

GAMMA Valves Series 100

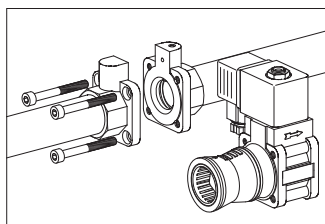


An especially universal and robust valve series from DN 15 to DN 50 (G1/2 to G2) for the most varied applications in mechanical and apparatus construction.

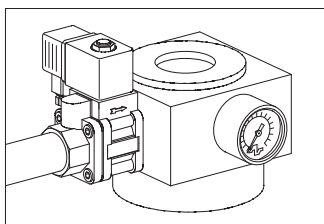
Dirt particles in the medium can lead to malfunction in the valves. It is therefore recommended to install a strainer, e.g. Type SMF-133..

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:

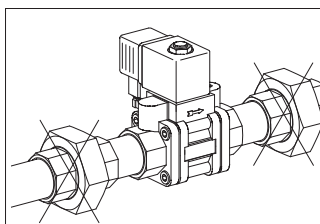
- saving of assembly time (pipework expenditure reduced by up to 85 %)
- saving of fittings
- enormous saving of construction space



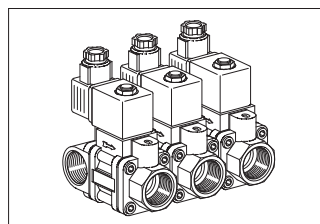
The main valve (intermediate flange valve) can be radially disassembled



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 mm²/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

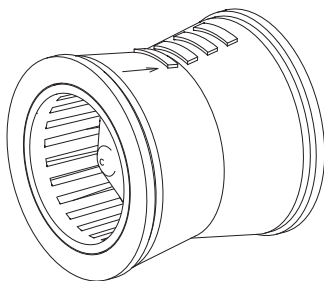
Nominal pressure (bar)	according to Type table. The numerical value of the nominal pressure PN signifies the permitted operating pressure OP in bar at 60 °C ambient temperature and 60 °C medium temperature. Insofar as two values are given, the first value refers to solenoid coil with highest electrical 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

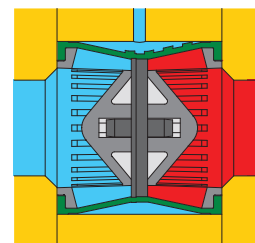
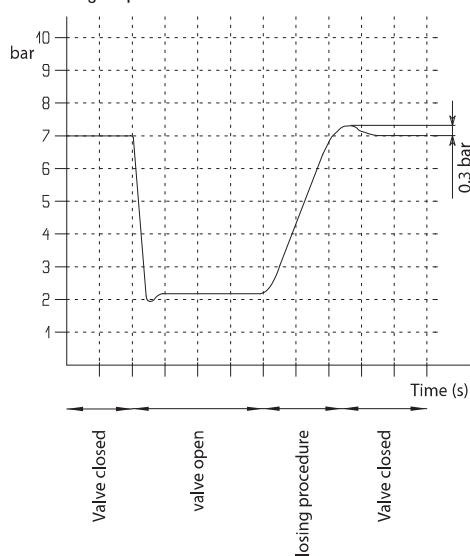
Low noise automatic with membraneclosing

GAMMA the perfect valve concept from AVS Römer

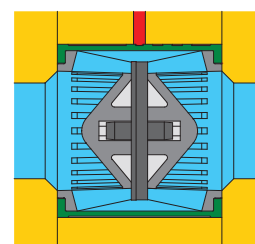
closure unit



Closing response



Closed



Open

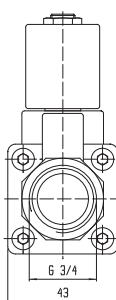
The patented, coaxial constructional design enables advantageous membrane support, in both positions. The optimal heat emission of the open membrane resting on the coil reduces its thermal load. Both sets of circumstances are responsible for the extraordinarily high durability and also with pulsating 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

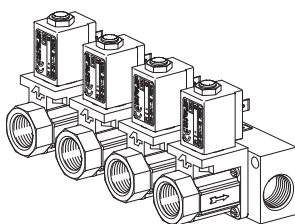
Description

Structural width



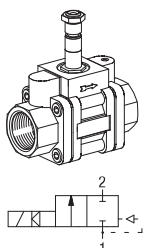
The low structural width permits small pipe spacing for single valves and high installation density for valve batteries.

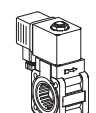
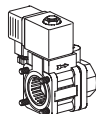
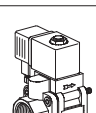
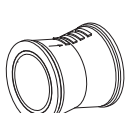
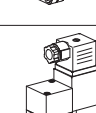
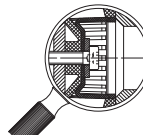
Valve batteries



DN 12 to DN 50 (G 1/2 to G 2) single valve to 1 normal 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
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 _N) 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 			AC 60 Hz 			DC 			DC 			DC 					
				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	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C	60 °C	90 °C	130 °C			
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			
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			

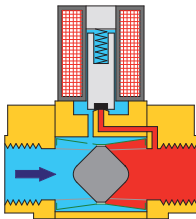
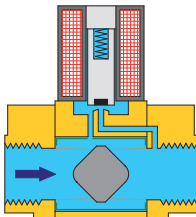
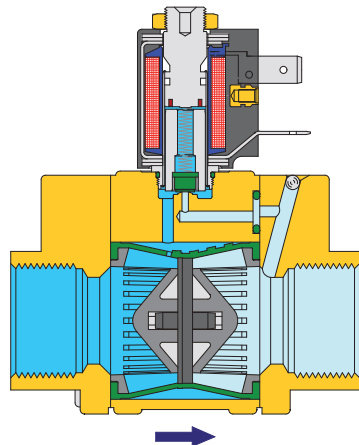
Function

