

ACTUATION	BODY MATERIAL	FUNCTION	CONNECTION	ORIFICE (MM)	MAX. PRESSURE (BAR)	PAGE
Direct operated	Brass body	Normally closed	1/4	3 to 5	10.0	72
			3/8	6	5.0	72
			1/2	8.5 to 11	4.0	72
	303 Stainless steel body		1/4	1.5 to 5	100.0	74
Magnalift	Brass body	Normally closed	3/8	15	10.0	76
			1/2	15	10.0	76
			3/4	15	10.0	76
			1	15 to 25	10.0	76
		Normally open	3/8	15	3.5	78
			1/2	15	3.5	78
			3/4	19	3.5	78
	303 Stainless steel body	Normally closed	3/8	15	7.0	78
			1/2	15	7.0	78
			3/4	15 to 19	7.0	78
		Normally open	3/8	16	8.5	78
			1/2	16	8.5	78
			3/4	19	8.5	78
Pilot operated	Brass body	Normally closed	1/4	12	12.0	80
			3/8	12 to 15	20.0	80
			1/2	12 to 15	12.0	80
			3/4	15 to 20	12.0	80
			1	18 to 27	12.0	80
			1 1/4	29 to 35	8.5	82
			1 1/2	32 to 40	8.5	82
			2	50	4.0	82
		Normally open	3/8	15	8.5	82
			1/2	16	8.5	82
			3/4	15	8.5	82
			1	27	8.5	82
			1 1/4	28	8.5	82
			1 1/2	31	8.5	82

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).

Hot water - steam valves

2/2

Applications

Hot water and steam valves are important elements in many industrial applications. They serve to control the flow of steam in various heating applications: steam cookers, autoclaves, air conditioning systems, car washing equipment and food processing equipment.

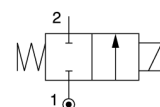
Note: The indicated max. pressures for steam are in bar abs.



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)	Dim ref.
		kv	Qmax	Min	Max		Water	Steam		Global valve reference	Valve reference no.	Housing	Coil	DC	AC	

Normally closed

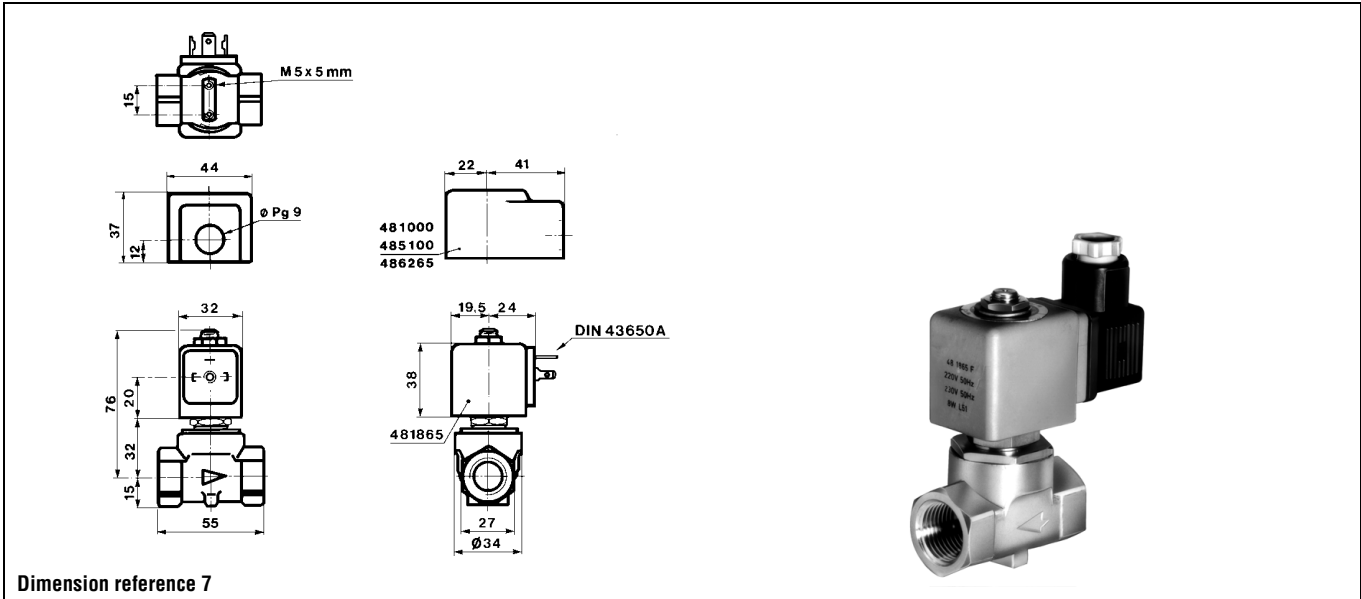
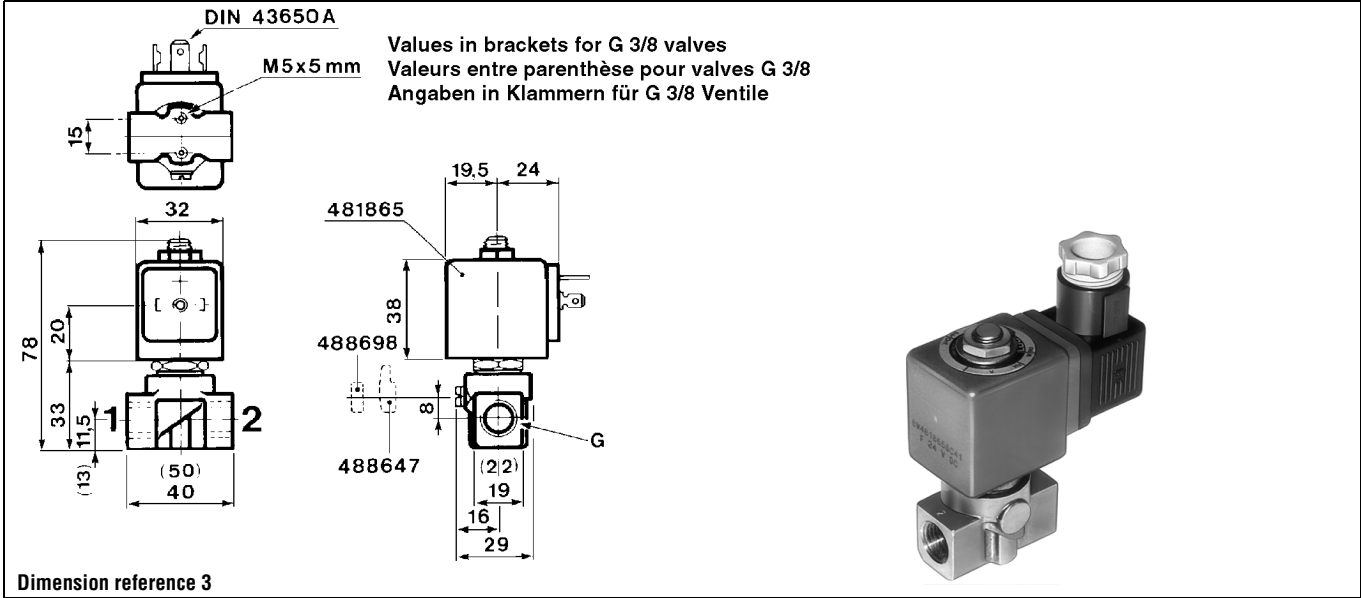


