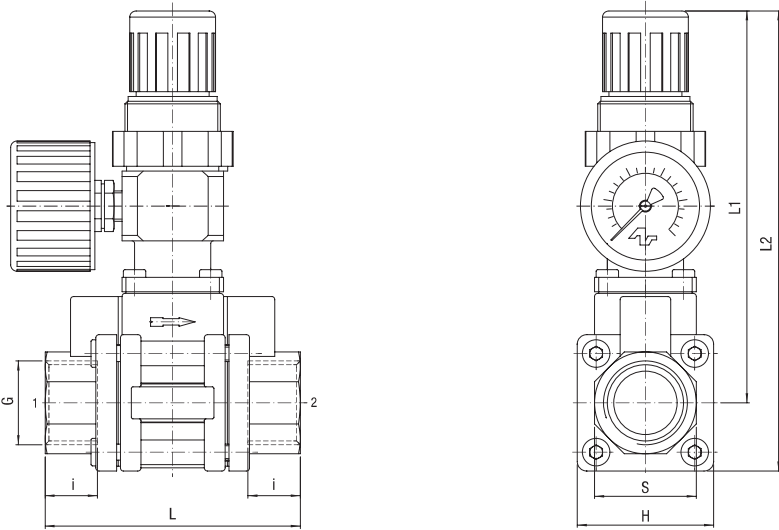
Brass

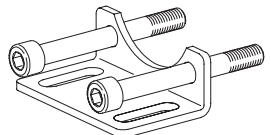
Operating position	Description

Illustration



Pilot unit can be assembled rotated by 4x90°. For assembly as shown, pressure gauge is limited to NG 40 mm Ø.



Dimensions								Mounting Accessories				
DN	G	L	I	L1	L2	H	S	Illustration	Suitable for valves	Type	Order number	Price
15	G 1/2	68.4	13.5	124.5	146	43	27		G 1/2 + G 3/4 DN 15 and DN 20	ZGV-10normal D2normal 52	616252	o. r.
20	G 3/4	80	15.5	124.5	146	43	32					
25	G 1	94	17	132.5	162	59	41					
32	G 1 1/4	112	19	132.5	162	59	50					
40	G 1 1/2	132	21	146	189.5	87	55					
50	G 2	160	24.5	146	189.5	87	70	G 1 + G 1 1/4 DN 25 and DN 32	ZGV-10normal D32-62	616262	o. r.	

2/2-Way Solenoid Valve Battery - Type EGV Series 100

Price group	53	Function "A" normally closed, distributor version	low noise and impact-free closing, for neutral, gaseous or fluids
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Brass

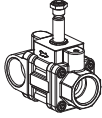
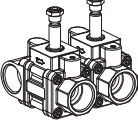
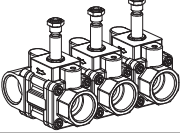
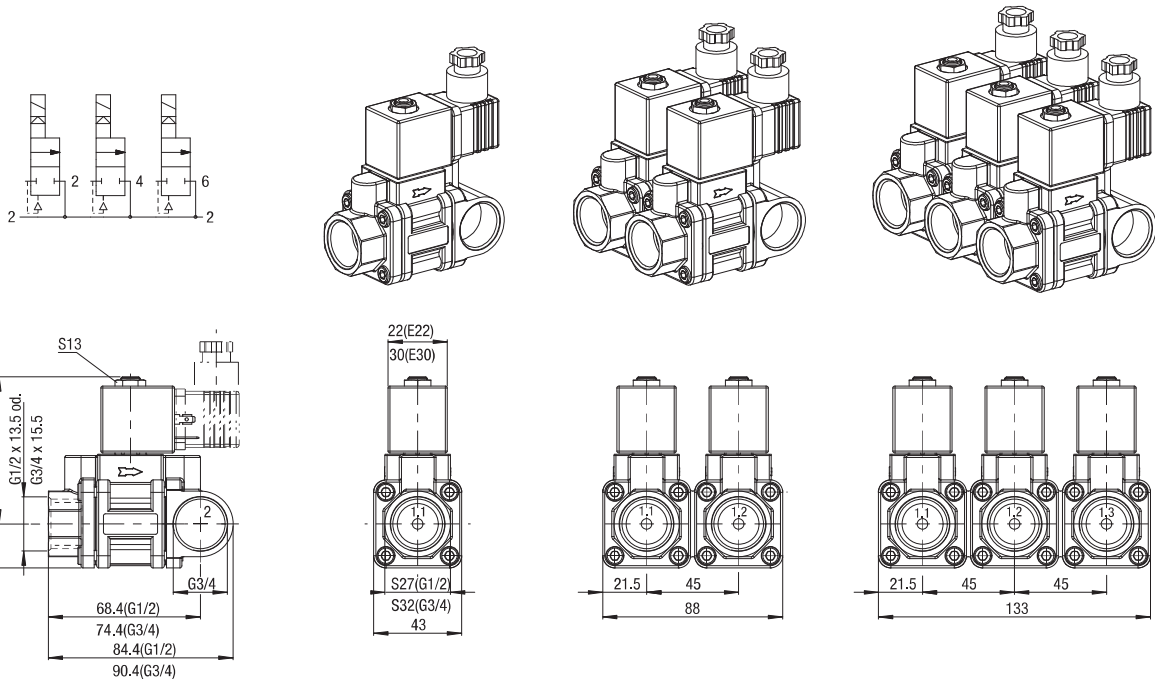
Version	DN	Kv-value water [m³/h]	G	PN	Possible Type of power	Sealing material	Type (Partial solenoid valve without solenoid coil)	Order number	Price
 Valve without solenoid coil Permitted operating pressure 0,2 bar up to valve according to table below.	15	5,6	G 1/2	16/8	AC/DC	NBR	EGV-111/V1-AH9-1/2BN-00	616901	o. r.
	15	5,6	G 1/2	16/8	AC/DC	EPDM	EGV-111/V1-AH9-1/2PN-00	616951	o. r.
	15	5,6	G 1/2	16/8	AC/DC	FKM	EGV-111/V1-AH9-1/2FN-00	617001	o. r.
	20	7,6	G 3/4	16/8	AC/DC	NBR	EGV-111/V1-AH9-3/4BN-00	616911	o. r.
	20	7,6	G 3/4	16/8	AC/DC	EPDM	EGV-111/V1-AH9-3/4PN-00	616961	o. r.
 Valve without solenoid coil, 2-fold battery or solenoid coil Permitted operating pressure 0.2 bar up to valve according to table below.	15	5,6	G 1/2	16/8	AC/DC	NBR	EGV-111/V2-AH9-1/2BN-00	616902	o. r.
	15	5,6	G 1/2	16/8	AC/DC	EPDM	EGV-111/V2-AH9-1/2PN-00	616952	o. r.
	15	5,6	G 1/2	16/8	AC/DC	FKM	EGV-111/V2-AH9-1/2FN-00	617002	o. r.
	20	7,6	G 3/4	16/8	AC/DC	NBR	EGV-111/V2-AH9-3/4BN-00	616912	o. r.
	20	7,6	G 3/4	16/8	AC/DC	EPDM	EGV-111/V2-AH9-3/4PN-00	616962	o. r.
 Valve without solenoid coil, 3-fold battery or solenoid coil Permitted operating pressure 0.2 bar up to valve according to table below.	15	5,6	G 1/2	16/8	AC/DC	NBR	EGV-111/V3-AH9-1/2BN-00	616903	o. r.
	15	5,6	G 1/2	16/8	AC/DC	EPDM	EGV-111/V3-AH9-1/2PN-00	616953	o. r.
	15	5,6	G 1/2	16/8	AC/DC	FKM	EGV-111/V3-AH9-1/2FN-00	617003	o. r.
	20	7,6	G 3/4	16/8	AC/DC	NBR	EGV-111/V3-AH9-3/4BN-00	616913	o. r.
	20	7,6	G 3/4	16/8	AC/DC	EPDM	EGV-111/V3-AH9-3/4PN-00	616963	o. r.
20	7,6	G 3/4	16/8	AC/DC	FKM	EGV-111/V3-AH9-3/4FN-00	617013	o. r.	

Illustration




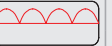
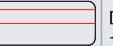
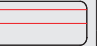
Valve batteries series 100 can also be constructed mixed, with all valve Types, for all listed functions and with various options according to customer requirements. This is also possible up to DN 50 (G 2) in special version.

The number of valves is only limited by the efficiently manufactured overall length of the battery collector plate. Depending on DN this is 600 to 800 mm.

Solenoid valves, with pressure regulator, pressure operated valves or pressure regulator valves, can thus be flange-mounted on a collector plate according to requirement, or also opposite laterally reversed. Likewise the flow direction of the flange valves can be freely selected to a large extent. (Distributor or mixer version)

AVS Römer furthermore manufactures so-called multi-functional blocks, with integrated injectors, pressure sensors and similar.

Permitted operating pressure OP

DN	Type	PN	Combinable solenoid coil		Permitted operating pressure OP [bar] at ambient temperature +60 °C																	
			Type	Nominal power P ₂₀			AC 50 Hz 			AC 60 Hz 			DC 90 %U _N 			DC 90 %U _N 			DC 100 %U _N 			
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	Medium temperature			Medium temperature			Medium temperature			Medium temperature			Medium temperature			
				60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	
15 to 20	EGV-111/V.-A..	16	E22...L.	3.5	on req.	2.5	on req.	on req.	on req.	on req.	6	5	4	4	3	2	6	5	4			
			E22...M.	5,5	5	5	16	16	16	16	16	16	16	16	14	12	10	8	15	13	12	
			E22...H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16	16
			E30...P.	12	10,5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16

2/2-Way Solenoid Valve Battery - Type EGV Series 100

Price group	53	Function "A" normally closed, mixer version	low noise and impact-free closing, for neutral, gaseous or fluids	Brass
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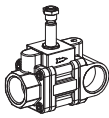
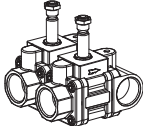
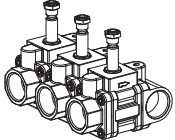
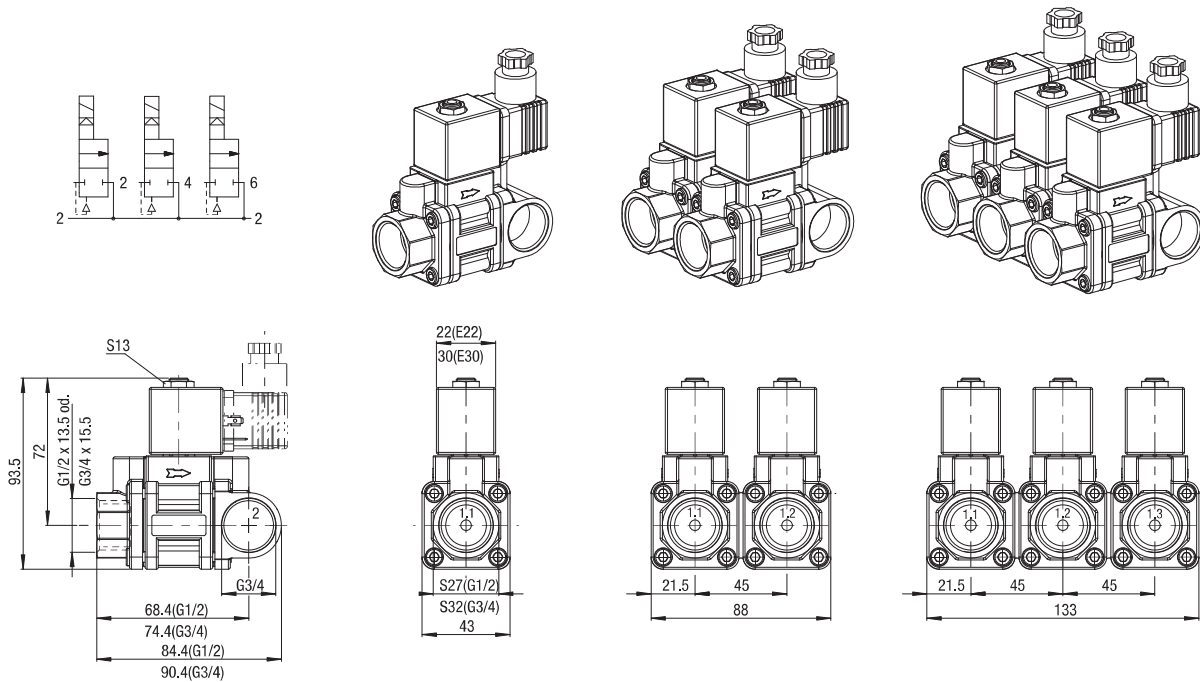
Version	DN	Kv-value water [m³/h]	G	PN	Possible Type of power	Sealing material	Type (Partial solenoid valve without solenoid coil)	Order number	Price
 <p>Valve without solenoid coil</p> <p>Permitted operating pressure 0,2 bar up to value according to table below.</p>	15	5,6	G 1/2	16/8	AC/DC	NBR	EGV-111/M1-A7L-1/2BN-00	616921	o. r.
	15	5,6	G 1/2	16/8	AC/DC	EPDM	EGV-111/M1-A7L-1/2PN-00	616971	o. r.
	15	5,6	G 1/2	16/8	AC/DC	FKM	EGV-111/M1-A7L-1/2FN-00	617021	o. r.
	20	7,6	G 3/4	16/8	AC/DC	NBR	EGV-111/M1-A7L-3/4BN-00	616931	o. r.
	20	7,6	G 3/4	16/8	AC/DC	EPDM	EGV-111/M1-A7L-3/4PN-00	616981	o. r.
 <p>Valve without solenoid coil, 2-fold battery or solenoid coil</p> <p>Permitted operating pressure 0.2 bar up to value according to table below.</p>	15	5,6	G 1/2	16/8	AC/DC	NBR	EGV-111/M2-A7L-1/2BN-00	616922	o. r.
	15	5,6	G 1/2	16/8	AC/DC	EPDM	EGV-111/M2-A7L-1/2PN-00	616972	o. r.
	15	5,6	G 1/2	16/8	AC/DC	FKM	EGV-111/M2-A7L-1/2FN-00	617022	o. r.
	20	7,6	G 3/4	16/8	AC/DC	NBR	EGV-111/M2-A7L-3/4BN-00	616932	o. r.
	20	7,6	G 3/4	16/8	AC/DC	EPDM	EGV-111/M2-A7L-3/4PN-00	616982	o. r.
 <p>Valve without solenoid coil, 3-fold battery or solenoid coil</p> <p>Permitted operating pressure 0.2 bar up to value according to table below.</p>	15	5,6	G 1/2	16/8	AC/DC	NBR	EGV-111/M3-A7L-1/2BN-00	616923	o. r.
	15	5,6	G 1/2	16/8	AC/DC	EPDM	EGV-111/M3-A7L-1/2PN-00	616973	o. r.
	15	5,6	G 1/2	16/8	AC/DC	FKM	EGV-111/M3-A7L-1/2FN-00	617023	o. r.
	20	7,6	G 3/4	16/8	AC/DC	NBR	EGV-111/M3-A7L-3/4BN-00	616933	o. r.
	20	7,6	G 3/4	16/8	AC/DC	EPDM	EGV-111/M3-A7L-3/4PN-00	616983	o. r.
	20	7,6	G 3/4	16/8	AC/DC	FKM	EGV-111/M3-A7L-3/4FN-00	617033	o. r.

Illustration


The pressure value at port "2" may not exceed the values at inlets "1.1", "1.2" or "1.3", otherwise the version with integrated non-return valves should be selected. These isolate up to a pressure difference of 10 bar. Please do not hesitate to ask us if you have any questions.

Valve batteries series 100 can also be constructed combined, with all valve Types, for all listed functions and with various options according to customer requirements.

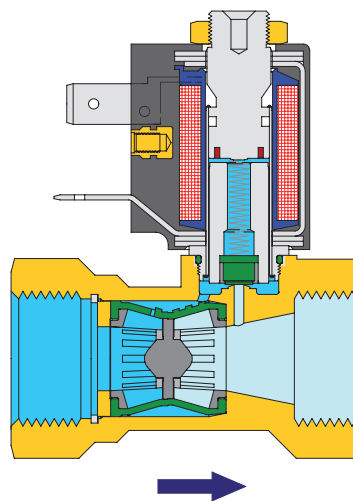
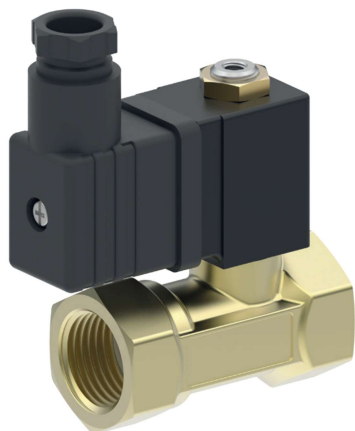
This is also Possible up to DN 50 (G 2) in special version. The number of valves is only limited by the efficiently manufactured overall length of the battery collector plate. Depending on DN this is 600 to 800 mm.