Price group **53**

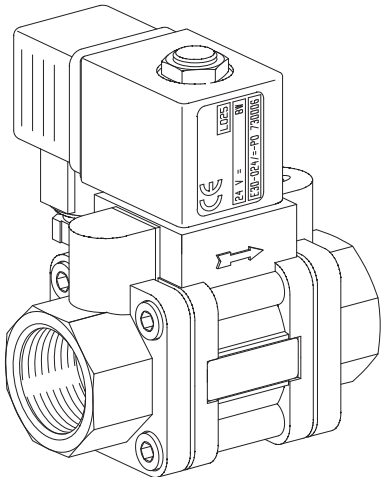
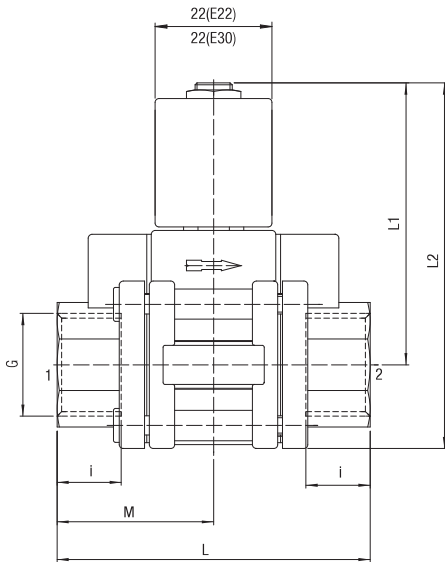
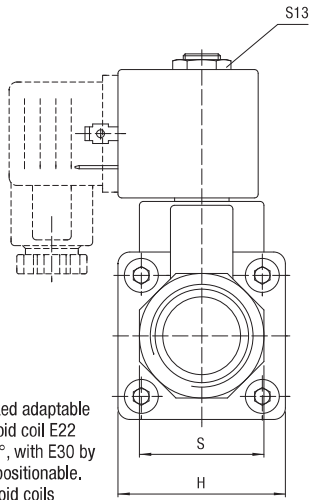
Function "A" normally closed

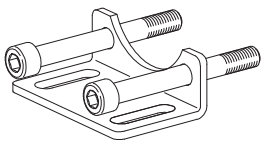
low noise and impact-free closing, for neutral, gaseous or fluids

Brass

Operating position	Description	Function
 	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. 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.	

Illustration

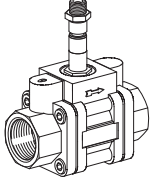
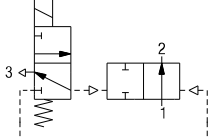
		 Cable socket adaptable with solenoid coil E22 by 2 x 180°, with E30 by 4 x 90° repositionable. Both solenoid coils 360° turnable.
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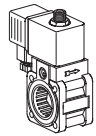
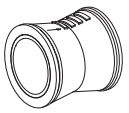
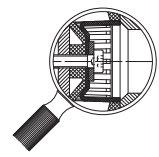
Dimensions									Mounting Accessories				
DN	G	L	I	M	L1	L2	H	S	Illustration	Suitable for valves	Type	Order number	Price
15	G 1/2	68.4	13.5	34.2	72	93.5	43	27		G 1/2 + G 3/4 DN 15 and DN 20	ZGV-10normal D2normal 52	616252	o. r.
20	G 3/4	80.4	15.5	40.2	72	93.5	43	32					
25	G 1	94	17	47	80	109.5	59	41					
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
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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	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
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.	
			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

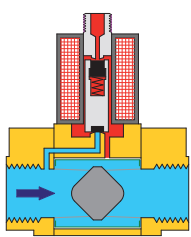
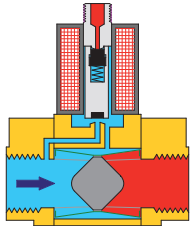
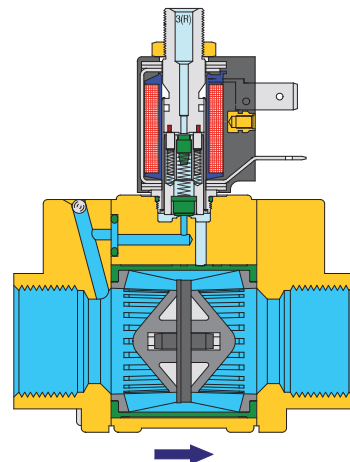
Function

Price group **53**

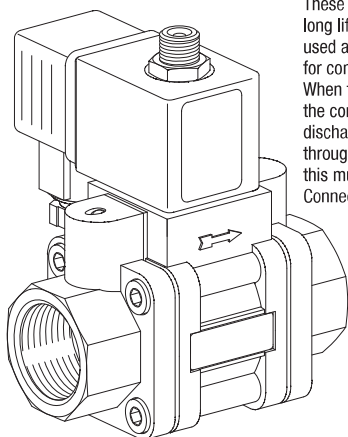
Function "B"
normally open

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

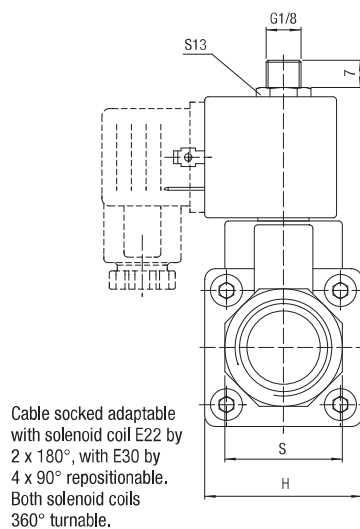
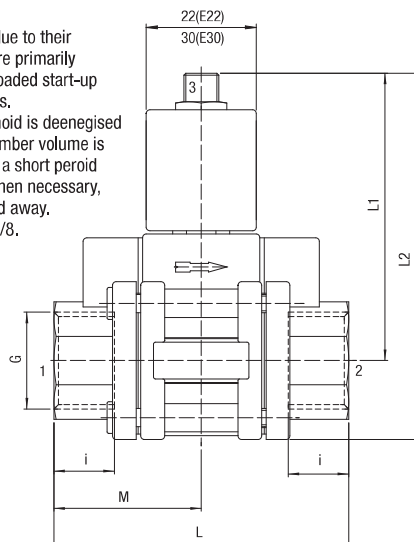
Brass

Operating position	Description	Function
 	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. 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.	

