

Valves for water and neutral liquids

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ACTUATION	BODY MATERIAL	FUNCTION	CONNECTION	ORIFICE (MM)	MAX. PRESSURE (BAR)	PAGE
Direct operated	Brass body	Normally closed	1/8	1.5 to 3	20.0	46
			1/4	1.5 to 5	20.0	46
			3/8	4 to 6	10.0	48
			1/2	8.5 to 11	4.0	48
			SB	1.5 to 3	20.0	50
		Normally open	1/4	1.5 to 2.5	20.0	48
		Magnetic latch control	1/4	5	5.0	50
Magnalift	Brass body	Normally closed	3/8	15	16.0	52
			1/2	15	16.0	52
			3/4	15	16.0	52
			1	15 to 25	16.0	52
		Normally open	3/8	15	8.5	54
			1/2	15	8.5	54
			3/4	19	8.5	54
			1	19 to 25	8.5	54
	303 Stainless steel body	Normally closed	3/8	15	7.0	54
			1/2	15	7.0	54
			3/4	19	7.0	54
		Normally open	3/8	16	8.5	54
			1/2	16	8.5	54
Pilot operated	Brass body	Normally closed	1/4	12	10.0	56
			3/8	12 to 13	20.0	56
			1/2	12 to 13	20.0	56
			3/4	18 to 20	20.0	56
			1	18 to 25	20.0	56
			1 1/4	28 to 35	16.0	58
			1 1/2	40	16.0	58
			2	40 to 50	16.0	58
			2 1/2	65	10.0	58
			3	75	10.0	58
			SB	14	40.0	60
		Normally open	3/8	13	20.0	58
			1/2	13	20.0	58
			3/4	20	20.0	58
			1	25	20.0	60
			1 1/4	28 to 35	16.0	60
			1 1/2	40	12.0	60
			2	40 to 50	12.0	60
			SB	14	40.0	60

Notes:

Direct operated and 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).

Valves for water and neutral liquids

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Applications

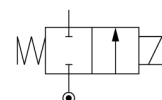
Wide range of valves suited to most industrial applications using liquids compatible with the indicated sealing materials. Typical applications can be found in general water supply, dispensing, industrial washing, laundry, heating-ventilation etc.



Direct 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

1/8	1.5	1.5	6	0	20	20	75	FKM	7121ZBG1GV00	-	2995	481865	9	8	270	2	7893
	1.5	1.5	6	0	20	20	75	FKM			4270	481000	8	8	390	2	
	1.5	1.5	6	0	20	20	75	FKM			2995	482730	7	6	270	2	
	1.5	0.9	2.4	0	12	20	75	FKM	-	121M14	8993	481180	5	4	150	1	1
	1.5	0.9	2.4	0	4	20	75	FKM			8993	488980	2.5	2	150	1	
	2	2	8	0	7	10	75	FKM	-	121M13	8993	481180	5	4	150	1	1
	2	2	8	0	2.5	10	75	FKM			8993	488980	2.5	2	150	1	
	2.5	2.8	8.5	0	10	10	75	FKM	7121ZBG1LV00	-	2995	481865	9	8	270	2	7893
	2.5	2.8	8.5	0	10	10	75	FKM			4270	481000	8	8	390	2	
	2.5	2.8	8.5	0	5	10	75	FKM			2995	482730	7	6	270	2	
	3	4.5	9	0	7	10	100	FKM	7121KBG1NVM0	121K1352 ¹	2995	481865	9	8	300	2	3
	3	4.5	9	0	8	10	120	FKM			4270	481000	8	8	420	2	
	3	4.5	9	0	10	10	120	FKM			4270	486265	14	14	430		
1/4	1.5	1.5	6	0	20	20	100	FKM	7121KBG2GV00	E121K0402	2995	481865	9	8	290	2	3
	1.5	1.5	6	0	20	20	120	FKM			4270	481000	8	8	410	2	
	2.5	3.5	8.5	0	7	14	100	FKM	7121KBG2LV00	121K0706	2995	481865	9	8	290	2	3
	2.5	3.5	8.5	0	9	14	120	FKM			4270	481000	8	8	410	2	
	2.5	3.5	8.5	0	14	14	120	FKM			4270	486265	14	14	420		
	2.5	3.5	8.5	0	7	14	100	FKM	7121KBG2LVM0	121K0756 ¹	2995	481865	9	8	290	2	3
	2.5	3.5	8.5	0	9	14	120	FKM			4270	481000	8	8	410	2	
	2.5	3.5	8.5	0	14	14	120	FKM			4270	486265	14	14	420		
	3	4.5	9	0	7	10	100	FKM	7121KBG2NV00	E121K0302	2995	481865	9	8	290	2	3
	3	4.5	9	0	8.5	10	120	FKM			4270	481000	8	8	410	2	
	3	4.5	9	0	10	10	120	FKM			4270	486265	14	14	420		
	3	4.5	9	0	7	10	100	FKM	7121KBG2NVM0	E121K0352 ¹	2995	481865	9	8	290	2	3
	3	4.5	9	0	8.5	10	120	FKM			4270	481000	8	8	410	2	
	3	4.5	9	0	10	10	120	FKM			4270	486265	14	14	420		