Brass body/Pipe mounting

1/4	3	4.5	9	0	7	10	100	-	EPDM	7121KBG2NE00	121K0323	2995	481865	9	8	290	3
	3	4.5	9	0	8.5	10	120	-	EPDM	7121KBG2NE00		4270	481000	8	8	410	
	3	4.5	9	0	10	10	120	-	EPDM	7121KBG2NE00		4270	486265	14	14	420	
	3	4.5	9	0	4	4	-	140	EPDM	7121KBG2NES0		4270	486265	14	14	420	
	3	4.5	9	0	4	4	-	140	EPDM	7121KBG2NES0		2995	492425	14	14	300	
	5	11	11.5	0	2	7	100	-	EPDM	7121KBG2SE00	121K0103	2995	481865	9	8	290	3
	5	11	11.5	0	2.8	7	120	-	EPDM	7121KBG2SE00		4270	481000	8	8	410	
	5	11	11.5	0	5	7	120	-	EPDM	7121KBG2SE00		4270	486265	14	14	420	
	5	11	11.5	0	4	4	-	140	EPDM	7121KBG2SES0		4270	486265	14	14	420	
	5	11	11.5	0	3.5	4	-	140	EPDM	7121KBG2SES0		2995	492425	14	14	300	
3/8	6	12	12.5	0	1.1	5	100	-	EPDM	7121KBG3UE00	121K3303	2995	481865	9	8	340	3
	6	12	12.5	0	1.5	5	120	-	EPDM	7121KBG3UE00		4270	481000	8	8	460	
	6	12	12.5	0	3	5	120	-	EPDM	7121KBG3UE00		4270	486265	14	14	470	
	6	12	12.5	0	3	4	-	140	EPDM	7121KBG3UES0		4270	486265	14	14	470	
	6	12	12.5	0	2.5	4	-	140	EPDM	7121KBG3UES0		2995	492425	14	14	350	
1/2	8.5	25	15	0	0.5	2.2	120	-	EPDM	7121KBG42E00	E121K4603	4270	481000	8	8	550	7
	8.5	25	15	0	1.2	4	120	-	EPDM	7121KBG42E00		4270	486265	14	14	560	
	8.5	25	15	0	2.2	4	-	140	EPDM	7121KBG42ES0		4270	486265	14	14	560	
	8.5	25	15	0	2	4	-	140	EPDM	7121KBG42ES0		2995	492425	14	14	440	
	11	36	20	0	0.35	1.2	120	-	EPDM	7121KBG44E00	E121K4503	4270	481000	8	8	550	7
	11	36	20	0	-	2	-	140	EPDM	7121KBG44ES0		4270	486265	14	14	560	
	11	36	20	0	0.7	2.5	120	-	EPDM	7121KBG44E00		4270	486265	14	14	560	
	11	36	20	0	-	2.5	-	140	EPDM	7121KBG44ES0		2995	492425	14	14	440	

Table continued on page 74

Hot water - steam valves 2/2 - Direct operated

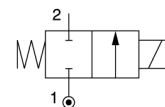


Hot water - steam valves 2/2 - Direct operated

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)	Dim ref.
										Global valve reference	Valve reference no.	Housing	Coil		DC	AC		
G		kv	Qmax	Min	Max		Water	Steam										

