

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 valv	e 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	C for FKM and EPDM: -10 $^\circ$	C to +130 °C (for exception	s 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), EPDN	NBR (nitrile rubber), EPDM (ethylene propylene) or FKM (fluoride rubber) (others on request)													
Mounting method	Installation in rigid pipe s	ystem or using mounting b	racket (see accessories)												
Mounting position	optional, preferably uprig	ht													
PNEUMATIC - HYDRAULIC															
Nominal pressure (bar)	at 60 °C ambient temper	ature and 60 °C medium te	e nominal pressure PN sig emperature. Insofar as two v nd value to that with lowest	alues are given, the first v											
Pressure range		perating pressure OP accor Possible for Type EGV fund													
Flow rate	Kv-value according to Typ	be table (full flow with press	sure 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 mediur	m and DN											
Electric	see solenoid coils														



AVS GAMMA valves

AVS Römer

Low noise automatic with membraneclosing

GAMMA the perfect valve concept from AVS Römer







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.



Price group	53	Function "A" normally closed	low noise and im gaseous or fluids	ipact-free closing,	, for neutral,						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
			15	5.6	G 1/2	16/8	AC/DC	NBR	EGV-111-A78-1/2BN-00	613501	0. r.
			15	5.6	G 1/2	16/8	AC/DC	EPDM	EGV-111-A78-1/2PN-00	613503	o. r.
	Valve wi	thout solenoid coil	15	5.6	G 1/2	16/8	AC/DC	FKM	EGV-111-A78-1/2FN-00	613505	o. r.
		rating pressure 0.2 bar	20	7.6	G 3/4	16/8	AC/DC	NBR	EGV-111-A78-3/4BN-00	613521	0. r.
up to	to value according to table below.		20	7.6	G 3/4	16/8	AC/DC	EPDM	EGV-111-A78-3/4PN-00	613523	0. r.
			20	7.6	G 3/4	16/8	AC/DC	FKM	EGV-111-A78-3/4FN-00	613525	0. 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	0. r.
	ć		25	16.8	G 1	16/8	AC/DC	FKM	EGV-111-A78-1FN-00	613555	o. r.
	E.	AT TA	32	21	G 1 1/4	16/8	AC/DC	NBR	EGV-111-A78-5/4BN-00	613571	o. r.
	Ø		32	21	G 1 1/4	16/8	AC/DC	EPDM	EGV-111-A78-5/4PN-00	613573	o. r.
	Ų		32	21	G 1 1/4	16/8	AC/DC	FKM	EGV-111-A78-5/4FN-00	613575	o. r.
		2	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	0. r.
			40	29.5	G 1 1/2	16/8	AC/DC	FKM	EGV-111-A78-6/4FN-00	613605	0. 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	0. r.
			50	35	G 2	16/8	AC/DC	FKM	EGV-111-A78-2FN-00	613625	0. 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	Brass comparents periority micro plants micro plants	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 Flange-side pressure inlet Type EGV-111-AH9		temperature: max. 60 °C Membrane made of other material: CR (chloroprene) optimal for compressed air		Non-return valve integrated outlet-side in the gate unit Type EGV-111-A78/.T This only blocks up to the
2/2-way flange mount Solenoid valve Thread-side pressure inlet Type EGV-111-A7L-		HNBR (NBR with higher nitrile content) specially for certain synthetic oils		following pressure difference: DN 15 to DN 32: 10 bar DN 40 to DN 50: 8 bar
2/2-way solenoid valve Rapid function version with 3/2-way servo-control especially for compressed air Type EGV-161-A96BP-00	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 INenn) must be installed before the solenoid valve!		

			Cor	nbinable	solenoid	coil				Per	mitted op	erating p	ressure ()P [bar] a	t ambien	t tempera	ature +60) °C			
				Nom	inal powe	er P ₂₀	AC 50 H			AC 60 H			DC	\bigcap	\square	DC			DC		
DN	Туре	PN	Туре	AC 50 Hz	AC 60 Hz	DC	90 %U _N Mediu	m tempe	rature	90 %U _N Mediu	im tempe	rature	90 %U _N Medium	tempera	iture	90 %U _N Mediu	m tempe	rature	100 %U Mediu	m tempe	rature
			[VA]	[VA]	[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	
			E22L.	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
15 to		16/8	E22M.	5.5	5	5	16	16	16	16	16	16	16	16	14	12	10	8	15	13	12
32		10/0	E22H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
	EGV-111-A		E30P.	12	10,5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	EUV-III-A		E22L.	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
40	nd	16/8	E22M.	5.5	5	5	16	16	16	16	16	16	12	10	8	8	7	6	12	10	9
and 50		10/0	E22H.	-	-	8	-	-	-	-	-	-	16	16	16	12	10	9	16	14	10
			E30P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16



_		Inction "A	." norma				ict-free d	closing, for neutral,					Brass
roup		osed Operat	ing posit		aseous o	r fluids		Description			Function		
							res ch su In se me	normal position - magnetic system without pov sting seat is closed. Pressure thus builds up in the amber, which due to the larger effective me rface holds the membrane in "closed" position. operational position - magnetic system under pov at is open, the control chamber discharged a embrane is held by the flow medium in the sition. A minimum pressure difference is required eration.	e control embrane wer - its and the "open"				
Illusti	ration							22(E22) 22(E30)				<u>S</u>	13
			$\langle \cdot \rangle$				5		<u> </u>	with solend by 2 x 180°	², with E30 by ositionable. Did coils		
Dime	nsion	s						Mounting Accessories					
DN G	L	I	М	L1	L2	Н	S	Illustration	Suitable 1	for valves	Туре	Order number	Price
5 G 1/2 0 G 3/4 5 G 1	_	13.5 15.5 17	34.2 40.2 47	72 72 80	93.5 93.5 109.5	43 43 59	27 32 41		G 1/2 - DN 15 ar	⊢ G 3/4 nd DN 20	ZGV-10normal D2normal 52	616252	0. r.
2 G 11/		19 21	56 66	80 93.5	109.5 137	59 87	50 55		G 1 + 0 DN 25 ar	G 1 1/4	ZGV-10normal D32-62	616262	



Price group	53	Function "B" normally open		oise and impact ous or fluids	free closing, for n	eutral,						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
	Malia	146		15	5.6	G 1/2	16	AC/DC	NBR	EGV-111-B96-1/2BP-00	613701	0. r.
	valve w	ithout solenoid coil		15	5.6	G 1/2	16	AC/DC	EPDM	EGV-111-B96-1/2PP-00	613703	0. r.
Peri	mitted ope	erating pressure 0.2 b	ar	15	5.6	G 1/2	16	AC/DC	FKM	EGV-111-B96-1/2FP-00	613705	o. r.
upi	to value a	ccording to table below	N.	20	7,6	G 3/4	16	AC/DC	NBR	EGV-111-B96-3/4BP-00	613721	0. 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	0. r.
	đ			25	16.8	G 1	16	AC/DC	NBR	EGV-111-B96-1BP-00	613751	o. r.
	R.	TEM		25	16.8	G 1	16	AC/DC	EPDM	EGV-111-B96-1PP-00	613753	0. 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	0. 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.
	3			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	0. r.	
			50	35	G 2	16	AC/DC	NBR	EGV-111-B96-2BP-00	613821	o. r.	
	<u>'</u>	'		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	Hesting Total Charliso vertickel	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	Medium temperature: max. 60 °C Membrane made of other		Non-return valve integrated in
2/2-way flange mount Solenoid valve Thread-side pressure inlet Type EGV-111-B9H	material: CR (chloroprene) optimal for compressed air HNBR (NBR with higher nitrile content) specially for certain synthetic oils		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

		-																			
			Cor	nbinable	solenoid	coil				Perr	nitted op	perating p	oressure	OP [bar] a	at ambier	nt temper	ature +6	O°C			
				Norr	ninal powe	er P ₂₀	AC 50 H		\frown	AC 60 H			DC	\frown	\sim	DC			DC		
DN	Туре	PN	Туре	AC 50 Hz	AC 60 Hz	DC	90 %U _N Mediu	m tempe	erature	90 %U _N Mediu	ım tempe	rature	90 %U _N Medium	tempera	ature	90 %U _N Mediu	m tempe	rature	100 %U Mediu	IN tempe	rature
				[VA]	[VA]	[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
			E22L.	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.
	5 to 50 EGV-111-B	16	E22M.	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.
00		10	E22H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E30P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16



Price group															
	53		tion "B" ally ope			se and ir s or fluid		e closin	g, for neutral,				Brass		
			Operatin	g positio	on				Description		Function	_			
								res by A op In sea up	normal position - magnetic system without powe ting seat is closed and its operational seat open. the control chamber is discharged over "3" au mbrane held in the "open" position by the flow me minimum pressure difference is required for eration. poperational position - magnetic system under powe at is open and its operational seat closed. Pressure in the control chamber, which due to the larger exampliance surface holds the membrane in "c sition.	There- nd the edium. or this er - its builds effec-					
Illus	<complex-block></complex-block>														
Dim	nensi	ions							Mounting Accessories						
DN	G	L	I	Μ	L1	L2	н	S	Illustration	Suitable for valves	Туре	Order number	Price		
20	G 1/2 G 3/4	68.4 80.4	13.5 15.5	34.2 40.2	78 78	99.5 99.5	43 43	27 32		G 1/2 + G 3/4 DN 15 and DN 20	ZGV-10normal D2normal 52	616252	0. r.		
32 40	G 1 G 11/4 G 11/2 G 2		19 19 21 26	47 56 66 80	86,5 86 99.5 99	116 115.5 143 142.5	59 59 87 87	41 50 55 70		G 1 + G 1 1/4 DN 25 and DN 32	ZGV-10normal D32-62	616262	0. ľ.		



te 53 "C" after	in 0 position "1" clos r "3"discharged	sed, "2"	low noise and impa gaseous or fluids	act-free closing, f	or neutral,					Brass
Versi	ion	DN	Kv-value water [m³/h]	G	PN	Possible Type of power	Sealing material	Type (Partial solenoid valve without solenoid coil)	Order number	Pric
		15	5.6	G 1/2	12.5	AC/DC	NBR	EGV-121-C78-1/2BN-00	618801	0.1
Valve discharge	e seat ND 1,8	15	5.6	G 1/2	12.5	AC/DC	EPDM	EGV-121-C78-1/2PN-00	618803	0.
without sole		15	5.6	G 1/2	12,5	AC/DC	FKM	EGV-121-C78-1/2FN-00	618805	0.
	ressure 0.2 bar up to	20	7.6	G 3/4	12,5	AC/DC	NBR	EGV-121-C78-3/4BN-00	618821	0.
value according	to table below.	20	7.6	G 3/4	12,5	AC/DC	EPDM	EGV-121-C78-3/4PN-00	618823	0.
		20	7.6	G 3/4	12.5	AC/DC	FKM	EGV-121-C78-3/4FN-00	618825	0.
		25	16.8	G 1	12.5	AC/DC	NBR	EGV-121-C78-1BN-00	618851	0.
		25	16.8	G 1	12.5	AC/DC	EPDM	EGV-121-C78-1PN-00	618853	0.
		25	16.8	G 1	12,5	AC/DC	FKM	EGV-121-C78-1FN-00	618855	0.
	En l	32	21	G 1 1/4	10	AC/DC	NBR	EGV-121-C78-5/4BN-00	618871	0.
		32	21	G 1 1/4	10	AC/DC	EPDM	EGV-121-C78-5/4PN-00	618873	0.
		32	21	G 1 1/4	10	AC/DC	FKM	EGV-121-C78-5/4FN-00	618875	0.
		40	29.5	G 1 1/2	10	AC/DC	NBR	EGV-121-C78-6/4BN-00	618901	0.
	2	40	29,5	G 1 1/2	10	AC/DC	EPDM	EGV-121-C78-6/4PN-00	618903	0.
	\top	40	29.5	G 1 1/2	10	AC/DC	FKM	EGV-121-C78-6/4FN-00	618905	0.
		50	35	G 2	10	AC/DC	NBR	EGV-121-C78-2BN-00	618921	0.
	1 3	50	35	G 2	10	AC/DC	EPDM	EGV-121-C78-2PN-00	618923	0.
		50	35	G 2	10	AC/DC	FKM	EGV-121-C78-2FN-00	618925	0.
ariations	2/2-мон	intermediate f		tions		Manus	I override			
	Solenoid Flange-si 4 through	valve de				Type E This lin permit	GV-122 nits: ted operating pi	ressure: 12.5 bar nperature: max. 60 °C		
	Solenoid Flange-si pressure	de				CR (ch optima HNBR	rane made of of loroprene) Il for compresse (NBR with highe Ily for certain sy	ed air er nitrile content)		
	Solenoid Thread-si pressure	ide		Hegsfirt Teleie creatis verritu	-h	and re	ses resistance t places stainless GV-121Q	o corrosion, steel valves cost-effectively fi	or many flow	r media

-																					
			Cor	nbinable	solenoid	coil				Peri	nitted op	perating p	oressure	OP [bar] a	at ambier	it tempera	ature +6	0 °C			
				Nom	inal powe	er P ₂₀	AC 50 H			AC 60 F			DC	\bigcap	\sim	DC			DC		
DN	Туре	PN	Туре	AC 50 Hz	AC 60 Hz	DC	90 %U _N Mediu	m tempe	rature	90 %U _N Mediu	ım tempe	rature	90 %U _N Medium	tempera	iture	90 %U _N Mediu	m tempe	erature	100 %U Mediu	m tempe	erature
		E22		[VA]	[VA]	[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
			E22L.	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.
15		12.5	E22M.	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
to 32	EGV-121-6	12.5	E22H.	-	-	8	-	-	-	-	-	-	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
			E30P.	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
			E22L.	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.
40	d EGV-121-C	10	E22M.	5.5	5	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
and 50		10	E22H.	-	-	8	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10
			E30P.	12	10.5	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10



	size and impact for a locies for a what												
	loise and impact-free closing, for neutral, bus or fluids	Brass											
Operating position	Description	Function											
Image: 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 membranes in "closed" position. Image: Normal position - magnetic system without 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. Image: Normal position - magnetic system under power - its seat is copen, the control chamber discharged and the membrane is held by the medium in "open" position. A minimum pressure difference is required for this operation. Image: Normal position - magnetic system under power - its seat is copen, the control chamber discharged and the membrane is held by the medium in "open" position. A minimum pressure difference is required for this operation. Image: Normal position - magnetic system under power - its seat is copen, the control chamber discharged and the membrane is held by the medium in "open" position. A minimum pressure difference is required for this operation. Image: Normal position - magnetic system under power - its seat is copen, the control chamber discharged and the membrane is required for this operation. Image: Normal position - magnetic system under power - its seat is copen, the control chamber discharged and the membrane is required for this operation. Image: Normal position - magnetic system under power - its seat is copen, the control chamber discharged and the membrane is required for this operation. Image: Normal position - magnetic system under power - its seat is copen, the control chamber discharged and the membrane is required for this operation.													
These values and ary discharged when compress	ves with second- rge are primarily e a downstream ed air load should be eenergised.												
		Cable socked adaptable with solenoid coil E22 by 2 x 180°, with E30 by 4 x 90° repositionable. Both solenoid coils 360° turnable.											
	L												
Dimensions	Mounting Accessories												
DN G L I M L1 L2 H	S Illustration Suita	ole for valves Type Order Price											
20 G 3/4 80.4 15.5 40.2 78 99.5 43	27 32 41	/2 + G 3/4 ZGV-10normal D2normal 616252 o. r.											
	50 55 70	G1+G11/4 DN 25 and DN 32 ZGV-10normal D32-62 616262 o.r.											