Solenoid valves, with pressure regulator, pressure operated valves or pressure regulator valves, can thus be flange-mounted on a collector plate according to requirement, or also opposite laterally reversed. Likewise the flow direction of the flange valves can be freely selected to a large extent. (Distributor or mixer version)

AVS Römer furthermore manufactures so-called multi-functional blocks, with integrated injectors, pressure sensors and similar.

Permitted operating pressure OP

DN	Type	PN	Combinable solenoid coil		Permitted operating pressure OP [bar] at ambient temperature +60 °C																	
			Type	Nominal power P ₂₀			AC 50 Hz			AC 60 Hz			DC			DC			DC			
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	AC 50 Hz 90 %U _N	AC 60 Hz 90 %U _N	DC 90 %U _N	DC 90 %U _N	DC 90 %U _N	DC 100 %U _N	DC 100 %U _N	DC 100 %U _N	DC 100 %U _N	DC 100 %U _N	DC 100 %U _N	DC 100 %U _N				
				on req.	on req.	on req.	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	
15 to 20	EGV-111M.-A..	16	E22...L.	3,5	on req.	2,5	on req.	on req.	on req.	on req.	6	5	4	4	3	2	6	5	4			
			E22...M.	5,5	5	5	16	16	16	16	16	16	16	16	14	12	10	8	15	13	12	
			E22...H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16	16
			E30...P.	12	10,5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16

GAMMA Valves Serie 200


Especially economical valve series DN 10 (G 3/8) and DN 12 (G 1/2) for the most varied of applications in mechanical and apparatus construction.

The minimal space requirement of this socket valve series is especially of advantage in small apparatus construction (representations G1/2 in scale 1:1)

Dirt particles in the medium can lead to malfunction in the solenoid valves. The installation of a strainer is thus to be recommended, e.g. type SMF-133..

CHARACTERISTICS
GENERAL

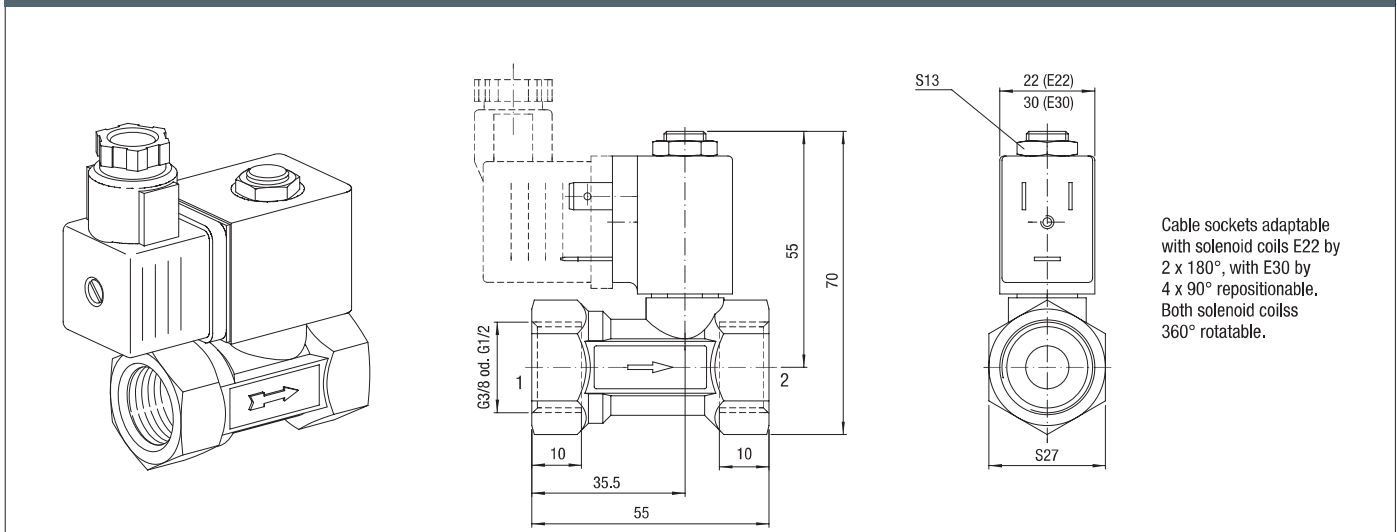
Constructional design	Low noise membrane valve with coaxial flow			
Product name	2/2-way Solenoid valve servo controlled	2/2-way Solenoid valve servo controlled	2/2-way Solenoid valve pressure operated	2/2-way valve, pressure operated by external or own medium
Product type	EGV	EGV	EGV	PGV
Function	"A" normally closed	"B" normally open	"Z" normally closed	"B" normally open
Nominal diameter	DN 10 and DN 12			
Port size	Thread (ISO 228) G 3/8 and G 1/2			
Ambient temperature	-20 °C to +60 °C (others on request)			
Medium temperature	for NBR: -10 °C to +90 °C for FKM and EPDM: -10 °C to +130 °C (for exceptions see table)			
Medium viscosity	up to ca. 20 mm ² /s			
Valve body material	Brass			
Membrane support unit material	reinforced synthetic material (others on request)			
Other internal component	Stainless steel and non-ferrous metal			
Material	NBR (nitrile rubber), EPDM (ethylene propylene) or FKM (fluoride rubber) (others on request)			
Mounting method	Installation in rigid pipe system			
Mounting position	optional, preferably upright			
PNEUMATIC - HYDRAULIC				
Nominal pressure (bar)	according to type table. The numerical value of the nominal pressure PN signifies the Permitted Operating Pressure OP in bar at 60°C ambient temperature and 60°C medium temperature. Insofar as two values are given, the first value refers to solenoid coil with highest electrical current consumption, the second value to that with lowest current consumption.			
Pressure range	0.3 bar up to permitted operating pressure OP according to table.			
Rate	Kv-value according to type table (full passage with pressure difference of 0.5 bar or higher)			
Medium	gaseous or fluids Sealing material NBR: e.g. compressed air, water, hydraulic fluids, neutral gases Sealing material EPDM: e.g. hot water Sealing material FKM: e.g. solvents, hot water, hot air above 90 °C			
Response time	Opening time: 20 ms to 1 s; closing time: 25 ms to 3 s, according to medium			
Electric	see solenoid coils			

2/2-Way Solenoid Valve - Type EGV Series 200

Price group	53	Function "A" normally closed	low noise and impact-free closing, for neutral, gaseous or fluids
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Brass

Version	DN	Kv-value water [m³/h]	G	PN	Possible type of current	Sealing material	Type	Order number	Price
<p>Valve without solenoid coils Permitted operating pressure 0,3 bar up to valve according to table below.</p>	10	2	G 3/8	16/8	AC/DC	NBR	EGV-211-A79-3/8BN-00	613041	o. r.
	10	2	G 3/8	16/8	AC/DC	EPDM	EGV-211-A79-3/8PN-00	613043	o. r.
	10	2	G 3/8	16/8	AC/DC	FKM	EGV-211-A79-3/8FN-00	613045	o. r.
	12	2.2	G 1/2	16/8	AC/DC	NBR	EGV-211-A79-1/2BN-00	613051	o. r.
	12	2.2	G 1/2	16/8	AC/DC	EPDM	EGV-211-A79-1/2PN-00	613053	o. r.
	12	2.2	G 1/2	16/8	AC/DC	FKM	EGV-211-A79-1/2FN-00	613055	o. r.

Illustration

Function

	<p>In 0-position - magnetic system not under current - its seat is closed. Pressure thus builds up in the control chamber, which due to the larger effective membrane surface holds the membrane in "closed" position.</p>
	<p>In override position - magnetic system under current - its seat is open, the control chamber discharged and the membrane is held by the medium in "open" position. A minimum pressure difference is required for this.</p>

Options

<p>Brass components chemically nickel-plated</p>	<p>increases resistance to corrosion and replaces stainless steel valves cost-effectively for many medium Type EGV-211Q-...</p>
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Permitted Operating Pressure OP

DN	type	PN	Combinable solenoid coils			Permitted Operating Pressure OP [bar] at ambient temperature +60 °C																
			type	Nominal current P ₂₀			AC 50 Hz 90 %U _N			AC 60 Hz 90 %U _N			DC 90 %U _N			DC 90 %U _N			DC 100 %U _N			
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	Medium temperature			Medium temperature			Medium temperature			Medium temperature			Medium temperature			
				60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	
10 and 12	EGV-211-A..	16/8	E22...L.	3,5	on req.	2,5	16	13	12	16	13	on req.	15	10	9	8	6	4	9	8	7	
			E22...M.	5,5	5	5	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
			E22...H.	-	-	8	-	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E30...P.	12	10,5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16

2/2-Way Solenoid Valve - Type EGV Series 200

Price group **53** Function "B" normally open Low noise and impact-free closing, for neutral, gaseous or fluids

Brass

Version	DN	Kv-value water [m³/h]	G	PN	Possible type of current	Sealing material	Type (Partial solenoid valve without solenoid coils)	Order number	Price
<p>Valve without solenoid coils Permitted operating pressure 0.3 bar up to valve according to table below.</p>	10	2	G 3/8	16/8	AC/DC	NBR	EGV-211-B97-3/8 BP-00	613291	o. r.
	10	2	G 3/8	16/8	AC/DC	EPDM	EGV-211-B97-3/8 PP-00	613293	o. r.
	10	2	G 3/8	16/8	AC/DC	FKM	EGV-211-B97-3/8 FP-00	613295	o. r.
	12	2.2	G 1/2	16/8	AC/DC	NBR	EGV-211-B97-1/2 BP-00	613301	o. r.
	12	2.2	G 1/2	16/8	AC/DC	EPDM	EGV-211-B97-1/2 PP-00	613303	o. r.
	12	2.2	G 1/2	16/8	AC/DC	FKM	EGV-211-B97-1/2 FP-00	613305	o. r.

Illustration

These valves, due to their long lifetime, are primarily used as a start-up unloading device for compressors. If the magnet loses current, control chamber volume leakage of "3" occurs briefly. If necessary this must be caught and discharged at connector G 1/8 (above).

Cable sockets adaptable with solenoid coils E22 by 2 x 180°, with E30 by 4 x 90° repositionable. Both solenoid coils 360° rotatable.

Function

In 0-position - magnetic system not under current - its seat is closed and its override seat open. Thereby the control chamber is discharged by port "3" and the membrane held in "open" position by the medium. A minimum pressure difference is required for this operation.

In override position - magnetic system under current - its seat is open and its override seat closed. Pressure thus builds up in the control chamber, which due to the larger effective membrane surface holds the membrane in "closed" position.

Options

Brass components chemically nickel-plated

increases resistance to corrosion and replaces stainless steel valves cost-effectively for many medium Type EGV-211Q-...

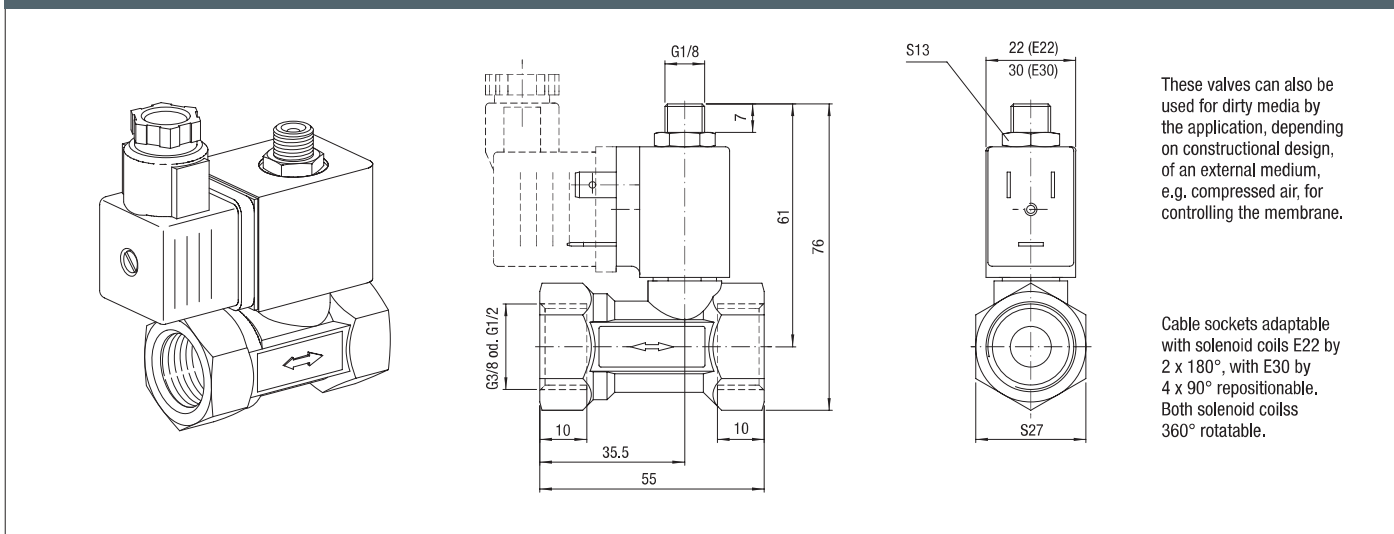
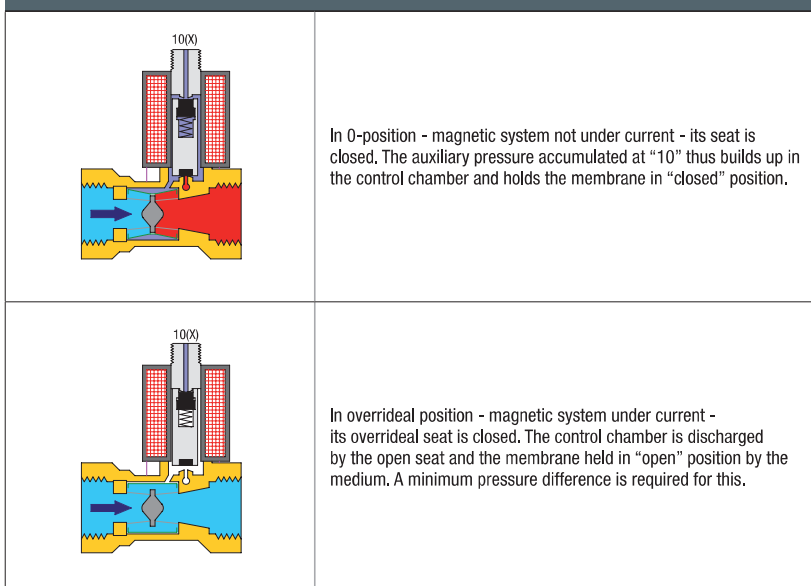
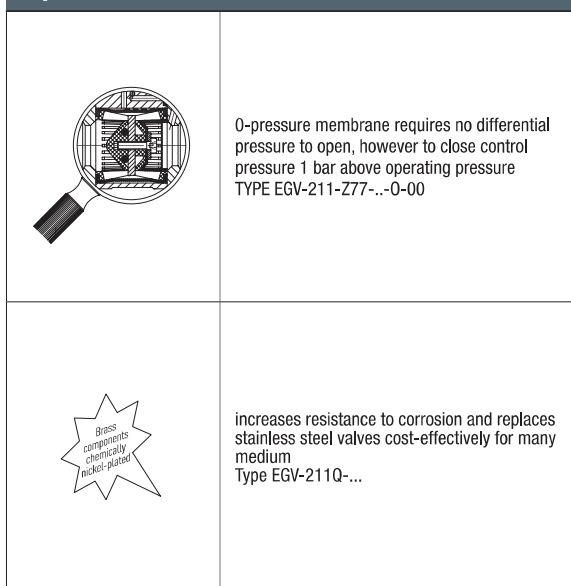
Permitted Operating Pressure OP

DN	type	PN	Combinable solenoid coils			Permitted Operating Pressure OP [bar] at ambient temperature +60 °C																
			type	Nominal current P ₂₀			AC 50 Hz 90 %U _N Medium temperature			AC 60 Hz 90 %U _N Medium temperature			DC 90 %U _N Medium temperature			DC 90 %U _N Medium temperature			DC 100 %U _N Medium temperature			
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	
				on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	
10 and 12	EGV-212-B..	16/8	E22...L.	3,5	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.		
			E22...M.	5,5	5	5	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
			E22...H.	-	-	8	-	-	-	-	-	-	-	-	16	16	16	16	16	16	16	16
			E30...P.	12	10,5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16

2/2-Way Solenoid Valve - Type EGV Series 200

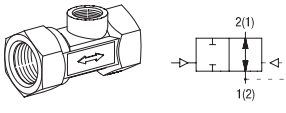
Price group	53	Function "Z" normally closed with existing auxiliary pressure at "10"	low noise and impact-free closing, for neutral, gaseous or fluids	Brass
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Version	DN	Kv-value water [m³/h]	G	PN	Possible type of current	Sealing material	Type (Partial solenoid valve without solenoid coils)	Order number	Price
<p>Valve without solenoid coils Permitted operating pressure 0.3 bar up to valve according to table below, double-sided blocking.</p>	10	2	G 3/8	16	AC/DC	NBR	EGV-211-Z77-3/8BP-00	613341	o. r.
	10	2	G 3/8	16	AC/DC	EPDM	EGV-211-Z77-3/8PP-00	613343	o. r.
	10	2	G 3/8	16	AC/DC	FKM	EGV-211-Z77-3/8FP-00	613345	o. r.
	12	2.2	G 1/2	16	AC/DC	NBR	EGV-211-Z77-1/2BP-00	613351	o. r.
	12	2.2	G 1/2	16	AC/DC	EPDM	EGV-211-Z77-1/2PP-00	613353	o. r.
	12	2.2	G 1/2	16	AC/DC	FKM	EGV-211-Z77-1/2FP-00	613355	o. r.