Illustration



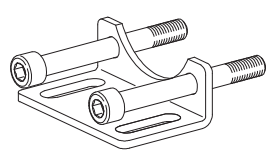
These valves, due to their long lifetime, are primarily used as an unloaded start-up for compressors. When the solenoid is deenergised the control chamber volume is discharged for a short period through "3". When necessary, this must be led away. Connection G 1/8.



Dimensions

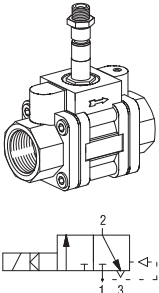
DN	G	L	I	M	L1	L2	H	S
15	G 1/2	68,4	13,5	34,2	78	99,5	43	27
20	G 3/4	80,4	15,5	40,2	78	99,5	43	32
25	G 1	94	19	47	86,5	116	59	41
32	G 1 1/4	112	19	56	86	115,5	59	50
40	G 1 1/2	132	21	66	99,5	143	87	55
50	G 2	160	26	80	99	142,5	87	70

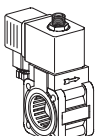
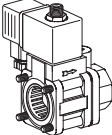
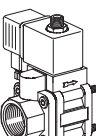
Mounting Accessories

Illustration	Suitable for valves	Type	Order number	Price
	G 1/2 + G 3/4 DN 15 and DN 20	ZGV-10normal D2normal 52	616252	o. r.
	G 1 + G 1 1/4 DN 25 and DN 32	ZGV-10normal D32-62	616262	o. r.

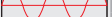
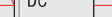
2/2-Way Solenoid Valve - Type EGV Series 100

Price group	53	"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 (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
 2/2-way intermediate flange Solenoid valve Flange-side 4 through bores: Type EGV-121-CHL-...	 Manual override Type EGV-122-... 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-121-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 Thread-side pressure inlet Type EGV-121-C7L-...	 increases resistance to corrosion, and replaces stainless steel valves cost-effectively for many flow media Type EGV-121Q-...

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]	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	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-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	
			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	
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.		
			E22...M.	5.5	5	5	10	10	10	10	10	10	10	10	10	10	10	10	10		
			E22...H.	-	-	8	-	-	-	-	-	-	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		

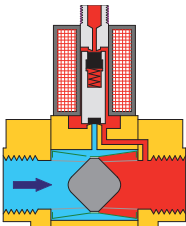
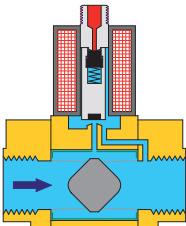
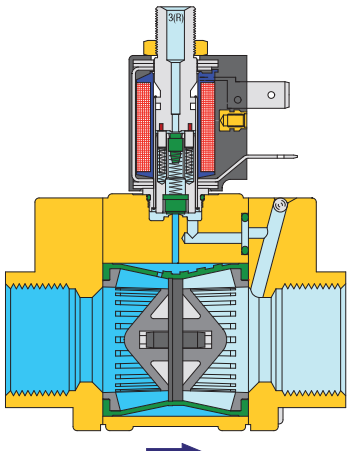
Function

Price group **53**

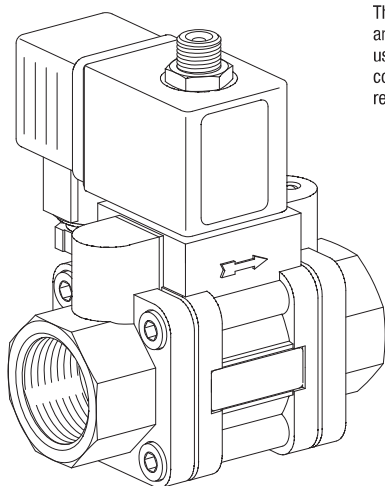
“C” in 0 position “1” closed, “2” after “3” discharged

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

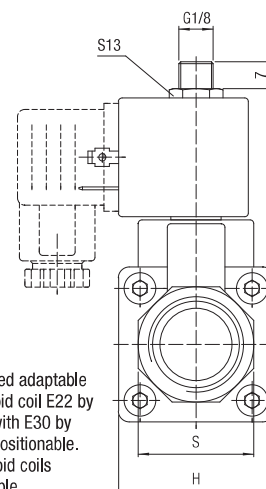
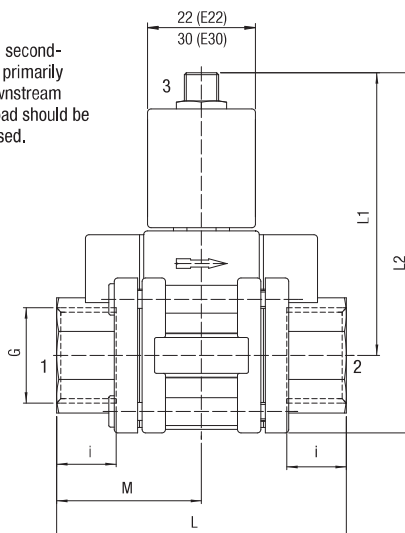
Brass

Operating position	Description	Function
 	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. 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.	

Illustration



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

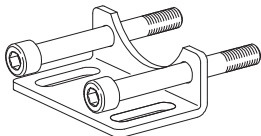


Cable socket adaptable with solenoid coil E22 by 2 x 180°, with E30 by 4 x 90° repositionable. Both solenoid coils 360° turnable.

Dimensions

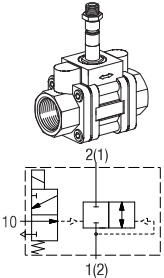
DN	G	L	I	M	L1	L2	H	S
15	G 1/2	68.4	13.5	34.2	78	100	43	27
20	G 3/4	80.4	15.5	40.2	78	99.5	43	32
25	G 1	94	17	47	86	115.5	59	41
32	G 1 1/4	112	19	56	86	115.5	59	50
40	G 1 1/2	132	21	66	99.5	143	87	55
50	G 2	160	24.5	80	99.5	143	87	70

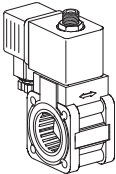
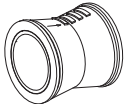
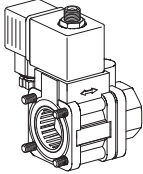
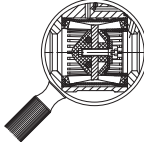
Mounting Accessories

Illustration	Suitable for valves	Type	Order number	Price
	G 1/2 + G 3/4 DN 15 and DN 20	ZGV-10normal D2normal 52	616252	o. r.
	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 "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.