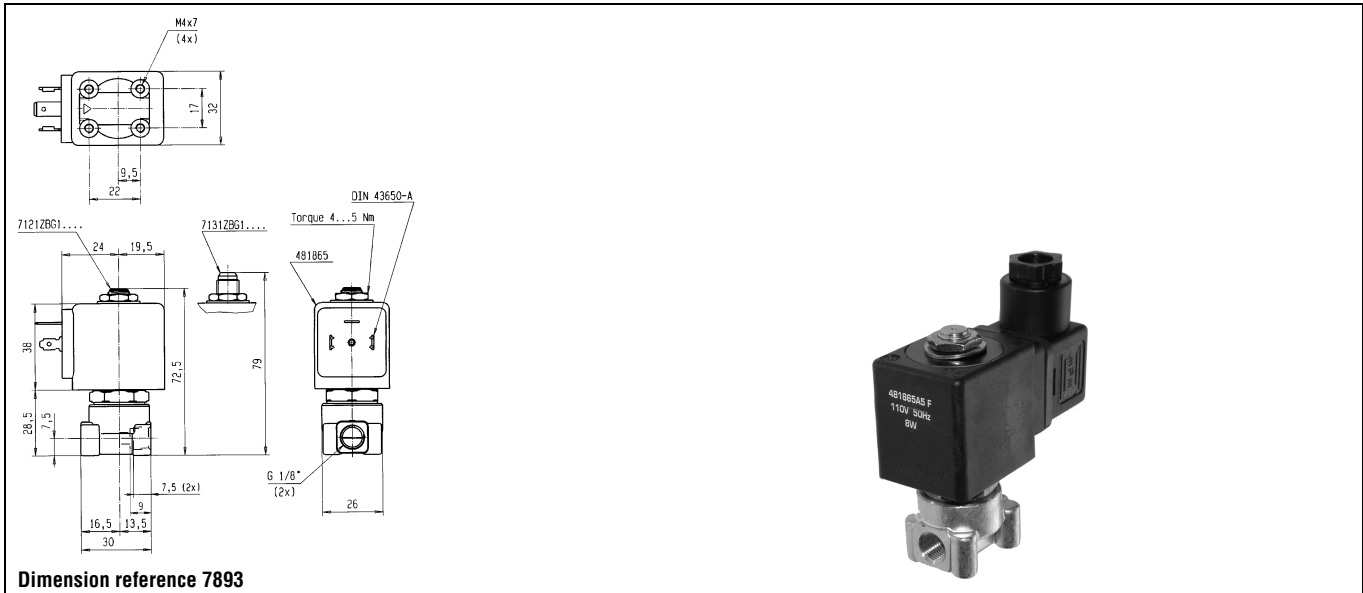
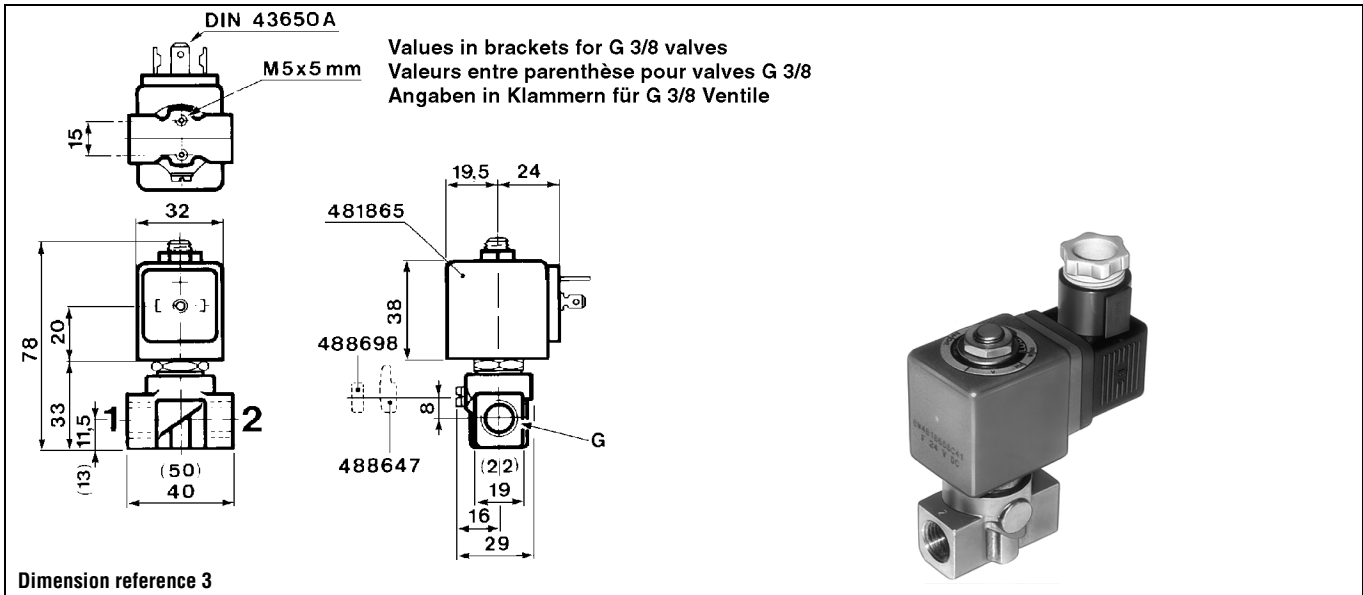
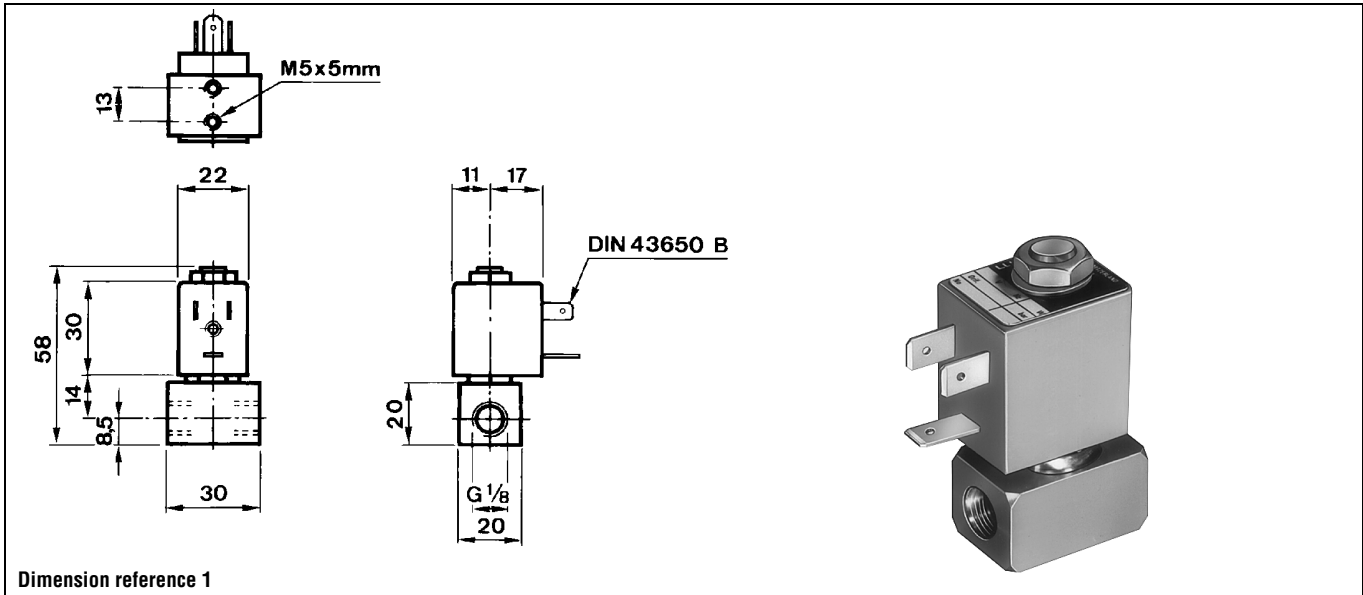
Table continued on page 48