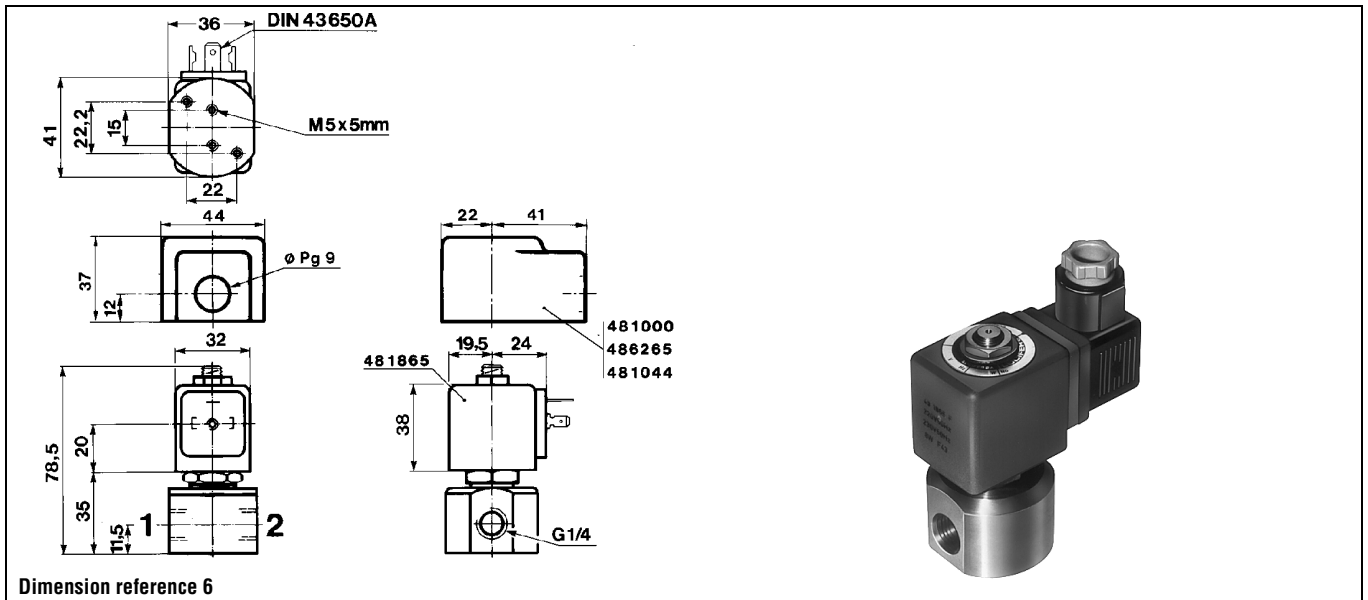
303 Stainless steel body/Pipe mounting

Normally closed



1/4	1.5	1.5	15	0	25	60	100	-	Ruby	7121VVG2GR00	121V5463	2995	481865	9	8	410	6
	1.5	1.5	15	0	30	75	130	-	Ruby	7121VVG2GR00		4270	481000	8	8	530	
	1.5	1.5	15	0	55	100	140	-	Ruby	7121VVG2GR00		4270	486265	14	14	540	
	1.5	1.5	15	0	30	75	-	180	Ruby	7121VVG2GRS0		4270	486265	14	14	540	
	1.5	1.5	15	0	25	60	-	180	Ruby	7121VVG2GRS0		2995	492425	14	14	420	
	2.5	3.5	25	0	10	28	100	-	Ruby	7121VVG2LR00	121V5763	2995	481865	9	8	410	6
	2.5	3.5	25	0	12	34	130	-	Ruby	7121VVG2LR00		4270	481000	8	8	530	
	2.5	3.5	25	0	12	34	-	180	Ruby	7121VVG2LRS0		4270	486265	14	14	540	
	2.5	3.5	25	0	22	50	140	-	Ruby	7121VVG2LR00		4270	486265	14	14	540	
	2.5	3.5	25	0	10	28	-	180	Ruby	7121VVG2LRS0		2995	492425	14	14	420	
	3	4.5	27	0	7	20	100	-	Ruby	7121VVG2NR00	121V5363	2995	481865	9	8	410	6
	3	4.5	27	0	8.5	25	130	-	Ruby	7121VVG2NR00		4270	481000	8	8	530	
	3	4.5	27	0	15	36	140	-	Ruby	7121VVG2NR00		4270	486265	14	14	540	
	3	4.5	27	0	8.5	25	-	180	Ruby	7121VVG2NRS0		4270	486265	14	14	540	
	3	4.5	27	0	7	20	-	180	Ruby	7121VVG2NRS0		2995	492425	14	14	420	
	4	7	35	0	4	12	100	-	Ruby	7121VVG2QR00	121V5263	2995	481865	9	8	410	6
	4	7	35	0	5	15	130	-	Ruby	7121VVG2QR00		4270	481000	8	8	530	
	4	7	35	0	10	22	130	-	Ruby	7121VVG2QR00		4270	486265	14	14	540	
	4	7	35	0	5	15	-	180	Ruby	7121VVG2QRS0		4270	486265	14	14	540	
	4	7	35	0	4	12	-	180	Ruby	7121VVG2QRS0		2995	492425	14	14	420	
	5	10	40	0	2	8.5	100	-	Ruby	7121VVG2SR00	121V5163	2995	481865	9	8	410	6
	5	10	40	0	3.5	10	130	-	Ruby	7121VVG2SR00		4270	481000	8	8	530	
	5	10	40	0	6.5	14	140	-	Ruby	7121VVG2SR00		4270	486265	14	14	540	
	5	10	40	0	3.5	10	-	180	Ruby	7121VVG2SRS0		4270	486265	14	14	540	
	5	10	40	0	2	8.5	-	180	Ruby	7121VVG2SRS0		2995	492425	14	14	420	

Hot water - steam valves 2/2 - Direct operated



Hot water - steam 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.

