

ACTUATION	BODY MATERIAL	FUNCTION	CONNECTION	ORIFICE (MM)	MAX. PRESSURE (BAR)	PAGE
Magnalift	Brass body	Normally closed	3/8	15	16.0	64
			1/2	15	16.0	64
			3/4	15	16.0	64
			1	15 to 25	16.0	64
Pilot operated	Brass body	Normally closed	1/4	12	12.0	66
			3/8	12	12.0	66
			1/2	12	12.0	66
			3/4	18 to 20	16.0	66
			1	18 to 25	16.0	66
			1 1/4	28	16.0	68
			1 1/2	40	16.0	68
			2	40	16.0	68
		Normally open	3/4	20	16.0	68
			1	25	16.0	68
			1 1/4	28	16.0	68
			1 1/2	40	12.0	68
			2	40	12.0	68

Notes:

Magnalift valves: pressure range from 0 to max pressure.

Pilot operated valves: pressure range from 0.3 to 0.5 bar to max. pressure (refer to tables).

Anti-water hammer valves

2/2

Applications

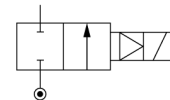
Magnalift valves are recommended in applications where the minimum pressure cannot be held at a sufficient level, i.e. where the effective supply pressure may be zero. This concerns applications like filling/emptying tanks by gravity and any other applications with a minimum pressure of zero.



Magnalift

Port size	Orifice (mm)	Flow factors (L/min)		Admissible differential pressure bar				Fluid temp. °C	Seat disc	Reference numbers				OR	Power consumption (W)		Wt. (g)	Dim ref.
		kv	Qmax	Min		Max				Global valve reference	Valve reference no.	Housing	Coil		DC	AC		
G																		