Notes:

* See Electrical Parts Group table at end of section

1. Manual override standard

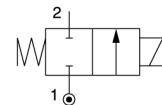
Valves for water and neutral liquids 2/2 - Direct operated



Valves for water and neutral liquids 2/2 - Direct 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			

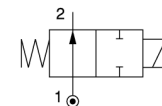
Normally closed



Brass body/Pipe mounting

1/4	4	7.5	10.5	0	4	10	100	FKM	7121KBG2QVM0	121K0250	1	2995	481865	9	8	290	2	3
	4	7.5	10.5	0	5	10	120	FKM				4270	481000	8	8	410	2	
	4	7.5	10.5	0	10	10	120	FKM				4270	486265	14	14	420		
	4	7.5	10.5	0	4	10	100	FKM	7121KBG2QV00	121K02		2995	481865	9	8	290	2	3
	4	7.5	10.5	0	5	10	120	FKM				4270	481000	8	8	410	2	
	4	7.5	10.5	0	10	10	120	FKM				4270	486265	14	14	420		
	5	11	11.5	0	2	7	100	FKM	7121KBG2SVM0	121K0150	1	2995	481865	9	8	290	2	3
	5	11	11.5	0	2.8	7	120	FKM				4270	481000	8	8	410	2	
	5	11	11.5	0	5	7	120	FKM				4270	486265	14	14	420		
	5	11	11.5	0	2	7	100	FKM	7121KBG2SV00	121K01		2995	481865	9	8	290	2	3
	5	11	11.5	0	2.8	7	120	FKM				4270	481000	8	8	410	2	
	5	11	11.5	0	5	7	120	FKM				4270	486265	14	14	420		
3/8	4	7.5	10.5	0	4	10	100	FKM	7121KBG3QV00	121K3206		2995	481865	9	8	340	2	3
	4	7.5	10.5	0	5	10	120	FKM				4270	481000	8	8	460	2	
	4	7.5	10.5	0	10	10	120	FKM				4270	486265	14	14	470		
	5	11	11.5	0	2	7	100	FKM	7121KBG3SV00	121K3106		2995	481865	9	8	340	2	3
	5	11	11.5	0	2.8	7	120	FKM				4270	481000	8	8	460	2	
	5	11	11.5	0	5	7	120	FKM				4270	486265	14	14	470		
	6	12	12.5	0	1.1	5	100	FKM	7121KBG3UV00	121K3306		2995	481865	9	8	340	2	3
	6	12	12.5	0	1.5	5	120	FKM				4270	481000	8	8	460	2	
	6	12	12.5	0	3	5	120	FKM				4270	486265	14	14	470	2	
	8.5	25	15	0	0.5	1.1	100	FKM	7121KBG42V00	E121K46		2995	481865	9	8	430	2	7
	8.5	25	15	0	0.5	2.2	120	FKM				4270	481000	8	8	550	2	
	8.5	25	15	0	1.2	4	120	FKM				4270	486265	14	14	560		
1/2	11	36	20	0	0.3	0.7	100	FKM	7121KBG44V00	E121K45		2995	481865	9	8	430	2	7
	11	36	20	0	0.35	1.2	120	FKM				4270	481000	8	8	550	2	
	11	36	20	0	0.7	2.5	120	FKM				4270	486265	14	14	560		

Normally open



Brass body/Pipe mounting

1/4	1.5	1.5	6	0	20	20	100	FKM	7122KBG2GV00	122K8406		2995	481865	9	8	290	2	3
	1.5	1.5	6	0	20	20	120	FKM				4270	481000	8	8	410	2	
	2.5	3	3.5	0	12	12	100	FKM	7122KBG2LV00	122K8306		2995	481865	9	8	290	2	3
	2.5	3	3.5	0	12	12	120	FKM				4270	481000	8	8	410	2	

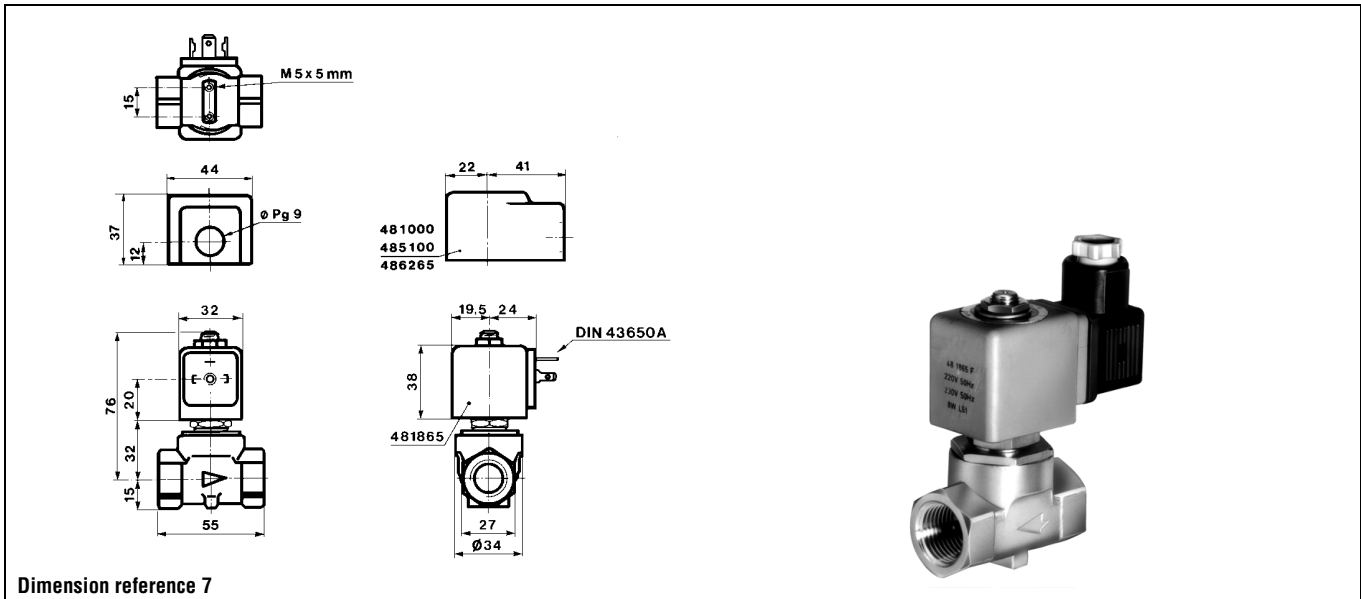
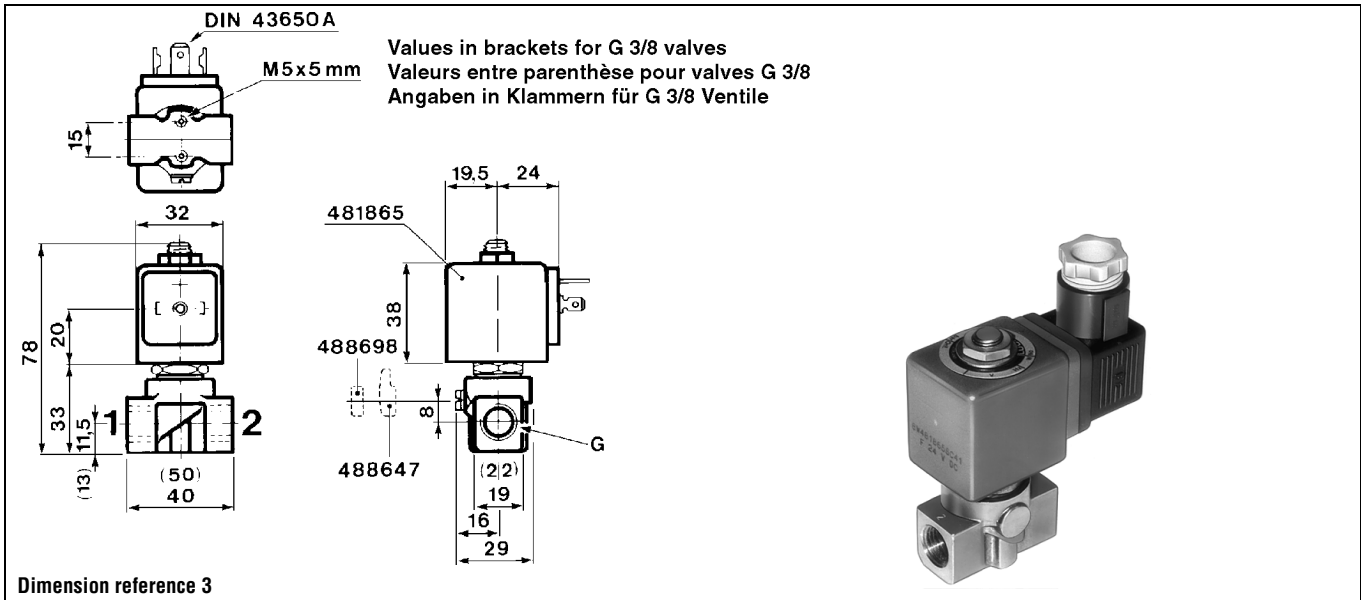
Table continued on page 50