Illustration

Function

Options

Permitted Operating Pressure OP

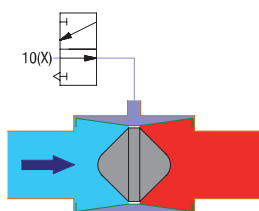
DN	type	PN	Combinable solenoid coils			Permitted Operating Pressure OP [bar] at ambient temperature +60 °C																	
			type	Nominal current P ₂₀			AC 50 Hz 90 %U _N Medium temperature			AC 60 Hz 90 %U _N Medium temperature			DC 90 %U _N Medium temperature			DC 90 %U _N Medium temperature			DC 100 %U _N Medium temperature				
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C		
				on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	
10 and 12	EGV-211-Z...	16/8	E22...L.	3.5	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.		
			E22...M.	5.5	5	5	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
			E22...H.	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			E30...P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16

2/2-Way Valve - Type PGV Series 200 - Pressure Operated (Volume Booster) by External Medium

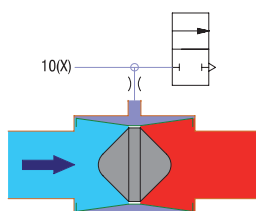
Price group 53	Function "B" normally open	low noise and impact-free closing, for neutral, gaseous and fluids	Brass							
Version	Control pressure [bar]	DN	Kv-value water [m³/h]	G	PN	Sealing material	Type (Partial solenoid valve without solenoid coils)	Order number	Price	
 <p>2/2-way valve pressure operated, double-sided blocking by external medium</p> <p>Permitted operating pressure 0.3 to 16 bar</p> <p>Further features Page <AE></p>	\geq excess operating pressure max. 16	10	2	G 3/8	16	NBR	PGV-231 -B77-3/8BP	614041	o. r.	
		10	2	G 3/8	16	EPDM	PGV-231 -B77-3/8PP	614043	o. r.	
		10	2	G 3/8	16	FKM	PGV-231 -B77-3/8FP	614045	o. r.	
		12	2.2	G 1/2	16	NBR	PGV-231 -B77-1/2BP	614051	o. r.	
		12	2.2	G 1/2	16	EPDM	PGV-231 -B77-1/2PP	614053	o. r.	
		12	2.2	G 1/2	16	FKM	PGV-231 -B77-1/2FP	614055	o. r.	

Illustration

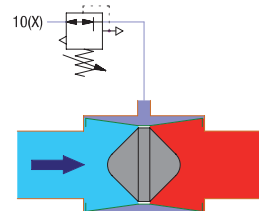
Remotely operated 2/2-way valve regulated by external medium with 3/2-way valve (positive control)

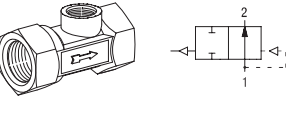


Remotely operated 2/2-way valve regulated by external medium with 2/2-way valve



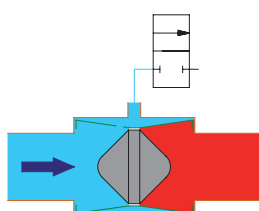
Remotely operated excess pressure valve regulated by external medium with pressure regulator


2/2-Way Valve - Type PGV Series 200 - Pressure Operated (Volume Booster) by Own Medium

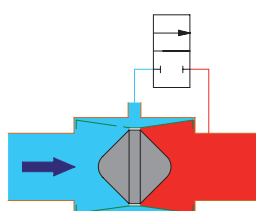
Price group 53	Function "B" normally open (without control pressure)	low noise and impact-free closing, for neutral, gaseous and fluids	Brass							
Version	Control pressure [bar]	DN	Kv-value water [m³/h]	G	PN	Sealing material	Type (Partial solenoid valve without solenoid coils)	Order number	Price	
 <p>2/2-way valve pressure operated, by own medium</p> <p>Permitted operating pressure 0.3 to 16 bar</p>	\geq excess operating pressure max. 16	10	2	G 3/8	16	NBR	PGV-231-B77-3/8BN	614095	o. r.	
		10	2	G 3/8	16	EPDM	PGV-231-B77-3/8PN	614073	o. r.	
		10	2	G 3/8	16	FKM	PGV-231-B77-3/8FN	614075	o. r.	
		12	2.2	G 1/2	16	NBR	PGV-231-B77-1/2BN	614081	o. r.	
		12	2.2	G 1/2	16	EPDM	PGV-231-B77-1/2PN	614083	o. r.	
		12	2.2	G 1/2	16	FKM	PGV-231-B77-1/2FN	614085	o. r.	

Illustration

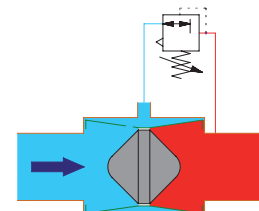
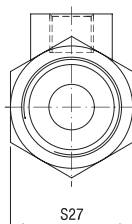
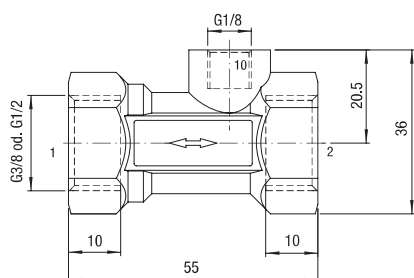
Remotely operated 2/2-way valve regulated by own medium with 2/2-way valve (negative control)



Remotely operated 2/2-way valve regulated by own medium with 2/2-way valve (control medium recycled)

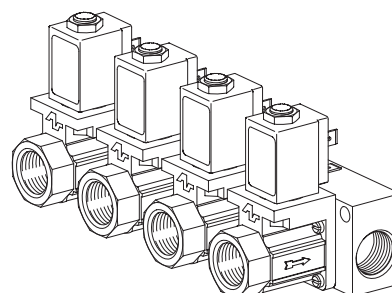


Remotely operated pressure regulator valve regulated by own medium with pressure regulator (control medium recycled)


Illustration

Options

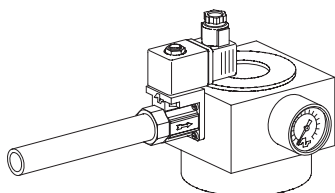

increases resistance to corrosion and replaces stainless steel valves cost-effectively for many flow media
Type PGV-231Q-...



GAMMA Valves Series 300


Especially small-construction valve series DN 13 (G 1/2), 32 mm wide, for the most varied of applications in mechanical and apparatus construction. The narrow constructional design enables extremely high pack density.

Dirt particles in the medium can lead to malfunction in the valves. The installation of a strainer is thus to be recommended, e.g. Type SMF-133...



Valve batteries up to 10-fold with various override and functional applications as standard. The structural combination especially of various Types of valve, sensors and such like in multi-functional blocks creates significant advantages:

- saving of assembly time (pipework expenditure reduced by up to 85 %)
- saving of fittings
- enormous saving of construction space

Intermediute flange and flange-mount valves are directly flange-mounted on pressure-bearing mechanical and apparatus components.

CHARACTERISTICS
GENERAL

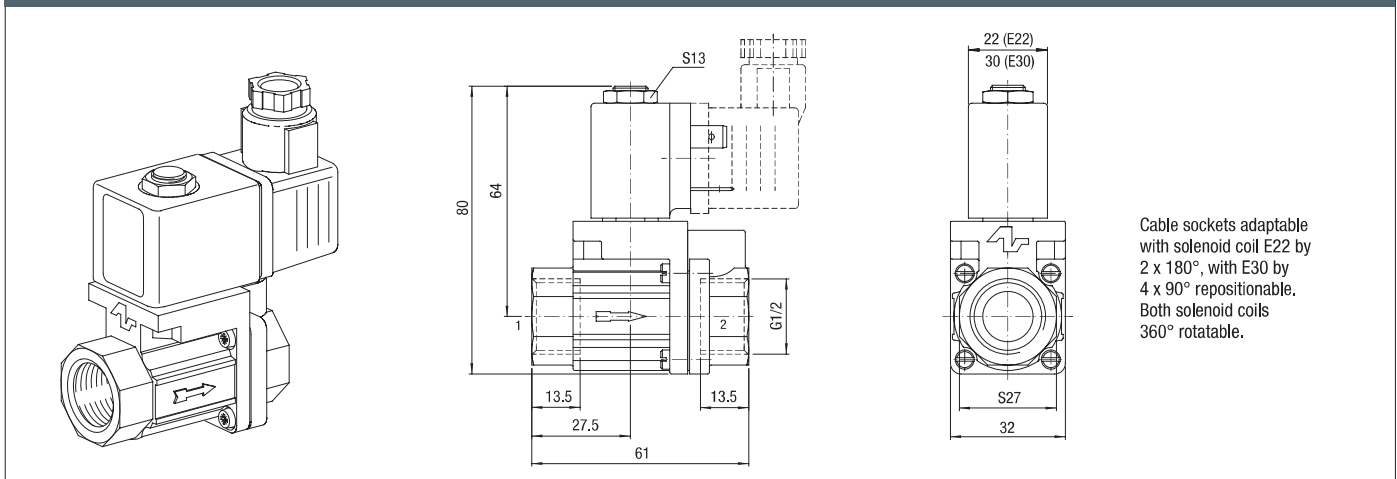
Constructional design	low noise membrane valve with coaxial flow				
Product name	2/2-way solenoid valve servo controlled	2/2-way solenoid valve with pressure regulator servo controlled	2/2-way valve pressure operated by external or own medium	Hand-adjustable pressure regulator valve servo controlled	Valve batteries (all variants)
Product type	EGV	EGR	PGV	RGV	all previously named
Nominal diameter	DN 13				
Port size	Thread (ISO 228) G 1/2				
Ambient temperature	-20 °C to +60 °C (others on request)				
Medium temperature	for NBR: -10 °C to +90 °C for FKM and EPDM: -10 °C to +130 °C (for exceptions see table)				
Medium viscosity	up to ca. 20 mm ² /s				
Valve body material	Ms				
Membrane support unit material	reinforced synthetic material (others on request)				
Other internal component material	Stainless steel and non-ferrous metal				
Seal material	NBR (nitrile rubber), EPDM (ethylene propylene) or FKM (fluoride rubber) (others on request)				
Mounting method	Installation in rigid pipe system				
Mounting position	optional, preferably upright				
PNEUMATIC - HYDRAULIC					
Nominal pressure (bar)	according to Type table. The numerical value of the nominal pressure PN signifies the Permitted Operating Pressure OP in bar at 60°C ambient temperature and 60°C medium temperature. Insofar as two values are given, the first value refers to solenoid coil with highest electrical power consumption, the second value to that with lowest power consumption.				
Pressure range	0.3 bar up to permitted operating pressure OP according to table. 0 to 16 bar version is also possible for Type EGV function "Z" and Type PGV				
Flow rate	Kv-value according to Type table (full flow with pressure difference of 0.5 bar or higher)				
Medium	gaseous or fluids Sealing material NBR: e.g. compressed air, water, hydraulic fluids, neutral gases Sealing material EPDM: e.g. hot water Sealing material FKM: e.g. solvents, hot water, hot air above 90°C				
Response time	Opening time: 20 ms to 1 s; closing time: 25 ms to 3 s, according to flow medium				
Electric	see solenoid coils				

2/2-Way Solenoid Valve - Type EGV Series 300

Price group	53	Function "A" normally closed	Low noise and impact-free closing, for neutral, gaseous or fluids
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Brass

Version	DN	Kv-value water [m³/h]	G	PN	Possible type of power	Sealing material	Type	Order number	Price
<p>Valve without solenoid coil Permitted operating pressure 0.3 bar up to valve according to table below.</p>	13	3.2	G 1/2	16/8	AC/DC	NBR	EGV-311-A78-1/2BN-00	613401	o. r.
	13	3.2	G 1/2	16/8	AC/DC	EPDM	EGV-311-A78-1/2PN-00	613403	o. r.
	13	3.2	G 1/2	16/8	AC/DC	FKM	EGV-311-A78-1/2FN-00	613405	o. r.

Illustration


Function	Variations	Options
<p>In 0-position - magnetic system not under power - its seat is closed. Pressure thus builds up in the control chamber, which due to the larger effective membrane surface holds the membrane in "closed" position.</p>	<p>2/2-way flange mount Solenoid valve Flange-side pressure inlet Type EGV-311-AH9-...</p>	<p>Stepwise manual override Type EGV-312-... This limits: permitted excess operating pressure: 12.5 bar permitted Medium temperature: max. 60°C</p>
<p>In override position - magnetic system under power - its seat is open, the control chamber released and the membrane is held by the flow medium in "open" position. A minimum pressure difference is required for this.</p>	<p>2/2-way flange mount Solenoid valve Thread-side pressure inlet Type EGV-311-A7L-...</p>	<p>Membrane made of other material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils</p>
	<p>2/2-way solenoid valve Rapid function version with 3/2-way servo-override especially for compressed air Type EGV-361-A87-... BP-00</p>	<p>Non-return valve integrated outlet-side in the gate unit Type EGV-311-A78-./.,R-.. This only blocks up to a pressure difference of 10 bar</p>

Permitted Operating Pressure OP

DN	Type	PN	Combinable solenoid coil			Permitted Operating Pressure OP [bar] at ambient temperature +60 °C																	
			Type	Nominal power P ₂₀			AC 50 Hz 90 %U _N Medium temperature			AC 60 Hz 90 %U _N Medium temperature			DC 90 %U _N Medium temperature			DC 90 %U _N Medium temperature			DC 100 %U _N Medium temperature				
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C		
				on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.		
13	EGV-311-A..	16/8	E22...L.	3.5	on req.	2.5	8	on req.	on req.	7	on req.	on req.	6	5	4	4	3	2	6	5	4		
			E22...M.	5.5	5	5	16	16	16	16	16	16	16	16	16	14	12	10	8	15	13	12	
			E22...H.	-	-	8	-	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16	16
			E30...P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16

2/2-Way Solenoid Valve - Type EGV Series 300

Price group	53	Function "B" normally open	Low noise and impact-free closing, for neutral, gaseous or fluids
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Brass

Version	DN	Kv-value water [m³/h]	G	PN	Possible type of power	Sealing material	Type	Order number	Price
<p>Valve without solenoid coil Permitted operating pressure 0.3 bar up to value according to table below.</p>	13	3.2	G 1/2	16	AC / DC	NBR	EGV-311-B87-1/2BP-00	613411	o. r.
	13	3.2	G 1/2	16	AC / DC	EPDM	EGV-311-B87-1/2PP-00	613413	o. r.
	13	3.2	G 1/2	16	AC / DC	FKM	EGV-311-B87-1/2FP-00	613415	o. r.

Illustration

These valves, due to their long lifetime, are primarily used as a start-up unloading device for compressors.
 If the magnet loses power, control chamber volume leakage of "3" occurs briefly. If necessary this must be caught and discharged at connector G 1/8 (above).

 Cable sockets adaptable with solenoid coil E22 by 2 x 180°, with E30 by 4 x 90° repositionable. Both solenoid coils 360° rotatable.