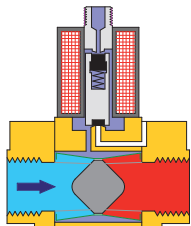
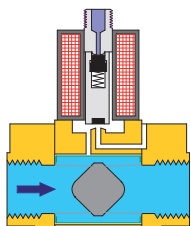
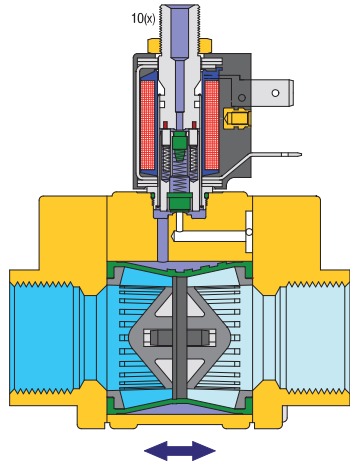
Variations	Options
 2/2-way intermediate flange Solenoid valve Flange-side 4 through bores: Type EGV-111-ZHL-...	 Manual override Type EGV-112-... This limits: permitted operating pressure: 12.5 bar permitted Medium temperature: max. 60 °C
	 Membrane made of other material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils
 2/2-way flange mount Solenoid valve Flange-side pressure inlet Type EGV-111-ZH7-...	 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

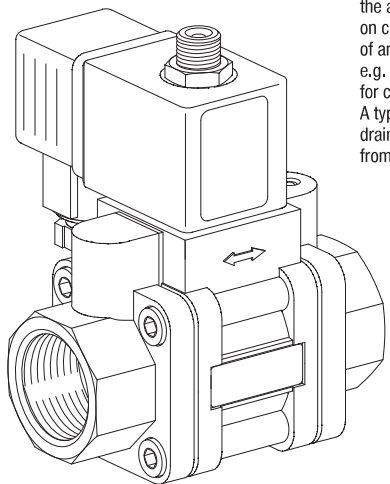
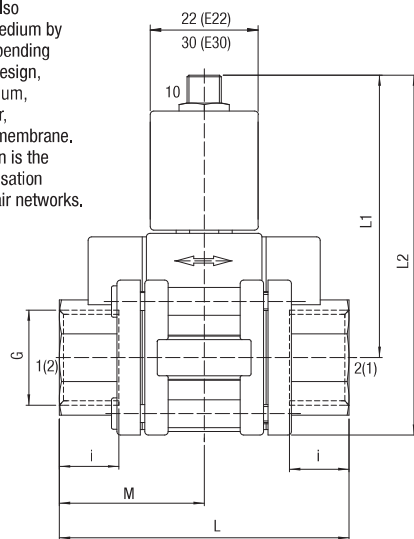
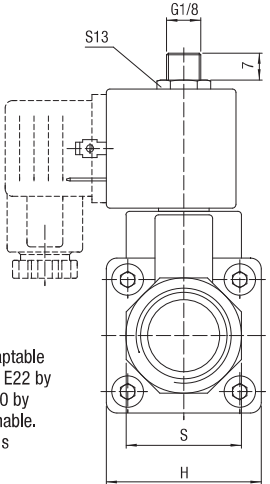
DN	Type	PN	Combinable solenoid coil				Permitted operating pressure OP [bar] at ambient temperature +60 °C														
			Type	Nominal power P ₂₀			AC 50 Hz  90 %U _N Medium temperature			AC 60 Hz  90 %U _N Medium temperature			DC  90 %U _N Medium temperature			DC  90 %U _N Medium temperature			DC  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
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.	
			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

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
 	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. 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).	

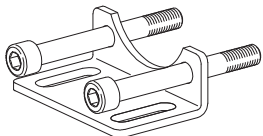
Illustration

	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.
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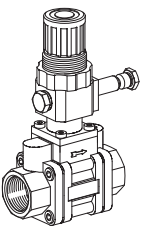
Dimensions

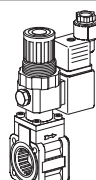
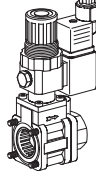
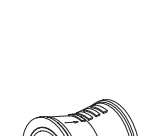
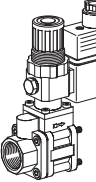
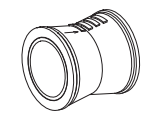
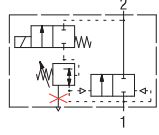
DN	G	L	I	M	L1	L2	H	S
15	G 1/2	68.4	13.5	34.2	78	99.5	43	27
20	G 3/4	80.4	15.5	40.2	78	99.5	43	32
25	G 1	94	17	47	86	115.5	59	41
32	G 1 1/4	112	19	56	86	115.5	59	50
40	G 1 1/2	132	21	66	99.5	143	87	55
50	G 2	160	24.5	80	99.5	143	87	70

Mounting Accessories

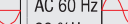
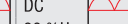
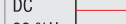
Illustration	Suitable for valves	Type	Order number	Price
	G 1/2 + G 3/4 DN 15 and DN 20	ZGV-10normal D2normal 52	616252	o. r.
	G 1 + G 1 1/4 DN 25 and DN 32	ZGV-10normal D32-62	616262	o. r.

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. $T_{min} -20\text{ °C}$, $T_{max} +60\text{ °C}$ Med.-Temp. $T_{min} -10\text{ °C}$, $T_{max} +90\text{ °C}$			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 value 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
 2/2-way flange mount solenoid valve with pressure regulator Flange-side pressure inlet Type EGR-151-.CH9-...	 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 Thread-side pressure inlet Type EGR-151-.C7L-...	 Membrane made of other material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils
	 without secondary discharge ventilation of the pilot pressure regulator, especially for fluids Type EGR-151-.A78-...