	" normally close X, at least 1 ba		low noise and imp gaseous or fluids	oact-free closing,	for neutral,					Brass
Version		DN	Kv-value water [m³/h]	G	PN	Possible type of power	Sealing material	Туре	Order number	Pric
Valve without solenoi	d coil	15	5.6	G 1/2	16	AC/DC	NBR	EGV-111-Z76-1/2BP-00	613901	0.
Permitted operating proces	iro 0 2 hor	15	5.6	G 1/2	16	AC/DC	EPDM	EGV-111-Z76-1/2PP-00	613903	0.
Permitted operating press up to value according to ta		15	5.6	G 1/2	16	AC/DC	FKM	EGV-111-Z76-1/2FP-00	613905	0.
double-sided isolat	ng.	20	7.6	G 3/4	16	AC/DC	NBR	EGV-111-Z76-3/4BP-00	613911	0.
Permitted control pressur	e at "10":	20	7.6	G 3/4	16	AC/DC	EPDM	EGV-111-Z76-3/4PP-00	613913	0.
\geq Operating pressure, ma	ıx. 16 bar	20	7.6	G 3/4	16	AC/DC	FKM	EGV-111-Z76-3/4FP-00	613915	0.
		25	16.8	G 1	16	AC/DC	NBR	EGV-111-Z76-1BP-00	613921	0.
		25	16.8	G 1	16	AC/DC	EPDM	EGV-111-Z76-1PP-00	613923	0.
		25	16.8	G 1	16	AC/DC	FKM	EGV-111-Z76-1FP-00	613925	0,
		32	21	G 1 1/4	16	AC/DC	NBR	EGV-111-Z76-5/4BP-00	613931	0.
)	32	21	G 1 1/4	16	AC/DC	EPDM	EGV-111-Z76-5/4PP-00	613933	0
		32	21	G 1 1/4	16	AC/DC	FKM	EGV-111-Z76-5/4FP-00	613935	0.
2(1) 2(1)		40	29.5	G 1 1/2	16	AC/DC	NBR	EGV-111-Z76-6/4BP-00	613941	0
9		40	29.5	G 1 1/2	16	AC/DC	EPDM	EGV-111-Z76-6/4PP-00	613943	0
	5.1	40	29.5	G 1 1/2	16	AC/DC	FKM	EGV-111-Z76-6/4FP-00	613945	0.
	4	50	35	G 2	16	AC/DC	NBR	EGV-111-Z76-2BP-00	613961 613963	0.
1(2)	_	50	35	G 2	16	AC/DC	EPDM	EGV-111-Z76-2PP-00		0. r.
		50	35	G 2	16	AC/DC	FKM	EGV-111-Z76-2FP-00	613965	0
ariations			Ор	tions						
	Solenoid Flange-s 4 throug	ide	ange		Type This perm press 12.5 perm Medi		<	Messing Teile chemisch vernickelt cost-	ases resistand ision and repla less steel valv effectively for EGV-111Q	ices es
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(mate CR (d optin HNB	brane made of other rial: chloroprene) nal for compressed a R (NBR with higher e content)		requ press to cle	al pressure m ires no differer sure to open, h ose it requires sure 1 bar abo	ntial Iowever control



DN

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-..

Permitted Operating Pressure OP Combinable solenoid coil Permitted operating pressure OP [bar] at ambient temperature +60 °C Nominal power $\mathrm{P}_{_{\rm 20}}$ AC 50 Hz AC 60 Hz DC DC DC 90 %U_N Туре PN 100 %U, 90 %U_N 90 %U_N 90 %U_N AC AC DC Туре Medium temperature Medium temperature Medium temperature Medium temperature Medium temperature 50 Hz 60 Hz [VA] [VA] [W] 60 °C 90 °C 130 °C 60 °C 90 °C 130 °C 60 °C 90 °C 130 °C 90 °C 130 °C 90 °C 130 °C 130 °C 60 °C 90 °C 130 °C on req. E22...L. 3.5 2.5 on req. E22...M. 5.5 16 on req. on req. on req. 5 5 16 16 16 16 16 16 16 on req. on req. on req. on req. 15 to 50 EGV-111-Z.. 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



Function Price Function "Z" normally closed, auxilary Iow	noise and impact-free closing, for neutral,											
	eous or fluids	Function										
Image: Sector												
These valves be used for the applicat on construct of an extern e.g. compre- for controlli A typical ap drainage of	dirty medium by ion, depending tional design, hal medium, sseed air, plication is the condensation ressed air networks.	(1) 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 S	Suitable for valves Type Order Pric										
15 G 1/2 68.4 13.5 34.2 78 99.5 43 20 G 3/4 80.4 15.5 40.2 78 99.5 43 12 25 G 1 94 17 47 86 115.5 59 1	27 32 41	G 1/2 + G 3/4 DN 15 and DN 20 52 0. 1										
25 G1 94 17 47 86 115.5 59 41 32 G1 1/4 112 19 56 86 115.5 59 50 40 G1 1/2 132 21 66 99.5 143 87 55 50 G2 160 24.5 80 99.5 143 87 70												



	C" closed in nor dary discharge			e and impact-free clo media (liquid optiona		tral,	Amb. temp. T _{mir} MedTemp. T _m					Brass
Version		Secondary pressure [bar]	DN	Flow air [l/min]	G	PN	Possible type of power	Sealing material	Туре		Order number	Price
		0.5 - 10	15	260 to 2,600	G 1/2	16/8	AC/DC	NBR	EGR-151-1C78-1/2	2BN-00	654201	0.1
		0.5 - 3	15	260 to 2,600	G 1/2	16/8	AC/DC	NBR	EGR-151-3C78-1/2	2BN-00	654202	0.
Valve without solen	nid coil	0.5 - 6	15	260 to 2,600	G 1/2	16/8	AC/DC	NBR	EGR-151-6C78-1/2	2BN-00	654203	0, r,
without pressure g		0.5 - 10	20	360 to 3,600	G 3/4	16 / 8	AC/DC	NBR	EGR-151-1C78-3/4	BN-00	654301	0.
Permitted operating pres	sure 0.5 bar	0.5 - 3	20	360 to 3,600	G 3/4	16 / 8	AC/DC	NBR	EGR-151-3C78-3/4BN-0		654302	0.
up to value according to		0.5 - 6	20	360 to 3,600	G 3/4	16 / 8	AC/DC	NBR	EGR-151-6C78-3/4	BN-00	654303	0.
		0.5 - 10	25	800 to 8,000	G 1	16 / 8	AC/DC	NBR	EGR-151-1C78-1B	N-00	654401	0.
0		0.5 - 3	25	800 to 8,000	G 1	16 / 8	AC/DC	NBR	EGR-151-3C78-1B	N-00	654402	0.
		0.5 - 6	25	800 to 8,000	G 1	16 / 8	AC/DC	NBR	EGR-151-6C78-1B	N-00	654403	0.
	A	0.5 - 10	32	1,000 to 10,000	G 1 1/4	16 / 8	AC/DC	NBR	EGR-151-1C78-5/4	BN-00	654501	0.
		0.5 - 3	32	1,000 to 10,000	G 1 1/4	16 / 8	AC/DC	NBR	EGR-151-3C78-5/4	BN-00	654502	0.
y y		0.5 - 6	32	1,000 to 10,000	G 1 1/4	16 / 8	AC/DC	NBR	EGR-151-6C78-5/4	BN-00	654503	0.1
	7	0.5 - 10	40	1,400 to 14,000	G 1 1/2	16 / 8	AC/DC	NBR	EGR-151-1C78-6/4	BN-00	654601	0.
2 atel	H	0.5 - 3	40	1,400 to 14,000	G 1 1/2	16 / 8	AC/DC	NBR	EGR-151-3C78-6/4	BN-00	654602	0.
	7	0.5 - 6	40	1,400 to 14,000	G 1 1/2	16/8	AC/DC	NBR	EGR-151-6C78-6/4	BN-00	654603	0.
		0,5 - 10	50	1.650 to 16.500	G 2	16/8	AC/DC	NBR	EGR-151-1C78-2B	N-00	654701	0.
		0.5 - 3	50	1,650 to 16,500	G 2	16/8	AC/DC	NBR	EGR-151-3C78-2BN-00		654702	0.1
		0.5 - 6	50	1,650 to 16,500	G 2	16 / 8	AC/DC	NBR	EGR-151-6C78-2B	N-00	654703	0.
/ariations				Options								
	solenoi regulat Flange	y intermediate d valve with pre or -side 4 through GR-151CHL	ssure			pressure: 12.5 bar permitted	152		Brass components chemically nickel-plated	increases resistan corrosion, and rep stainless steel val cost-effectively for many medium Type EGR-1510		aces ves
valve Flang press		ty flange mount vith pressure reg -side re inlet GR-151CH9	gulator			Membrane	C					
valve Threa press	valve v Thread pressu		gulator				aterial: prene) r compressed air R with higher tent) or certain pils			without secondary d ventilation of the pild pressure regulator, especially for fluids Type EGR-151A78-		lot

			Cor	nbinable	solenoid	coil			Permitte	d operating	oressure OP [bar] at ambier	nt temperature	e +60 °C		
				Nom	inal powe	er P ₂₀	AC 50 Hz		AC 60 Hz		DC 🗲	$\sim\sim$	DC		DC	
DN	Туре	PN	Туре	AC 50 Hz	AC 60 Hz	DC	90 %U _N Medium te	mperature	90 %U _N Medium te	mperature	90 %U _N Medium ter	nperature	90 %U _N Medium te	mperature	100 %U _N Medium te	emperature
				[VA]	[VA]	[W]	60 °C	90 °C	60 °C	90 °C	60 °C	90 °C	60 °C	90 °C	60 °C	90 °C
			E22L.	3.5	on req.	2.5	8	on req.	7	on req.	6	5	4	3	6	5
15 to	EGR-151-C	16/8	E22M.	5.5	5	5	16	16	16	16	16	16	12	10	15	13
32	Lun-131-0	10/0	E22H.	-	-	8	-	-	-	-	16	16	16	16	16	16
			E30P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16
			E22L.	3.5	on req.	2.5	8	on req.	7	on req.	5	4	3	2	5	4
40 and	EGR-151-C	16/9	E22M.	5.5	5	5	16	16	16	16	12	10	8	7	12	10
50	Lun-131-0	16/8	E22H.	-	-	8	-	-	-	-	16	16	12	10	16	14
			E30P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16











ice 5	3	nction "B" thout cont	normall	y open			e and imp and fluid	act-free closing, for neutral,					Brass		
Jup C		ng positio		surc)		riati			Options						
		10(x)									normal pressure membr requires no differential p however control pressur 1 bar above operating p Type PGV-131-B76/0	pressure to op re to close, it ressure	en,		
					(bot	h versio Ige-side	าร)	flange valve PGV-131BHH			Membrane made of other material: CR (chloroprene) optimal for compre air HNBR (NBR with higher nitrile cor specially for certain synthetic oils				
ype PGV in c	n external control pre	medium v ssure pre:	version s sent.	shown,	(onl Flar thre	y externa ige-side ad-side	nge moun al medium or pressure B1BH7	n vers.) inlet		Heselfor Telle Creation Creation	increases resistance to o replaces stainless steel for many medium Type PGV-131Q				
lustra	ation								<u>G1/8</u>						
)imen	nsions	\$						Mounting Acce	ssories						
	nsions L		М	L1	L2	Н	s	Mounting Acce		Suitable for valves	Туре	Order number	Pric		
		I 13.5	M 34.2 40.2 47	L1 34.5 34.5 42.5	L2 56 56 72	H 43 43 59	S 27 32 41			Suitable for valves G 1/2 + G 3/4 DN 15 and DN 20	Type ZGV-10normal D2normal 52		Pric		