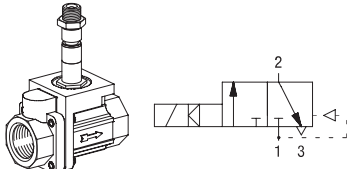
Function	Variations	Options
<p>In 0-position - magnetic system not under power - its seat is closed and its override seat open. Thereby the control chamber is released by "3" and the membrane held in "open" position by the flow medium. A minimum pressure difference is required for this.</p>	<p>2/2-way flange mount Solenoid valve Flange-side pressure inlet Type EGV-311-BL7-.....</p>	<p>Stepwise manual override Type EGV-312-... This limits: permitted excess operating pressure: 12.5 bar permitted Medium temperature: max. 60°C</p>
<p>In override position - magnetic system under power - its seat is open and its override seat closed. Pressure thus builds up in the control chamber, which due to the larger effective membrane surface holds the membrane in closed position.</p>	<p>2/2-way flange mount Solenoid valve Thread-side pressure inlet Type EGV-311-B9H-.....</p>	<p>Membrane made of other material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils</p>
		<p>increases resistance to corrosion, and replaces stainless steel valves cost-effectively for many flow medium Type EGV-311Q-...</p>
		<p>Non-return valve integrated outlet-side in the gate unit Type EGV-311-B87-/,T-... This only blocks up to a pressure difference of 10 bar</p>

Permitted Operating Pressure OP

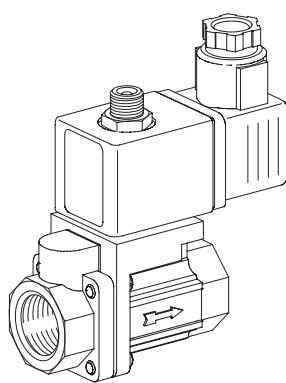
DN	Type	PN	Permitted Operating Pressure OP [bar] at ambient temperature + 60°C																				
			Combinable solenoid coil			AC 50 Hz 90%U _N Medium temperature						AC 60 Hz 90%U _N Medium temperature						DC 90%U _N Medium temperature					
			Type	Nominal power P ₂₀		AC 50 Hz			AC 60 Hz			DC			DC			DC					
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C		
13	EGV-311-B..	16	E22...L.	3.5	on req.	2.5	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.			
			E22...M.	5.5	5	5	16	16	16	16	16	16	16	16	16	16	16	16	16	16			
			E22...H.	-	-	8	-	-	-	-	-	-	-	-	16	16	16	16	16	16			
			E30...P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16			

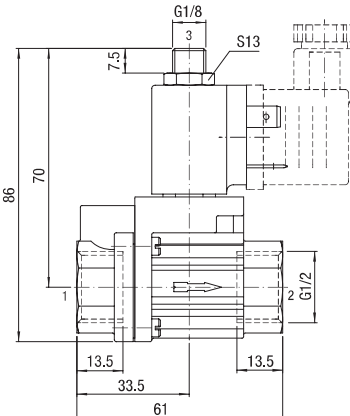
2/2-Way Solenoid Valve - Type EGV Series 300

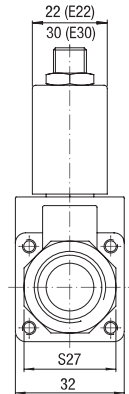
Price group 53	"C" in 0 position "1" closed, "2" after "3" discharged	low noise and impact-free closing, for neutral, gaseous or fluids	Brass
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Version	DN	Kv-value water [m³/h]	G	PN	Possible type of power	Sealing material	Type	Order number	Price
 <p>Valve port 3:1.8DV without solenoid coil Permitted operating pressure 0.3 bar up to valve according to table below.</p>	13	3.2	G 1/2	12.5	AC/DC	NBR	EGV-321-C69-1/2BN-00	613421	o. r.
	13	3.2	G 1/2	12.5	AC/DC	EPDM	EGV-321-C69-1/2PN-00	613423	o. r.
	13	3.2	G 1/2	12.5	AC/DC	FKM	EGV-321-C69-1/2FN-00	613425	o. r.

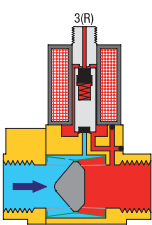
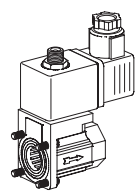

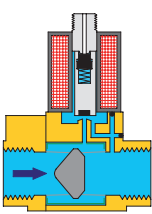
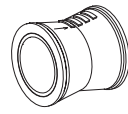

Illustration







Cable sockets adaptable with solenoid coil E22 by 2 x 180°, with E30 by 4 x 90° repositionable. Both solenoid coils 360° rotatable.

Function	Variations	Options
 <p>In 0-position - magnetic system not under power - its seat is closed. Pressure thus builds up in the control chamber, which due to the larger effective membrane surface holds the membrane in "closed" position. Simultaneously the secondary side is ventilated via "3".</p>	 <p>2/2-way flange mount Solenoid valve Flange-side pressure inlet Type EGV-321-CH9-...</p>	 <p>Stepwise manual override Type EGV-322-... This limits: permitted excess operating pressure: 12.5 bar permitted Medium temperature: max. 60°C</p>
 <p>In override position - magnetic system under power - its seat is open, the control chamber released and the membrane is held by the flow medium in "open" position. A minimum pressure difference is required for this.</p>		 <p>Membrane made of other material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils</p>
		 <p>increases resistance to corrosion, and replaces stainless steel valves cost-effectively for many flow medium Type EGV-321Q-...</p>

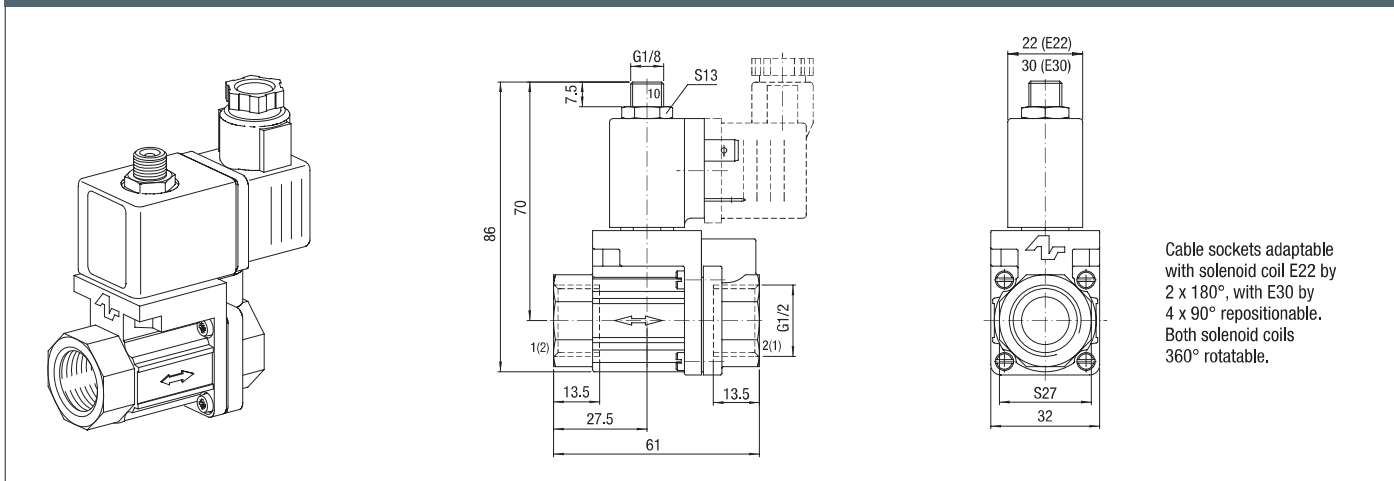
Permitted Operating Pressure OP

DN	Type	PN	Combinable solenoid coil		Permitted Operating Pressure OP [bar] at ambient temperature +60 °C																	
			Type	Nominal power P ₂₀			AC 50 Hz 90 %U _N Medium temperature			AC 60 Hz 90 %U _N Medium temperature			DC 90 %U _N Medium temperature			DC 90 %U _N Medium temperature			DC 100 %U _N Medium temperature			
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	
13	EGV-321-C..	12.5	E22...L.	3.5	on req.	2.5	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.		
			E22...M.	5.5	5	5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	
			E22...H.	-	-	8	-	-	-	-	-	-	-	-	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
			E30...P.	12	10.5	8	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

2/2-Way Solenoid Valve - Type EGV Series 300

Price group	53	Function "Z" normally closed with existing auxiliary pressure at port "10"	Low noise and impact-free closing, for neutral, gaseous or fluids	Brass
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Version	DN	Kv-value water [m³/h]	G	PN	Possible type of power	Sealing material	Type	Order number	Price
<p>Valve without solenoid coil Permitted operating pressure 0.3 bar up to valve according to table below, double-sided blocking. Permitted control pressure at "10" ≥ Operating pressure, max. 16 bar</p>	13	3.2	G 1/2	16	AC/DC	NBR	EGV-311-Z76-1/2BP-00	613431	o. r.
	13	3.2	G 1/2	16	AC/DC	EPDM	EGV-311-Z76-1/2PP-00	613433	o. r.
	13	3.2	G 1/2	16	AC/DC	FKM	EGV-311-Z76-1/2FP-00	613435	o. r.

Illustration


Function	Variations	Options
<p>In 0-position - magnetic system not under power - its seat is closed. The auxiliary pressure accumulated at "10" thus builds up in the control chamber and holds the membrane in "closed" position.</p>	<p>2/2-way flange mount Solenoid valve Flange-side pressure inlet Type EGV-311-ZL7-...</p>	<p>Stepwise manual override Type EGV-312-... This limits: permitted excess operating pressure: 12.5 bar permitted Medium temperature: max. 60°C</p>
<p>In override position - magnetic system under power - its override seat is closed. The control chamber is released by the open seat and the membrane held in "open" position by the flow medium. A minimum pressure difference is required for this.</p>		<p>Membrane made of other material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils</p>
		<p>Brass components chemically nickel-plated</p> <p>increases resistance to corrosion, and replaces stainless steel valves cost-effectively for many flow medium Type EGV-311Q-...</p>
		<p>0-pressure membrane requires no differential pressure to open, however to close requires control pressure 1 bar above operating pressure Type EGV-311-Z76-/.0-...</p>

Permitted Operating Pressure OP

DN	Type	PN	Permitted Operating Pressure OP [bar] at ambient temperature +60 °C																			
			Combinable solenoid coil			Permitted Operating Pressure OP [bar] at ambient temperature +60 °C																
			Type	Nominal power P ₂₀			AC 50 Hz 90 %U _N Medium temperature			AC 60 Hz 90 %U _N Medium temperature			DC 90 %U _N Medium temperature			DC 90 %U _N Medium temperature			DC 100 %U _N Medium temperature			
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	
13	EGV-311-Z..	16	E22...L.	3.5	on req.	2.5	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.		
			E22...M.	5.5	5	5	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
			E22...H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16	16
			E30...P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16

2/2-Way Solenoid Valve with Pressure Regulator - Type EGR Series 300

Price group 53	Function "C" normally closed, with secondary side discharged	low noise and impact-free closing, for neutral, gaseous medium (fluid optional)	Amb. temp. $T_{min} -20\text{ }^{\circ}\text{C}$, $T_{max} +60\text{ }^{\circ}\text{C}$ Med.-Temp. $T_{min} 0\text{ }^{\circ}\text{C}$, $T_{max} +60\text{ }^{\circ}\text{C}$	Brass
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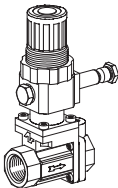
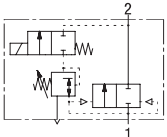
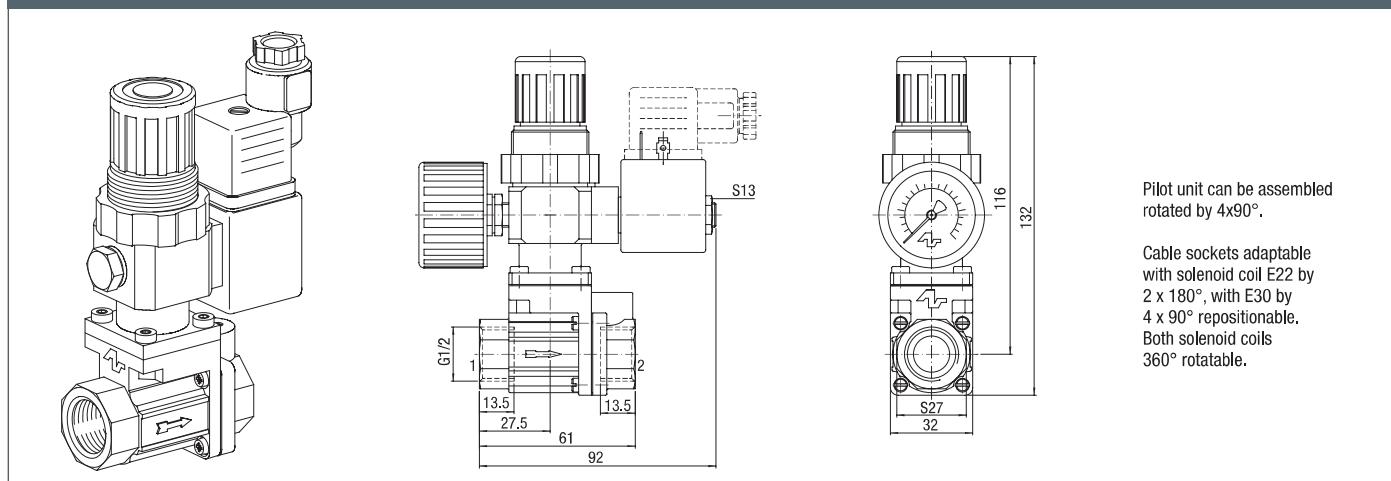
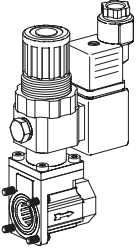
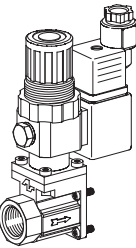
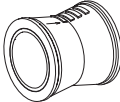

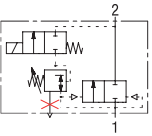





Version		Secondary pressure [bar]	DN	Flow air [l/min]	G	PN	Possible type of power	Sealing material	Type	Order number	Price
 	Valve without solenoid coil without pressure gauge	0.5 - 10	13	150 to 1,500	G 1/2	16/8	AC/DC	NBR	EGR-351-1C78-1/2BN-00	654001	o. r.
	Permitted operating pressure 0.5 bar up to valve according to table below.	0.5 - 3	13	150 to 1,500	G 1/2	16/8	AC/DC	NBR	EGR-351-3C78-1/2BN-00	654002	o. r.
		0.5 - 6	13	150 to 1,500	G 1/2	16/8	AC/DC	NBR	EGR-351-6C78-1/2BN-00	654003	o. r.