Notes:

* See Electrical Parts Group table at end of section

1. Manual override standard

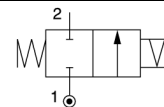
Valves for water and neutral liquids 2/2 - Direct operated



Valves for water and neutral liquids 2/2 - Direct 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			

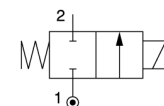
Magnetic latch control



Brass body/Pipe mounting

1/4	5	11	11.5	0	-	5	100	FKM	7125KBG2SV00	125K01	4269	484990	-	11	430	4	3
	5	11	11.5	0	1.5	-	100	FKM			4269	485400	13	-	430	4	

Normally closed



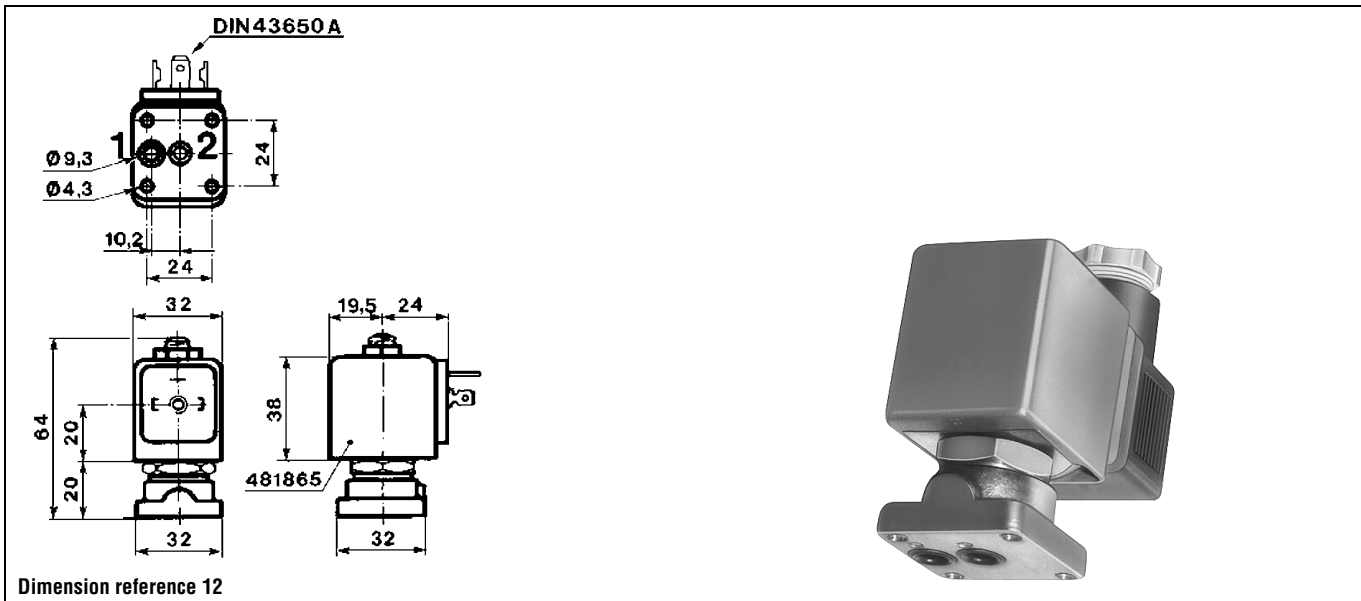
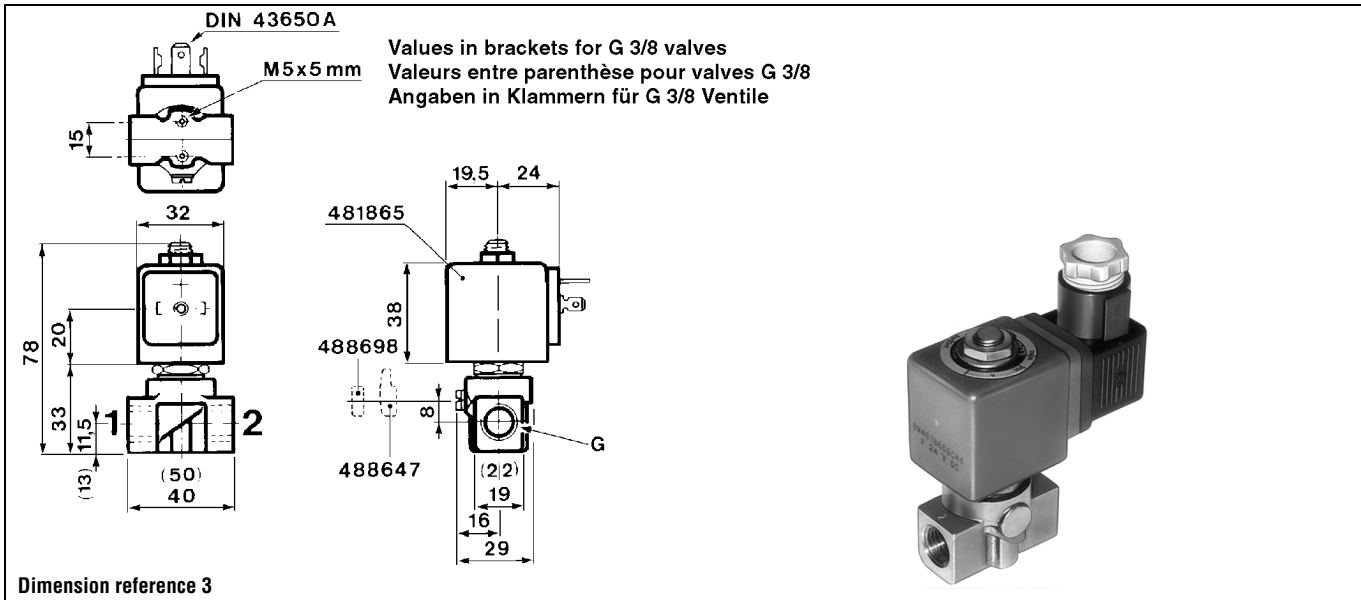
Brass body/Sub-base mounting