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]	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	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
			E30...P.	12	10.5	8	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
			E30...P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16

Function - Speciality

Price group

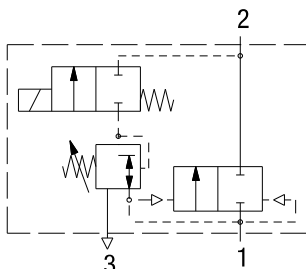
53

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

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

Brass

Operating position



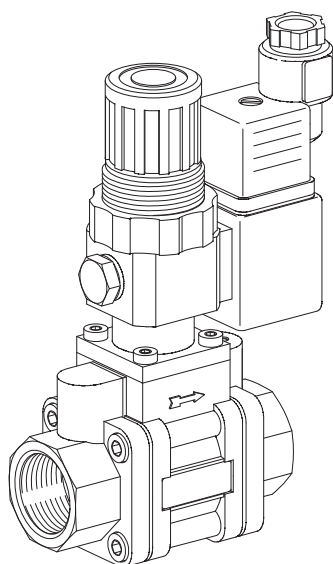
Description

With respect to electrical function the valve corresponds to a 2/2-way solenoid valve function "A".

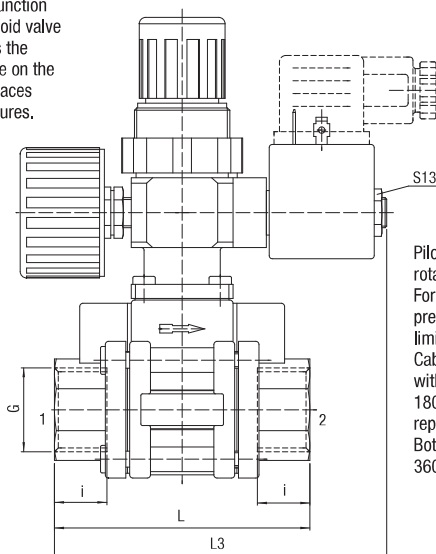
In operational position - magnetic system under power - the membrane is only held in "open" position by the medium until the outlet-port pressure reaches the value set on the pressure regulator. This can be set using the lockable adjuster.

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.

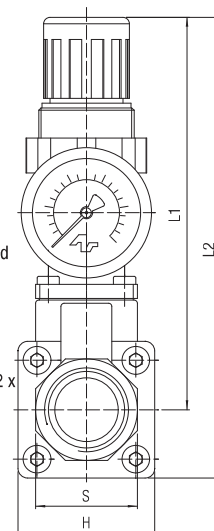
Illustration



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.



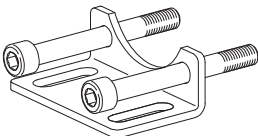
Pilot unit can be assembled rotated by 4x90°. For assembly as shown, pressure gauge is limited to NG 40. Cable socked adaptable with solenoid coil E22 by 2 x 180°, with E30 by 4 x 90° repositionable. Both solenoid coils 360° turnable.



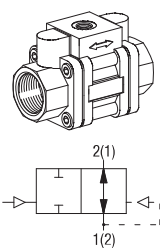
Dimensions

DN	G	L	I	L1	L2	L3	H	S
15	G 1/2	68,4	13,5	123,5	145	98,7	43	27
20	G 3/4	80	16,5	126	146,5	104	43	32
25	G 1	95	19	132	161,5	112	59	41
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

Accessories

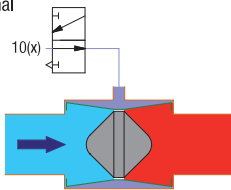
Illustration	Suitable for valves	Type	Order number	Price
	G 1/2 + G 3/4 DN 15 and DN 20	ZGV-10normal D2normal 52	616252	o. r.
	G 1 + G 1 1/4 DN 25 and DN 32	ZGV-10normal D32-62	616262	o. r.

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

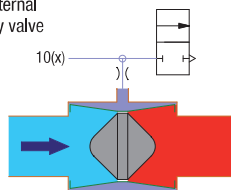
Price group 53	Function "B" normally open (without control pressure)	low noise and impact-free closing, for neutral, gaseous and fluids	Amb. temp. $T_{min} -20\text{ }^{\circ}\text{C}$, $T_{max} +60\text{ }^{\circ}\text{C}$ Med.-Temp. $T_{min} -10\text{ }^{\circ}\text{C}$, $T_{max} +90\text{ }^{\circ}\text{C}$		Brass				
Version	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

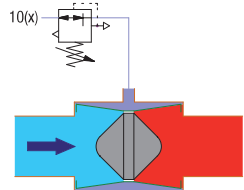
Remotely operated 2/2-way valve regulated by external medium with 3/2-way valve (positive control)



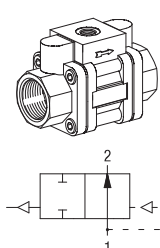
Remotely operated 2/2-way valve regulated by external medium with 2/2-way valve



Remotely operated pressure valve regulated by external medium with pressure regulator

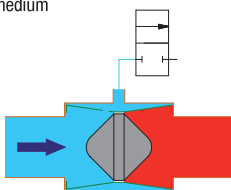


2/2-Way Solenoid Valve - Type PGV Series 100 Pressure Operated by own Medium

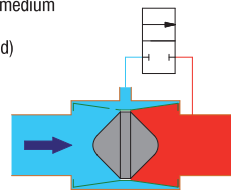
Price group 53	Function "B" normally open (without control pressure)	low noise and impact-free closing, for neutral, gaseous and fluids			Brass				
Version	Control pressure [bar]	DN	Kv-value water [m³/h]	G	PN	Sealing material	Type	Order number	Price
2/2-way valve pressure operated, by own medium Permitted 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

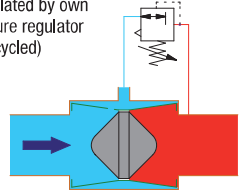
Remotely operated 2/2-way valve regulated by own medium with 2/2-way valve (negative control)