Illustration


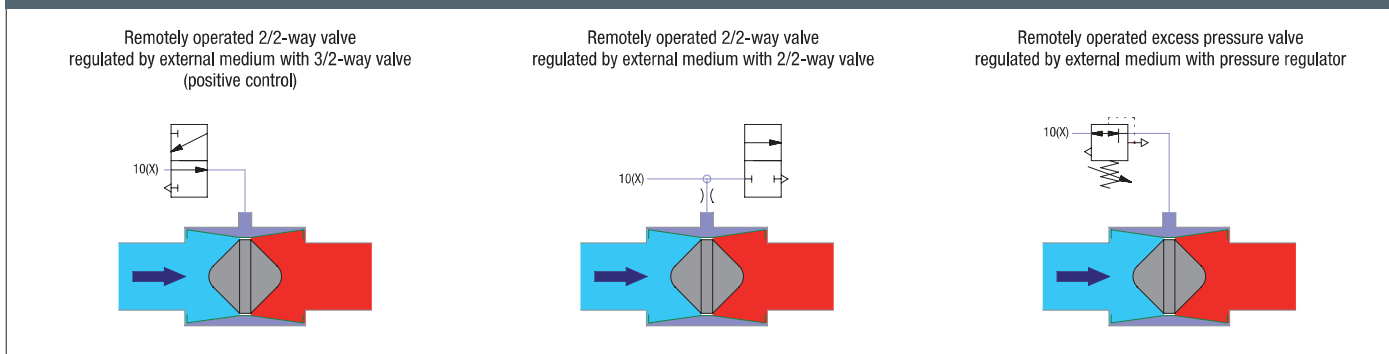
Function	Variations	Options
<p>With respect to electrical function the valve corresponds to a 2/2-way solenoid valve function "A".</p> <p>In override position - magnetic system under power - the membrane is only held in "open" position by the flow medium until the outlet-side pressure reaches the value set on the pressure regulator. This can be set using the lockable adjustment button. The pressure should preferably be measured as near to the load as possible. In case of need a pressure gauge can also be attached to the pilot pressure regulator.</p> <p>For dynamic loads or neutral fluids, a version without secondary-side ventilation can be supplied.</p>	 <p>2/2-way flange mount Solenoid valve with Pressure regulator Flange-side pressure inlet Type EGR-351-.CH9-.</p>  <p>2/2-way flange mount Solenoid valve with Pressure regulator Thread-side pressure inlet Type EGR-351-.C7L-....</p>	 <p>Membrane made of other material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils</p>  <p>increases resistance to corrosion and replaces stainless steel valves cost-effectively for many flow medium Type EGV-321Q-...</p>  <p>without secondary side ventilation of the pilot pressure regulator, especially for fluids Type EGR-351-.A78-...</p>

Permitted Operating Pressure OP

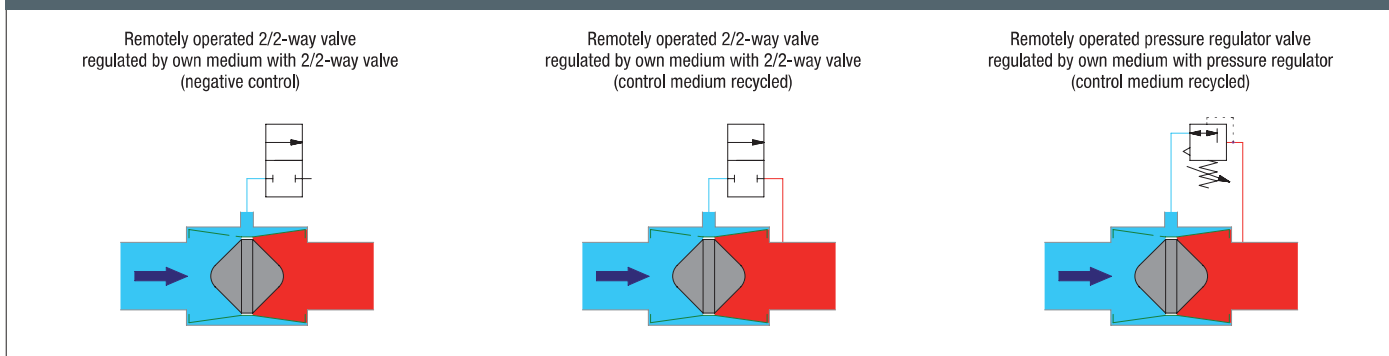
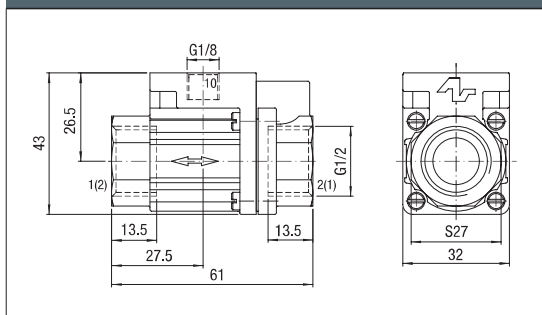
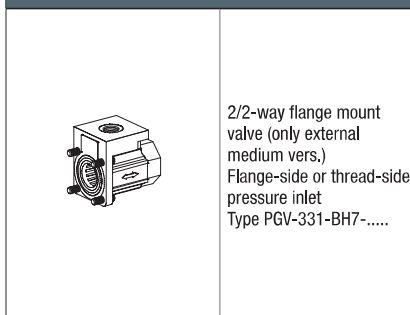
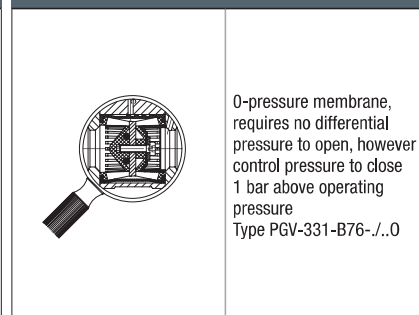
DN	Type	PN	Combinable solenoid coil		Permitted Operating Pressure OP [bar] at ambient temperature +60 °C												
			Type	Nominal power P_{20}			AC 50 Hz 		AC 60 Hz 		DC 90 %U _N 		DC 90 %U _N 		DC 100 %U _N 		
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	90 %U _N Medium temperature		90 %U _N Medium temperature		90 %U _N Medium temperature		90 %U _N Medium temperature		100 %U _N Medium temperature		
				60 °C	90 °C	130 °C	60 °C	90 °C	60 °C	90 °C	60 °C	90 °C	60 °C	90 °C	60 °C	90 °C	
13	EGV-351-C..	16/8	E22...L.	3.5	on req.	2.5	8	on req.	-	7	on req.	6	5	4	3	6	5
			E22...M.	5.5	5	5	16	16	16	16	16	16	16	12	10	15	13
			E22...H.	-	-	8	-	-	-	-	-	16	16	16	16	16	16
			E30...P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16

2/2-Way Valve - Type PGV Series 300 - Pressure Operated (Volume Booster) by External Medium

Price group 53	Function "B" normally open (without control pressure)	low noise and impact-free closing, for neutral, gaseous and fluids	Brass							
Version		Control pressure [bar]	DN	Kv-value water [m³/h]	G	PN	Sealing material	Type	Order number	Price
	2/2-way valve pressure operated, double-sided blocking by external medium Permitted operating pressure 0.3 to 16 bar	\geq excess operating pressure max. 16 bar	13	3.2	G 1/2	16	NBR	PGV-331-B76-1/2BP	614101	o. r.
			13	3.2	G 1/2	16	EPDM	PGV-331-B76-1/2PP	614103	o. r.
			13	3.2	G 1/2	16	FKM	PGV-331-B76-1/2FP	614105	o. r.

Illustration

2/2-Way Valve - Type PGV Series 300 - Pressure Operated (Volume Booster) by own Medium

Price group 53	Function "B" normally open (without control pressure)	low noise and impact-free closing, for neutral, gaseous and fluids	Brass							
Version		Control pressure [bar]	DN	Kv-value water [m³/h]	G	PN	Sealing material	Type	Order number	Price
	2/2-way valve pressure operated by own medium Permitted operating pressure 0.3 to 16 bar	\geq excess operating pressure max. 16 bar	13	3.2	G 1/2	16	NBR	PGV-331-B76-1/2BN	614151	o. r.
			13	3.2	G 1/2	16	EPDM	PGV-331-B76-1/2PN	614153	o. r.
			13	3.2	G 1/2	16	FKM	PGV-331-B76-1/2FN	614155	o. r.

Illustration

Illustration

Variations

Options


2/2-Way Valve - Type PGV Series 300 - Pressure Operated

Price group 53	Function "A" normally closed	low noise functioning, for gaseous medium, especially compressed air	Brass
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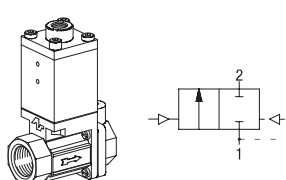
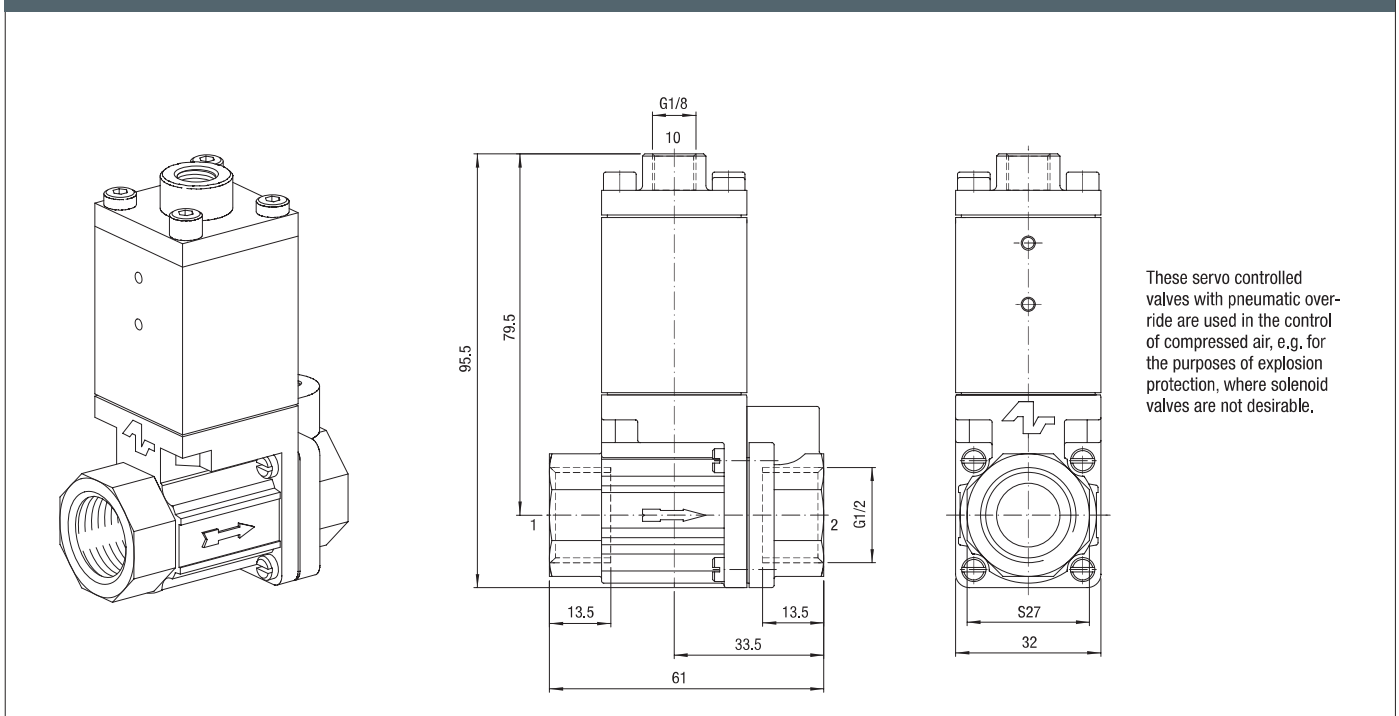
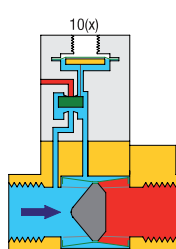
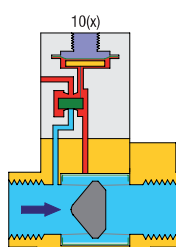
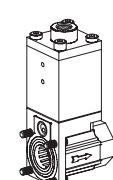
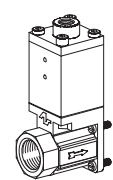
Version	Control pressure [bar]	DN	Flow air [Nm ³ /h]	G	PN	Sealing material	Type	Order number	Price
 <p>2/2-way valve pressure-operated by maintained compressed air Permitted operating pressure 0.3 to 16 bar</p>	4-7	13	3.2	G 1/2	16	NBR	PGV-351-A96-1/2BP	614181	o. r.

Illustration

Function

 <p>10(x)</p>	<p>In 0-position - pre-control valve not pressurised - its seat is closed. Pressure thus builds up in the control chamber, which due to the larger effective membrane surface holds the membrane in "closed" position.</p>
 <p>10(x)</p>	<p>In override position - pre-control valve pressurised - its override seat is closed. The control chamber is released by the open seat, and the membrane is held in "open" position by the flow medium. A minimum pressure difference is required for this.</p>

Variations

	<p>2/2-way flange mount valve Flange-side pressure inlet Type PGV-351-.AL7-1/2BP</p>
	<p>2/2-way flange mount valve Thread-side pressure inlet Type PGV-351-.A9H-1/2BP</p>

Pressure Regulator Valve - Type RGV Series 300

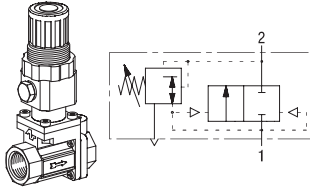
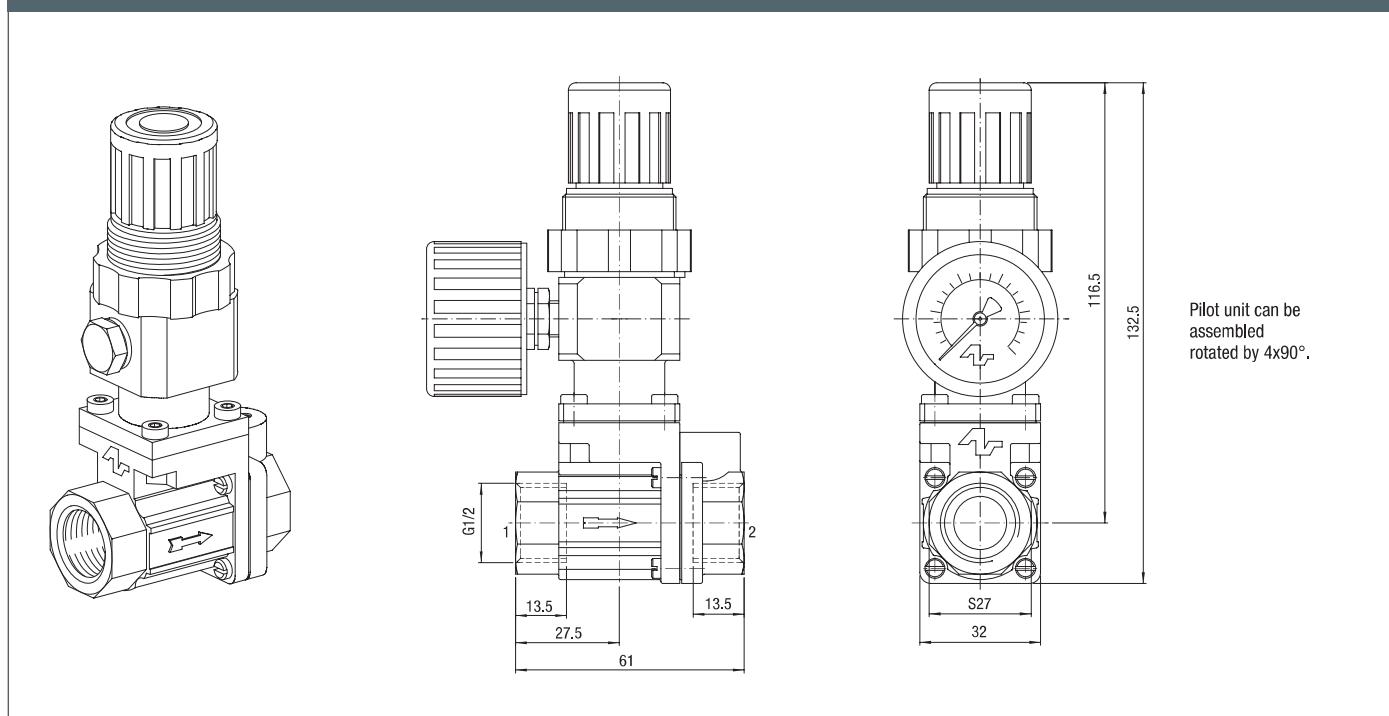
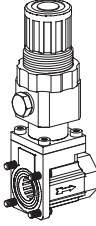

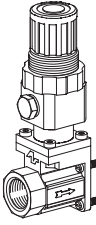
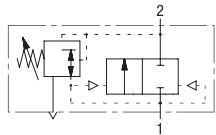

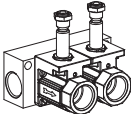
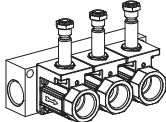
Price group 53	with secondary side ventilation	low noise and impact-free control, for neutral, gaseous medium (optional fluids)	Amb. temp. $T_{min} -20\text{ °C}$, $T_{max} +60\text{ °C}$ Med.-Temp. $T_{min} 0\text{ °C}$, $T_{max} +60\text{ °C}$				Brass			
Version		Secondary pressure [bar]	DN	Flow air [l/min]	G	PN	Sealing material	Type	Order number	Price
	Pressure regulator valve without pressure gauge Permitted operating pressure 0.5 bar up to 16 bar	0.5 - 10	13	150 to 1,500	G 1/2	16	NBR	RGV-351-1C78-1/2BN	653001	o. r.
		0.5 - 3	13	150 to 1,500	G 1/2	16	NBR	RGV-351-3C78-1/2BN	653002	o. r.
		0.5 - 6	13	150 to 1,500	G 1/2	16	NBR	RGV-351-6C78-1/2BN	653003	o. r.