Normally closed



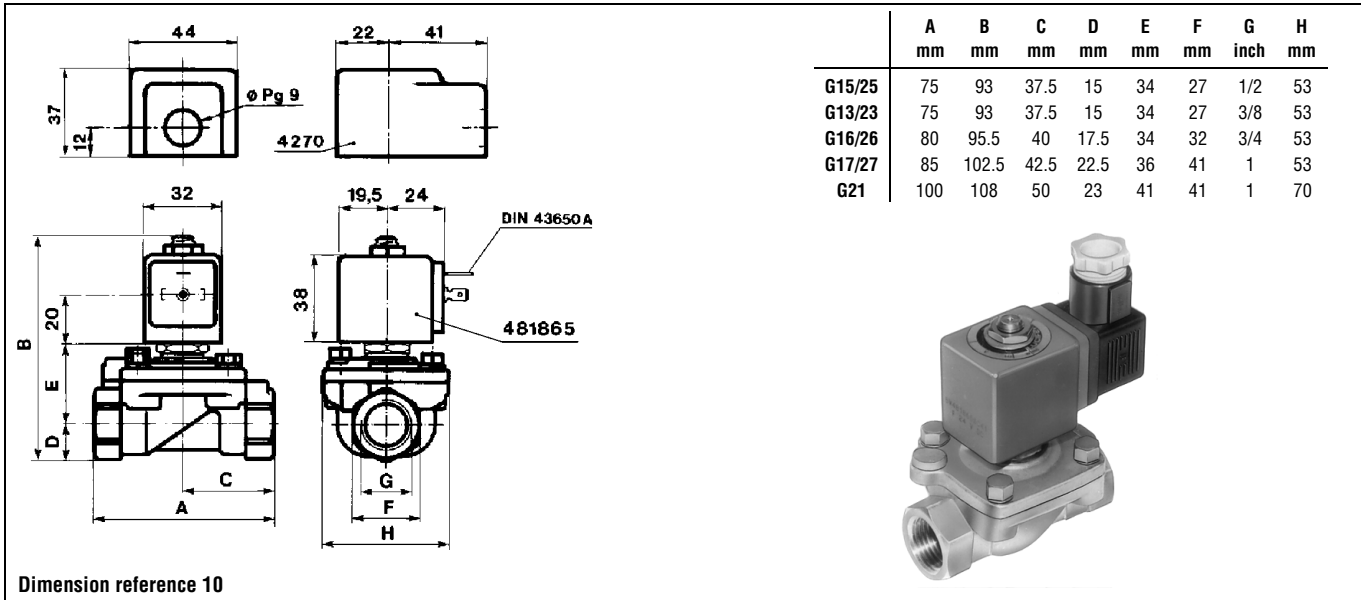
Brass body/Pipe mounting

3/8	15	65	65	0	10	-	75	NBR	7221GBG3VNH0	221G1330	2995	481865 ¹	9	-	630	10
	15	65	65	0	10	10	65	NBR			-	492070 ¹	8	8	1000	
	15	65	65	0	10	10	75	NBR			-	492190 ¹	9	11	1000	
	15	65	65	0	-	16	75	NBR	7221GBG3VN00	221G13	2995	481865	-	8	630	10
	15	65	65	0	-	16	75	NBR			4270	481000	-	8	750	
1/2	15	65	65	0	7	-	75	NBR			4270	486265	14	-	760	
	15	65	65	0	10	-	75	NBR	7221GBG4VNH0	221G1530	2995	481865 ¹	9	-	640	10
	15	65	65	0	10	10	65	NBR			-	492070 ¹	8	9	1010	
	15	65	65	0	10	10	75	NBR			-	492190 ¹	9	11	1010	
	15	65	65	0	-	16	75	NBR	7221GBG4VN00	221G15	2995	481865	-	8	640	10
3/4	15	65	65	0	-	16	75	NBR			4270	481000	-	8	760	
	15	65	65	0	7	-	75	NBR			4270	486265	14	-	770	
	15	80	80	0	-	10	75	NBR	7221GBG51NC0	221G1610 ²	2995	481865	-	8	670	10
	15	80	80	0	-	16	75	NBR			4270	481000	-	8	790	
	15	80	80	0	7	-	75	NBR			4270	486265	14	-	800	
1	15	80	80	0	10	-	75	NBR	7221GBG51NCH	221G1631 ²	2995	481865 ¹	9	-	670	10
	15	80	80	0	10	10	65	NBR			-	492070 ¹	8	8	1040	
	15	80	80	0	10	10	75	NBR			-	492190 ¹	9	11	1040	
	15	80	80	0	-	16	75	NBR	7221GBG61NC0	221G1710 ²	2995	481865	-	8	810	10
	15	80	80	0	-	16	75	NBR			4270	481000	-	8	930	
	15	80	80	0	7	-	75	NBR			4270	486265	14	-	940	
	15	80	80	0	10	-	75	NBR	7221GBG61NCH	221G1731 ²	2995	481865 ¹	9	8	810	10
	15	80	80	0	10	10	65	NBR			-	492070 ¹	8	8	1180	
	15	80	80	0	10	10	75	NBR			-	492190 ¹	9	11	1180	
	25	160	160	0	-	16	75	NBR	7221GBG64NC0	221G2110 ²	2995	481865	-	8	1170	10
1	25	160	160	0	-	16	75	NBR			4270	481000	-	8	1290	
	25	160	160	0	6	-	75	NBR			4270	486265	14	-	1300	
	25	160	160	0	10	-	75	NBR	7221GBG64NCH	221G2131 ²	2995	481865 ¹	9	-	1170	10
	25	160	160	0	10	10	65	NBR			-	492070 ¹	8	8	1540	
	25	160	160	0	10	10	75	NBR			-	492190 ¹	9	11	1540	

Notes:

- Valves with model number ending by 30 or 31 are mainly equipped with electrical parts EEx me II T3/T4 No. 492190 or EEx m II T4/T5 No. 492070 or with standard DC coils.
- 4 position selector for controlled closure rate

Anti-water hammer valves 2/2 - Magnalift



Anti-water hammer valves

2/2

Applications

Pilot operated valves are ideally suited to shut-off applications of liquids with high flow and pressure. A minimum operating pressure is required: refer to tables.