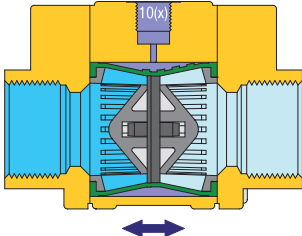
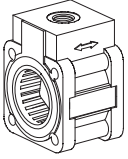
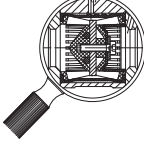
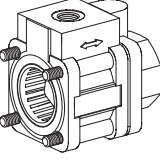
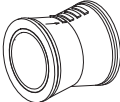
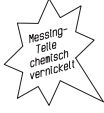
Remotely operated 2/2-way valve regulated by own medium with 2/2-way valve (control medium recycled)



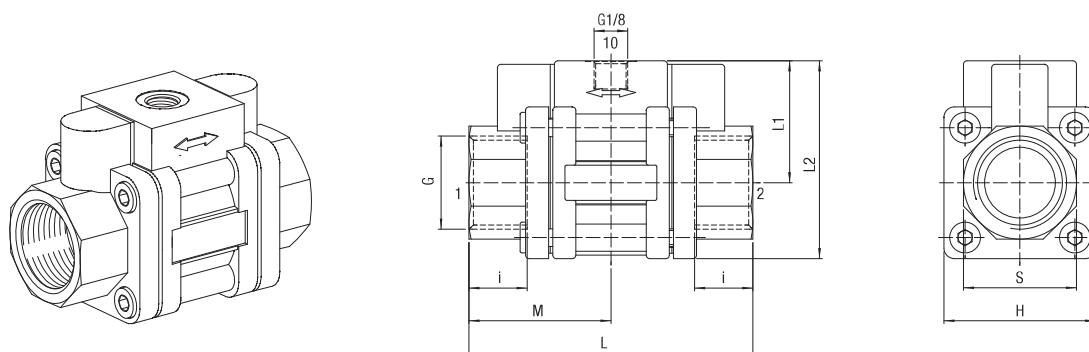
Remotely operated pressure regulator valve regulated by own medium with pressure regulator (control medium recycled)



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	
 Type PGV in external medium version shown, control pressure present.	 2/2-way intermediate flange valve (both versions) Flange-side 4 through bores: Type PGV-131-.BHH-...	 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	
	 2/2-way flange mount valve (only external medium vers.) Flange-side or thread-side pressure inlet Type PGV-131-.BH7-...	 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-131Q-...	

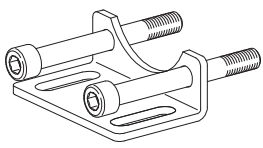
Illustration



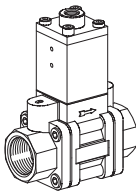
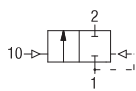
Dimensions

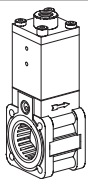
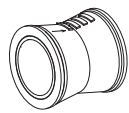
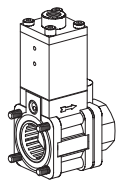
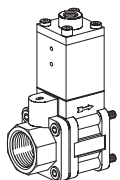
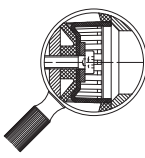
DN	G	L	I	M	L1	L2	H	S
15	G 1/2	68.4	13.5	34.2	34.5	56	43	27
20	G 3/4	80.4	15.5	40.2	34.5	56	43	32
25	G 1	94	17	47	42.5	72	59	41
32	G 1 1/4	112	19	56	42	71.5	59	50
40	G 1 1/2	132	21	66	56	99.5	87	55
50	G 2	160	24.5	80	56	99.5	87	70

Mounting Accessories

Illustration	Suitable for valves	Type	Order number	Price
	G 1/2 + G 3/4 DN 15 and DN 20	ZGV-10normal D2normal 52	616252	o. r.
	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	Control pressure [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		

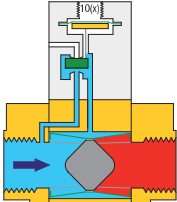
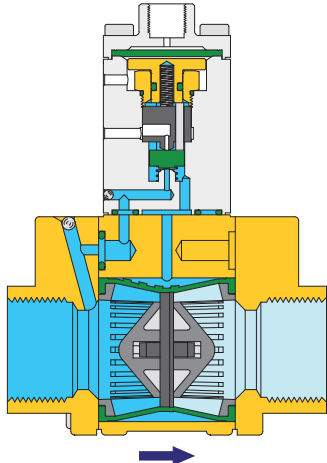
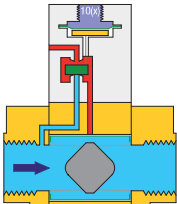
Function - Speciality

Price group **53**

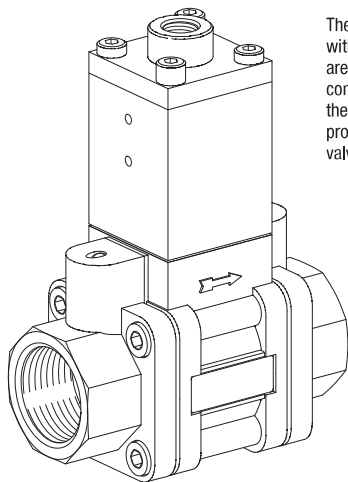
Function "A" normally closed

low noise functioning, for gaseous media, especially compressed air

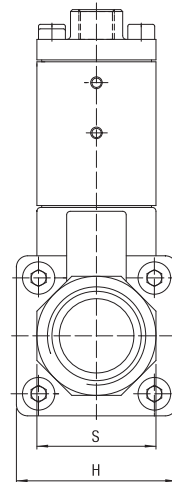
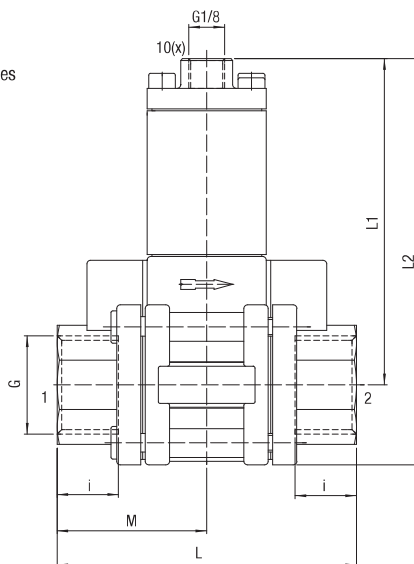
Brass

Operating position	Description	Function
	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.	
	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.	