Illustration

Variations

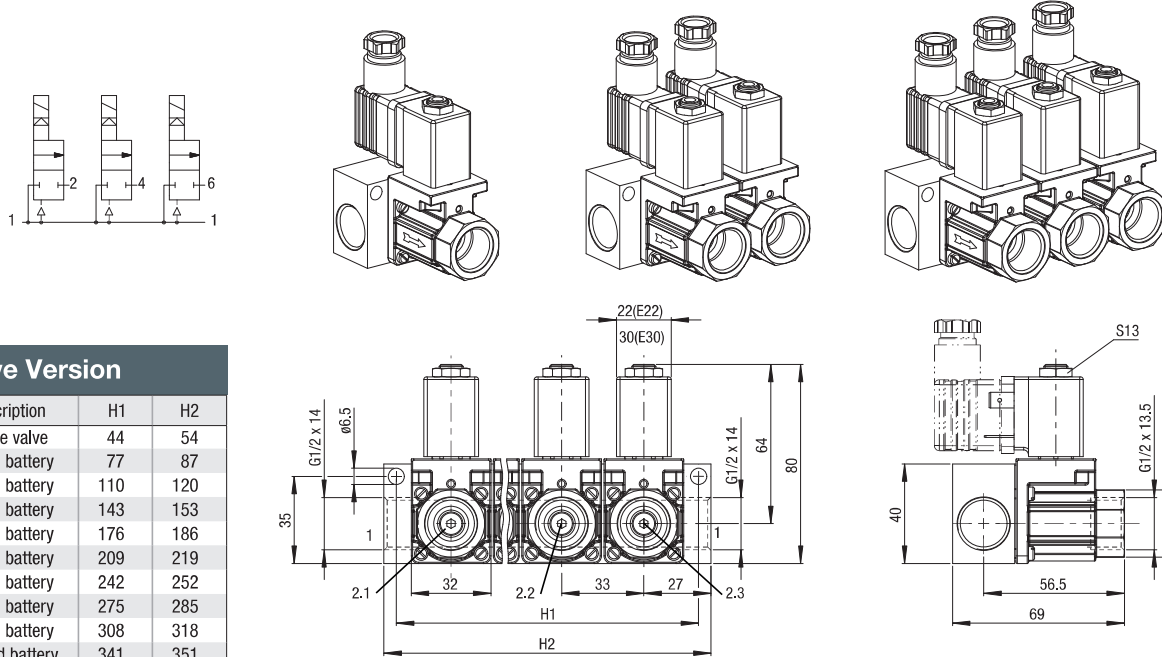
	Flange mount Pressure regulator valve Flange-side pressure inlet Type RGV-351-.CH9-....		increases resistance to corrosion, and replaces stainless steel valves cost-effectively stainless steel pressure regulator Type RGV-351Q-...
	Flange mount Pressure regulator valve Thread-side pressure inlet Type RGV-351-.C7L-....		without secondary side ventilation of the pilot pressure regulator, especially for fluids Type RGV-351-.A78-...

2/2-Way Solenoid Valve Battery - Type EGV Series 300

Price group 53	Function "A" normally closed, distributor version	low noise and impact-free closing, for neutral, gaseous or fluids	Brass
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Version	DN	Kv-value water [m³/h]	G	PN	Possible type of power	Sealing material	Type	Order number	Price
 <p>Valve without solenoid coil Permitted operating pressure 0,3 bar up to value according to table below.</p>	13	3.2	G 1/2	16/8	AC/DC	NBR	EGV-311/V1-AH9-1/2BN-00	616801	o. r.
	13	3.2	G 1/2	16/8	AC/DC	EPDM	EGV-311/V1-AH9-1/2PN-00	616831	o. r.
	13	3.2	G 1/2	16/8	AC/DC	FKM	EGV-311/V1-AH9-1/2FN-00	616861	o. r.
 <p>Valve, 2-fold Battery or solenoid coil Permitted operating pressure 0,3 bar up to value according to table below.</p>	13	3.2	G 1/2	16/8	AC/DC	NBR	EGV-311/V2-AH9-1/2BN-00	616802	o. r.
	13	3.2	G 1/2	16/8	AC/DC	EPDM	EGV-311/V2-AH9-1/2PN-00	616832	o. r.
	13	3.2	G 1/2	16/8	AC/DC	FKM	EGV-311/V2-AH9-1/2FN-00	616862	o. r.
 <p>Valve, 3-fold Battery or solenoid coil Permitted operating pressure 0,3 bar up to value according to table below.</p>	13	3.2	G 1/2	16/8	AC/DC	NBR	EGV-311/V3-AH9-1/2BN-00	616803	o. r.
	13	3.2	G 1/2	16/8	AC/DC	EPDM	EGV-311/V3-AH9-1/2PN-00	616833	o. r.
	13	3.2	G 1/2	16/8	AC/DC	FKM	EGV-311/V3-AH9-1/2FN-00	616863	o. r.

Illustration



Valve Version

Description	H1	H2
Single valve	44	54
2-fold battery	77	87
3-fold battery	110	120
4-fold battery	143	153
5-fold battery	176	186
6-fold battery	209	219
7-fold battery	242	252
8-fold battery	275	285
9-fold battery	308	318
10-fold battery	341	351






Valve batteries series 300 can also be delivered at short notice in 4- to 10-fold version

Valve batteries series 100 can also be constructed combined, with all valve Types, for all listed functions and with various options according to customer requirements.

Solenoid valves, with pressure regulator, pressure operated valves or pressure regulator valves, can thus be flange-mounted on a collector plate according to requirement, or also opposite laterally reversed. Likewise the flow direction of the flange valves can be freely selected to a large extent. (Distributor or mixer version)

AVS Römer furthermore manufactures so-called multi-functional blocks, with integrated injectors, pressure sensors and such like.

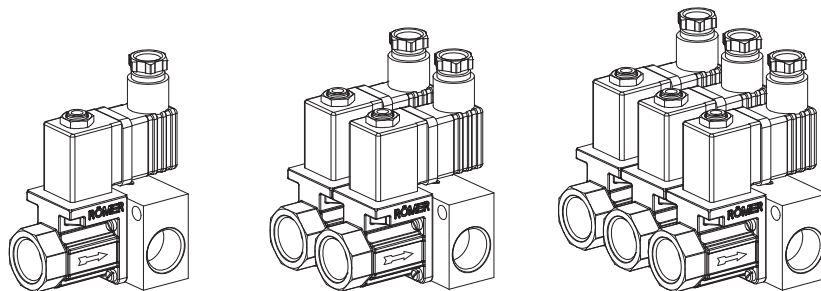
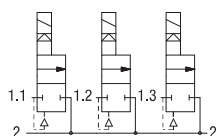
Permitted Operating Pressure OP

DN	Type	PN	Combinable solenoid coil		Permitted Operating Pressure OP [bar] at ambient temperature + 60 °C																			
			Type	Nominal power P ₂₀			AC 50 Hz 			AC 60 Hz 			DC 90 %U _N 			DC 90 %U _N 			DC 100 %U _N 					
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	Medium temperature			Medium temperature			Medium temperature			Medium temperature			Medium temperature					
				60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C			
13	EGV-311/V.-A.	16/8	E22...L.	3.5	on req.	2.5	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.
			E22...M.	5.5	5	5	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
			E22...H.	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			E30...P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16

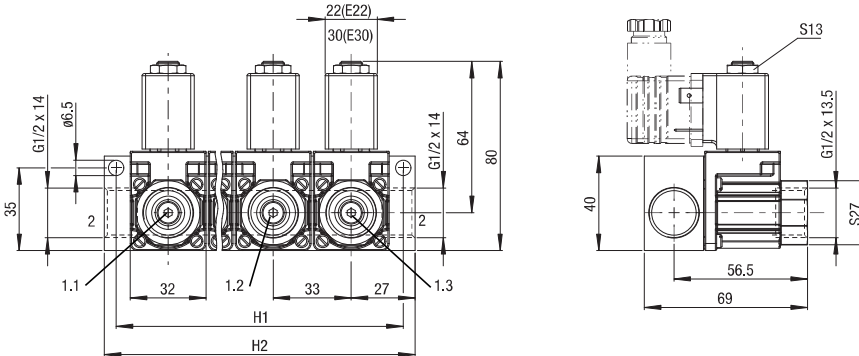
2/2-Way Solenoid Valve Battery - Type EGV Series 300

Price group	53	Function "A" normally closed, mixer version	low noise and impact-free closing, for neutral, gaseous or fluids	Brass
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Version	Non-return valve	DN	Kv-value water [m³/h]	G	PN	Possible type of power	Sealing material	Type	Order number	Price
Valve without solenoid coil Permitted operating pressure 0.3 bar up to value according to table below.	without	13	3.2	G 1/2	16/8	AC/DC	NBR	EGV-311/M1-A7L-1/2BN-00	616811	o. r.
	with	13	3.2	G 1/2	16/8	AC/DC	NBR	EGV-311/M1-A7L-1/2BR-00	616821	o. r.
	without	13	3.2	G 1/2	16/8	AC/DC	EPDM	EGV-311/M1-A7L-1/2PN-00	616841	o. r.
	with	13	3.2	G 1/2	16/8	AC/DC	EPDM	EGV-311/M1-A7L-1/2PR-00	616851	o. r.
	without	13	3.2	G 1/2	16/8	AC/DC	FKM	EGV-311/M1-A7L-1/2FN-00	616871	o. r.
with	13	3.2	G 1/2	16/8	AC/DC	FKM	EGV-311/M1-A7L-1/2FR-00	616881	o. r.	
Valve, 2-fold Battery or solenoid coil Permitted operating pressure 0.3 bar up to value according to table below.	without	13	3.2	G 1/2	16/8	AC/DC	NBR	EGV-311/M2-A7L-1/2BN-00	616812	o. r.
	with	13	3.2	G 1/2	16/8	AC/DC	NBR	EGV-311/M2-A7L-1/2BR-00	616822	o. r.
	without	13	3.2	G 1/2	16/8	AC/DC	EPDM	EGV-311/M2-A7L-1/2PN-00	616842	o. r.
	with	13	3.2	G 1/2	16/8	AC/DC	EPDM	EGV-311/M2-A7L-1/2PR-00	616852	o. r.
	without	13	3.2	G 1/2	16/8	AC/DC	FKM	EGV-311/M2-A7L-1/2FN-00	616872	o. r.
with	13	3.2	G 1/2	16/10	AC/DC	FKM	EGV-311/M2-A7L-1/2FR-00	616882	o. r.	
Valve, 3-fold Battery or solenoid coil Permitted operating pressure 0.3 bar up to value according to table below.	without	13	3.2	G 1/2	16/8	AC/DC	NBR	EGV-311/M3-A7L-1/2BN-00	616813	o. r.
	with	13	3.2	G 1/2	16/8	AC/DC	NBR	EGV-311/M3-A7L-1/2BR-00	616823	o. r.
	without	13	3.2	G 1/2	16/8	AC/DC	EPDM	EGV-311/M3-A7L-1/2PN-00	616843	o. r.
	with	13	3.2	G 1/2	16/8	AC/DC	EPDM	EGV-311/M3-A7L-1/2PR-00	616853	o. r.
	without	13	3.2	G 1/2	16/8	AC/DC	FKM	EGV-311/M3-A7L-1/2FN-00	616873	o. r.
with	13	3.2	G 1/2	16/10	AC/DC	FKM	EGV-311/M3-A7L-1/2FR-00	616883	o. r.	

Illustration

Valve Version

Description	H1	H2
Single valve	44	54
2-fold battery	77	87
3-fold battery	110	120
4-fold battery	143	153
5-fold battery	176	186
6-fold battery	209	219
7-fold battery	242	252
8-fold battery	275	285
9-fold battery	308	318
10-fold battery	341	351



The pressure value at outlet "2" may not exceed the values at inlets 1.1, 1.2 or 1.3, otherwise the version with integrated non-return valves should be selected. These block up to a pressure difference of 10 bar.

Valve batteries series 300 can also be delivered at short notice in 4- to 10-fold version.

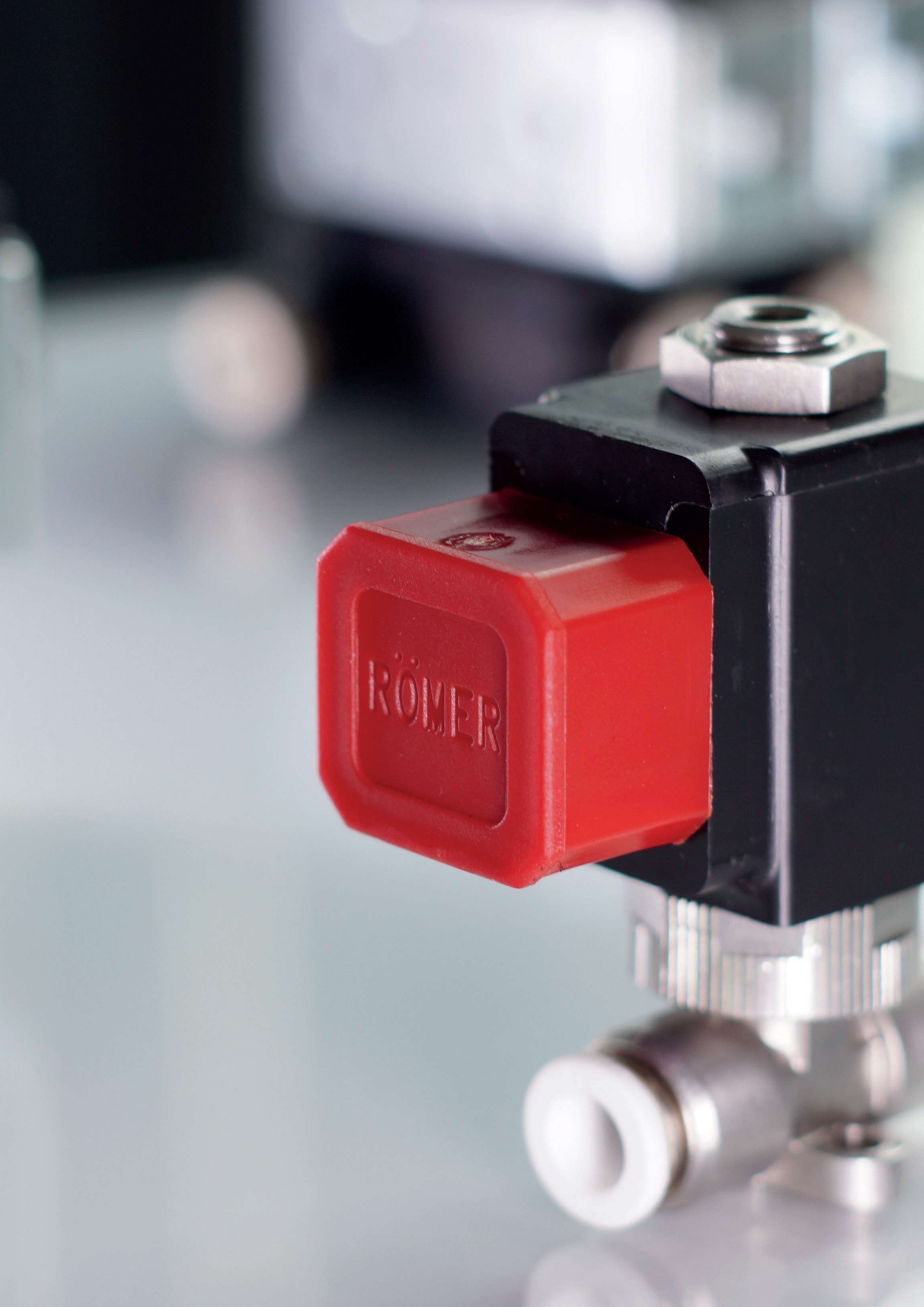
Valve batteries series 100 can also be constructed combined, with all valve Types, for all listed functions and with various options according to customer requirements.

Solenoid valves, with pressure regulator, pressure operated valves or pressure regulator valves, can thus be flange-mounted on a collector plate according to requirement, or also opposite laterally reversed. Likewise the flow direction

of the flange valves can be freely selected to a large extent. (Distributor or mixer version) AVS Römer furthermore manufactures so-called multi-functional blocks, with integrated injectors, pressure sensors and such like.

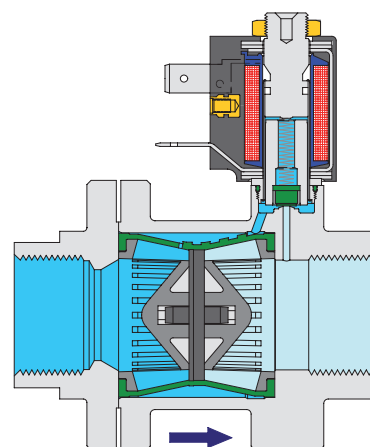
Permitted Operating Pressure OP

DN	Type	PN	Combinable solenoid coil		Permitted Operating Pressure OP [bar] at ambient temperature +60 °C																	
			Type	Nominal power P ₂₀			AC 50 Hz 90 %U _N Medium temperature			AC 60 Hz 90 %U _N Medium temperature			DC 90 %U _N Medium temperature			DC 90 %U _N Medium temperature			DC 100 %U _N Medium temperature			
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	
				on req.	5	2.5	on req.	on req.	on req.	on req.	on req.	on req.	6	5	4	4	3	2	6	5	4	
13	EGV-311/M.-A.	16/8	E22...L.	3.5	on req.	2.5	on req.	on req.	on req.	on req.	6	5	4	4	3	2	6	5	4			
			E22...M.	5.5	5	5	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
			E22...H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16	16
			E30...P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16



GAMMA Valves Series 700 Stainless Steel AISI 303 (1.4305)

Robust valve series DN 15 (G 1/2) to DN 50 (G 2) for various aggressive flow media



Rapid technological development in mechanical and apparatus construction requires ever more stainless steel valves made from the most varied of materials and connectors. The coaxial gate unit, the centrepiece of AVS Römer GAMMA valves, also permits cost reduction here. In material and form various valve bodies and connector

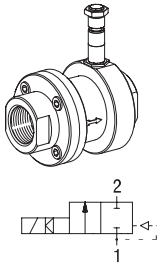
components can be manufactured very economically using rods with relatively low material expenditure. Dirt particles in the flow medium can lead to malfunction in the solenoid valves. The installation of a strainer with mesh width 0.25 mm is thus to be recommended.