SB	1.5	1.6	6	0	20	20	100	FKM	7121FBF4GV00	E121F4406	2995	481865	9	8	250		12
	1.5	1.6	6	0	20	20	120	FKM			4270	481000	8	8	370		
	2.5	3.5	8.5	0	7	14	100	FKM	7121FBF4LV00	121F4706	2995	481865	9	8	250	2	12
	2.5	3.5	8.5	0	9	14	120	FKM			4270	481000	8	8	370	2	
	2.5	3.5	8.5	0	14	14	120	FKM			4270	486265	14	14	380	2	
	3	4.5	9	0	7	10	100	FKM	7121FBF4NV00	E121F4302	2995	481865	9	8	250	2	12
	3	4.5	9	0	8.5	10	120	FKM			4270	481000	8	8	370	2	
	3	4.5	9	0	10	10	120	FKM			4270	486265	14	14	380	2	

Notes:

* See Electrical Parts Group table at end of section

Valves for water and neutral liquids 2/2 - Direct operated



Valves for water and neutral liquids

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Applications

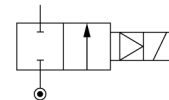
Magnalift valves are recommended in applications where the minimum pressure cannot be held at a sufficient level, i.e. where the effective supply pressure may be zero. This concerns applications like filling/emptying tanks by gravity and any other applications with a minimum pressure of zero.



Magnalift

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

Normally closed



Brass body/Pipe mounting

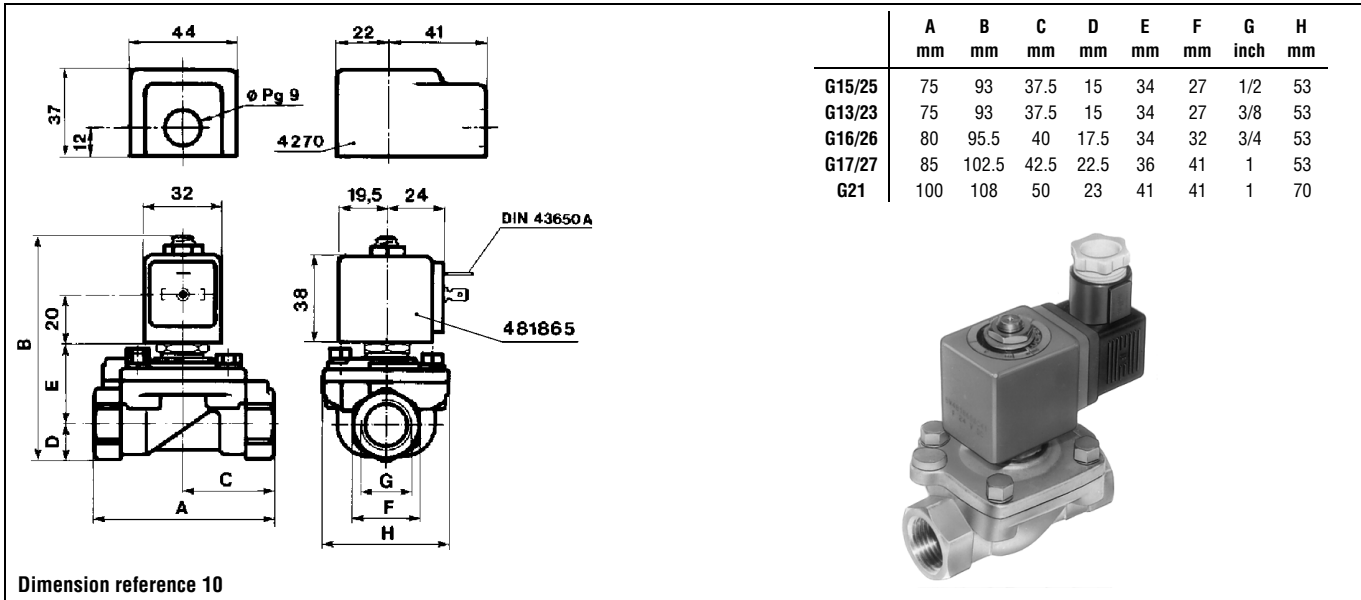
3/8	15	65	65	0	10	-	75	NBR	7221GBG3VNH0	221G1330	2995	481865 ¹	9	-	630	10
	15	65	65	0	10	10	65	NBR			-	492070 ¹	8	8	1000	
	15	65	65	0	10	10	75	NBR			-	492190 ¹	9	11	1000	
	15	65	65	0	-	16	75	NBR	7221GBG3VN00	221G13	2995	481865	-	8	630	10
	15	65	65	0	-	16	75	NBR			4270	481000	-	8	750	
	15	65	65	0	7	-	75	NBR			4270	486265	14	-	760	
1/2	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
	15	65	65	0	-	16	75	NBR			4270	481000	-	8	760	
	15	65	65	0	7	-	75	NBR			4270	486265	14	-	770	
3/4	15	80	80	0	10	-	75	NBR	7221GBG51NH0	221G1630	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	7221GBG51N00	221G16	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	7221GBG61NH0	221G1730	2995	481865 ¹	9	-	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	
	15	80	80	0	-	16	75	NBR	7221GBG61N00	221G17	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	
	25	170	160	0	10	-	75	NBR	7221GBG64NH0	221G2130	2995	481865 ¹	9	-	1170	10
	25	170	160	0	10	10	65	NBR			-	492070 ¹	8	8	1540	
	25	170	160	0	10	10	75	NBR			-	492190 ¹	9	11	1540	

Table continued on page 54

Notes:

1. 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.