 50
 G 2
 160
 24.5
 80
 56
 99.5
 87
 70



	Function "A" normally closed	low noise function especially compre		ous media,								Brass
V	/ersion	Controlpres- sure [bar]	DN	QNn-value air [I/min]		G	PN	Sealing material	Type (Partial solenoid without solenoid		Order number	Pri
pressure-oper	way valve rated by maintained	4 - 7	15	6100	G 1	1/2	16	NBR	PGV-151-A96-1/2	2BP	614371	0.
Permitted o	pressed air perating pressure to 16 bar	4 - 7	20	8300	G 3	3/4	16	NBR	PGV-151-A96-3/4	1BP	614372	0.
		4 - 7	25	18400	G 1		16	NBR	PGV-151-A96-1B	Ρ	614373	0,
		4 - 7	32	23400	G 1	1/4	16	NBR	PGV-151-A96-5/4	1BP	614374	0.
		4 - 7	40	32400	G 1	1/2	16	NBR	PGV-151-A96-6/4	1BP	614375	0
	4 - 7	50	38400	G 2	2	16	NBR	PGV-151-A96-2B	Р	614376	0	
ariations			(Options								
	inte Flar	way rmediate flange valve ige-side rough bores: 9 PGV-151-ALH				materia CR (ch optima air HNI nitrile o	loroprene) I for compressed 3R (NBR with high content) Ily for certain		brass comments chemically incider plate for m		es resistance sion, olaces ss steel valve fectively ny medium GV-151Q	
	Flange pressi	way flange mount valv ige-side ssure inlet e PGV-151-AL7	e				turn valve integra					
	Thr pre:	way flange mount valv aad-sided ssure inlet 9 PGV-151-A9H	e			unit Type P Pressu DN 15	side of the closure GV-151-A96/.T re difference: to DN 32, 10 bar to DN 50, 8 bar	-				



Function - Speciality														
Price 53 Function "A" normally low noise functionin especially compress	g, for gaseous media, ed 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.													
These serve- with pneumati are used in the compressed a the purposes, valves are not	e control of ir, e.g. for of explosion ere solenoid													
Dimensions	Mounting Accessories													
DN G L I M L1 L2 H	S Illustration Su	uitable for valves Type Order number	Price											
15 G 1/2 68.4 13.5 34.2 86.1 107.6 43 20 G 3/4 80.5 15.5 40 86 107.5 43 25 G 1 94 17 47 94.1 123.6 59	27 32 41	G 1/2 + G 3/4 ZGV-10normal D2normal 616252 N 15 and DN 20 52 616252	0. r.											
32 G 1 1/4 112 19 56 94 123.5 59 40 G 1 1/2 132 21 66 107.6 151.1 87 50 G 2 160 24.5 80 107.6 151.1 87 1	21 66 107.6 151.1 87 55 G1 + G1 1/4 DN 25 and DN 32 ZGV-10normal D32-62 616262													



Pre	ssure	Regulato	or Valve	e - Type R(GV Se	ries 100 with S	Seconda	ary Dischar	ge				
ice oup	53	Low noise and gaseous media		control, for neutral, uids)		Amb. temp. T _{min} -20 °C, T MedTemp. T _{min} -10 °C,							Brass
		Version		Secondary pressure [bar]	DN	Flow air [l/min]	G	PN	Sealing material	Туре		der nber	Price
				0.5 - 10	15	260 to 2.600	G 1/2	16	NBR	RGV-151-1C78-1/2	2BN 65	3201	0. r.
				0.5 - 3	15	260 to 2.600	G 1/2	16	NBR	RGV-151-3C78-1/2	2BN 653	3202	0. r
	Pressu	ire regulator valve	е	0.5 - 6	15	260 to 2,600	G 1/2	16	NBR	RGV-151-6C78-1/2	2BN 653	3203	0.1
	withou	it pressure gauge)	0.5 - 10	20	360 to 3.600	G 3/4	16	NBR	RGV-151-1C78-3/4	4BN 653	3301	0.
	Permitte	d operating press	ure	0.5 - 3	20	360 to 3.600	G 3/4	16	NBR	RGV-151-3C78-3/4	4BN 653		0. r.
	() 5 to 16 bar		0.5 - 6	20	360 to 3.600	G 3/4	16	NBR	RGV-151-6C78-3/4	BN 653303	3303	0.
				0.5 - 10	25	800 to 8.000	G 1	16	NBR	RGV-151-1C78-1B	N 65	3401	0.
				0.5 - 3	25	800 to 8.000	G 1	16	NBR	RGV-151-3C78-1B	N 65	3402	0.
				0.5 - 6	25	800 to 8,000	G 1	16	NBR	RGV-151-6C78-1B	N 65	3403	0.
				0,5 - 10	32	1.000 to 10.000	G 1 1/4	16	NBR	RGV-151-1C78-5/4	4BN 653	3501	0.
				0.5 - 3	32	1.000 to 10.000	G 1 1/4	16	NBR	RGV-151-3C78-5/4		3502	0.
				0.5 - 6	32	1.000 to 10.000	G 1 1/4	16	NBR	RGV-151-6C78-5/4		3503	0.
				0.5 - 10	40	1.400 to 14.000	G 1 1/2	16	NBR	RGV-151-1C78-6/4		3601	0.
				0,5 - 3	40	1,400 to 14,000	G 1 1/2	16	NBR	RGV-151-3C78-6/4		3602	0.
		0.5 - 6	40	1.400 to 14.000	G 1 1/2	16	NBR	RGV-151-6C78-6/4		3603	0.		
	0.5 - 10			1,650 to 16,500	G 2	16	NBR	RGV-151-1C78-2B		3701	0.		
				0.5 - 10 50 0.5 - 3 50		1.650 to 16.500	G 2	16	NBR	RGV-151-3C78-2B		3702	0.
				0.5 - 6	50	1,650 to 16,500	G 2	16	NBR	RGV-151-6C78-2B		3703	0.
/ar	iatior	IS				Options					·		
			regulator Flange-si 4 through	de	3		material CR (chlc optimal HNBR (N nitrile co specially	oroprene) for compressed air VBR with higher ontent) y for certain	<	grass components componenty chemically mickel plated	increases res to corrosion, and replaces valves cost-e for many meo Type RGV-15 ⁻	stainle ffectiv	ess steel
	Pressu Flange		Flange-si	ount regulator valve de pressure inlet: -151CH9	-		syntheti	c oils					
	Thread-s			ount regulator valve ide pressure inlet: '-151C7L			discharg sure reg especial	secondary side ge of the pilot pres- julator, lly for fluids W-151A78					







2/2-	-Way	Solenoid Valve	Battery -	Type EGV Serie	es 10	0							
Price group	53	Function "A" normally clos version	ed, distributor	low noise and impact-free for neutral, gaseous or flui		,							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
		9			15	5.6	G 1/2	16/8	AC/DC	NBR	EGV-111/V1-AH9-1/2BN-00	616901	0. r.
			Valve without s	olenoid coil	15	5.6	G 1/2	16/8	AC/DC	EPDM	EGV-111/V1-AH9-1/2PN-00	616951	0. r.
	a		Permitted oper	ating pressure 0.2 bar	15	5.6	G 1/2	16/8	AC/DC	FKM	EGV-111/V1-AH9-1/2FN-00	617001	0. r.
	C			ording to table below.	20	7.6	G 3/4	16/8	AC/DC	NBR	EGV-111/V1-AH9-3/4BN-00	616911	0. r.
				0	20	7.6	G 3/4	16/8	AC/DC	EPDM	EGV-111/V1-AH9-3/4PN-00	616961	0. r.
					20	7.6	G 3/4	16/8	AC/DC	FKM	EGV-111/V1-AH9-3/4FN-00	617011	0. r.
		. 9	Valve without e	olenoid coil, 2-fold battery	15	5.6	G 1/2	16/8	AC/DC	NBR	EGV-111/V2-AH9-1/2BN-00	616902	0. r.
			or solenoid coi	olenolu coli, z=lolu ballery	15	5.6	G 1/2	16/8	AC/DC	EPDM	EGV-111/V2-AH9-1/2PN-00	616952	0. r.
	ſ				15	5.6	G 1/2	16/8	AC/DC	FKM	EGV-111/V2-AH9-1/2FN-00	617002	0. r.
	n n			ating pressure 0.2 bar	20	7.6	G 3/4	16/8	AC/DC	NBR	EGV-111/V2-AH9-3/4BN-00	616912	0. r.
	V.		up to value act	ording to table below.	20	7.6	G 3/4	16/8	AC/DC	EPDM	EGV-111/V2-AH9-3/4PN-00	616962	
					20	7.6	G 3/4	16/8	AC/DC	FKM	EGV-111/V2-AH9-3/4FN-00	617012	0. r.
			Valve without e	olenoid coil, 3-fold battery	15	5.6	G 1/2	16/8	AC/DC	NBR	EGV-111/V3-AH9-1/2BN-00	616903	0. r.
			or solenoid coi	orenolu con, 5-1010 ballery	15	5.6	G 1/2	16/8	AC/DC	EPDM	EGV-111/V3-AH9-1/2PN-00	616953	0. r.
	R				15	5.6	G 1/2	16/8	AC/DC	FKM	EGV-111/V3-AH9-1/2FN-00	617003	0. r.
	AS)			ating pressure 0.2 bar	20	7.6	G 3/4	16/8	AC/DC	NBR	EGV-111/V3-AH9-3/4BN-00	616913	0. r.
			up to value acc	ording to table below.	20	7.6	G 3/4	16/8	AC/DC	EPDM	EGV-111/V3-AH9-3/4PN-00	616963	0. r.
	-				20	7.6	G 3/4	16/8	AC/DC	FKM	EGV-111/V3-AH9-3/4FN-00	617013	0. 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.

22(E22)

30(E30)

S27(G1/2)

S32(G3/4)

43







Solenoid valves, with pressure regulator, pressure operated valves or pressure regulator valves, can thus be flangemounted 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 multifunctional blocks, with integrated injectors, pressure sensors and similar.

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.

F	ermitted	oper	rating	pres	sure	OP															
			Con	nbinable	solenoid	coil				Perr	nitted op	erating p	oressure ()P [bar] a	at ambier	it tempera	ature +6	0 °C			
DN	Туре	PN		Nom	inal powe	er P ₂₀	AC 50 H 90 %U,		$\overline{\frown}$	AC 60 H 90 %U,	z	$\overline{\mathbf{A}}$	DC 90 %U,	\bigcap	\frown	DC 90 %U,	_		DC 100 %U		
	Type		Туре	AC 50 Hz	AC 60 Hz	DC	IN IN	ım tempe	rature	IN IN	m tempe	rature	Medium	tempera	ature	IN IN	m tempe	erature		m tempe	erature
				[VA]	[VA]	[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
			E22L.	3.5	on req.	2.5	on req.	on req.	on req.	on req.	on req.	on req.	6	5	4	4	3	2	6	5	4
15 t	o EGV-111/VA	16	E22M.	5,5	5	5	16	16	16	16	16	16	16	16	14	12	10	8	15	13	12
20	EGV-111/VA	10	E22H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E30P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16



Price group	53	Function "A" normally close mixer version	ed,	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
		Ť			15	5.6	G 1/2	16/8	AC/DC	NBR	EGV-111/M1-A7L-1/2BN-00	616921	0. r.
			Valve w	ithout solenoid coil	15	5.6	G 1/2	16/8	AC/DC	EPDM	EGV-111/M1-A7L-1/2PN-00	616971	0. r.
		S E	Permitte	ed operating pressure 0.2 bar	15	5.6	G 1/2	16/8	AC/DC	FKM	EGV-111/M1-A7L-1/2FN-00	617021	0. r.
	CHE 19			lue according to table below.	20	7.6	G 3/4	16/8	AC/DC	NBR	EGV-111/M1-A7L-3/4BN-00	616931	0. r.
	U ELY			3	20	7.6	G 3/4	16/8	AC/DC	EPDM	EGV-111/M1-A7L-3/4PN-00	616981	0. r.
	and the second s				20	7.6	G 3/4	16/8	AC/DC	FKM	EGV-111/M1-A7L-3/4FN-00	617031	0. r.
			Value u	ithout colonoid coil 2 fold bottom	15	5.6	G 1/2	16/8	AC/DC	NBR	EGV-111/M2-A7L-1/2BN-00	616922	0. r.
	_		or soler	ithout solenoid coil, 2-fold battery noid coil	15	5.6	G 1/2	16/8	AC/DC	EPDM	EGV-111/M2-A7L-1/2PN-00	616972	0. r.
	Â				15	5.6	G 1/2	16/8	AC/DC	FKM	EGV-111/M2-A7L-1/2FN-00	617022	o. r.
	R			ed operating pressure 0.2 bar	20	7.6	G 3/4	16/8	AC/DC	NBR	EGV-111/M2-A7L-3/4BN-00	616932	o. r.
	Y	MBY	up to va	lue according to table below.	20	7.6	G 3/4	16/8	AC/DC	EPDM	EGV-111/M2-A7L-3/4PN-00	616982	o. r.
					20	7.6	G 3/4	16/8	AC/DC	FKM	EGV-111/M2-A7L-3/4FN-00	617032	0. r.
	and a		Value u	ithout colonoid coil 2 fold bottom	15	5.6	G 1/2	16/8	AC/DC	NBR	EGV-111/M3-A7L-1/2BN-00	616923	0. r.
			or soler	ithout solenoid coil, 3-fold battery noid coil	15	5.6	G 1/2	16/8	AC/DC	EPDM	EGV-111/M3-A7L-1/2PN-00	616973	0. r.
					15	5.6	G 1/2	16/8	AC/DC	FKM	EGV-111/M3-A7L-1/2FN-00	617023	0. r.
				ed operating pressure 0.2 bar	20	7.6	G 3/4	16/8	AC/DC	NBR	EGV-111/M3-A7L-3/4BN-00	616933	o. r.
	AC AC	THEO	up to va	lue according to table below.	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	0. 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 flangemounted 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 multifunctional blocks, with integrated injectors, pressure sensors and similar.