Note: The indicated max. pressures for steam are in bar abs.

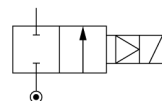


Magnalift

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		Water	Steam		Global valve reference	Valve reference no.	Housing	Coil		DC	AC		

Brass body/Pipe mounting

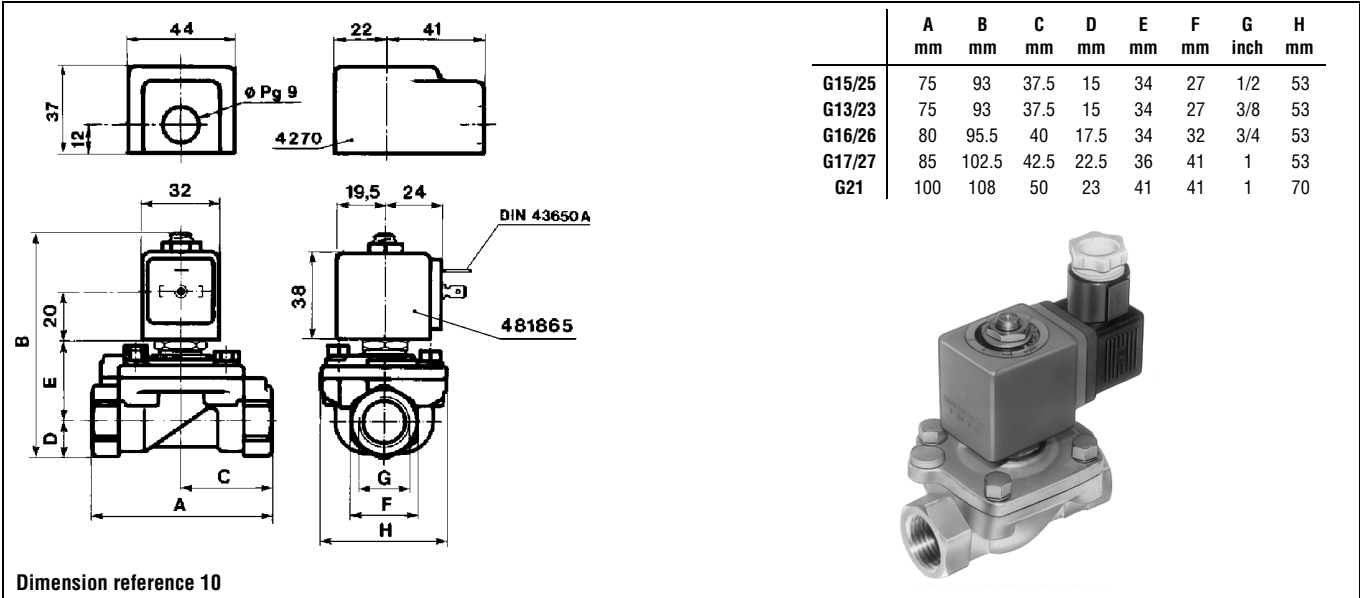
Normally closed



3/8	15	65	65	0	-	10	100	-	EPDM	7221GBG3VE00	221G1303	2995	481865	-	8	630	10
	15	65	65	0	-	10	120	-	EPDM	7221GBG3VE00		4270	481000	-	8	750	
	15	65	65	0	7	10	120	-	EPDM	7221GBG3VE00		4270	486265	14	14	760	
	15	65	65	0	4	4	-	140	EPDM	7221GBG3VES0		4270	486265	14	14	760	
	15	65	65	0	4	4	-	140	EPDM	7221GBG3VES0		2995	492425	14	14	640	
1/2	15	65	65	0	-	10	100	-	EPDM	7221GBG4VE00	221G1503	2995	481865	-	8	640	10
	15	65	65	0	-	10	120	-	EPDM	7221GBG4VE00		4270	481000	-	8	760	
	15	65	65	0	7	10	120	-	EPDM	7221GBG4VE00		4270	486265	14	14	770	
	15	65	65	0	4	4	-	140	EPDM	7221GBG4VES0		4270	486265	14	14	770	
	15	65	65	0	4	4	-	140	EPDM	7221GBG4VES0		2995	492425	14	14	650	
3/4	15	80	80	0	-	10	100	-	EPDM	7221GBG51E00	221G1603	2995	481865	-	8	670	10
	15	80	80	0	-	10	120	-	EPDM	7221GBG51E00		4270	481000	-	8	790	
	15	80	80	0	7	10	120	-	EPDM	7221GBG51E00		4270	486265	14	14	800	
	15	80	80	0	4	4	-	140	EPDM	7221GBG51ES0		4270	486265	14	14	800	
	15	80	80	0	4	4	-	140	EPDM	7221GBG51ES0		2995	492425	14	14	680	
1	15	80	80	0	-	10	100	-	EPDM	7221GBG61E00	221G1703	2995	481865	-	8	810	10
	15	80	80	0	-	10	120	-	EPDM	7221GBG61E00		4270	481000	-	8	930	
	15	80	80	0	7	10	120	-	EPDM	7221GBG61E00		4270	486265	14	14	940	
	15	80	80	0	4	4	-	140	EPDM	7221GBG61ES0		4270	486265	14	14	940	
	15	80	80	0	4	4	-	140	EPDM	7221GBG61ES0		2995	492425	14	14	820	
	25	160	160	0	-	10	100	-	EPDM	7221GBG64E00	221G2103	2995	481865	-	8	1170	10
	25	160	160	0	-	10	120	-	EPDM	7221GBG64E00		4270	481000	-	8	1290	
	25	160	160	0	7	10	120	-	EPDM	7221GBG64E00		4270	486265	14	14	1300	
	25	160	160	0	4	4	-	140	EPDM	7221GBG64ES0		4270	486265	14	14	1300	
	25	160	160	0	4	4	-	140	EPDM	7221GBG64ES0		2995	492425	14	14	1180	