Valves for water and neutral liquids 2/2 - Magnalift

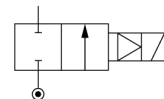


Valves for water and neutral liquids 2/2 - Magnalift

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.
									Global valve reference	Valve reference no.	Housing	Coil		DC	AC		
G		kv	Qmax	Min	DC	Max AC											

Brass body/Pipe mounting

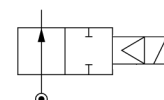
Normally closed



1	25	160	160	0	-	16	75	NBR	7221GBG64N00	221G21	2995	481865	-	8	1170	10
	25	160	160	0	-	16	75	NBR			4270	481000	-	8	1290	
	25	160	160	0	6	-	75	NBR			4270	486265	14	-	1300	

Brass body/Pipe mounting

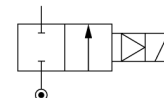
Normally open



3/8	15	43	43	0	8.5	8.5	85	FKM	72228BG3TV00	222G3306	4270	486265	14	14	940	102
1/2	15	58	58	0	8.5	8.5	85	FKM	72228BG4UV00	222G3506	4270	486265	14	14	940	102
3/4	19	72	72	0	8.5	8.5	85	FKM	72228BG5VV00	222G3606	4270	486265	14	14	940	102

303 Stainless steel body/Pipe mounting

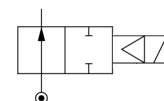
Normally closed



3/8	15	42	42	0	-	7	85	FKM	72218RG3TV00	221G5306	2995	481865	-	8	930	102
	15	42	42	0	-	7	85	FKM			4270	481000	-	8	1050	
	15	42	42	0	2.8	-	85	FKM			4270	486265	14	-	1060	
1/2	15	54	54	0	-	7	85	FKM	72218RG4UV00	221G5506	2995	481865	-	8	930	102
	15	54	54	0	-	7	85	FKM			4270	481000	-	8	1050	
	15	54	54	0	2.8	-	85	FKM			4270	486265	14	-	1060	
3/4	19	71	71	0	-	7	85	FKM	72218RG5VV00	221G5606	2995	481865	-	8	930	102
	19	71	71	0	-	7	85	FKM			4270	481000	-	8	1050	
	19	71	71	0	2.8	-	85	FKM			4270	486265	14	-	1060	

303 Stainless steel body/Pipe mounting

Normally open



3/8	16	43	43	0	8.5	8.5	85	FKM	72228RG3TV00	222G5306	4270	486265	14	14	-	102
1/2	16	58	58	0	8.5	8.5	85	FKM	72228RG4UV00	222G5506	4270	486265	14	14	1050	102

Valves for water and neutral liquids 2/2 - Magnalift

	A mm	B mm	C mm	D mm	E mm	F mm	G inch	H mm
G15/25	75	93	37.5	15	34	27	1/2	53
G13/23	75	93	37.5	15	34	27	3/8	53
G16/26	80	95.5	40	17.5	34	32	3/4	53
G17/27	85	102.5	42.5	22.5	36	41	1	53
G21	100	108	50	23	41	41	1	70

Dimension reference 10

	H mm	P mm	L mm
221G53../222G33..	103	89	67
221G55../222G35..	103	89	67
221G56../222G36..	103	89	69

Dimension reference 102

Valves for water and neutral liquids

2/2

Applications

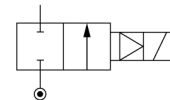
Pilot operated valves are ideally suited to shut-off applications of liquids with high flow and pressure. A minimum operating pressure is required: refer to tables.



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.
		kv	Qmax	Min	Max				Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
G																	

Normally closed



Brass body/Pipe mounting

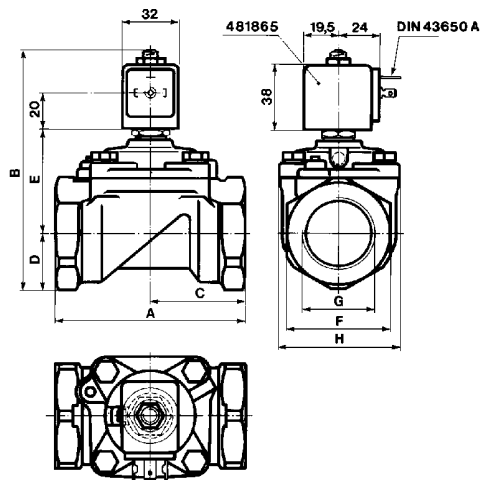
1/4	12	30	30	0.3	10	10	75	NBR	-	321K31	8993	481180	5	4	380	1	72
	12	30	30	0.3	7	10	75	NBR	-		8993	488980	2.5	2	380	1	
3/8	12	45	45	0.3	10	10	75	NBR	-	321K33	8993	481180	5	4	380	1	72
	12	45	45	0.3	7	10	75	NBR	-		8993	488980	2.5	2	380	1	
	13	50	50	0.1	20	20	90	NBR	7321BBG3TN00	-	2995	481865	9	8	560	2	1000
	13	50	50	0.1	20	20	90	NBR	-		4270	481000	8	8	560	2	
	13	50	50	0.1	20	20	90	NBR	7321BBG3TNM0	-	2995	481865	9	8	560	2	1000
	13	50	50	0.1	20	20	90	NBR	-		4269	481000	8	8	560	2	
1/2	12	50	50	0.3	10	10	75	NBR	-	321K35	8993	481180	5	4	380	1	72
	12	50	50	0.3	7	10	75	NBR	-		8993	488980	2.5	2	380	1	
	13	140	140	0.1	20	20	90	NBR	7321BBG4TN00	-	2995	481865	9	8	590	2	1000
	13	140	140	0.1	20	20	90	NBR	-		4269	481000	8	8	590	2	
	13	140	140	0.1	20	20	90	NBR	7321BBG4TNM0	-	2995	481865	9	8	590	2	1000
	13	140	140	0.1	20	20	90	NBR	-		4269	481000	8	8	590	2	
3/4	18	100	100	0.3	10	10	75	NBR	-	321K36	8993	481180	5	4	590	1	72
	18	100	100	0.3	7	10	75	NBR	-		8993	488980	2.5	2	590	1	
	20	140	140	0.1	20	20	90	NBR	7321BBG53N00	-	2995	481865	9	8	1050	2	1000
	20	140	140	0.1	20	20	90	NBR	-		4269	481000	8	8	1050	2	
	20	140	140	0.1	10	10	90	NBR	7321BBG53NM0	-	2995	481865	9	8	1050	2	1000
	20	140	140	0.1	10	10	90	NBR	-		4269	481000	8	8	1050	2	
	20	135	135	0.3	16	16	75	NBR	7321GBG53N00	E321G36	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	10	10	75	NBR	-	321K37	8993	481180	5	4	735	1	72
	18	110	110	0.3	7	10	75	NBR	-		8993	488980	2.5	2	735	1	
	25	160	160	0.1	20	20	90	NBR	7321BBG64N00	-	2995	481865	9	8	1110	2	1000
	25	160	160	0.1	20	20	90	NBR	-		4269	481000	8	8	1110	2	