CHARACTERISTICS
GENERAL

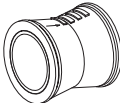
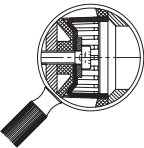
Constructional design	low noise membrane valve with coaxial flow		
Product name	2/2-way solenoid valve servo controlled	2/2-way solenoid valve pressure operated	2/2-way valve pressure operated by external or own medium
Product type	EGV	EGV	PGV
Function	“A” normally closed	“Z” normally closed	“B” normally open
Nominal diameter	DN 15 to DN 50		
Connection	Thread (ISO 228) G 1/2 to G 2 (other connectors on request)		
Ambient temperature	-20 °C to +60 °C (others on request)		
Medium temperature	for NBR: -10 °C to +90 °C for FKM and EPDM: -10 °C to +130 °C (for exceptions see table)		
Medium viscosity	up to ca. 20 mm ² /s		
Valve body material	Stainless steel 1,4305 (others on request)		
Membrane support unit material	reinforced plastic		
Other internal component material	Stainless steel		
Seal material	NBR (nitrile rubber), EPDM (ethylene propylene) or FKM (fluoride rubber) (others on request)		
Mounting method	Installation in rigid pipe system		
Mounting position	optional, preferably upright		
PNEUMATIC - HYDRAULIC			
Nominal pressure (bar)	according to type table. The numerical value of the nominal pressure PN signifies the permitted excess operating pressure OP in bar at 60 °C ambient temperature and 60 °C medium temperature. Insofar as two values are given, the first value refers to solenoid coil with highest electrical power consumption, the second value to that with lowest power consumption.		
Pressure range	0,2 bar up to permitted operating pressure OP according to table. 0 to 16 bar version is also possible for type EGV function “Z” and type PGV		
Flow rate	Kv-value according to type table (full flow with pressure difference of 0.5 bar or higher)		
Medium	gaseous or fluids which do not corrode the materials specified		
Response time	Opening time: 20 ms to 1 s; closing time: 25 ms to 3 s, according to flow medium		
Electric	see under solenoid coils		

2/2-Way Solenoid Valve - Type EGV Series 700

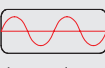
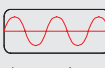
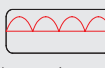
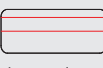
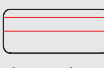
Price group 53	Function "A" normally closed	Low noise and impact-free closing, for gaseous or fluids	Stainless steel 1.4305
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Version	DN	Kv-value water [m³/h]	G	PN	Possible type of current	Sealing material	Type (Valve without solenoid coil)	Order number	Price
Valve without solenoid coil Permitted operating pressure 0.2 bar up to valve according to table below. 	15	5.6	G 1/2	16/8	DC	NBR	EGV-713-A79-1/2BN-00	623502	o. r.
	15	5.6	G 1/2	16/8	DC	EPDM	EGV-713-A79-1/2PN-00	623504	o. r.
	15	5.6	G 1/2	16/8	DC	FKM	EGV-713-A79-1/2FN-00	623506	o. r.
	20	7.6	G 3/4	16/8	DC	NBR	EGV-713-A79-3/4BN-00	623552	o. r.
	20	7.6	G 3/4	16/8	DC	EPDM	EGV-713-A79-3/4PN-00	623554	o. r.
	20	7.6	G 3/4	16/8	DC	FKM	EGV-713-A79-3/4FN-00	623556	o. r.
	25	16.8	G 1	16/8	DC	NBR	EGV-713-A79-1BN-00	623602	o. r.
	25	16.8	G 1	16/8	DC	EPDM	EGV-713-A79-1PN-00	623604	o. r.
	25	16.8	G 1	16/8	DC	FKM	EGV-713-A79-1FN-00	623606	o. r.
	32	21	G 1 1/4	16/8	DC	NBR	EGV-713-A79-5/4BN-00	623652	o. r.
	32	21	G 1 1/4	16/8	DC	EPDM	EGV-713-A79-5/4PN-00	623654	o. r.
	32	21	G 1 1/4	16/8	DC	FKM	EGV-713-A79-5/4FN-00	623656	o. r.
	40	29.5	G 1 1/2	16/8	DC	NBR	EGV-713-A79-6/4BN-00	623702	o. r.
	40	29.5	G 1 1/2	16/8	DC	EPDM	EGV-713-A79-6/4PN-00	623704	o. r.
	40	29.5	G 1 1/2	16/8	DC	FKM	EGV-713-A79-6/4FN-00	623706	o. r.
	50	35	G 2	16/8	DC	NBR	EGV-713-A79-2BN-00	623752	o. r.
	50	35	G 2	16/8	DC	EPDM	EGV-713-A79-2PN-00	623754	o. r.
50	35	G 2	16/8	DC	FKM	EGV-713-A79-2FN-00	623756	o. r.	

Options

	Membrane made of other material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils		Non-return valve integrated outlet-side in the gate unit Type EGV-713-A79-./.,R-.. This blocks only up to the following pressure difference: DN 15 to DN 32: 10 bar DN 40 to DN 50: 8 bar	EX protection only up to 10 bar	Type EGV-7004-A..-230/50-EEX m II T5 or -024/ = -EEX m II T5 respectively with 3m cable A fuse (max. 3 x INenn) must be pre-installed with the solenoid valve!
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Permitted Operating Pressure OP

DN	type	PN	Combinable solenoid coil			Permitted excess operating pressure OP [bar] at ambient temperature +60 °C																	
			type	Nominal power P ₂₀			AC 50 Hz  90 %U _N Medium temperature			AC 60 Hz  90 %U _N Medium temperature			DC  90 %U _N Medium temperature			DC  90 %U _N Medium temperature			DC  100 %U _N Medium temperature				
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C		
15 to 32	EGV-713-A..	16/8	E22...L.	-	-	2,5	-	-	-	-	-	-	-	-	-	-	4	3	2	6	5	4	
			E22...M.	-	-	5	-	-	-	-	-	-	-	-	-	-	-	12	10	8	15	13	12
			E22...H.	-	-	8	-	-	-	-	-	-	-	-	-	-	-	16	16	16	16	16	16
			E30...P.	-	-	8	-	-	-	-	-	-	-	-	-	-	-	16	16	16	16	16	16
40 and 50	EGV-713-A..	16/8	E22...L.	3,5	on.req.	2,5	8	on.req.	on.req.	7	on.req.	on.req.	5	4	3	3	2	2	5	4	3		
			E22...M.	-	-	5	-	-	-	-	-	-	-	-	-	-	8	7	6	12	10	9	
			E22...H.	-	-	8	-	-	-	-	-	-	-	-	-	-	12	10	9	16	14	10	
			E30...P.	-	-	8	-	-	-	-	-	-	-	-	-	-	16	16	16	16	16	16	

Function

Price group	53	Function "A" normally closed	low noise and impact-free closing, for neutral, gaseous or fluids	Stainless steel 1.4305
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Operating position	Description	Function
	<p>In 0-position - magnetic system not under current - its resting seat is closed. Pressure thus builds up in the control chamber, which due to the larger effective membrane surface holds the membrane in "closed" position.</p>	
	<p>In operational position - magnetic system under current - its resting seat is open, the control chamber released and the membrane is held by the flow medium in "open" position. A minimum pressure difference is required for this.</p>	

Illustration

			<p>Alternating current (AC) operation is possible with use of wiring box type ESG with integrated bridge rectifier.</p> <p>Please do not hesitate to ask us if you have any questions.</p>
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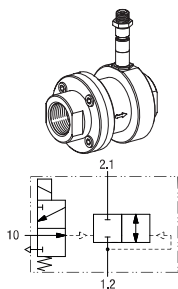
Dimensions

DN	G	L	I	N	L1	L2	H	S
15	G 1/2	68	13	14	66,5	96,5	60	27
20	G 3/4	80	15	20	66,5	96,5	60	32
25	G 1	94	17	41,5	82,5	126,5	88	41
32	G 1 1/4	112	19	50,5	82,5	126,5	88	50
40	G 1 1/2	132	21	48	96	153	114	55
50	G 2	160	24,5	62	96	153	114	70

2/2-Way Solenoid Valve - Type EGV Series 700

Price group 53	Function "Z" normally closed with existing auxiliary pressure at "10"	Low noise and impact-free closing, for gaseous or fluids	Stainless steel 1.4305
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Version	DN	Kv-value water [m³/h]	G	PN	Possible type of current	Sealing material	Type (Valve without solenoid coil)	Order number	Price
Valve without solenoid coil Permitted operating pressure 0,2 bar up to valve according to table below, double-sided blocking. Permitted control pressure at "10": ≥ Operating pressure, max. 16 bar	15	5,6	G 1/2	16	AC/DC	NBR	EGV-711-Z77-1/2BP-00	624501	o. r.
	15	5,6	G 1/2	16	AC/DC	EPDM	EGV-711-Z77-1/2PP-00	624503	o. r.
	15	5,6	G 1/2	16	AC/DC	FKM	EGV-711-Z77-1/2FP-00	624505	o. r.
	20	7,6	G 3/4	16	AC/DC	NBR	EGV-711-Z77-3/4BP-00	624511	o. r.
	20	7,6	G 3/4	16	AC/DC	EPDM	EGV-711-Z77-3/4PP-00	624513	o. r.
	20	7,6	G 3/4	16	AC/DC	FKM	EGV-711-Z77-3/4FP-00	624515	o. r.
	25	16,8	G 1	16	AC/DC	NBR	EGV-711-Z77-1BP-00	624521	o. r.
	25	16,8	G 1	16	AC/DC	EPDM	EGV-711-Z77-1PP-00	624523	o. r.
	25	16,8	G 1	16	AC/DC	FKM	EGV-711-Z77-1FP-00	624525	o. r.
	32	21	G 1 1/4	16	AC/DC	NBR	EGV-711-Z77-5/4BP-00	624531	o. r.
	32	21	G 1 1/4	16	AC/DC	EPDM	EGV-711-Z77-5/4PP-00	624533	o. r.
	32	21	G 1 1/4	16	AC/DC	FKM	EGV-711-Z77-5/4FP-00	624535	o. r.
	40	29,5	G 1 1/2	16	AC/DC	NBR	EGV-711-Z77-6/4BP-00	624541	o. r.
	40	29,5	G 1 1/2	16	AC/DC	EPDM	EGV-711-Z77-6/4PP-00	624543	o. r.
	40	29,5	G 1 1/2	16	AC/DC	FKM	EGV-711-Z77-6/4FP-00	624545	o. r.
	50	35	G 2	16	AC/DC	NBR	EGV-711-Z77-2BP-00	624551	o. r.
	50	35	G 2	16	AC/DC	EPDM	EGV-711-Z77-2PP-00	624553	o. r.
50	35	G 2	16	AC/DC	FKM	EGV-711-Z77-2FP-00	624555	o. r.	


Options

	Membrane made of other material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils		O-pressure membrane requires no differential pressure to open, however to close requires control pressure 1 bar above operating pressure Type EGV-711-Z77-/.0-..
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Permitted Operating Pressure OP

DN	type	PN	Combinable solenoid coil			Permitted excess operating pressure OP [bar] at ambient temperature +60 °C																	
			type	Nominal power P ₂₀			AC 50 Hz 90 %U _N Medium temperature			AC 60 Hz 90 %U _N Medium temperature			DC 90 %U _N Medium temperature			DC 90 %U _N Medium temperature			DC 100 %U _N Medium temperature				
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C		
15 to 50	EGV-711-Z..	16	E22...L.	3,5	on req.	2,5	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.	on req.		
			E22...M.	5,5	5	5	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
			E22...H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16	16	16
			E30...P.	12	10,5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16

Function

Price group	53	Function "Z" normally closed with existing auxiliary pressure at "10"	Low noise and impact-free closing, for gaseous or fluids	Stainless steel 1.4305
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Operating position	Description	Function
	<p>In 0-position - magnetic system not under current - its resting seat is closed. The auxiliary pressure accumulated at "10" thus builds up in the control chamber and holds the membrane in "closed" position.</p> <p>In operational position - magnetic system under current - its operational seat is closed. The control chamber is released by the open resting seat and the membrane held in "open" position by the flow medium. A minimum pressure difference is required for this (except 0-pressure membrane as listed under Options)</p>	

Illustration

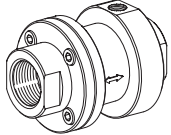
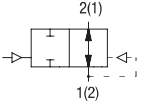
			<p>These valves can also be used for dirty media by the application, depending on constructional design, of an external medium, e.g. compressed air, for controlling the membrane. A typical application is the drainage of condensation from compressed air networks.</p>
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Dimensions

DN	G	L	I	N	L1	L2	H	S
15	G 1/2	68	13	14	72.5	102.5	60	27
20	G 3/4	80	15	20	72.5	102.5	60	32
25	G 1	94	17	41.5	88.5	132.5	88	41
32	G 1 1/4	112	19	50.5	88.5	132.5	88	50
40	G 1 1/2	132	21	48	102	159	114	55
50	G 2	160	24.5	62	102	159	114	70

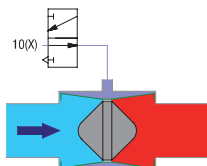
2/2-Way Solenoid Valve - Type PGV Series 700 Pressure Operated by External Medium - Double-Sided Blocking

Price group 53	Function "B" - open in 0-position without control pressure	low noise and impact-free closing, for neutral, gaseous and fluids	Stainless steel 1.4305
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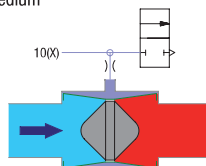
Version	Control(pres-sure [bar]	DN	Kv-value water [m³/h]	G	PN	Sealing material	Type (Valve without solenoid coil)	Order number	Price
2/2-way valve pressure operated, blocking double-sided by external medium Permitted operating pressure 0,2 to 16 bar  	≥ Excess operating pressure max. 16	15	5,6	G 1/2	16	NBR	PGV-731-B77-1/2BP	624801	o. r.
		15	5,6	G 1/2	16	EPDM	PGV-731-B77-1/2PP	624802	o. r.
		15	5,6	G 1/2	16	FKM	PGV-731-B77-1/2FP	624803	o. r.
		20	7,6	G 3/4	16	NBR	PGV-731-B77-3/4BP	624811	o. r.
		20	7,6	G 3/4	16	EPDM	PGV-731-B77-3/4PP	624812	o. r.
		20	7,6	G 3/4	16	FKM	PGV-731-B77-3/4FP	624813	o. r.
		25	16,8	G 1	16	NBR	PGV-731-B77-1BP	624821	o. r.
		25	16,8	G 1	16	EPDM	PGV-731-B77-1PP	624822	o. r.
		25	16,8	G 1	16	FKM	PGV-731-B77-1FP	624823	o. r.
		32	21	G 1 1/4	16	NBR	PGV-731-B77-5/4BP	624831	o. r.
		32	21	G 1 1/4	16	EPDM	PGV-731-B77-5/4PP	624832	o. r.
		32	21	G 1 1/4	16	FKM	PGV-731-B77-5/4FP	624833	o. r.
		40	29,5	G 1 1/2	16	NBR	PGV-731-B77-6/4BP	624841	o. r.
		40	29,5	G 1 1/2	16	EPDM	PGV-731-B77-6/4PP	624842	o. r.
		40	29,5	G 1 1/2	16	FKM	PGV-731-B77-6/4FP	624843	o. r.
		50	35	G 2	16	NBR	PGV-731-B77-2BP	624851	o. r.
		50	35	G 2	16	EPDM	PGV-731-B77-2PP	624852	o. r.
50	35	G 2	16	FKM	PGV-731-B77-2FP	624853	o. r.		