Table continued on page 78

Hot water - steam valves 2/2 - Magnalift

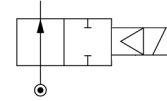


Hot water - steam valves 2/2 - Magnalift

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		Max	Water	Steam										

Brass body/Pipe mounting

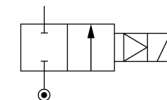
Normally open



3/8	15	43	43	0	-	3.5	-	145	EPDM	72228BG3TES0	222G3303	4270	486265	-	14	940	102
	15	43	43	0	8.5	8.5	100	-	EPDM	72228BG3TE00		4270	486265	14	14	940	
1/2	15	58	58	0	-	3.5	-	145	EPDM	72228BG4UES0	222G3503	4270	486265	-	14	940	102
	15	58	58	0	8.5	8.5	100	-	EPDM	72228BG4UE00		4270	486265	14	14	940	
3/4	19	72	-	0	-	3.5	-	145	EPDM	72228BG5VES0	222G3603	4270	486265	-	14	940	102
	19	72	72	0	8.5	8.5	100	-	EPDM	72228BG5VE00		4270	486265	14	14	940	

303 Stainless steel body/Pipe mounting

Normally closed



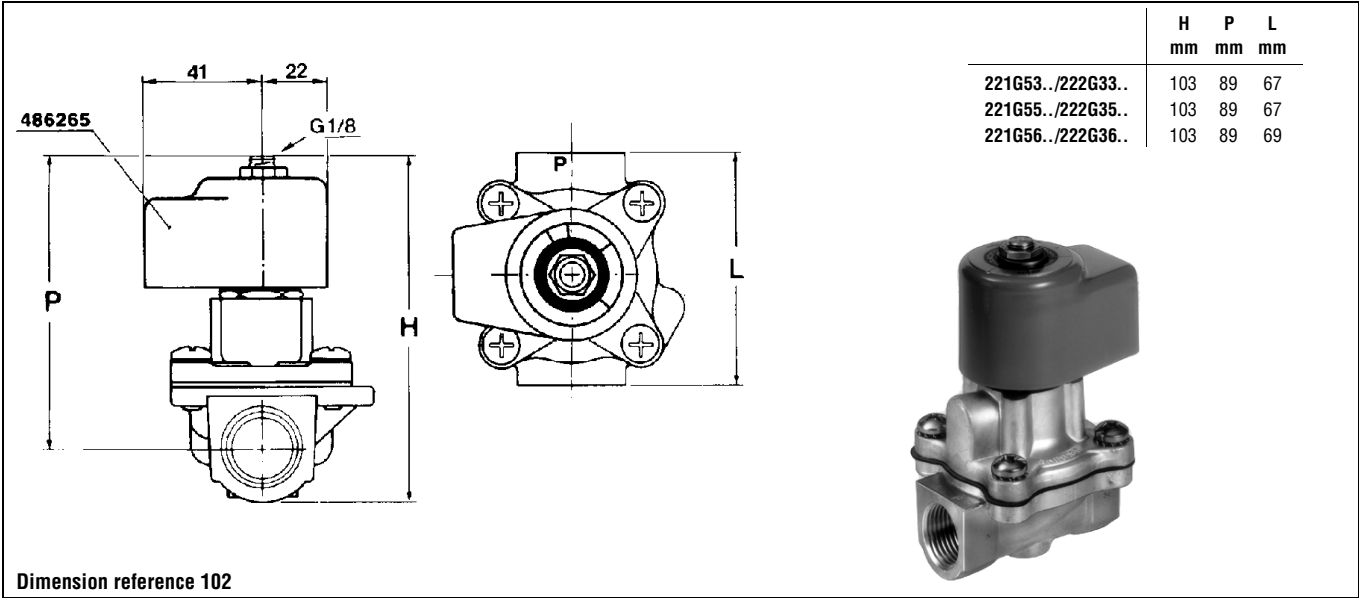
3/8	15	42	-	0	-	7	85	-	EPDM	72218RG3TE00	221G5303	4270	481000	-	8	1050	102
	15	42	-	0	3.8	4	-	145	EPDM	72218RG3TES0		4270	486265	14	14	1060	
	15	42	-	0	2.8	7	100	-	EPDM	72218RG3TE00		4270	486265	14	14	1060	
	15	42	-	0	-	4	-	145	EPDM	72218RG3TES0		2995	492425	-	14	1060	
1/2	15	54	54	0	-	7	85	-	EPDM	72218RG4UE00	221G5503	4270	481000	-	8	1050	102
	15	54	54	0	3.8	4	-	145	EPDM	72218RG4UES0		4270	486265	-	14	1060	
	15	54	54	0	2.8	7	100	-	EPDM	72218RG4UE00		4270	486265	14	14	1060	
	15	54	54	0	-	4	-	140	EPDM	72218RG4UES0		2995	492425	-	14	1060	
3/4	15	71	71	0	2.8	7	100	-	EPDM	72218RG5VE00	221G5603	4270	486265	14	14	1060	102
	19	71	71	0	-	7	85	-	EPDM	72218RG5VE00		4270	481000	-	8	1050	
	19	71	71	0	3.8	4	-	145	EPDM	72218RG5VES0		4270	486265	14	14	1060	
	19	71	71	0	-	4	-	145	EPDM	72218RG5VES0		2995	492425	-	14	1060	