Pilot operated

Port size	Orifice (mm)	Flow factors (L/min)		Admissible differential pressure bar			Fluid temp. °C	Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
									Global valve reference	Valve reference no.	Housing	Coil					
G		kv	Qmax	Min	Max								DC	AC			
				DC	AC												



Brass body/Pipe mounting

1/4	12	30	30	0.3	12	12	100	FKM	7321KBG2SVW0	321K4106	2995	481865	9	8	490		73	
	12	30	30	0.3	12	12	100	FKM			4270	481000	8	8	610			
	12	30	30	0.3	12	12	100	FKM	7321KBG2SVMW	321K4156	1	2995	481865	9	8	490		73
	12	30	30	0.3	12	12	100	FKM			4270	481000	8	8	610			
3/8	12	45	45	0.3	12	12	100	FKM	7321KBG3TVW0	321K4306	2995	481865	9	8	490		73	
	12	45	45	0.3	12	12	100	FKM			4270	481000	8	8	610			
	12	45	45	0.3	12	12	100	FKM	7321KBG3TVMW	321K4356	1	2995	481865	9	8	490		73
	12	45	45	0.3	12	12	100	FKM			4270	481000	8	8	610			
1/2	12	50	50	0.3	12	12	100	FKM	7321KBG4TVW0	321K4506	2995	481865	9	8	490		73	
	12	50	50	0.3	12	12	100	FKM			4270	481000	8	8	610			
	12	50	50	0.3	12	12	100	FKM	7321KBG4TVMW	321K4556	1	2995	481865	9	8	490		73
	12	50	50	0.3	12	12	100	FKM			4270	481000	8	8	610			
3/4	18	100	100	0.3	12	12	100	FKM	7321KBG51VW0	321K4606	2995	481865	9	8	700		73	
	18	100	100	0.3	12	12	100	FKM			4270	481000	8	8	820			
	18	100	100	0.3	12	12	100	FKM	7321KBG51VMW	321K4656	1	2995	481865	9	8	700		73
	18	100	100	0.3	12	12	100	FKM			4270	481000	8	8	820			
	20	135	135	0.3	16	16	75	NBR	7321GBG53NMC	E321G3610	2	2995	481865	9	8	1430	2	11
	20	135	135	0.3	16	16	75	NBR			4270	481000	8	8	1550	2		
1	18	110	110	0.3	12	12	100	FKM	7321KBG62VW0	321K4706	2995	481865	9	8	845		73	
	18	110	110	0.3	12	12	100	FKM			4270	481000	8	8	965			
	18	110	110	0.3	12	12	100	FKM	7321KBG62VMW	321K4756	1	2995	481865	9	8	845		73
	18	110	110	0.3	12	12	100	FKM			4270	481000	8	8	965			
	25	180	180	0.3	16	16	75	NBR	7321GBG64NMC	E321G3710	2	2995	481865	9	8	1230	2	11
	25	180	180	0.3	16	16	75	NBR			4270	481000	8	8	1350	2		

Table continued on page 68

Notes:

* See Electrical Parts Group table at end of section

1. Manual override standard

2. Manual override and 4 position selector for controlled closure rate standard - without manual override and 4 position selector on request: same type without suffix 10, e.g. : E321G36

Anti-water hammer valves 2/2 - Pilot operated

	A mm	B mm	C mm	D mm	E mm	F mm	G inch	H mm
G37	100	121	50	23	54	41	1	70
G36	100	121	50	23	54	41	3/4	70
G38	110	137.5	55	33	60.5	60	1 1/4	99
G39	140	144	75	33	67	60	1 1/2	99
G40	150	158.5	80	41.5	73	75	2	99

Dimension reference 11

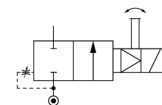
	A inch	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	Dia. mm
K41	1/4	25	50	6.2	29	27	5.5	93.5	39	73.5	40
K43	3/8	25	50	6.2	29	27	5.5	93.5	39	73.5	40
K45	1/2	27.5	55	6.2	29	27	5.5	93.5	39	73.5	40
K46	3/4	40	80	9	36.5	32	8	109	46	81	56
K47	1	42.5	85	14.2	36.5	41	8	109	56	81	56