Ρ	ermitted	oper	ating	pres	sure	OP															
			Con	nbinable	solenoid	coil				Peri	nitted op	erating p	oressure (OP [bar] a	at ambier	it temper	ature +6	D°C			
DN	Tuno	PN		Nom	inal powe	er P ₂₀	AC 50 H			AC 60 F	z	$\overline{\mathcal{A}}$	DC	\bigcap	\sim	DC			DC		
DIN	Туре	FN	Туре	AC 50 Hz	AC 60 Hz	DC	90 %U _N Mediu	ım tempe	rature	90 %U _N Mediu	im tempe	rature	90 %U _N Medium	tempera	iture	90 %U _N Mediu	ım tempe	rature	100 %U Mediu	m tempe	rature
				[VA]	[VA]	[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
			E22L.	3.5	on req.	2.5	on req.	on req.	on req.	on req.	on req.	on req.	6	5	4	4	3	2	6	5	4
15 to 20	EGV-111MA	16	E22M.	5.5	5	5	16	16	16	16	16	16	16	16	14	12	10	8	15	13	12
20	EGV-TITIVIA.	10	E22H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E30P.	12	10.5	8	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.

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..

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

CHARACTERISTICS

GENERAL

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 requ	/											
Medium temperature	for NBR: -10 °C to +90 °C for FK	M and EPDM: -10 °C to +130 °C (fo	r exceptions see table)										
Medium viscosity	up to ca. 20 mm²/s												
Valve body material	Brass												
Membrane support unit material	t unit material reinforced synthetic material (others on request)												
Other internal component	Stainless steel and non-ferrous m	netal											
Material	NBR (nitrile rubber), EPDM (ethyle	ne propylene) or FKM (fluoride rubb	per) (others on request)										
Mounting method	Installation in rigid pipe system												
Mounting position	optional, preferably upright												
PNEUMATIC - HYDRAULIC													
Nominal pressure (bar)	ambient temperature and 60°C m	erical value of the nominal pressure edium temperature. Insofar as two le second value to that with lowest	values are given, the first value refe										
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 different	ce of 0.5 bar or higher)										
Medium	Sealing material EPDM: e	.g. compressed air, water, hydraulic .g. hot water .g. solvents, hot water, hot air above											
Response time	Opening time: 20 ms to 1 s; closi	ng time: 25 ms to 3 s, according to	medium										
Electric	see solenoid coils												



Price group	53			e and impact-free closing, al, gaseous or fluids									Brass
		Version			DN	Kv-value water [m ³ /h]	G	PN	Possible type of current	Sealing material	Туре	Order number	Price
	~				10	2	G 3/8	16/8	AC/DC	NBR	EGV-211-A79-3/8BN-00	613041	0. r.
		0		Valve without solenoid coils	10	2	G 3/8	16/8	AC/DC	EPDM	EGV-211-A79-3/8PN-00	613043	o. r.
	H		7	Permitted operating pressure	10	2	G 3/8	16/8	AC/DC	FKM	EGV-211-A79-3/8FN-00	613045	o. r.
6	1			0.3 bar up to value according to table below.	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



			Com	nbinab l e	solenoid o	coils				Peri	nitted Op	erating F	Pressure (DP [bar] a	at ambien	t tempera	ature +60	0 °C			
				Nom	inal curre	nt P ₂₀	AC 50 H		\frown	AC 60 H	z 🗛 🦯		DC	\bigcap	\sim	DC			DC		
DN	type	PN	type	AC 50 Hz	AC 60 Hz	DC	90 %U _N Mediu	m tempe	erature	90 %U _N Mediu	m tempe	rature	90 %U _N Medium	tempera	iture	90 %U _N Mediu	m tempe	rature	100 %U Mediu	m tempe	erature
				[VA]	[VA]	[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
			E22L.	3.5	on req.	2.5	16	13	12	16	13	on req.	15	10	9	8	6	4	9	8	7
10	EGV-211-A	16/8	E22M.	5.5	5	5	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
and	EGV-211-A	16/8	E22H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E30P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16



Price 53 Function "B" Low noise and for neutral, gas	impact-free closing, eous or fluids									Brass
Version		DN	Kv-value water [m ³ /h]	G	PN	Possible type of current	Sealing mate- rial	Type (Partial solenoid valve without solenoid coils)	Order number	Price
		10	2	G 3/8	16/8	AC/DC	NBR	EGV-211-B97-3/8 BP-00	613291	o. r.
	Valve without solenoid coils	10	2	G 3/8	16/8	AC/DC	EPDM	EGV-211-B97-3/8 PP-00	613293	o. r.
	Permitted operating pressure	10	2	G 3/8	16/8	AC/DC	FKM	EGV-211-B97-3/8 FP-00	613295	o. r.
	0.3 bar up to value according to table below.	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	0. 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 coilss 360° rotatable.

Function Options In 0-position - magnetic system not under current - its seat is closed and its overrideal 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. increases resistance to corrosion Brass components chemically and replaces stainless steel valves kel-plate cost-effectively for many medium Type EGV-211Q-... In overrideal position - magnetic system under current - its seat is open and its overrideal seat closed. Pressure thus builds up in the control chamber, which due to the larger effective membrane surface holds the membrane in "closed" position.

			Con	nbinab l e :	solenoid	coils				Peri	nitted Op	erating P	Pressure (DP [bar] a	at ambien	t tempera	ature +6	O°C			
				Nom	inal curre	nt P ₂₀	AC 50 H		\frown	AC 60 H		\overline{A}	DC	\bigcap	\sim	DC			DC		
DN	type	PN	type	AC 50 Hz	AC 60 Hz	DC	90 %U _N Mediu	m tempe	rature	90 %U _N Mediu	im tempe	rature	90 %U _N Medium	tempera	iture	90 %U _N Mediu	Im tempe	erature	100 %U Mediu	In tempe	rature
				[VA]	[VA]	[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
			E22L.	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.
10	EGV-212-B	16/8	E22M.	5.5	5	5	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
and 12	EGV-212-D	10/0	E22H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E30P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16



2/2-Way Solenoid Valve - Type EGV Series 200 Function "Z" normally closed with existing auxiliary pressure at "10" for neutral, gaseous or fluids Price 53 Brass group Kv-value Type Possible Sealing Order Version DN G PN (Partial solenoid valve Price water type of materia number current [m³/h] without solenoid coils) G 3/8 16 AC/DC NBR EGV-211-Z77-3/8BP-00 613341 10 2 0, r, 2(1) 10 2 G 3/8 16 AC/DC EPDM EGV-211-Z77-3/8PP-00 613343 o. r. Valve without solenoid coils Permitted operating pressure 0.3 bar up to value according to table below, double-sided blocking. AC/DC 10 2 G 3/8 16 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 0. 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 S13 22 (E22) G1/8 30 (E30) These valves can also be used for dirty media by \sim the application, depending on constructional design, of an external medium, #∳ e.g. compressed air, for controlling the membrane. 61 76 \bigcirc G3/8 od. G1/2 Cable sockets adaptable with solenoid coils E22 by 2 x 180°, with E30 by 4 x 90° repositionable. = Both solenoid coilss 10 10 S27 360° rotatable. 35.5 55 **Function** Options 0-pressure membrane requires no differential In 0-position - magnetic system not under current - its seat is pressure to open, however to close control closed. The auxiliary pressure accumulated at "10" thus builds up in pressure 1 bar above operating pressure the control chamber and holds the membrane in "closed" position. TYPE EGV-211-Z77-..-0-00 In overrideal position - magnetic system under current increases resistance to corrosion and replaces stainless steel valves cost-effectively for many its overrideal seat is closed. The control chamber is discharged by the open seat and the membrane held in "open" position by the medium Type EGV-211Q-... medium. A minimum pressure difference is required for this. **Permitted Operating Pressure OP** Combinable solenoid coils Permitted Operating Pressure OP [bar] at ambient temperature +60 °C

DN	type	PN	type	AC 50 Hz	inal curre AC 60 Hz	DC	AC 50 H 90 %U _N Mediu	Iz 🔶 ım tempe	erature	AC 60 H 90 %U _N Mediu	Iz	rature	DC 90 %U _N Medium	tempera	ature	DC 90 %U _N Mediu	m tempe	erature	DC 100 %U Mediu	m tempe	erature
				[VA]	[VA]	[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
			E22L,	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.
and	EGV-211-Z.,	16/8	E22M.	5.5	5	5	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
12	EGV-211-2	10/0	E22H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E30P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16





AVS Römer · +49 8552 4076 300 · info@avs-roemer.de · www.avs-roemer.de



o_ Römer

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 overrideal 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

Intermediumte flange and flange-mount valves are directly flangemounted on pressure-bearing mechanical and apparatus components.

CHARACTERISTICS

GENERAL														
Constructional design	low noise membrane valv	e 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 of	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														
Other internal component material	Stainless steel and non-fe	errous metal												
Seal material	NBR (nitrile rubber), EPDN	/I (ethylene propylene) or Fl	KM (fluoride rubber) (others	on request)										
Mounting method	Installation in rigid pipe s	ystem												
Mounting position	optional, preferably uprig	nt												
PNEUMATIC - HYDRAULIC														
Nominal pressure (bar)	ambient temperature and	60°C medium temperature	nominal pressure PN signific e. Insofar as two values are to that with lowest power co	given, the first value refers										
Pressure range		perating pressure OP accor possible for Type EGV fund												
Flow rate	Kv-value according to Typ	e table (full flow with press	sure difference of 0.5 bar or	higher)										
Medium	gaseous or fluids Sealing material NBR: Sealing material EPDM: Sealing material FKM:	e g. hot water	water, hydraulic fluids, neu tter, hot air above 90°C	tral gases										
Response time	Opening time: 20 ms to 1	s; closing time: 25 ms to 3	s, according to flow mediu	m										
Electric	see solenoid coils													





- 1																						
	DN	Туре	PN	Туре	AC 50 Hz	ninal powe AC 60 Hz	er P ₂₀ DC	AC 50 H 90 %U _N Mediu	Iz Im tempe	erature	AC 60 H 90 %U _N Mediu	Iz	erature	DC 90 %U _N Medium	tempera	ature	DC 90 %U _N Mediu	ım tempe	erature	DC 100 %U Mediu	J _N Im tempe	rature
					[VA]	[VA]	[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
ĺ				E22L.	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
	13	EGV-311-A	16/8	E22M.	5.5	5	5	16	16	16	16	16	16	16	16	14	12	10	8	15	13	12
	13	EGV-311-A	16/8	E22H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
				E30P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16





			Cor	nbinable	solenoid	coil				Per	mitted Op	erating F	Pressure	OP [bar] a	at ambier	it temper	ature + 6	0°C			
				Nom	iinal powe	er P ₂₀	AC 50 H		\frown	AC 60 H			DC		$\overline{\frown}$	DC			DC		
DN	Туре	PN	Туре	AC 50 Hz	AC 60 Hz	DC	90 %U _N Mediu	m tempe	rature	90 %U _N Mediu	im tempe		90 %U _N Medium	tempera	ature	90 %U _N Mediu	m tempe	rature	100 %U Mediu	im tempe	erature
				[VA]	[VA]	[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
			E22L.	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.
13	EGV-311-B	16	E22M.	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.
13	EGV-STI-D	10	E22H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E30P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16



Price group	53		ow noise and impact-free closing, or neutral, gaseous or fluids									Brass
		Version		DN	Kv-value water [m ³ /h]	G	PN	Possible type of power	Sealing material	Туре	Order number	Price
			Valve port 3:1,8DV	13	3.2	G 1/2	12.5	AC/DC	NBR	EGV-321-C69-1/2BN-00	613421	0. r.
E			without solenoid coil Permitted operating pressure 0.3 bar up to value according to table below.	13	3.2	G 1/2	12.5	AC/DC	EPDM	EGV-321-C69-1/2PN-00	613423	0. r.
				13	3,2	G 1/2	12,5	AC/DC	FKM	EGV-321-C69-1/2FN-00	613425	0. r.