303 Stainless steel body/Pipe mounting

Normally open

3/8	16	43	43	0	8.5	8.5	100	-	EPDM	72228RG3TE00	222G5303	4270	486265	14	14	1060	102
	16	43	43	0	-	3.5	-	145	EPDM	72228RG3TES0		4270	486265	-	14	1060	
1/2	16	58	58	0	8.5	8.5	100	-	EPDM	72228RG4UE00	222G5503	4270	486265	14	14	1060	102
	16	58	58	0	-	3.5	-	145	EPDM	72228RG4UES0		4270	486265	-	14	1060	
3/4	19	72	72	0	8.5	8.5	100	-	EPDM	72228RG5VE00	222G5603	4270	486265	14	14	1060	102
	19	72	72	0	-	3.5	-	145	EPDM	72228RG5VES0		4270	486265	-	14	1060	

Hot water - steam valves 2/2 - Magnalift



Hot water - steam 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.

Note: The indicated max. pressures for steam are in bar abs.

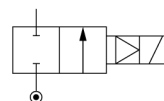


Pilot operated

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)	Dim ref.
		kv	Qmax	Min	Max		Water	Steam		Global valve reference	Valve reference no.	Housing	Coil		DC	AC		

Brass body/Pipe mounting

Normally closed



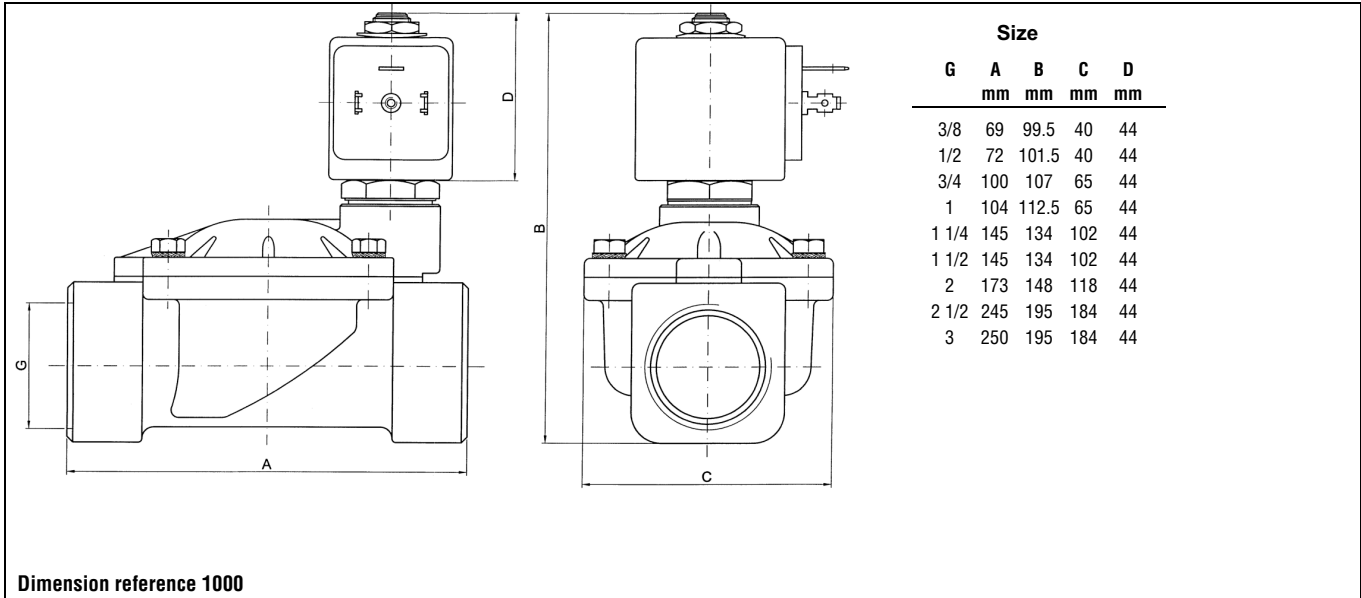
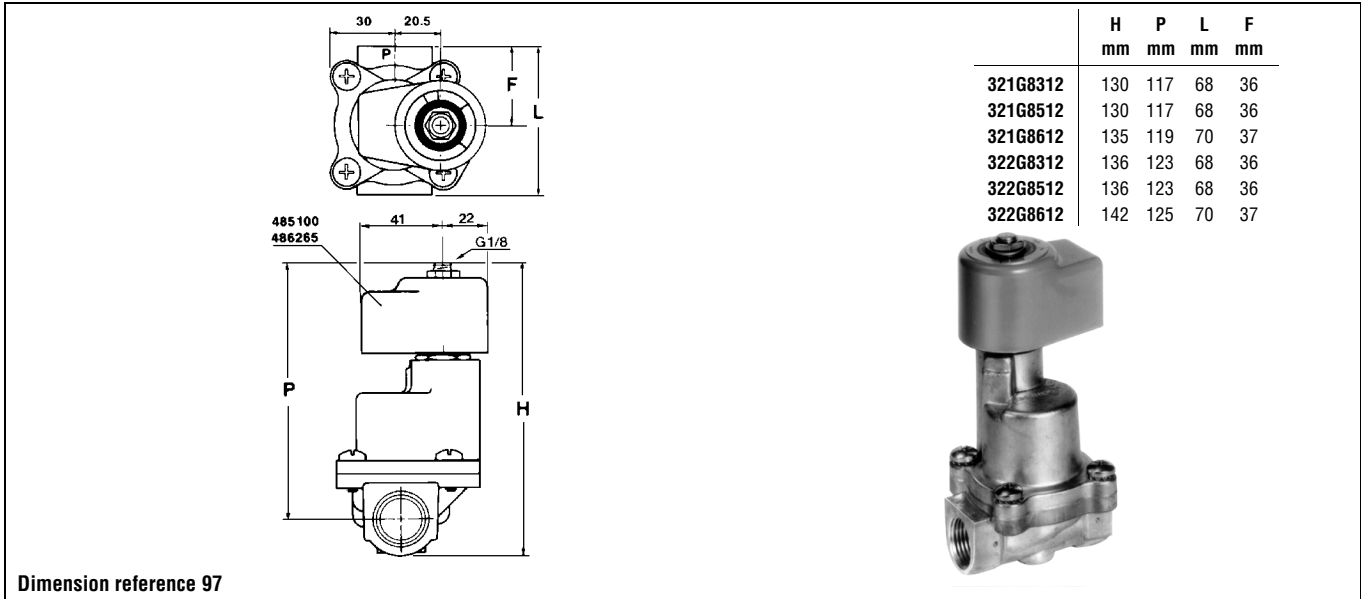
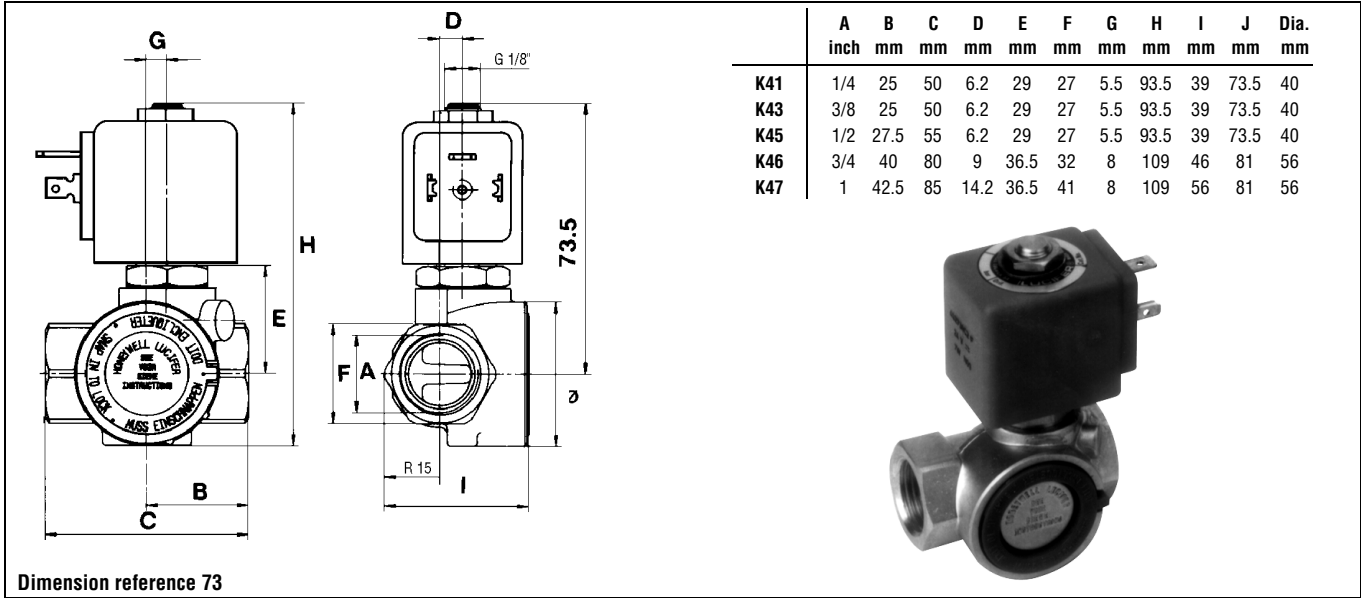
1/4	12	30	30	0.3	12	12	120	-	EPDM	7321KBG2SEW0	321K4103 ¹	4270	481000	8	8	610	73