Illustration



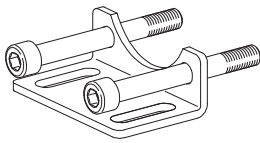
These servo-controlled valves with pneumatic operation are used in the control of compressed air, e.g. for the purposes of explosion protection, where solenoid valves are not desirable.



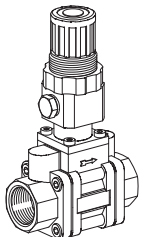
Dimensions

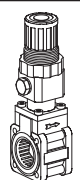
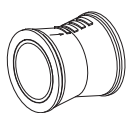
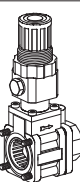
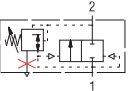
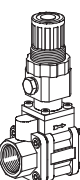
DN	G	L	I	M	L1	L2	H	S
15	G 1/2	68.4	13.5	34.2	86.1	107.6	43	27
20	G 3/4	80.5	15.5	40	86	107.5	43	32
25	G 1	94	17	47	94.1	123.6	59	41
32	G 1 1/4	112	19	56	94	123.5	59	50
40	G 1 1/2	132	21	66	107.6	151.1	87	55
50	G 2	160	24.5	80	107.6	151.1	87	70

Mounting Accessories

Illustration	Suitable for valves	Type	Order number	Price
	G 1/2 + G 3/4 DN 15 and DN 20	ZGV-10normal D2normal 52	616252	o. r.
	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

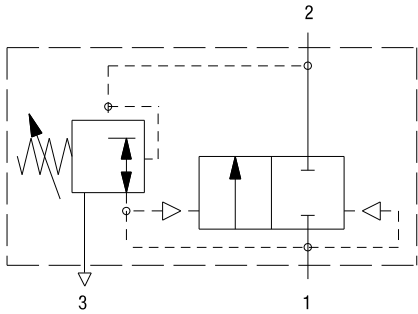
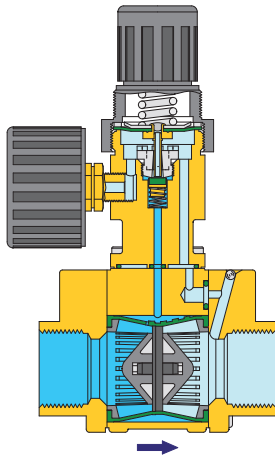
Price group 53	Low noise and impact-free control, for neutral, gaseous media (optional liquids)	Amb. temp. $T_{min} -20\text{ °C}$, $T_{max} +60\text{ °C}$ Med.-Temp. $T_{min} -10\text{ °C}$, $T_{max} +90\text{ °C}$		Brass					
Version	Secondary pressure [bar]	DN	Flow air [l/min]	G	PN	Sealing material	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-...	 without secondary side discharge of the pilot pressure regulator, especially for fluids Type RGV-151-.A78-...			
	Flange mount Pressure regulator valve Thread-side pressure inlet: Type RGV-151-.C7L-...				

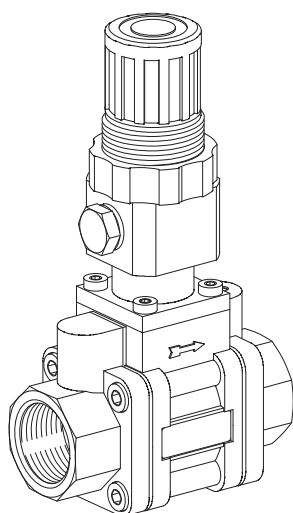
Function

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

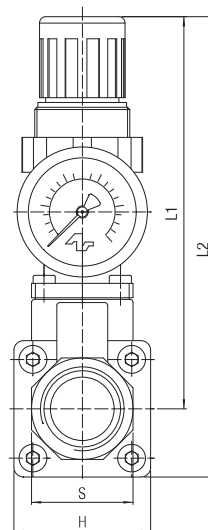
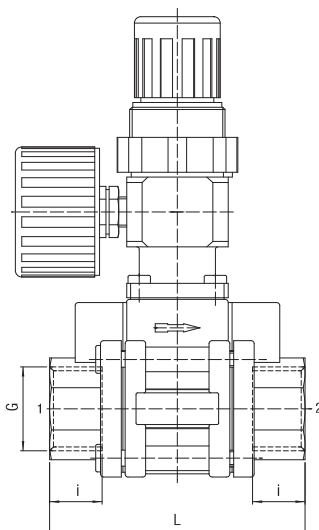
Brass

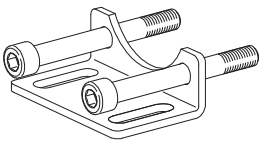
Operating position	Description
	

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.

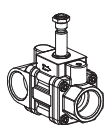
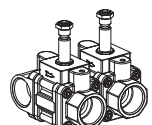
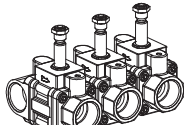
2/2-Way Solenoid Valve Battery - Type EGV Series 100