Illustration



	Combinable solenoid coil							Per	mitted Op	erating F	Pressure	DP [bar] a	at ambier	it tempera	ature +6	0°C					
				Nom	ninal powe	er P ₂₀	AC 50 H	z		AC 60 H	z 🔶								DC		
DN	DN Type	PN	Туре	AC 50 Hz	AC 60 Hz	DC	90 %U _N Mediu	m tempe		90 %U _N Mediu	m tempe	rature	90 %U _N Medium	tempera	iture	90 %U _N Mediu	m tempe	rature	100 %U Mediu	m tempe	erature
			[VA]	[VA]	[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	
			E22L.	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.
10	EGV-321-C	12.5	E22M.	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
13	EGV-321-0	12.5	E22H.	-	-	8	-	-	-	-	-	-	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
			E30P.	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



^{be} 53	Function "Z" normally closed with eau auxiliary pressure at port "10"	Low noise and impact-f for neutral, gaseous or f		ng,							Brass
	Version		DN	Kv-value water [m³/h]	G	PN	Possible type of power	Sealing material	Туре	Order number	Price
	2(1)	Valve without solenoid coil Permitted operating pressure	13	3.2	G 1/2	16	AC/DC	NBR	EGV-311-Z76-1/2BP-00	613431	o. r.
		0.3 bar up to value according to table below, double-sided blocking. Permitted control pressure at "10" ≥ Operating	13	3.2	G 1/2	16	AC/DC	EPDM	EGV-311-Z76-1/2PP-00	613433	0. r.
	∎ 1(2)	pressure, max. 16 bar	13	3.2	G 1/2	16	AC/DC	FKM	EGV-311-Z76-1/2FP-00	613435	0. r
lustrati	on										
		5.2	G1/8	<u></u>		1			22 (E22) 30 (E30)		
)		ŕ			
		2									
		88	1		7					ckets adapta enoid coil E22	
Jer Jer					G1/2				2 x 180°	, with E30 by repositionable	, -
	- × I				1 0			111.1			
		1(2)			2(1)			¢	Both sole 360° rota	enoid coils	
		1(2) 13.5 27.5	61	13.5	2(1)				Both sole	enoid coils	
function		13.5			2(1)		Optic	ons	Both sole 360° rota	enoid coils	
					2(1)		Optic	ons	Stepwise manual over Type EGV-312	enoid coils atable.	
	In 0-position - magnetic	Variations			2(1)		Optic	ons	Stepwise manual over Type EGV-312 This limits: permitted excess oper	enoid coils atable. erride	
	In 0-position - magnetic system not under power its seat is closed. The aux pressure accumulated at	Variations			2(1)		Optic	ons	Stepwise manual ove Type EGV-312 This limits:	enoid coils atable. erride erating pressu	ure:
	In 0-position - magnetic system not under power - its seat is closed. The aux	Variations			2(1)		Optic	ons	Stepwise manual over Type EGV-312 This limits: permitted excess oper 12.5 bar	enoid coils atable. erride erating pressu mperature: n	ure: nax, 60
	In 0-position - magnetic system not under power - its seat is closed. The aux pressure accumulated at "10" thus builds up in the control chamber and hold	Variations	61	/2-way flan	ge moun	t	Optic		Stepwise manual over Type EGV-312 This limits: permitted excess oper 12.5 bar permitted Medium te Membrane made of co	erride erride mperature: n mperature: n mal for comp ier nitrile con	ure: nax, 60 I: oressed tent)
	In 0-position - magnetic system not under power - its seat is closed. The aux pressure accumulated at "10" thus builds up in the control chamber and hold	Variations	61 61 2 8 F		nge moun ve pressure	inlet	Optic		Stepwise manual over 360° rota 32 Stepwise manual over Type EGV-312 This limits: permitted excess oper 12.5 bar permitted Medium te Membrane made of cCR (chloroprene) opti HNBR (NBR with high specially for certain second secon	erride erride erating pressu mperature: n pother materia imal for comp rer nitrile con synthetic oils to corrosion,	ure: nax. 60 I: oressec tent)
	In O-position - magnetic system not under power - its seat is closed. The aux pressure accumulated at "10" thus builds up in the control chamber and hold membrane in "closed" po	iliary s the sition.	61 61 2 8 F	/2-way flan olenoid val lange-side	nge moun ve pressure	inlet	Optic		Stepwise manual over 360° rota Stepwise manual over Type EGV-312 This limits: permitted excess oper 12.5 bar permitted Medium te Membrane made of cCR (chloroprene) opti HNBR (NBR with high specially for certain s	erride erride erating pressu mperature: n mal for comp er nitrile con synthetic oils to corrosion, ss steel valve:	ure: nax. 60 I: oressed tent)
	In 0-position - magnetic system not under power- its seat is closed. The aux pressure accumulated at "10" thus builds up in the control chamber and hold membrane in "closed" po In overrideal position - magnetic system under power - its overrideal sea closed. The control chamb released by the open seat	iliary sthe sition.	61 61 2 8 F	/2-way flan olenoid val lange-side	nge moun ve pressure	inlet	Optic		Stepwise manual over 360° rota Stepwise manual over Type EGV-312 This limits: permitted excess oper 12.5 bar permitted Medium te Membrane made of c CR (chloroprene) opti HNBR (NBR with high specially for certain s increases resistance and replaces stainles cost-effectively for manual oper stainles cost-effectively for manual oper termited	erride erride erating pressu mperature: n mal for comp er nitrile con synthetic oils to corrosion, ss steel valve:	ure: nax. 60 I: oressed tent)
	In 0-position - magnetic system not under power - its seat is closed. The aux pressure accumulated at "10" thus builds up in the control chamber and hold membrane in "closed" po In overrideal position - magnetic system under power - its overrideal sea closed. The control chamt	iliary s the sition. t is per is and pen" J.A.	61 61 2 8 F	/2-way flan olenoid val lange-side	nge moun ve pressure	inlet			Stepwise manual over 360° rota Stepwise manual over Type EGV-312 This limits: permitted excess oper 12.5 bar permitted Medium te Membrane made of c CR (chloroprene) opti HNBR (NBR with high specially for certain s increases resistance and replaces stainles cost-effectively for manual oper stainles cost-effectively for manual oper termited	enoid coils atable. erride erating pressu mperature: n other materia mal for comp ner nitrile con synthetic oils to corrosion, ss steel valves hany flow men he requires no to open, how	ure: nax, 60 I: oressec tent) s dium

	Chillico	oper	unig	1100	Suic																
			Con	nbinable	solenoid	coil				Per	mitted Op	erating F	Pressure	OP [bar] a	at ambier	it tempera	ature +6	0°C			
	DN Type			Nom	inal powe	er P ₂₀	AC 50 H			AC 60 F	z 🔶	\overline{A}	DC	\square		DC			DC		
DN	Туре	PN	Туре	AC	AC	DC	90 %U _N Mediu	m tempe	rature	90 %U _N Mediu	m tempe	rature	90 %U _N Medium	tempera	ture	90 %U _N Mediu	m tempe	rature	100 %U Mediu	m tempe	rature
				50 Hz 60 Hz [VA] [VA]		[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
_			500 L	2.5		0.5															
			E22L.	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.
13	EGV-311-Z	16	E22M.	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.
13	EGV-311-Z	10	E22H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E30P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16





			Cor	nbinable	solenoid	coil				Permitteo	l Operating Pi	ressure OP [l	par] at ambien	t temperature	+60 °C					
	DN Type			Nom	inal powe	er P ₂₀	AC 50 H			AC 60 Hz		DC	$\sim\sim$	DC		DC				
DN		PN	Туре	AC 50 Hz	AC 60 Hz	DC	90 %U _N Mediu	ım tempe	rature	90 %U _N ⊆ Medium te	mperature	90 %U _N C Medium te	mperature	90 %U _N Medium te	mperature	100 %U _N ⊆ Medium te	mperature			
				[VA]	[VA]	[W]	60 °C	90 °C	130 °C	60 °C	90 °C	60 °C	90 °C	60 °C	90 °C	60 °C	90 °C			
			E22L.	3.5	on req.	2.5	8	on req.	-	7	on req.	6	5	4	3	6	5			
1.0		16/8	E22M.	5.5	5	5	16	16	16	16	16	16	16	12	10	15	13			
13	13 EGV-351-C	16/8	⁸ E22H.	-	-	8	-	-	-	-	-	16	16	16	16	16	16			
			E30P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16			







2/2-Way Valve - Type PGV	/ Series 300 - Pre	ssure O	perat	ed						
	w noise functioning, for gaseous specially compressed air	s medium,								Brass
Version	DN	Flow air [Nm³/h]	G	PN	Sealing material	Туре	Order number	Price		
	2/2-way valve pressure-operated by maintained compressed air Permitted operating pressure 0.3 to 16 bar	4-7	13	3.2	G 1/2	16	NBR	PGV-351-A96-1/2BP	614181	0. r.

Illustration







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

Function		Variations	
	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.		2/2-way flange mount valve Flange-side pressure inlet Type PGV-351AL7-1/2BP
	In overrideal position - pre-control valve pressurised - its overrideal 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.		2/2-way flange mount valve Thread-side pressure inlet Type PGV-351A9H-1/2BP



O R		Valve - Type RGV Seri	ies 300										
Price group 53	1			Amb. tem MedTen	ıp. T _{min} - 20 ° np. T _{min} 0 °C,	C, T _{max} +6 T _{max} +60	0°06 °C				Brass		
	Version		Secondary pressure [bar]	DN	Flow air [l/min]	G	PN	Sealing material	Туре	Order number	Price		
		,	0.5 - 10	13	150 to 1,500	G 1/2	16	NBR	RGV-351-1C78-1/2BN	653001	0. r.		
		Pressure regulator valve without pressure gauge Permitted operating pressure 0.5 bar up to 16 bar	0.5 - 3	13	150 to 1,500	G 1/2	G 1/2 16		RGV-351-3C78-1/2BN	653002	0. r.		
	· ·		0.5 - 6	13	150 to 1,500	G 1/2	16	NBR	RGV-351-6C78-1/2BN	653003	0, r,		
Illustration Illustration Illustration													
Variatio	ons			Ор	tions								
		Flange mount Pressure regulator valve Flange-side pressure inlet Type RGV-351CH9			Brassnet component chemically nicket plate			and repla	s resistance to corrosion, ices stainless steel valves ctively stainless steel pressur /-351Q	e regulator			
						4 - 	without s ventilatio especiall Type RGV	econdary side n of the pilot pressure regulat y for fluids /-351A78	or,				



,			Battory				_						
Price group	53	Function "A" normally close version	ed, distributor	low noise and impact-free of for neutral, gaseous or fluid									Brass
		Version			DN	Kv-value water [m³/h]	G	PN	Possible type of power	Sealing material	Туре	Order number	Price
			Valve		13	3.2	G 1/2	16/8	AC/DC	NBR	EGV-311/V1-AH9-1/2BN-00	616801	o. r.
				oid coil erating pressure 0.3 bar ccording to table below.	13	3.2	G 1/2	16/8	AC/DC	EPDM	EGV-311/V1-AH9-1/2PN-00	616831	0. r.
					13	3.2	G 1/2	16/8	AC/DC	FKM	EGV-311/V1-AH9-1/2FN-00	616861	0. r.
			Valve, 2-fold		13	3.2	G 1/2	16/8	AC/DC	NBR	EGV-311/V2-AH9-1/2BN-00	616802	0. r.
		0 000		enoid coil erating pressure 0.3 bar ccording to table below.	ting pressure 0.3 bar 13 3.2 G 1/2 16/8 /		AC/DC	EPDM	EGV-311/V2-AH9-1/2PN-00	616832	0. r.		
	l		ap to raido at		13	3.2	G 1/2	16/8	AC/DC	FKM	EGV-311/V2-AH9-1/2FN-00	616862	0. r.
			Valve, 3-fold		13	3.2	G 1/2	16/8	AC/DC	NBR	EGV-311/V3-AH9-1/2BN-00	616803	o. r.
				enoid coil erating pressure 0.3 bar ccording to table below.	13	3.2	G 1/2	16/8	AC/DC	EPDM	EGV-311/V3-AH9-1/2PN-00	616833	o. r.
	Q		ap to fuldo ut		13	3.2	G 1/2	16/8	AC/DC	FKM	EGV-311/V3-AH9-1/2FN-00	616863	o. r.

Illustration









Valve Vers	sion	
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 flangemounted 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 multifunctional blocks, with integrated injectors, pressure sensors and such like.

Permitted (Operating Pressure	OF
	operating ricesure	

	Combinable solenoid coil Permitted Operating Pressure OP [bar] at ambient temperature + 60 °C																							
			Cor	nbinable	solenoid	coil				Perr	nitted Op	erating P	ressure ()P [bar] a	ıt ambien	it tempera	ature + 6	0°C	0°C					
	DN Type			Nom	inal powe	er P ₂₀	AC 50 H	z		AC 60 H	z		DC	\frown	\sim	DC			DC					
DN		PN	Туре	AC 50 Hz	AC 60 Hz	DC	90 %U _N Mediu	%U _N 90 %U _N 90 %U _N 90 %U _N 90 %U _N Medium temperature Medium temperature Medium temperature			14 14				rature	100 %U Mediu	m tempe	rature						
				[VA]	[VA]	[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			
			E22L.	3.5	on req.	2.5	on req.	on req.	on req.	on req.	on req.	on req.	6	5	4	4	3	2	6	5	4			
10		10/0	E22M.	5.5	5	5	16	16	16	16	16	16	16	16	14	12	10	8	15	13	12			
13	13 EGV-311/VA	16/8	E22H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16			
			E30P.	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 300

Price group	53	Function version	"A" normally closed, mixer	low noise a for neutral,			g,							Brass
	Version				Non- return valve	DN	Kv-value water [m³/h]	G	PN	Possible type of power	Sealing material	Туре	Order number	Price
					without	13	3.2	G 1/2	16/8	AC/DC	NBR	EGV-311/M1-A7L-1/2BN-00	616811	0. r.
	Ř.		Valve		with	13	3.2	G 1/2	16/8	AC/DC	NBR	EGV-311/M1-A7L-1/2BR-00	616821	0. r.
	without solenoid coil Permitted operating pressure	uro 0 3 har	without	13	3.2	G 1/2	16/8	AC/DC	EPDM	EGV-311/M1-A7L-1/2PN-00	616841	0. r.		
		5	up to value according to ta		with	13	3.2	G 1/2	16/8	AC/DC	EPDM	EGV-311/M1-A7L-1/2PR-00	616851	o. r.
		Ø			without	13	3.2	G 1/2	16/8	AC/DC	FKM	EGV-311/M1-A7L-1/2FN-00	616871	o. r.
	<i>w</i>	~			with	13	3.2	G 1/2	16/8	AC/DC	FKM	EGV-311/M1-A7L-1/2FR-00	616881	o. r.
	9.0				without	13	3.2	G 1/2	16/8	AC/DC	NBR	EGV-311/M2-A7L-1/2BN-00	616812	0. r.
	MR		Valve, 2-fold		with	13	3.2	G 1/2	16/8	AC/DC	NBR	EGV-311/M2-A7L-1/2BR-00	616822	0. r.
5		<u>.</u>	Battery or solenoid coil Permitted operating press	uro 0 2 har	without	13	3,2	G 1/2	16/8	AC/DC	EPDM	EGV-311/M2-A7L-1/2PN-00	616842	0. r.
6		19	up to value according to ta		with	13	3.2	G 1/2	16/8	AC/DC	EPDM	EGV-311/M2-A7L-1/2PR-00	616852	o. r.
	40 E				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.
	9.				without	13	3.2	G 1/2	16/8	AC/DC	NBR	EGV-311/M3-A7L-1/2BN-00	616813	0. r.
	<u> 1 As</u>	,	Valve, 3-fold		with	13	3,2	G 1/2	16/8	AC/DC	NBR	EGV-311/M3-A7L-1/2BR-00	616823	0. r.
\leq	25		Battery or solenoid coil Permitted operating press	uro 0 2 hor	without	13	3.2	G 1/2	16/8	AC/DC	EPDM	EGV-311/M3-A7L-1/2PN-00	616843	o. r.
R			up to value according to ta		with	13	3.2	G 1/2	16/8	AC/DC	EPDM	EGV-311/M3-A7L-1/2PR-00	616853	0. r.
ų M	UNE				without	13	3.2	G 1/2	16/8	AC/DC	FKM	EGV-311/M3-A7L-1/2FN-00	616873	0. r.
	- U				with	13	3.2	G 1/2	16/10	AC/DC	FKM	EGV-311/M3-A7L-1/2FR-00	616883	0. r.