Table continued on page 58

Notes:

- * See Electrical Parts Group table at end of section
- 1. Manual override standard
- 2. For manual override and closure speed control change M0 by M1
- 3. Manual override and 4 position selector for controlled closure rate: see "Anti-waterhammer valves" section

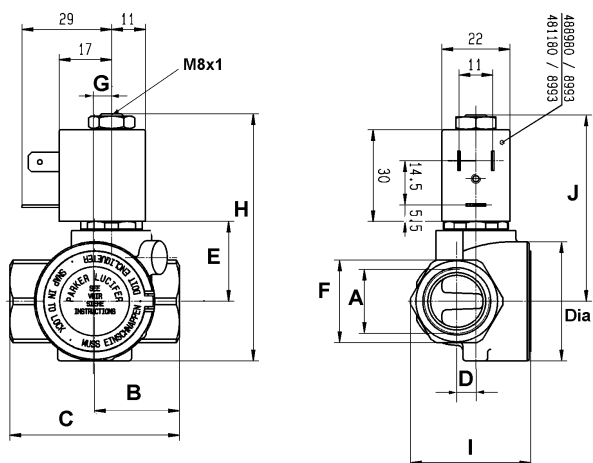
Valves for water and neutral liquids 2/2 - Pilot operated



	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



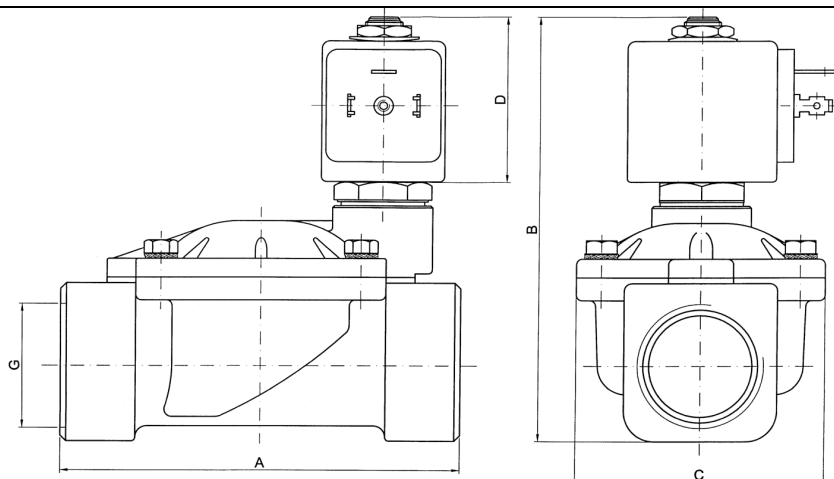
Dimension reference 11



	A inch	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	Dia. mm
K31	1/4	25	50	6.2	26	27	5.5	81	39	61	40
K33	3/8	25	50	6.2	26	27	5.5	81	39	61	40
K35	1/2	27.5	55	6.2	26	27	5.5	81	39	61	40
K36	3/4	40	80	9	33.5	32	8	96.5	46	68.5	56
K37	1	42.5	85	14.2	33.5	41	8	96.5	56	68.5	56



Dimension reference 72



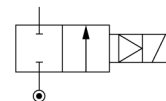
Size				
G	A mm	B mm	C mm	D mm
3/8	69	99.5	40	44
1/2	72	101.5	40	44
3/4	100	107	65	44
1	104	112.5	65	44
1 1/4	145	134	102	44
1 1/2	145	134	102	44
2	173	148	118	44
2 1/2	245	195	184	44
3	250	195	184	44

Dimension reference 1000

Valves for water and neutral liquids 2/2 - Pilot operated

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)	El. Part Group *	Dim ref.
		kv	Qmax	Min	DC	Max AC			Global valve reference	Valve reference no.	Housing	Coil		DC	AC			
G																		