	12	30	30	0.3	12	12	100	-	EPDM	7321KBG2SEW0		2995	482730	7	6	490	
3/8	12	45	45	0.3	12	12	120	-	EPDM	7321KBG3TEW0	321K4303 ¹	4270	481000	8	8	610	73
	12	45	45	0.3	12	12	100	-	EPDM	7321KBG3TEW0		2995	482730	7	6	490	
	13	50	50	0.1	20	20	140	140	EPDM	7321BBG3TE00	-	4270	486265	14	14	560	1000
	15	42	42	0.3	-	8.5	-	180	PTFE	7321BBG3TTS0	321G8312	4270	486265	-	14	960	97
1/2	12	50	50	0.3	12	12	120	-	EPDM	7321KBG4TEW0	321K4503 ¹	4270	481000	8	8	610	73
	12	50	50	0.3	12	12	100	-	EPDM	7321KBG4TEW0		2995	482730	7	6	490	
	13	140	140	0.1	4	4	140	140	EPDM	7321BBG4TE00	-	4270	486265	14	14	590	1000
	15	56	56	0.3	-	8.5	-	180	PTFE	7321BBG4UTS0	321G8512	4270	486265	-	14	960	97
3/4	15	64	64	0.3	-	8.5	-	180	PTFE	7321BBG5VTS0	321G8612	4270	486265	-	14	960	97
	18	100	100	0.3	12	12	120	-	EPDM	7321KBG51EW0	321K4603 ¹	4270	481000	8	8	820	73
	18	100	100	0.3	12	12	100	-	EPDM	7321KBG51EW0		2995	482730	7	6	700	
	20	140	140	0.1	4	4	140	140	EPDM	7321BBG53E00	-	4270	486265	14	14	1050	1000
1	18	110	110	0.3	12	12	120	-	EPDM	7321KBG62EW0	321K4703 ¹	4270	481000	8	8	965	73
	18	110	110	0.3	12	12	100	-	EPDM	7321KBG62EW0		2995	482730	7	6	845	
	25	160	160	0.1	4	4	140	140	EPDM	7321BBG64E00	-	4270	486265	14	14	1110	1000