Dimension reference 73

Anti-water hammer valves 2/2 - Pilot operated

Port size	Orifice (mm)	Flow factors (L/min)		Admissible differential pressure bar			Fluid temp. °C	Seat disc	Reference numbers				Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
									Global valve reference	Valve reference no.	Housing	Coil					
G		kv	Qmax	Min	Max								DC	AC			

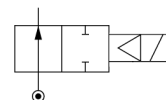
Normally closed



Brass body/Pipe mounting

1 1/4	28	280	280	0.3	16	16	75	NBR	7321GBG76NMC	E321G3810	1	2995	481865	9	8	1860	2	11
	28	280	280	0.3	16	16	75	NBR				4270	481000	8	8	1980	2	
1 1/2	40	420	420	0.3	10	16	75	NBR	7321GBG88NMC	E321G3910	1	2995	481865	9	8	2560	2	11
	40	420	420	0.3	8.5	16	75	NBR				4270	481000	8	8	2680	2	
	40	420	420	0.3	16	16	75	NBR				4270	486265	14	14	2700	2	
2	40	540	540	0.3	10	16	75	NBR	7321GBG99NMC	E321G4010	1	2995	481865	9	8	2900	2	11
	40	540	540	0.3	8.5	16	75	NBR				4270	481000	8	8	3040	2	
	40	540	540	0.3	16	16	75	NBR				4270	486265	14	14	3050	2	

Normally open



Brass body/Pipe mounting

3/4	20	135	135	0.3	16	16	75	NBR	7322GBG53NC0	322G3610	2	2995	481865	9	8	1430		11
	20	135	135	0.3	16	16	75	NBR				4270	481000	8	8	1550		
1	25	185	185	0.3	16	16	75	NBR	7322GBG64NC0	322G3710	2	2995	481865	9	8	1230		11
	25	185	185	0.3	16	16	75	NBR				4270	481000	8	8	1350		
1 1/4	28	270	270	0.3	16	16	75	NBR	7322GBG76NC0	322G3810	2	2995	481865	9	8	1860		11
	28	270	270	0.3	16	16	75	NBR				4270	481000	8	8	1980		
1 1/2	40	425	425	0.3	12	12	75	NBR	7322GBG88NC0	322G3910	2	2995	481865	9	8	2560		11
	40	425	425	0.3	12	12	75	NBR				4270	481000	8	8	2680		
2	40	540	540	0.3	12	12	75	NBR	7322GBG99NC0	322G4010	2	2995	481865	9	8	2900		11
	40	540	540	0.3	12	12	75	NBR				4270	481000	8	8	3040		

Notes:

* See Electrical Parts Group table at end of section

1. Manual override and 4 position selector for controlled closure rate standard - without manual override and 4 position selector on request: same type without suffix 10, e.g. : E321G36

2. 4 position selector for controlled closure rate standard

Anti-water hammer valves 2/2 - Pilot operated

	A mm	B mm	C mm	D mm	E mm	F mm	G inch	H mm
G37	100	121	50	23	54	41	1	70
G36	100	121	50	23	54	41	3/4	70
G38	110	137.5	55	33	60.5	60	1 1/4	99
G39	140	144	75	33	67	60	1 1/2	99
G40	150	158.5	80	41.5	73	75	2	99

Dimension reference 11

Electrical parts options with 2/2 anti-waterhammer valves for water and neutral liquids

