

Valves for oil (hydraulic) and neutral liquids (max. 100 bar)

2/2

ACTUATION	BODY MATERIAL	FUNCTION	CONNECTION	ORIFICE (MM)	MAX. PRESSURE (BAR)	PAGE
Direct operated	Brass body	Normally closed	1/8	1.5 to 2.5	70.0	86
			1/4	1.2 to 3	100.0	86
			SB	1.5 to 3	100.0	88
		Normally open	1/8	2.5	30.0	88
			1/4	1.5 to 2.5	40.0	88
Pilot operated	Brass body	Normally closed	1/4	8	40.0	90
			3/8	11	40.0	90
			1/2	14.5	40.0	90
			SB	14	40.0	92
		Normally open	1/4	8	40.0	90
			3/8	11	40.0	92
			1/2	14.5	40.0	92
			SB	14	40.0	92

Notes:

Direct operated 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 oil (hydraulic) and neutral liquids (max. 100 bar)

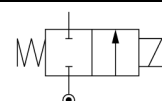
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Direct operated

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

Normally closed



Brass body/Pipe mounting

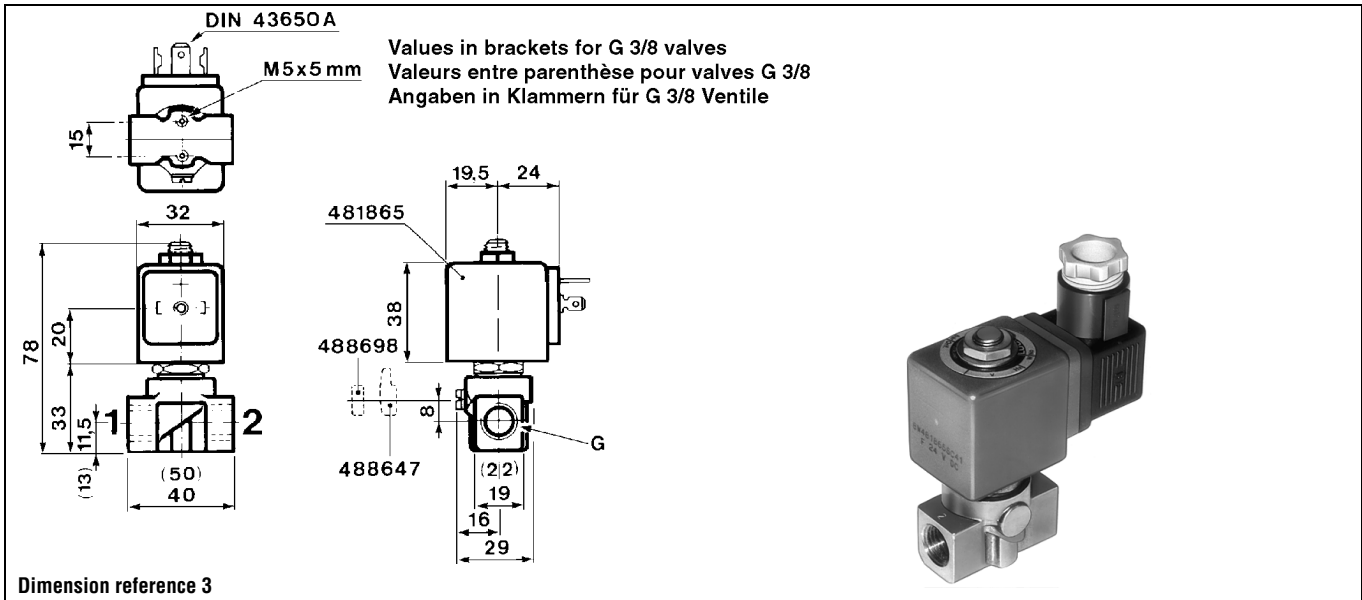
1/8	1.5	1.5	12.5	0	25	60	75	PCTFE	7121KBG1GF00	E121K14	2995	481865	9	8	300	2	3
	1.5	1.5	12.5	0	30	70	75	PCTFE			4270	481000	8	8	420	2	
	1.5	1.5	12.5	0	55	70	75	PCTFE			4270	486265	14	14	430		
	2.5	3.5	25	0	10	28	100	Ruby	7121KBG1LR00	E121K23	2995	481865	9	8	300	2	3
	2.5	3.5	25	0	12	34	130	Ruby			4270	481000	8	8	420	2	
	2.5	3.5	25	0	22	50	120	Ruby			4270	486265	14	14	430		
	1.2	0.85	8.5	0	36	80	100	Ruby	7121KBG2ER00	E121K65	2995	481865	9	8	290		3
	1.2	0.85	8.5	0	43	100	130	Ruby			4270	481000	8	8	410		
	1.2	0.85	8.5	0	75	100	120	Ruby			4270	486265	14	14	420		
1/4	1.5	1.5	12.5	0	25	60	75	PCTFE	7121KBG2GF00	E121K04	2995	481865	9	8	290	2	3
	1.5	1.5	12.5	0	30	70	75	PCTFE			4270	481000	8	8	410	2	
	1.5	1.5	12.5	0	55	70	75	PCTFE			4270	486265	14	14	420		
	1.5	1.5	15	0	25	60	100	Ruby	7121KBG2GR00	E121K67	2995	481865	9	8	290		3
	1.5	1.5	15	0	30	75	130	Ruby			4270	481000	8	8	410		
	1.5	1.5	15	0	55	100	120	Ruby			4270	486265	14	14	420		
	2.5	3.5	25	0	10	28	100	Ruby	7121KBG2LR00	E121K63	2995	481865	9	8	290		3
	2.5	3.5	25	0	12	34	130	Ruby			4270	481000	8	8	410		
	2.5	3.5	25	0	22	50	120	Ruby			4270	486265	14	14	420		
	3	4.5	27	0	7	20	75	PCTFE	7121KBG2NF00	E121K03	2995	481865	9	8	290	2	3
	3	4.5	27	0	8.5	25	75	PCTFE			4270	481000	8	8	410	2	
	3	4.5	27	0	15	36	75	PCTFE			4270	486265	14	14	420		
	3	4.5	27	0	7	20	100	Ruby	7121KBG2NR00	E121K64	2995	481865	9	8	290		3
	3	4.5	27	0	8.5	25	130	Ruby			4270	481000	8	8	410		
	3	4.5	27	0	15	36	120	Ruby			4270	486265	14	14	420		