Table continued on page 82

Notes:

1. Anti-waterhammer valve

Hot water - steam valves 2/2 - Pilot operated

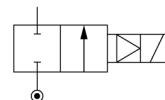


Hot water - steam valves 2/2 - Pilot operated

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)	Dim ref.
										Global valve reference	Valve reference no.	Housing	Coil		DC	AC		
G		kv	Qmax	Min		Max	Water	Steam										
				DC		AC												

Brass body/Pipe mounting

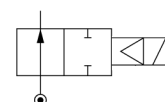
Normally closed



1	27	195	195	0.35	-	8.5	-	180	PTFE	73218BG64TS0	321G8712	4270	486265	-	14	4240	98
1 1/4	29	230	230	0.35	-	8.5	-	180	PTFE	73218BG75TS0	321G8812	4270	486265	-	14	4240	98
	35	420	420	0.1	4	4	140	140	EPDM	7321BBG78E00	-	4270	486265	14	14	3120	1000
1 1/2	32	320	320	0.35	-	8.5	-	180	PTFE	73218BG87TS0	321G8912	4270	486265	-	14	4240	98
	40	500	500	0.1	4	4	140	140	EPDM	7321BBG88E00	-	4270	486265	14	14	2870	1000
2	50	620	620	0.1	4	4	140	140	EPDM	7321BBG99E00	-	4270	486265	14	14	4260	1000

Brass body/Pipe mounting

Normally open



3/8	15	42	42	0.35	-	8.5	-	180	PTFE	73228BG3TTS0	322G8312	4270	486265	-	14	960	97
1/2	16	56	56	0.35	-	8.5	-	180	PTFE	73228BG4UTS0	322G8512	4270	486265	-	14	960	97
3/4	15	64	64	0.35	-	8.5	-	180	PTFE	73228BG52TS0	322G8612	4270	486265	-	14	960	97
1	27	195	195	0.35	-	8.5	-	180	PTFE	73228BG64TS0	322G8712	4270	486265	-	14	4240	98
1 1/4	28	230	230	0.35	-	8.5	-	180	PTFE	73228BG75TS0	322G8812	4270	486265	-	14	4240	98
1 1/2	31	320	320	0.35	-	8.5	-	180	PTFE	73228BG87TS0	322G8912	4270	486265	-	14	4240	98

Hot water - steam valves 2/2 - Pilot operated

	H mm	P mm	L mm	F mm
321G8312	130	117	68	36
321G8512	130	117	68	36
321G8612	135	119	70	37
322G8312	136	123	68	36
322G8512	136	123	68	36
322G8612	142	125	70	37

Dimension reference 97

	W mm	D mm	S mm	P mm	L mm
321G8712	116	94	61	101	98
321G8812	124	98	64	101	98
321G8912	138	109	78	104	114
322G8712	116	94	61	107	98
322G8812	124	98	64	107	98
322G8912	138	109	78	110	114

Dimension reference 98

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