Price group **53**

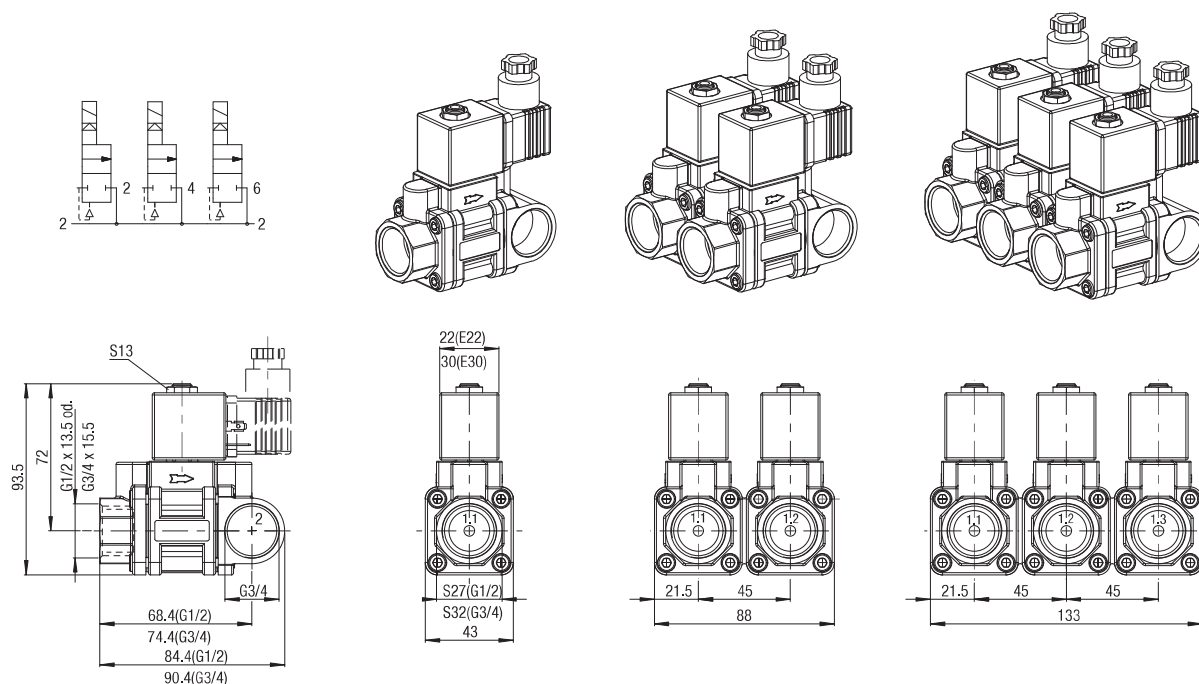
Function "A" normally closed, distributor version

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

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 value 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.
		20	7.6	G 3/4	16/8	AC/DC	FKM	EGV-111/V1-AH9-3/4FN-00	617011	o. r.
	Valve without solenoid coil, 2-fold battery or 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/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.
		20	7.6	G 3/4	16/8	AC/DC	FKM	EGV-111/V2-AH9-3/4FN-00	617012	o. r.
	Valve without solenoid coil, 3-fold battery or 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/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]	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	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.	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

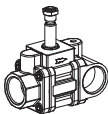
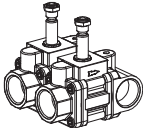
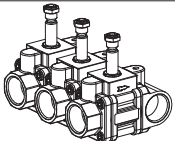
2/2-Way Solenoid Valve Battery - Type EGV Series 100

Price group **53**

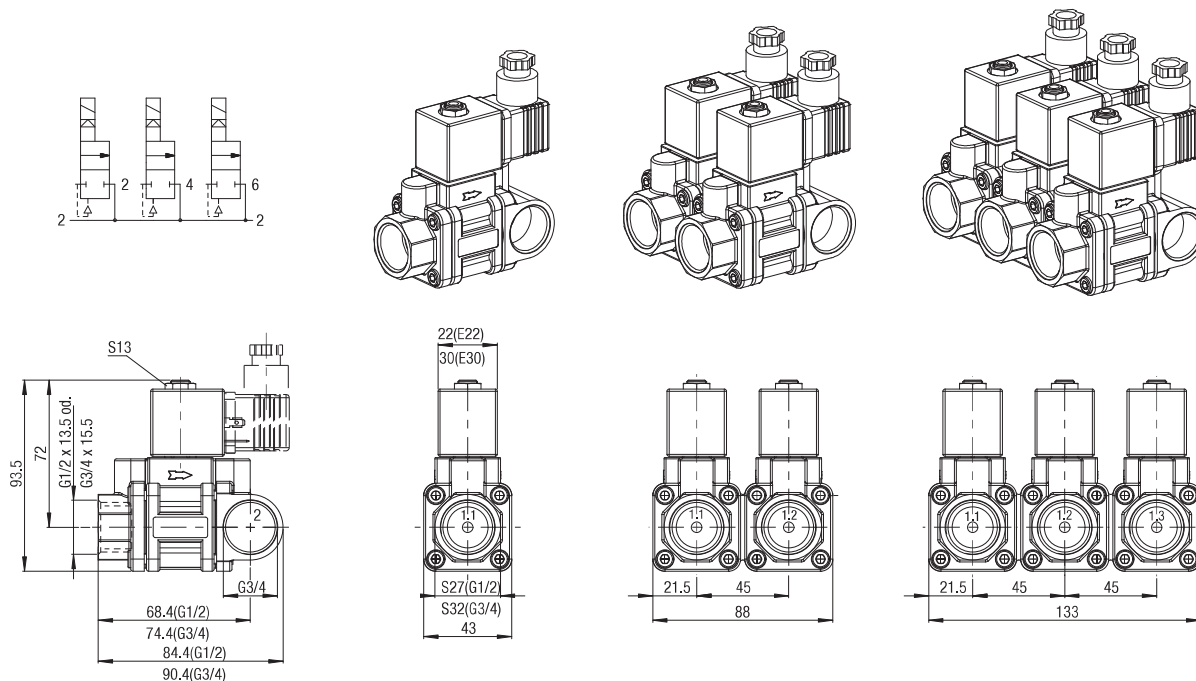
Function "A" normally closed, mixer version

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

Brass

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/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.
	Valve without solenoid coil, 2-fold battery or 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/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.
	Valve without solenoid coil, 3-fold battery or 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/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.

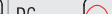
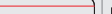
Valve batteries series 100 can also be constructed combined, with all valve Types, for all listed functions and with various options according to customer requirements.

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]	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	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. E22...M. E22...H. E30...P.	3.5 5.5 - 12	on req. 5 - 10.5	2.5 5 8 8	on req. 16 - 16	on req. 16 - 16	on req. 16 - 16	on req. 16 - 16	on req. 16 - 16	6 16 16 16	5 16 16 16	4 14 16 16	4 12 16 16	3 10 16 16	2 8 16 16	6 15 16 16	5 13 16 16	4 12 16 16	