Version and function: 2/2-way solenoid valve type PGV series 700 pressure operated by external medium, double-sided blocking

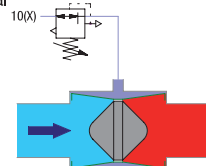
Remotely operated 2/2-way valve regulated by external medium with 3/2-way valve (positive control)



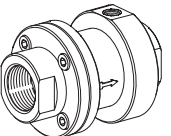
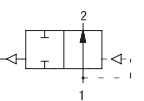
Remotely operated 2/2-way valve regulated by external medium with 2/2-way valve



Remotely operated excess pressure valve regulated by external medium with pressure regulator

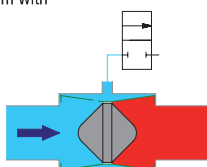

2/2-Way Solenoid Valve - Type PGV Series 700 Pressure Operated by own Medium

Price group 53	Function "B" - open in 0-position without control pressure	low noise and impact-free closing, for neutral, gaseous and fluids	Stainless steel 1.4305
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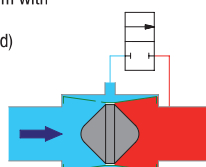
Version	Control(pres-sure [bar]	DN	Kv-value water [m³/h]	G	PN	Sealing material	Type (Valve without solenoid coil)	Order number	Price
2/2-way valve pressure operated by own medium Permitted operating pressure 0,2 to 16 bar  	≥ Excess operating pressure max. 16	15	5,6	G 1/2	16	NBR	PGV-731-B77-1/2BN	624901	o. r.
		15	5,6	G 1/2	16	EPDM	PGV-731-B77-1/2PN	624902	o. r.
		15	5,6	G 1/2	16	FKM	PGV-731-B77-1/2FN	624903	o. r.
		20	7,6	G 3/4	16	NBR	PGV-731-B77-3/4BN	624911	o. r.
		20	7,6	G 3/4	16	EPDM	PGV-731-B77-3/4PN	624912	o. r.
		20	7,6	G 3/4	16	FKM	PGV-731-B77-3/4FN	624913	o. r.
		25	16,8	G 1	16	NBR	PGV-731-B77-1BN	624921	o. r.
		25	16,8	G 1	16	EPDM	PGV-731-B77-1PN	624922	o. r.
		25	16,8	G 1	16	FKM	PGV-731-B77-1FN	624923	o. r.
		32	21	G 1 1/4	16	NBR	PGV-731-B77-5/4BN	624931	o. r.
		32	21	G 1 1/4	16	EPDM	PGV-731-B77-5/4PN	624932	o. r.
		32	21	G 1 1/4	16	FKM	PGV-731-B77-5/4FN	624933	o. r.
		40	29,5	G 1 1/2	16	NBR	PGV-731-B77-6/4BN	624941	o. r.
		40	29,5	G 1 1/2	16	EPDM	PGV-731-B77-6/4PN	624942	o. r.
		40	29,5	G 1 1/2	16	FKM	PGV-731-B77-6/4FN	624943	o. r.
		50	35	G 2	16	NBR	PGV-731-B77-2BN	624951	o. r.
		50	35	G 2	16	EPDM	PGV-731-B77-2PN	624952	o. r.
50	35	G 2	16	FKM	PGV-731-B77-2FN	624953	o. r.		

Version and function: 2/2-way solenoid valve type PGV series 700 pressure operated by own medium

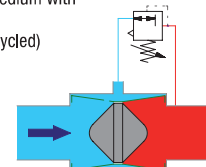
Remotely operated 2/2-way valve regulated by own medium with 2/2-way valve (negative control)



Remotely operated 2/2-way valve regulated by own medium with 2/2-way valve (control medium recycled)



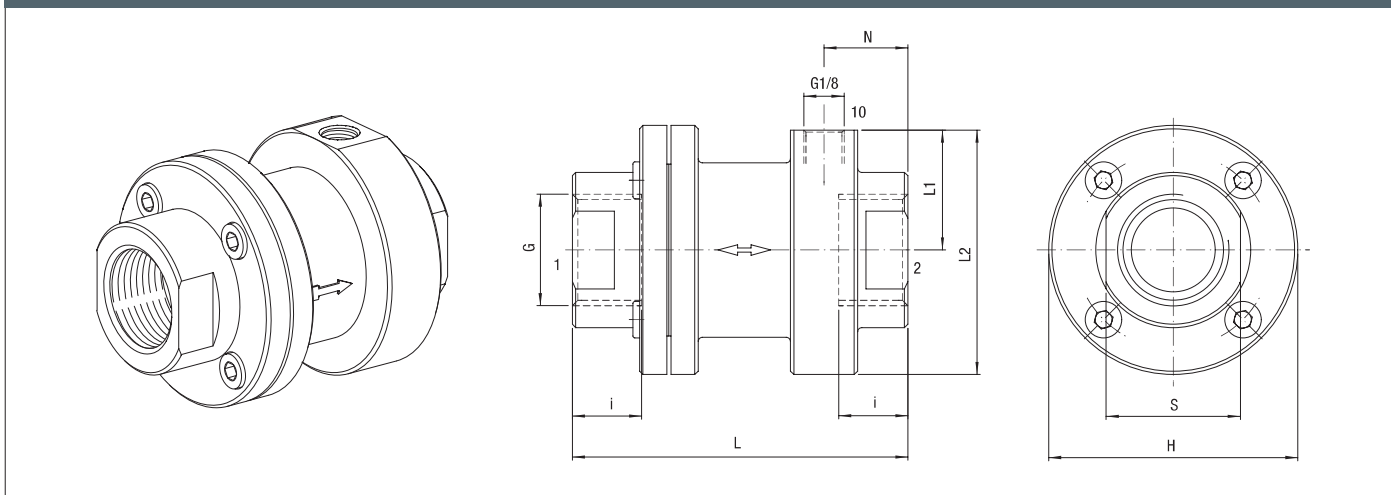
Remotely operated pressure regulator valve regulated by own medium with pressure regulator (control medium recycled)



Function - Illustrations Versions

Price group 53	Function "B" - open in 0-position without control pressure	low noise and impact-free closing, for neutral, gaseous and fluids	Stainless steel 1.4305
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Function	Options			
<p style="text-align: center;">10(X)</p>		Membrane made of other material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils		0-pressure membrane requires no differential pressure to open, however to close requires control pressure 1 bar above operating pressure Type EGV-731-B77-../.0-..
Shown: Type PGV in external medium version shown, control pressure present.				

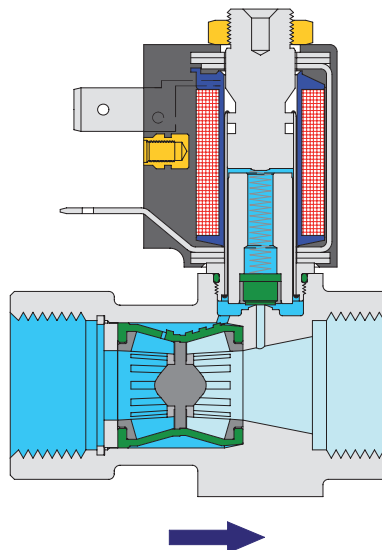
Illustration

Dimensions

DN	G	L	I	N	L1	L2	H	S
15	G 1/2	68	13	14	28,5	58,5	60	27
20	G 3/4	80	15	20	28,5	58,5	60	32
25	G 1	94	17	47	41,5	85,5	88	41
32	G 1 1/4	112	19	56	41,5	85,5	88	50
40	G 1 1/2	132	21	53,5	55	112	114	55
50	G 2	160	24,5	67,5	55	112	114	70



GAMMA Valves Series 800 Stainless Steel AISI 303 (1.4305)

Especially economical valve series DN 12 (G 1/2) with reduced flow for aggressive flow media



The minimal space requirement of this socket valve series is especially of advantage in small apparatus construction (representation in scale 1:1!)
Valve body manufactured as turned component made of bar material.

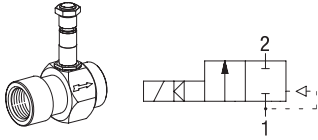
Dirt particles in the flow medium can lead to malfunction in the solenoid valves. The installation of a strainer with mesh width 0.25 mm is thus to be recommended.

CHARACTERISTICS
GENERAL

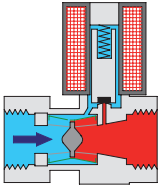
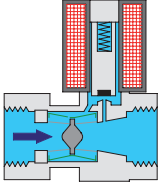
Constructional design	low noise membrane valve with coaxial flow		
Product name	2/2-way solenoid valve servo-operated	2/2-way solenoid valve pressure operated	2/2-way valve pressure operated by external or own medium
Product type	EGV	EGV	PGV
Function	"A" normally closed	"Z" normally closed	"B" normally open
Nominal diameter	DN 12	DN 12	DN 12
Port size	Pipe thread (ISO 228) G 1/2 (other connectors on request)		
Ambient temperature	-20 °C to +60 °C (others on request)		
Medium temperature	for NBR: -10 °C to +90 °C for FKM and EPDM: -10 °C to +130 °C (for exceptions see table)		
Medium viscosity	up to ca. 20 mm ² /s		
Valve body material	Stainless steel AISI 303 (1.4305) (others on request)		
Membrane support unit material	reinforced plastic		
Other internal component	stainless steel		
Seal material	NBR (nitrile rubber), EPDM (ethylene propylene) or FKM (fluoride rubber) (others on request)		
Mounting method	Installation in rigid pipe system		
Mounting position	optional, preferably upright		
PNEUMATIC - HYDRAULIC			
Nominal pressure (bar)	according to type table. The numerical value of the nominal pressure PN signifies the permitted excess operating pressure PB in bar at 60 °C ambient temperature and 60 °C medium temperature. Insofar as two values are given, the first value refers to solenoid coil with highest electrical power consumption, the second value to that with lowest power consumption.		
Pressure range	0.3 bar up to permitted operating pressure PB according to table. 0 to 16 bar version is also Possible for type EGV function "Z" and type PGV		
Flow rate	Kv-value according to type table (full flow with pressure difference of 0.5 bar or higher)		
Medium	gaseous or liquid media which do not corrode the materials specified		
Response time	Opening time: 20 ms to 1 s; closing time: 25 ms to 3 s, according to flow medium		
Electric	see under solenoid coils		

2/2-Way Solenoid Valve - Type EGV Series 800

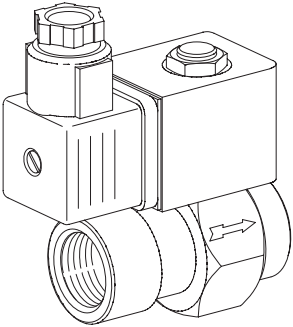
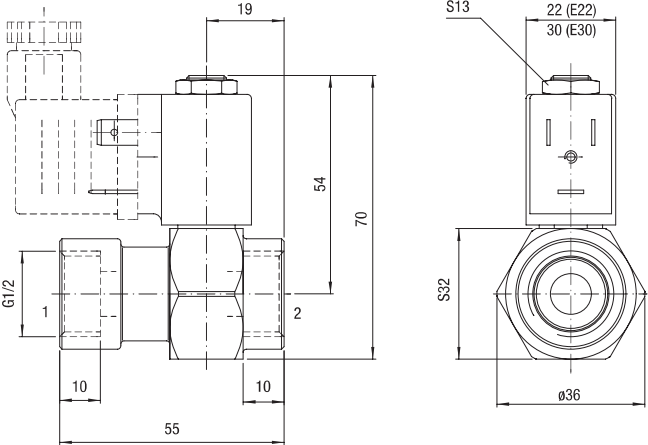
Price group 53	Function "A" normally closed	Low noise and impact-free closing, for neutral, gaseous or medium	Stainless steel 1.4305
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Version	DN	Kv-value water [m³/h]	G	PN	Possible type of current	Sealing material	Type (Valve without solenoid coil)	Order number	Price
 <p>Valve without solenoid coil Permitted operating pressure 0.3 bar up to valve according to table below.</p>	12	2.2	G 1/2	16/8	DC	NBR	EGV-813-A79-1/2BN-00	623052	o. r.
	12	2.2	G 1/2	16/8	DC	EPDM	EGV-813-A79-1/2PN-00	623054	o. r.
	12	2.2	G 1/2	16/8	DC	FKM	EGV-813-A79-1/2FN-00	623056	o. r.

Function

	<p>In 0-position - magnetic system not under current - its resting seat is closed. Pressure thus builds up in the control chamber, which due to the larger effective membrane surface holds the membrane in "closed" position.</p>
	<p>In operational position - magnetic system under current - its resting seat is open, the control chamber released and the membrane is held by the flow medium in "open" position. A minimum pressure difference is required for this.</p>

Illustration

		<p>Alternating current (AC) operation is possible with use of cable socket type ESG with integrated bridge rectifier.</p> <p>Cable socket adaptable with solenoid coil E22 by 2 x 180°, with E30 by 4 x 90° repositionable. Both solenoid coils 360° rotatable.</p>
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Permitted Excess Operating Pressure PB

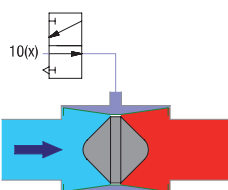
DN	type	PN	Combinable solenoid coil			Permitted excess operating pressure PB [bar] at ambient temperature +60 °C																
			type	Nominal power P ₂₀			AC 50 Hz 90 %U _N Medium temperature			AC 60 Hz 90 %U _N Medium temperature			DC 90 %U _N Medium temperature			DC 90 %U _N Medium temperature			DC 100 %U _N Medium temperature			
				AC 50 Hz [VA]	AC 60 Hz [VA]	DC [W]	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	
12	EGV-813-A..	16/8	E22...L.	-	-	2,5	-	-	-	-	-	-	-	-	-	-	8	6	4	9	8	7
			E22...M.	-	-	5	-	-	-	-	-	-	-	-	-	-	16	16	16	16	16	16
			E22...H.	-	-	8	-	-	-	-	-	-	-	-	-	-	16	16	16	16	16	16
			E30...P.	-	-	8	-	-	-	-	-	-	-	-	-	-	16	16	16	16	16	16

2/2-Way Valve - Type PGV Series 800 - Pressure Operated by External Medium

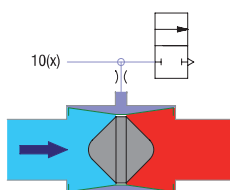
Price group 53	Function "B" open in 0-position (without control pressure)	low noise and impact-free closing, for neutral, gaseous and liquid media								Stainless steel 1.4305
Version	Control pressure [bar]	DN	Kv-value water [m³/h]	G	PN	Sealing material	Type (Valve without solenoid coil)	Order number	Price	
<p>2/2-way valve pressure operated, blocking double-sided by external medium Permitted operating pressure 0.3 to 16 bar</p>	\geq excess operating pressure max. 16	12	2.2	G 1/2	16	NBR	PGV-831-B77-1/2BP	624451	o. r.	
		12	2.2	G 1/2	16	EPDM	PGV-831-B77-1/2PP	624452	o. r.	
		12	2.2	G 1/2	16	FKM	PGV-831-B77-1/2FP	624453	o. r.	

Illustration

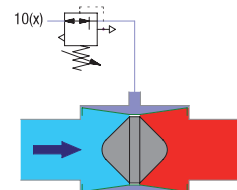
Remotely operated 2/2-way valve regulated by external medium with 3/2-way valve (positive control)



Remotely operated 2/2-way valve regulated by external medium with 2/2-way valve



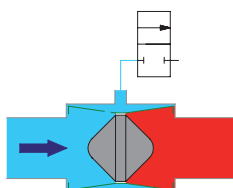
Remotely operated excess pressure valve regulated by external medium with pressure regulator


2/2-Way Valve - Type PGV Series 800 - Pressure Operated by own Medium

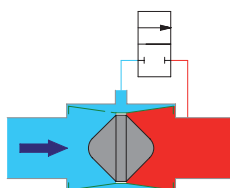
Price group 53	Function "B" open in 0-position (without control pressure)	low noise and impact-free closing, for neutral, gaseous and liquid media								Stainless steel 1.4305
Version	Control pressure [bar]	DN	Kv-value water [m³/h]	G	PN	Sealing material	Type (Valve without solenoid coil)	Order number	Price	
<p>2/2-way valve pressure operated, by own medium Permitted operating pressure 0.3 to 16 bar</p>	\geq excess operating pressure max. 16	12	2.2	G 1/2	16	NBR	PGV-831-B77-1/2BN	624471	o. r.	
		12	2.2	G 1/2	16	EPDM	PGV-831-B77-1/2PN	624472	o. r.	
		12	2.2	G 1/2	16	FKM	PGV-831-B77-1/2FN	624473	o. r.	

Illustration

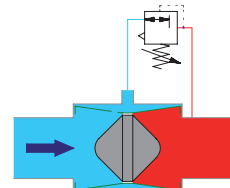
Remotely operated 2/2-way valve regulated by own medium with 2/2-way valve (negative control)



Remotely operated 2/2-way valve regulated by own medium with 2/2-way valve (control medium recycled)



Remotely operated pressure regulator valve regulated by own medium with pressure regulator (control medium recycled)


Illustration