Illustration





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.

Permitted Operating Pressure OP



G1/2 x 14 ø6.5

2

1.1



G1/2 x 14

1.3

27

64

80

22(E22)

30(E30)





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.

1.2

H1

H2

Solenoid valves, with pressure regulator, pressure operated valves or pressure regulator valves, can thus be flangemounted 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.

	remilled	Oper	auny	ries	sure	UP															
			Con	nbinable	solenoid	coil				Per	mitted Op	erating F	Pressure (OP [bar] a	at ambier	t tempera	ature +6	O°C			
DN	Type	PN		Nom	iinal powe	er P ₂₀	AC 50 H 90 %U,		\frown	AC 60 F 90 %U.,	z	$\overline{\mathcal{A}}$	DC 90 %U,	\bigcap	\frown	DC 90 %U,	\square		DC 100 %U		
	Type		Туре	AC 50 Hz	AC 60 Hz	DC	N N	ım tempe	erature	IN IN	im tempe	rature	N N	tempera	iture	N	m tempe	rature		im tempe	rature
				[VA]	[VA]	[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
			E22L.	3.5	on req.	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/MA	16/8	E22M.	5.5	5	5	16	16	16	16	16	16	16	16	14	12	10	8	15	13	12
13	EUV-311/IVIA	10/0	E22H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E30P.	12	10.5	8	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 exter- nal 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 connect	tors on request)	
Ambient temperature	-20 °C to +60 °C (others on request)		
Medium temperature	for NBR: -10 °C to +90 °C for FKM and EPDI	M: -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 propyle	ne) or FKM (fluoride rubber) (others on request)
Mounting method	Installation in rigid pipe system		
Mounting position	optional, preferably upright		
PNEUMATIC - HYDRAULIC			
Nominal pressure (bar)	at 60 °C ambient temperature and 60 °C me	of the nominal pressure PN signifies the perm dium temperature. Insofar as two values are gi he second value to that with lowest power con	ven, the first value refers to solenoid coil
Pressure range	0.2 bar up to permitted operating pressure OF	according to table. 0 to 16 bar version is also p	oossible for type EGV function "Z" and type PGV
Flow rate	Kv-value according to type table (full flow wi	th pressure difference of 0.5 bar or higher)	
Medium	gaseous or fluids which do not corrode the n	naterials 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		



rice roup	53	Function "A" closed	normally	Low noise and in for gaseous or fl	npact-free closing, uids								ess ste 4305
		Version		DN	Kv-value water [m³/h]	G	PN	Possible type of current	Sealing material	Type (Valve without sole coil)	enoid	Order number	Price
				15	5.6	G 1/2	16/8	DC	NBR	EGV-713-A79-1/2B	3N-00	623502	o. r.
				15	5.6	G 1/2	16/8	DC	EPDM	EGV-713-A79-1/2P	PN-00	623504	o. r.
	Valve w	ithout solenoid	coil	15	5.6	G 1/2	16/8	DC	FKM	EGV-713-A79-1/2F	-N-00	623506	o. r.
Per	rmitted op	erating pressu	e 0.2 bar	20	7.6	G 3/4	16/8	DC	NBR	EGV-713-A79-3/4B	3N-00	623552	0. r.
up	to value a	ccording to tak	le below.	20	7.6	G 3/4	16/8	DC	EPDM	EGV-713-A79-3/4P	PN-00	623554	o. r
				20	7.6	G 3/4	16/8	DC	FKM	EGV-713-A79-3/4F	N-00	623556	o. r
		6		25	16.8	G 1	16/8	DC	NBR	EGV-713-A79-1BN-	-00	623602	0. r
				25	16.8	G 1	16/8	DC	EPDM	EGV-713-A79-1PN-	-00	623604	0. r
		<u> </u>		25	16.8	G 1	16/8	DC	FKM	EGV-713-A79-1FN-	-00	623606	0. r
	a	NAN		32	21	G 1 1/4	16/8	DC	NBR	EGV-713-A79-5/4B	3N-00	623652	0. r
	6			32	21	G 1 1/4	16/8	DC	EPDM	EGV-713-A79-5/4P	PN-00	623654	0. r
		JIPI		32	21	G 1 1/4	16/8	DC	FKM	EGV-713-A79-5/4F	-N-00	623656	0, 1
	\prec			40	29.5	G 1 1/2	16/8	DC	NBR	EGV-713-A79-6/4B	3N-00	623702	0.1
		2		40	29,5	G 1 1/2	16/8	DC	EPDM	EGV-713-A79-6/4P	PN-00	623704	1,0
			4	40	29.5	G 1 1/2	16/8	DC	FKM	EGV-713-A79-6/4F	-N-00	623706	1.0
		+ - 1		50	35	G 2	16/8	DC	NBR	EGV-713-A79-2BN-	-00	623752	1,0
				50	35	G 2	16/8	DC	EPDM	EGV-713-A79-2PN-	-00	623754	0. r
				50	35	G 2	16/8	DC	FKM	EGV-713-A79-2FN-	-00	623756	0. r
p	tions												
			for comp HNBR (N nitrile co	material: roprene) optimal ressed air BR with higher ntent) for certain			outlet-side Type EGV-7 This blocks the followin difference:	g pressure V 32: 10 bar		protection up to 10 bar r	or -024/ = respectivel A fuse (ma)-EEX m II T : -EEX m II T Iy with 3m ax, 3 x INen re-installed	75 cable n)

P	ermitted	Oper	ating	Pres	sure	OP															
			Cor	nbinable	solenoid	coil				Permitt	ed exces	s operati	ng pressu	ire OP [ba	ar] at aml	pient tem	perature	+60 °C			
		DN		Nom	iinal powe	er P ₂₀	AC 50 H	· \		AC 60 H		$\overline{\mathbf{A}}$	DC	\bigcap	$\overline{\frown}$	DC	F		DC		
DN	type	PN	type	AC 50 Hz	AC 60 Hz	DC	90 %U _N Mediu	im tempe	erature	90 %U _N Mediu	im tempe	rature	90 %U _N Medium	tempera	iture	90 %U _N Mediu	m tempe	erature	100 %U Mediu	m tempe	erature
				[VA]	[VA]	[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
			E22L.	-	-	2,5	-	-	-	-	-	-	-	-	-	4	3	2	6	5	4
15 to		16/8	E22M.	-	-	5	-	-	-	-	-	-	-	-	-	12	10	8	15	13	12
32		10/0	E22H.	-	-	8	-	-	-	-	-	-	-	-	-	16	16	16	16	16	16
	EGV-713-A		E30P.	-	-	8	-	-	-	-	-	-	-	-	-	16	16	16	16	16	16
	EGV-/13-A		E22L.	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
40		16/8	E22M.	-	-	5	-	-	-	-	-	-	-	-	-	8	7	6	12	10	9
and 50		10/0	E22H.	-	-	8	-	-	-	-	-	-	-	-	-	12	10	9	16	14	10
			E30P.	-	-	8	-	-	-	-	-	-	-	-	-	16	16	16	16	16	16



rice		nction "A" normally	low noise and impac						Stainless ste
roup		bsed	for neutral, gaseous	or fluids					1.4305
		Operating position			Description			Function	
				its resting seat is the control chami membrane surfac position. In operational pos - its resting seat and the membrane	nagnetic system not s closed. Pressure t ber, which due to th e holds the memb sition - magnetic syst is open, the control e is held by the flow i num pressure differ	hus builds up in e larger effective rane in "closed" em under current chamber released medium in "open"			
Illus	tration								
							S13 22 (E22) 30 (E30)	of wiring box integrated br Please do not	type ESG with
Dim	ension	S							
	DN	G	L	I	N	L1	L2	Н	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 11/4	112	19	50.5	82.5	126.5	88	50
	40	G 11/2	132	21	48	96	153	114	55



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

Price group	53	Function "Z" normally close auxiliary pressure at "10"	d with existing	Low noise and in for gaseous or flu	npact-free closin uids	g,					nless steel 1.4305
		Version	DN	Kv-value water [m³/h]	G	PN	Possible type of current	Sealing material	Type (Valve without solenoid coil)	Order number	Price
	Valvo w	ithout solenoid coil	15	5.6	G 1/2	16	AC/DC	NBR	EGV-711-Z77-1/2BP-00	624501	0. r.
			15	5.6	G 1/2	16	AC/DC	EPDM	EGV-711-Z77-1/2PP-00	624503	o. r.
		ting pressure 0.2 bar up to table below, double-sided	15	5.6	G 1/2	16	AC/DC	FKM	EGV-711-Z77-1/2FP-00	624505	o. r.
value a	according i	blocking.	20	7.6	G 3/4	16	AC/DC	NBR	EGV-711-Z77-3/4BP-00	624511	o. r.
		ontrol pressure at "10":	20	7.6	G 3/4	16	AC/DC	EPDM	EGV-711-Z77-3/4PP-00	624513	0. r.
2	operating	pressure, max. 16 bar	20	7.6	G 3/4	16	AC/DC	FKM	EGV-711-Z77-3/4FP-00	624515	0. r.
			25	16.8	G 1	16	AC/DC	NBR	EGV-711-Z77-1BP-00	624521	0. r.
		8	25	16.8	G 1	16	AC/DC	EPDM	EGV-711-Z77-1PP-00	624523	0. r.
			25	16.8	G 1	16	AC/DC	FKM	EGV-711-Z77-1FP-00	624525	0. r.
			32	21	G 1 1/4	16	AC/DC	NBR	EGV-711-Z77-5/4BP-00	624531	0. r.
	(a)		32	21	G 1 1/4	16	AC/DC	EPDM	EGV-711-Z77-5/4PP-00	624533	o. r.
	le l		32	21	G 1 1/4	16	AC/DC	FKM	EGV-711-Z77-5/4FP-00	624535	o. r.
		2.1	40	29.5	G 1 1/2	16	AC/DC	NBR	EGV-711-Z77-6/4BP-00	624541	0. r.
		!	40	29.5	G 1 1/2	16	AC/DC	EPDM	EGV-711-Z77-6/4PP-00	624543	0. r.
			40	29.5	G 1 1/2	16	AC/DC	FKM	EGV-711-Z77-6/4FP-00	624545	0. r.
	10		50	35	G 2	16	AC/DC	NBR	EGV-711-Z77-2BP-00	624551	o. r.
	\leq		50	35	G 2	16	AC/DC	EPDM	EGV-711-Z77-2PP-00	624553	0. r.
		1.2	50	35	G 2	16	AC/DC	FKM	EGV-711-Z77-2FP-00	624555	0, r,

Options

_		6		
Æ	M.	7	\mathbb{N}	
11	11))))	
11) II			
16]		_	

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-711-Z77-./..0-..

P	ermitted	Oper	ating	Pres	sure	OP															
			Cor	nbinable	solenoid	coil				Permitt	ed exces	s operatii	ng pressu	re OP [ba	ar] at aml	bient tem	perature	+60 °C			
				Nom	inal powe	er P ₂₀	AC 50 H	z		AC 60 H	z 🔶	\overline{A}	DC	\square	\square	DC			DC		
DN	type	PN	type	AC 50 Hz	AC 60 Hz	DC	90 %U _N Mediu	m tempe	rature	90 %U _N Mediu	im tempe	rature	90 %U _N Medium	tempera	iture	90 %U _N Mediu	m tempe	rature	100 %U Mediu	ım tempe	rature
				[VA]	[VA]	[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
			E22L.	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.
15 t	D EGV-711-Z	16	E22M.	5.5	5	5	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
50	EGV-711-2	10	E22H.	-	-	8	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16
			E30P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16



ice 53 Fi	unction "Z" normally close uxiliary pressure at "10"	ed with existing fo	w noise and impact-fre r gaseous or fluids	e closing,				Stainless st 1.4305
	Operating position			Description			Function	
			resting seat is clo	agnetic system not u sed. The auxiliary pres s up in the control char sed" position.	sure accumulated			
			its operational se released by the held in "open" po	ition - magnetic syste eat is closed. The co open resting seat ar sition by the flow me e is required for this (ed under Options)	ontrol chamber is id the membrane dium, A minimum			
llustration	1							
						S13 G1/8 G	These valves used for dirty the applicatio on construction of an externa e.g. compress controlling th A typical app drainage of c compressed	media by on, depending onal design, I medium, sed air, for e membrane. lication is the ondensation from
imension	IS							
			1	N	L1	L2	н	
DN	G	L						S
DN 15	G G 1/2	L 68	13	14	72,5	102,5	60	S 27
						102.5		
15 20 25	G 1/2 G 3/4 G 1	68 80 94	13	14	72.5 72.5 88.5	102.5 132.5	60	27
15 20	G 1/2 G 3/4	68 80	13 15	14 20	72,5 72,5	102.5	60	27 32