El.part Group	Coil	Protection class	Protection class / Temperature class	Power		Coil Order No.	Coil Ref. No.	Connection	Housing Order No.	Housing Ref. No.	Ambient temp.	
				DC	AC						min.	max.
1	22 mm	IP 65	Class F	2.5 W	2 W	DA01	488980	for DIN plug	A0	8993	-40	50
		IP 65	Class F	2.5 W	2 W	DA02	481045	with DIN plug	A0	8993	-40	50
		IP 65	Class F	5 W	4 W	DA03	481180	for DIN plug	A0	8993	-40	50
		IP 65	Class F	5 W	4 W	DA04	481530	with DIN plug	A0	8993	-40	50
		IP 65	EEx m II T4	5 W	4 W	VA01	482605	with 1500mm cable	00	-	-40	50
		IP 65	EEx m II T5	2.5 W	2 W	VA02	482606	with 1500mm cable	00	-	-40	50
2	32 mm (Std)	IP 65	Class F	9 W	8 W	DZ02	481865	for DIN plug	N1	2995	-40	50
		IP 65		9 W	8 W	DZ03	482725	with DIN plug	N1	2995	-40	50
		IP 65	Class H	9 W	8 W	DZ04	492453	for DIN plug	N1	2995	-40	50
		IP 65		9 W	8 W	DZ05	492726	with DIN plug	N1	2995	-40	50
		IP 65	Class F, 50/60 Hz	-	9 W	DZ06	483510	for DIN plug	N1	2995	-40	50
		IP 65		-	9 W	DZ07	482635	with DIN plug	N1	2995	-40	50
		IP 65	EEx m II T4	9 W	8 W	HZ05	492670	with 3000mm cable	00	-	-40	40
		IP 65	Class H	14 W	14 W	DZ08	492425	for DIN plug	N1	2995	-40	50
	50 mm (Std)	IP 65		14 W	14 W	DZ09	492727	with DIN plug	N1	2995	-40	50
		IP10 / IP 44	Class F	8 W	8 W	EZ01	481000	screw-terminals	E0	4270	-40	50
		IP10 / IP 44	Class H	8 W	8 W	EZ02	485100	screw-terminals	E0	4270	-40	50
		IP10 / IP 44	Class H	14 W	14 W	EZ92	486265	screw-terminals	E0	4270	-40	50
		IP 67	Class F, M20x1.5	8 W	8 W	EZ01	481000	screw-terminals	G1	4538	-40	50
		IP 65	EEx m II T5/T4	9 W	8 W	VZ01	492070	with 1500mm cable	00	-	-40	40/65
		IP 67	EEx me II T4	8 W	8 W	HZ06	483371	for cable connection	00	-	-40	65
		IP 66	EEx me II T3/T4	11 W	9 W	VZ03	492190	for cable connection	00	-	-40	75/40
3	32 mm	IP 65	Class H	-	14 W	DZ08	492425	for DIN plug	N1	2995	-40	50
4	50 mm (impulse)	IP10 / IP 44	Class F	-	11 W	MZ01	484990	screw-terminals	E1	4269	-40	50
		IP10 / IP 44	Class F	13 W	-	MZ02	485400	screw-terminals	E1	4269	-40	50
5	50 mm	IP 54	EEx d IIC T4/T5/T6	8 W	8 W	HZ08	483250	for cable 1/2 NPT	00	-	-40	80/75/60
6	32 mm (Miniwatt)	IP 65	Class F	1.6 W	-	DZ10	482740	for DIN plug	N1	2995	-40	50
		IP 65	Class F	1.6W	-	DZ11	482745	with DIN plug	N1	2995	-40	50
	50 mm (Miniwatt)	IP 67	EEx me II T5	2.5 W	-	VZ04	491117	for cable connection	00	-	-40	65
		IP 67	EEx m II T5/T4	2.5 W	2.5 W	VZ05	492370	with 1500mm cable	00	-	-40	40/65
		IP 66	EEx me II T6/T5	2.5 W	2.5 W	VZ06	492390	for cable connection	00	-	-40	40/75
7	32 mm	IP 65	EEx ia II C T6	0.4 W	-	DZ12	483580.01	for DIN plug	N1	2995	-40	55
		IP 65		0.4 W	-	DZ13	483960.01	with DIN plug	N1	2995	-40	55
	50 mm	IP 66	EEx ia II C T6	0.4 W	-	VZ07	488650.01	for cable connection	00	-	-40	65
		IP 67		0.4 W	-	VZ08	488660.01	with 2000mm cable	00	-	-40	65
		IP 65		0.4 W	-	VZ09	488670.01	with DIN plug	00	-	-40	65

Note: This table is indicative only. Please contact your distributor to confirm your selection.