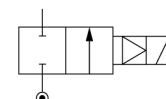
Normally closed



Brass body/Pipe mounting

1	25	160	160	0.1	10	10	90	NBR	7321BBG64NM0	-	1	2995	481865	9	8	1110	2	1000
	25	160	160	0.1	10	10	90	NBR				4269	481000	9	8	1110	2	
	25	180	180	0.3	16	16	75	NBR	7321GBG64N00	E321G37	2	2995	481865	9	8	1230	2	11
	25	180	180	0.3	16	16	75	NBR				4270	481000	8	8	1350	2	
1 1/4	28	280	280	0.3	16	16	75	NBR	7321GBG76N00	E321G38	2	2995	481865	9	8	1860	2	11
	28	280	280	0.3	16	16	75	NBR				4270	481000	8	8	1980	2	
	35	420	420	0.1	10	10	90	NBR	7321BBG78N00	-		2995	481865	9	8	3120	2	1000
	35	420	420	0.1	10	10	90	NBR				4269	481000	8	8	3120	2	
	35	420	420	0.1	5	5	90	NBR	7321BBG78NM0	-	1	2995	481865	9	8	3120	2	1000
	35	420	420	0.1	5	5	90	NBR				4269	481000	8	8	3120	2	
1 1/2	40	500	500	0.1	10	10	90	NBR	7321BBG88N00	-		2995	481865	9	8	2870	2	1000
	40	500	500	0.1	10	10	90	NBR				4269	481000	8	8	2870	2	
	40	500	500	0.1	5	5	90	NBR	7321BBG88NM0	-	1	2995	481865	9	8	2870	2	1000
	40	500	500	0.1	5	5	90	NBR				4269	481000	8	8	2870	2	
	40	420	420	0.3	7	16	75	NBR	7321GBG88N00	E321G39	2	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	
	40	420	420	0.3	16	16	75	NBR				4270	486265	14	14	2700	2	
2	40	500	500	0.1	5	5	90	NBR	7321BBG99NM0	-	1	2995	481865	9	8	4260	2	1000
	40	500	500	0.1	5	5	90	NBR				4269	481000	8	8	4260	2	
	40	540	540	0.3	7	16	75	NBR	7321GBG99N00	E321G40	2	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	
	50	620	620	0.1	10	10	90	NBR	7321BBG99N00	-		2995	481865	9	8	4260	2	1000
2 1/2	65	1050	1050	0.1	10	10	90	NBR	7321BBGCBNM1	-	3	2995	481865	9	8	-	2	1000
	65	1050	1050	0.1	10	10	90	NBR				4269	481000	8	8	-	2	
3	75	1385	1385	0.1	10	10	90	NBR	7321BBGDCNM1	-	3	2995	481865	9	8	-	2	1000
	75	1385	1385	0.1	10	10	90	NBR				4269	481000	8	8	-	2	

Normally open



Brass body/Pipe mounting

3/8	13	50	50	0.1	20	20	90	NBR	7322BBG3TN00	-		2995	481865	9	8	560	2	2000
	13	50	50	0.1	20	20	90	NBR				4270	481000	8	8	560	2	
1/2	13	140	140	0.1	20	20	90	NBR	7322BBG4TN00	-		2995	481865	9	8	590	2	2000
3/4	20	140	140	0.1	20	20	90	NBR	7322BBG53N00	-		2995	481865	9	8	1050	2	2000
	20	140	140	0.1	20	20	90	NBR				4270	481000	8	8	1050	2	
	20	135	135	0.3	16	16	75	NBR	7322GBG53N00	322G36		2995	481865	9	8	1430		11
	20	135	135	0.3	16	16	75	NBR				4270	481000	8	8	1550		

Table continued on page 60

Notes:

- * See Electrical Parts Group table at end of section
- 1. For manual override and closure speed control change M0 by M1
- 2. Manual override and 4 position selector for controlled closure rate: see "Anti-waterhammer valves" section
- 3. Manual override and closure speed control standard

Valves for water and neutral liquids 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

Size					
G	A mm	B mm	C mm	D mm	
3/8	69	99.5	40	44	
1/2	72	101.5	40	44	
3/4	100	107	65	44	
1	104	112.5	65	44	
1 1/4	145	134	102	44	
1 1/2	145	134	102	44	
2	173	148	118	44	
2 1/2	245	195	184	44	
3	250	195	184	44	

Dimension reference 1000

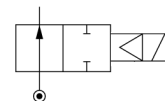
Size					
G	A mm	B mm	C mm	D mm	
3/8	69	99.5	40	44	
1/2	72	101.5	40	44	
3/4	100	107	65	44	
1	104	112.5	65	44	
1 1/4	145	134	102	44	
1 1/2	145	134	102	44	
2	173	148	118	44	
2 1/2	245	195	184	44	
3	250	195	184	44	

Dimension reference 2000

Valves for water and neutral liquids 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			

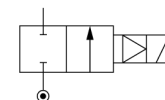
Normally open



Brass body/Pipe mounting

1	25	160	160	0.1	20	20	90	NBR	7322BBG64N00	-	2995	481865	9	8	1110	2	2000
	25	180	180	0.3	16	16	75	NBR	7322GBG64N00	322G37	2995	481865	9	8	1230		11
	25	180	180	0.3	16	16	75	NBR			4270	481000	8	8	1350		
1 1/4	28	270	270	0.3	16	16	75	NBR	7322GBG76N00	322G38	2995	481865	9	8	1860		11
	28	270	270	0.3	16	16	75	NBR			4270	481000	8	8	1980		
	35	420	420	0.1	10	10	90	NBR	7322BBG78N00	-	2995	481865	9	8	3120	2	2000
	35	420	420	0.1	10	10	90	NBR			4270	481000	8	8	3120	2	
1 1/2	40	500	500	0.1	10	10	90	NBR	7322BBG88N00	-	2995	481865	9	8	2870	2	2000
	40	500	500	0.1	10	10	90	NBR			4270	481000	8	8	2870	2	
	40	420	420	0.3	12	12	75	NBR	7322GBG88N00	322G39	2995	481865	9	8	2560		11
	40	420	420	0.3	12	12	75	NBR			4270	481000	8	8	2680		
2	40	540	540	0.3	12	12	75	NBR	7322GBG99N00	322G40	2995	481865	9	8	2900		11
	40	540	540	0.3	12	12	75	NBR			4270	481000	8	8	3040		
	50	620	620	0.1	10	10	90	NBR	7322BBG99N00	-	2995	481865	9	8	4260	2	2000
	50	620	620	0.1	10	10	90	NBR			4270	481000	8	8	4260	2	

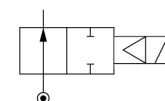
Normally closed



Brass body/Sub-base mounting

SB	14	45	45	0.3	25	40	75	NBR	7321FBF3TN00	E321F32	1	2995	481865	9	8	650	2	13
	14	45	45	0.3	30	40	75	NBR				4270	481000	8	8	770	2	
	14	45	45	0.3	40	40	75	NBR				4270	486265	14	14	780	2	

Normally open



Brass body/Sub-base mounting

SB	14	45	45	0.3	2	40	40	75	NBR	7322FBF3TN00	322F72	1	2995	481865	9	8	650		13
	14	45	45	0.3	2	40	40	75	NBR				4270	481000	8	8	770		

Notes:

* See Electrical Parts Group table at end of section

1. Pilot seat discs from ruby (synthetic)

2. Minimum pressure differential = 0.3 bar for opening and 0 bar for closing

Valves for water and neutral liquids 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

Dimension reference 13

Size					
G	A mm	B mm	C mm	D mm	
3/8	69	99.5	40	44	
1/2	72	101.5	40	44	
3/4	100	107	65	44	
1	104	112.5	65	44	
1 1/4	145	134	102	44	
1 1/2	145	134	102	44	
2	173	148	118	44	
2 1/2	245	195	184	44	
3	250	195	184	44	

Dimension reference 2000

Electrical parts options with 2/2 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			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)	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.