ice pup53Function "B" - open in 0-p without control pressure		se and impact-fr s and fluids	ee closing, for neu	itral,					less ste .4305
Version	Controlpres- sure [bar]	DN	Kv-value water [m³/h]	G	PN	Sealing material	Type (Valve without solenoid coil)	Order number	Price
		15	5.6	G 1/2	16	NBR	PGV-731-B77-1/2BP	624801	0. r.
2/2-way valve		15	5.6	G 1/2	16	EPDM	PGV-731-B77-1/2PP	624802	0. r.
pressure operated, blocking double-sided		15	5.6	G 1/2	16	FKM	PGV-731-B77-1/2FP	624803	0. r
by external medium		20	7.6	G 3/4	16	NBR	PGV-731-B77-3/4BP	624811	0. r
Permitted operating pressure 0,2 to 16 bar		20	7,6	G 3/4	16	EPDM	PGV-731-B77-3/4PP	624812	0, r
0,2 10 10 081		20	7.6	G 3/4	16	FKM	PGV-731-B77-3/4FP	624813	0. r
		25	16.8	G 1	16	NBR	PGV-731-B77-1BP	624821	0.1
	≥ Excess	25	16.8	G 1	16	EPDM	PGV-731-B77-1PP	624822	0.
	operating	25	16,8	G 1	16	FKM	PGV-731-B77-1FP	624823	0,
	pressure	32	21	G 1 1/4	16	NBR	PGV-731-B77-5/4BP	624831	0.
	max, 16	32	21	G 1 1/4	16	EPDM	PGV-731-B77-5/4PP	624832	0.
	max, ro	32	21	G 1 1/4	16	FKM	PGV-731-B77-5/4FP	624833	0.
2(1)		40	29.5	G 1 1/2	16	NBR	PGV-731-B77-6/4BP	624841	0.
		40	29,5	G 1 1/2	16	EPDM	PGV-731-B77-6/4PP	624842	0.
		40	29,5	G 1 1/2	16	FKM	PGV-731-B77-6/4FP	624843	0.
		50	35	G 2	16	NBR	PGV-731-B77-2BP	624851	0.
1(2)		50	35	G 2	16	EPDM	PGV-731-B77-2PP	624852	0.
		50	35	G 2	16	FKM	PGV-731-B77-2FP	624853	0.
								024033	0.
	and function: 2/2-w				erated by extern	· · ·			
emotely operated 2/2-way valve sgulated by external ledium with /2-way valve positive control)			rated 2/2-way val external medium valve 10(-	•		4 1 1	'e	
2-Way Solenoid Valve	- Type PG	V Series	700 Press	sure Oper	ated by c	own Medi	um		
/2-Way Solenoid Valve	position low noi		700 Press		ated by c	own Medi	um		less st .4305
e 52 Function "B" - open in 0-p	position low noi	se and impact-fr			rated by c	own Medi Sealing material	um Type (Valve without solenoid coil)		
Function "B" - open in 0-p without control pressure	Controlpres-	se and impact-fr s and fluids	ee closing, for neu Kv-value water [m³/h]	ıtral,		Sealing	Type (Valve without solenoid	1 Order number	.4305 Pric
Function "B" - open in 0-p without control pressure	Controlpres-	se and impact-fr s and fluids DN	ee closing, for neu Kv-value	ttral, G	PN	Sealing material	Type (Valve without solenoid coil)	1 Order	.4305
Function "B" - open in 0-p without control pressure	Controlpres-	se and impact-fr s and fluids DN 15	ee closing, for neu Kv-value water [m³/h] 5.6	G 1/2	PN 16	Sealing material NBR	Type (Valve without solenoid coil) PGV-731-B77-1/2BN	1 Order number 624901	.4305 Pric
Function "B" - open in 0-p without control pressure Version	Controlpres-	se and impact-fr s and fluids DN 15 15	kv-value water [m ³ /h] 5.6 5.6	G G 1/2 G 1/2	PN 16 16	Sealing material NBR EPDM	Type (Valve without solenoid coil) PGV-731-B77-1/2BN PGV-731-B77-1/2PN	1 Order number 624901 624902	.4305 Pric
P 53 Function "B" - open in 0-r without control pressure Version Version 2/2-way valve pressure operated by own medium Permitted operating pressure	Controlpres-	se and impact-fr s and fluids DN 15 15 15	kv-value water [m ³ /h] 5.6 5.6 5.6 5.6	G G 1/2 G 1/2 G 1/2 G 1/2 G 1/2	PN 16 16 16	Sealing material NBR EPDM FKM	Type (Valve without solenoid coil) PGV-731-B77-1/2BN PGV-731-B77-1/2PN PGV-731-B77-1/2FN	1 Order number 624901 624902 624903	.4305 Prid
P 53 Function "B" - open in 0-p without control pressure Version 2/2-way valve pressure operated by own medium	Controlpres-	se and impact-fr s and fluids DN 15 15 15 15 20	ee closing, for net Kv-value water [m³/h] 5.6 5.6 5.6 7.6	G G 1/2 G 1/2 G 1/2 G 1/2 G 3/4	PN 16 16 16 16	Sealing material NBR EPDM FKM NBR	Type (Valve without solenoid coil) PGV-731-B77-1/2BN PGV-731-B77-1/2PN PGV-731-B77-1/2FN PGV-731-B77-3/4BN	1 Order number 624901 624902 624903 624911	.4305 Price 0. 0. 0. 0. 0.
p 53 Function "B" - open in 0-r without control pressure Version Version 2/2-way valve pressure operated by own medium Permitted operating pressure	Controlpres-	se and impact-fr s and fluids DN 15 15 15 20 20	kv-value water [m³/h] 5.6 5.6 5.6 7.6 7.6 7.6	G G 1/2 G 1/2 G 1/2 G 1/2 G 3/4 G 3/4 G 3/4	PN 16 16 16 16 16	Sealing material NBR EPDM FKM NBR EPDM	Type (Valve without solenoid coil) PGV-731-B77-1/2BN PGV-731-B77-1/2PN PGV-731-B77-1/2FN PGV-731-B77-3/4BN PGV-731-B77-3/4PN	1 Order number 624901 624902 624903 624911 624912	.4305 Price 0. 0. 0. 0. 0. 0. 0.
P 53 Function "B" - open in 0-r without control pressure Version Version 2/2-way valve pressure operated by own medium Permitted operating pressure	Controlpres- sure [bar]	se and impact-fr s and fluids DN 15 15 15 20 20 20 20	kv-value water [m³/h] 5.6 5.6 5.6 7.6 7.6 7.6 7.6	G G 1/2 G 1/2 G 1/2 G 1/2 G 3/4 G 3/4 G 3/4 G 3/4	PN 16 16 16 16 16 16	Sealing material NBR EPDM FKM NBR EPDM FKM	Type (Valve without solenoid coil) PGV-731-B77-1/2BN PGV-731-B77-1/2PN PGV-731-B77-1/2FN PGV-731-B77-3/4BN PGV-731-B77-3/4FN	1 Order number 624901 624902 624903 624911 624912 624913	.4305 Prid
P 53 Function "B" - open in 0-r without control pressure Version Version 2/2-way valve pressure operated by own medium Permitted operating pressure	Controlpres- sure [bar] ≥ Excess operating	se and impact-fr s and fluids DN 15 15 15 20 20 20 20 25	kv-value water [m³/h] 5.6 5.6 5.6 7.6 7.6 7.6 7.6 16.8	G G 1/2 G 1/2 G 1/2 G 1/2 G 3/4 G 3/4 G 3/4 G 3/4 G 1	PN 16 16 16 16 16 16 16 16	Sealing material NBR EPDM FKM NBR EPDM FKM NBR	Type (Valve without solenoid coil) PGV-731-B77-1/2BN PGV-731-B77-1/2PN PGV-731-B77-1/2FN PGV-731-B77-3/4BN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-1BN	1 Order number 624901 624902 624903 624911 624912 624913 624921	.4305 Price 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
p 53 Function "B" - open in 0-r without control pressure Version Version 2/2-way valve pressure operated by own medium Permitted operating pressure	Controlpres- sure [bar]	se and impact-fr s and fluids DN 15 15 15 20 20 20 20 25 25 25	Kv-value water [m³/h] 5.6 5.6 7.6 7.6 7.6 7.6 16.8 16.8	G G 1/2 G 1/2 G 1/2 G 3/4 G 3/4 G 3/4 G 3/4 G 1 G 1	PN 16 16 16 16 16 16 16 16	Sealing material NBR EPDM FKM NBR EPDM FKM NBR EPDM	Type (Valve without solenoid coil) PGV-731-B77-1/2BN PGV-731-B77-1/2PN PGV-731-B77-1/2FN PGV-731-B77-3/4BN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-1BN PGV-731-B77-1PN	1 Order number 624901 624902 624903 624911 624912 624913 624921 624922	.4305 Price 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
p 53 Function "B" - open in 0-r without control pressure Version Version 2/2-way valve pressure operated by own medium Permitted operating pressure	Controlpres- sure [bar] ≥ Excess operating	se and impact-fr s and fluids DN 15 15 15 20 20 20 20 25 25 25 25	Kv-value water [m³/h] 5.6 5.6 5.6 7.6 7.6 7.6 7.6 16.8 16.8 16.8	G G 1/2 G 1/2 G 1/2 G 1/2 G 3/4 G 3/4 G 3/4 G 1 G 1 G 1 G 1 G 1	PN 16 16 16 16 16 16 16 16 16 16	Sealing material NBR EPDM FKM NBR EPDM FKM FKM	Type (Valve without solenoid coil) PGV-731-B77-1/2BN PGV-731-B77-1/2FN PGV-731-B77-1/2FN PGV-731-B77-3/4BN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-1BN PGV-731-B77-1PN PGV-731-B77-1FN	1 Order number 624901 624902 624903 624913 624912 624913 624921 624922 624923	.4305 Prie 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
p 53 Function "B" - open in 0-r without control pressure Version Version 2/2-way valve pressure operated by own medium Permitted operating pressure	Controlpres- sure [bar] ≥ Excess operating pressure	se and impact-fr s and fluids DN 15 15 15 15 20 20 20 20 25 25 25 25 32	Kv-value water [m³/h] 5.6 5.6 5.6 7.6 7.6 7.6 16.8 16.8 16.8 16.8 21	G G 1/2 G 1/2 G 1/2 G 3/4 G 3/4 G 3/4 G 1 G 1 G 1 G 1 G 1 G 1 G 1 J 1/4	PN 16 16 16 16 16 16 16 16 16 16	Sealing material NBR EPDM FKM NBR EPDM FKM NBR EPDM FKM NBR	Type (Valve without solenoid coil) PGV-731-B77-1/2BN PGV-731-B77-1/2PN PGV-731-B77-1/2FN PGV-731-B77-3/4BN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-1BN PGV-731-B77-1FN PGV-731-B77-1FN	1 Order number 624901 624902 624903 624911 624912 624913 624921 624922 624923 624931	.4305 Prid 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
p 53 Function "B" - open in 0-r without control pressure Version Version 2/2-way valve pressure operated by own medium Permitted operating pressure	Controlpres- sure [bar] ≥ Excess operating pressure	se and impact-fr s and fluids DN 15 15 15 20 20 20 20 25 25 25 25 32 32 32	Kv-value water [m³/h] 5.6 5.6 5.6 7.6 7.6 7.6 16.8 16.8 16.8 21 21	G G 1/2 G 1/2 G 1/2 G 1/2 G 3/4 G 3/4 G 3/4 G 3/4 G 1 G 1 G 1 G 1 G 1 G 1 J 1/4 G 1 1/4	PN 16 16 16 16 16 16 16 16 16 16	Sealing material NBR EPDM FKM NBR EPDM FKM NBR EPDM FKM NBR EPDM	Type (Valve without solenoid coil) PGV-731-B77-1/2BN PGV-731-B77-1/2FN PGV-731-B77-1/2FN PGV-731-B77-3/4BN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-1PN PGV-731-B77-1FN PGV-731-B77-1FN PGV-731-B77-5/4BN PGV-731-B77-5/4PN	1 Order number 624901 624902 624903 624911 624912 624913 624921 624922 624923 624931 624932	.4305 Prie 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
p 53 Function "B" - open in 0-r without control pressure Version Version 2/2-way valve pressure operated by own medium Permitted operating pressure	Controlpres- sure [bar] ≥ Excess operating pressure	se and impact-fr s and fluids DN 15 15 15 20 20 20 20 20 25 25 25 25 32 32 32 32	Kv-value water [m ³ /h] 5.6 5.6 5.6 7.6 7.6 7.6 16.8 16.8 16.8 16.8 21 21 21	G G 1/2 G 1/2 G 1/2 G 3/4 G 3/4 G 3/4 G 3/4 G 1 G 1 G 1 G 1 G 1 G 1 J 1/4 G 1 1/4 G 1 1/4	PN 16 16 16 16 16 16 16 16 16 16	Sealing material NBR EPDM FKM NBR EPDM FKM NBR EPDM FKM FKM	Type (Valve without solenoid coil) PGV-731-B77-1/2BN PGV-731-B77-1/2FN PGV-731-B77-3/4BN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-1PN PGV-731-B77-1FN PGV-731-B77-5/4FN PGV-731-B77-5/4FN	1 Order number 624901 624902 624903 624911 624912 624913 624921 624923 624931 624933	.4305 Prid Prid O.
P 53 Function "B" - open in 0-r without control pressure Version Version 2/2-way valve pressure operated by own medium Permitted operating pressure	Controlpres- sure [bar] ≥ Excess operating pressure	se and fluids s and fluids DN 15 15 15 20 20 20 20 20 20 20 25 25 25 25 25 25 32 32 32 32 32 40	Kv-value water [m³/h] 5.6 5.6 7.6 7.6 7.6 16.8 16.8 16.8 16.8 21 21 21 21 21 29.5	G 1/2 G 1/2 G 1/2 G 1/2 G 3/4 G 3/4 G 3/4 G 1 G 1 G 1 G 1 G 1 G 1 J/4 G 1 1/4 G 1 1/4 G 1 1/2	PN 16 16 16 16 16 16 16 16 16 16	Sealing material NBR EPDM FKM NBR EPDM FKM NBR EPDM FKM NBR	Type (Valve without solenoid coil) PGV-731-B77-1/2BN PGV-731-B77-1/2PN PGV-731-B77-1/2FN PGV-731-B77-3/4BN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-1BN PGV-731-B77-1FN PGV-731-B77-5/4FN PGV-731-B77-5/4BN PGV-731-B77-5/4BN PGV-731-B77-5/4FN PGV-731-B77-5/4FN PGV-731-B77-6/4BN	1 Order number 624901 624902 624903 624911 624912 624921 624923 624923 624923 624933 624933 624933 624941	.4305 Price 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
P 53 Function "B" - open in 0-r without control pressure Version Version 2/2-way valve pressure operated by own medium Permitted operating pressure	Controlpres- sure [bar] ≥ Excess operating pressure	se and fluids s and fluids DN 15 15 15 20 20 20 20 20 20 20 20 20 25 25 25 25 25 32 32 32 32 32 40 40	Kv-value water [m³/h] 5.6 5.6 5.6 7.6 7.6 7.6 7.6 16.8 16.8 16.8 16.8 21 21 21 21 21 29.5 29.5	G 1/2 G 1/2 G 1/2 G 1/2 G 3/4 G 3/4 G 3/4 G 1 G 1 G 1 G 1 G 1 G 1 J/4 G 1 1/4 G 1 1/4 G 1 1/2 G 1 1/2 G 1 1/2	PN 16 16 16 16 16 16 16 16 16 16	Sealing material NBR EPDM FKM NBR EPDM FKM NBR EPDM FKM NBR EPDM	Type (Valve without solenoid coil) PGV-731-B77-1/2BN PGV-731-B77-1/2FN PGV-731-B77-3/4BN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-5/4FN PGV-731-B77-5/4FN PGV-731-B77-5/4FN PGV-731-B77-5/4FN PGV-731-B77-5/4FN PGV-731-B77-6/4BN PGV-731-B77-6/4PN	1 Order number 624901 624902 624903 624911 624912 624913 624921 624922 624923 624931 624932 624933 624931 624932	.4305 Pric
P 53 Function "B" - open in 0-p without control pressure Version Version 2/2-way valve pressure operated by own medium Permitted operating pressure	Controlpres- sure [bar] ≥ Excess operating pressure	se and fluids s and fluids DN 15 15 15 20 20 20 20 20 20 20 20 25 25 25 25 25 32 32 32 32 32 32 40 40 40	Kv-value water [m³/h] 5.6 5.6 5.6 7.6 7.6 7.6 7.6 16.8 16.8 16.8 16.8 21 21 21 21 21 21 21 21 29.5 29.5 29.5	G 1/2 G 1/2 G 1/2 G 1/2 G 3/4 G 3/4 G 3/4 G 1 G 1 G 1 G 1 G 1 G 1 I/4 G 1 1/4 G 1 1/4 G 1 1/2 G 1 1/2 G 1 1/2 G 1 1/2	PN 16 16 16 16 16 16 16 16 16 16	Sealing material NBR EPDM FKM NBR EPDM FKM NBR EPDM FKM NBR EPDM FKM	Type (Valve without solenoid coil) PGV-731-B77-1/2BN PGV-731-B77-1/2PN PGV-731-B77-1/2FN PGV-731-B77-3/4BN PGV-731-B77-3/4PN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-1BN PGV-731-B77-1FN PGV-731-B77-5/4BN PGV-731-B77-5/4BN PGV-731-B77-5/4PN PGV-731-B77-6/4PN PGV-731-B77-6/4PN PGV-731-B77-6/4PN PGV-731-B77-6/4PN PGV-731-B77-6/4PN PGV-731-B77-6/4PN PGV-731-B77-6/4PN	1 Order number 624901 624902 624903 624911 624912 624912 624912 624922 624923 624931 624932 624933 624941 624942 624943	.4305 Pride 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
P 53 Function "B" - open in 0-p without control pressure Version Version 2/2-way valve pressure operated by own medium Permitted operating pressure	Controlpres- sure [bar] ≥ Excess operating pressure	se and fluids s and fluids DN 15 15 15 20 20 20 20 20 20 25 25 25 25 25 32 32 32 32 40 40 40 40 50	Kv-value water [m³/h] 5.6 5.6 5.6 7.6 7.6 7.6 7.6 16.8 16.8 16.8 16.8 21 21 21 21 22,5 29,5 29,5 29,5 35	G G 1/2 G 1/2 G 1/2 G 3/4 G 3/4 G 3/4 G 3/4 G 1 G 1 G 1 G 1 G 1 J 1/4 G 1 1/4 G 1 1/4 G 1 1/2 G 1 1/2 G 1 1/2 G 1 1/2 G 1 1/2 G 2	PN 16 16 16 16 16 16 16 16 16 16	Sealing material NBR EPDM FKM NBR EPDM FKM NBR EPDM FKM NBR EPDM FKM NBR	Type (Valve without solenoid coil) PGV-731-B77-1/2BN PGV-731-B77-1/2PN PGV-731-B77-1/2FN PGV-731-B77-3/4BN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-5/4FN PGV-731-B77-5/4BN PGV-731-B77-5/4BN PGV-731-B77-5/4BN PGV-731-B77-5/4BN PGV-731-B77-5/4FN PGV-731-B77-6/4FN PGV-731-B77-2BN	1 Order number 624901 624902 624903 624911 624912 624913 624921 624922 624923 624931 624932 624931 624933 624931 624942 624943 624941	.4305 Pride 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
Function "B" - open in 0-p without control pressure Version 2/2-way valve pressure operated by own medium Permitted operating pressure	Controlpres- sure [bar] ≥ Excess operating pressure max. 16	se and impact-fr s and fluids DN 15 15 15 20 20 20 20 20 20 20 25 25 25 25 32 32 32 32 32 32 40 40 40 40 50 50 50	Kv-value water [m³/h] 5.6 5.6 7.6 7.6 7.6 7.6 16.8 16.8 16.8 16.8 21 21 21 21 29.5 29.5 29.5 29.5 35 35	G G 1/2 G 1/2 G 1/2 G 3/4 G 3/4 G 3/4 G 3/4 G 1 G 1 G 1 G 1 G 1 G 1 G 1 G 1 J/4 G 1 1/4 G 1 1/4 G 1 1/4 G 1 1/2 G 1 1/2 G 1 1/2 G 2 G 2 G 2 G 2	PN 16 16 16 16 16 16 16 16 16 16 16 16 16	Sealing material NBR EPDM FKM NBR EPDM FKM NBR EPDM FKM NBR EPDM FKM NBR EPDM FKM NBR	Type (Valve without solenoid coil) PGV-731-B77-1/2BN PGV-731-B77-1/2PN PGV-731-B77-3/4BN PGV-731-B77-3/4PN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-1PN PGV-731-B77-1FN PGV-731-B77-5/4BN PGV-731-B77-5/4FN PGV-731-B77-5/4FN PGV-731-B77-6/4PN PGV-731-B77-6/4FN PGV-731-B77-6/4FN PGV-731-B77-2BN PGV-731-B77-2PN PGV-731-B77-2PN	1 Order number 624901 624902 624903 624913 624912 624913 624921 624922 624923 624931 624932 624931 624943 624941 624943 6249451 624951	.4305 Prictor 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
Function "B" - open in 0-p without control pressure Version 2/2-way valve pressure operated by own medium Permitted operating pressure	Controlpres- sure [bar] ≥ Excess operating pressure max. 16	se and impact-fr s and fluids DN 15 15 15 20 20 20 20 20 20 25 25 25 25 32 32 32 32 32 32 32 32 32 32 32 32 32	kv-value water [m³/h] 5.6 5.6 7.6 7.6 7.6 7.6 16.8 16.8 16.8 16.8 21 21 21 21 29.5 29.5 29.5 35 35 35 35 35 35 35	G G 1/2 G 1/2 G 1/2 G 3/4 G 3/4 G 3/4 G 3/4 G 1 G 1 G 1 G 1 G 1 G 1 G 1 I/4 G 1 1/4 G 1 1/4 G 1 1/2 G 1 1/2 G 2 G 2 G 2 G 2 G 2 G 2 G 2 C	PN 16 16 16 16 16 16 16 16 16 16 16 16 16	Sealing material NBR EPDM FKM NBR EPDM FKM NBR EPDM FKM NBR EPDM FKM NBR EPDM FKM NBR EPDM FKM KM KM KBR EPDM FKM	Type (Valve without solenoid coil) PGV-731-B77-1/2BN PGV-731-B77-1/2FN PGV-731-B77-3/4BN PGV-731-B77-3/4BN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-3/4FN PGV-731-B77-1PN PGV-731-B77-1PN PGV-731-B77-5/4BN PGV-731-B77-5/4FN PGV-731-B77-6/4FN PGV-731-B77-6/4FN PGV-731-B77-6/4FN PGV-731-B77-2PN PGV-731-B77-2PN PGV-731-B77-2FN ium operated pressure regulator values of the start of the	1 Order number 624901 624902 624903 624911 624912 624912 624921 624922 624923 624931 624932 624933 624941 624942 624943 624951 624952 624953	.4305 Pride 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.





Illustration



Dimension	5							
DN	G	L	I	N	L1	L2	Н	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 11/4	112	19	56	41.5	85.5	88	50
40	G 11/2	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 2/2-way solenoid valve 2/2-way valve pressure operated Product name 2/2-way solenoid valve servo-operated by external or own medium pressure operated Product type EGV EGV PGV Function "A" normally closed "Z" normally closed "B" normally open Nominal diameter DN 12 DN 12 DN 12 Pipe thread (ISO 228) G 1/2 (other connectors on request) Port size Ambient temperature -20 °C to +60 °C (others on request) for NBR: -10 °C to +90 °C for FKM and EPDM: -10 °C to +130 °C (for exceptions see table) Medium temperature Medium viscosity up to ca. 20 mm²/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 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. Nominal pressure (bar) 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 Pressure range 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



rice roup	53 Function "A" normally Low noise and impact-free closing, for neutral, gaseous or medium												Stainless steel 1.4305		
Version							Kv-value water [m ³ /h]	G	PN	Possible type of current	Sealing material	Type (Valve without solenoid coil)	Order number	Price	
						12	2.2	G 1/2	16/8	DC	NBR	EGV-813-A79-1/2BN-00	623052	0. r.	
6	T] 👌	Valve without solenoid coil Permitted operating pressure 0.3 bar up to value according to table below.	12	2.2	G 1/2	16/8	DC	EPDM	EGV-813-A79-1/2PN-00	623054	0. r.	
	RP	, 	1			12	2.2	G 1/2	16/8	DC	FKM	EGV-813-A79-1/2FN-00	623056	0. r.	
Fun	ction														
												ting seat is closed. Pressure thu ne surface holds the membrane			

Illustration







Alternating current (AC) operation is Possible with use of cable socket type ESG with integrated bridge rectifier.

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

Permitted Excess Operating Pressure PB

		PN	Cor	nbinable	solenoid	coil	Permitted excess operating pressure PB [bar] at ambient temperature +60 °C														
				Nomi		ominal power P ₂₀		AC 50 Hz		AC 60 Hz			DC			DC			DC		
DN	type		type	AC 50 Hz	AC 60 Hz	DC	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		
				[VA]	[VA]	[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
		16/8	E22L.	-	-	2,5	-	-	-	-	-	-	-	-	-	8	6	4	9	8	7
12	EGV-813-A		E22M.	-	-	5	-	-	-	-	-	-	-	-	-	16	16	16	16	16	16
12	EGV-813-A		E22H.	-	-	8	-	-	-	-	-	-	-	-	-	16	16	16	16	16	16
			E30P.	-	-	8	-	-	-	-	-	-	-	-	-	16	16	16	16	16	16



ce 53	Function "Z" closed in 0-position with existing auxiliary pressure at "	Low noise and impact for neutral, gaseous o									iless stee 1.4305				
	Version		DN	Kv-value water [m³/h]	G	PN	Possible type of current	Sealing material	Type (Valve without solenoid c	Order oil) number	Price				
	2(1)	Valve without solenoid coil Permitted operating pressure 0.3 bar up to value according	12	2.2	G 1/2	16	AC/DC	NBR	EGV-811-Z77-1/2BP-00	623351	o. r.				
		to table below, double-sided blocking. Permitted control pressure at "X":	12	2.2	G 1/2	16	AC/DC	EPDM	EGV-811-Z77-1/2PP-00	623353	0. r.				
QLC	1(2)	≥ Operating pressure, max. 16 bar	12	2.2	G 1/2	16	AC/DC	FKM	EGV-811-Z77-1/2FP-00	623355	0. r.				
unction															
			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.												
			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)												
llustratio	on														
					09	76	S32	<u>\$13</u>	G1/8 used the a on co of an e.g. o for ci A typ drain from netw Cable with 2 x 1 4 x 9 Both	e valves can also for dirty media b pplication, depen onstructional desi external medium compressed air, ontrolling the men ical application is age of condensa: compressed air orks. e socket adaptabl solenoid coil E22 80°, with E30 by 0° repositionable solenoid coils	y ding gn, i, mbrane. s the tion				

Permitted Excess Operating Pressure PB

				-																				
				Con	nbinable	solenoid	coil	Permitted excess operating pressure PB [bar] at ambient temperature +60 °C																
					Nominal power P ₂₀			AC 50 H	z		AC 60 H	z 🦳	A	DC	\bigcap	\square	DC			DC				
D	N	type	PN	type	AC 50 Hz [VA]	AC 60 Hz	DC	90 %U _N Mediu	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			
						[VA]	[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		
			16			E22L.	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.
1	, E	GV-811-Z		E22M.	5.5	5	5	-	-	-	-	-	-	-	16	16	16	16	16	16	16	16		
11	2 5	EGV-011-2		E22H.	-	-	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		
				E30P.	12	10.5	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		

55