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Notes:

* See Electrical Parts Group table at end of section

Valves for oil (hydraulic) and neutral liquids 2/2 - Direct operated

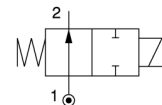


Valves for oil (hydraulic) and neutral liquids 2/2 - Direct operated

Port size	Orifice (mm)	Flow factors (L/min)		Admissible differential pressure bar			Fluid temp. °C	Seat disc	Reference numbers				OR	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			

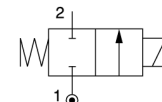
Brass body/Pipe mounting

Normally open



1/8	2.5	3.5	-	0	-	30	140	Ruby	7122KBG1LR00	122K9363	4270	481044	-	14	445		4
	2.5	3.5	-	0	30	30	140	Ruby			4270	486265	14	14	455		
1/4	1.5	1.5	8	0	30	30	100	PCTFE	7122KBG2GF00	122K84	2995	481865	9	8	290	2	3
	1.5	1.5	8	0	30	30	120	PCTFE			4270	481000	8	8	410	2	
	1.5	1.5	9.5	0	40	40	100	Ruby	7122KBG2GR00	122K8408	2995	481865	9	8	290	2	3
	1.5	1.5	9.5	0	40	40	130	Ruby			4270	481000	8	8	410	2	
	2.5	3.5	-	0	-	30	140	Ruby	7122KBG2LR00	122K8363	4270	481044	-	14	425		4
	2.5	3.5	-	0	30	30	140	Ruby			4270	486265	14	14	435		

Normally closed



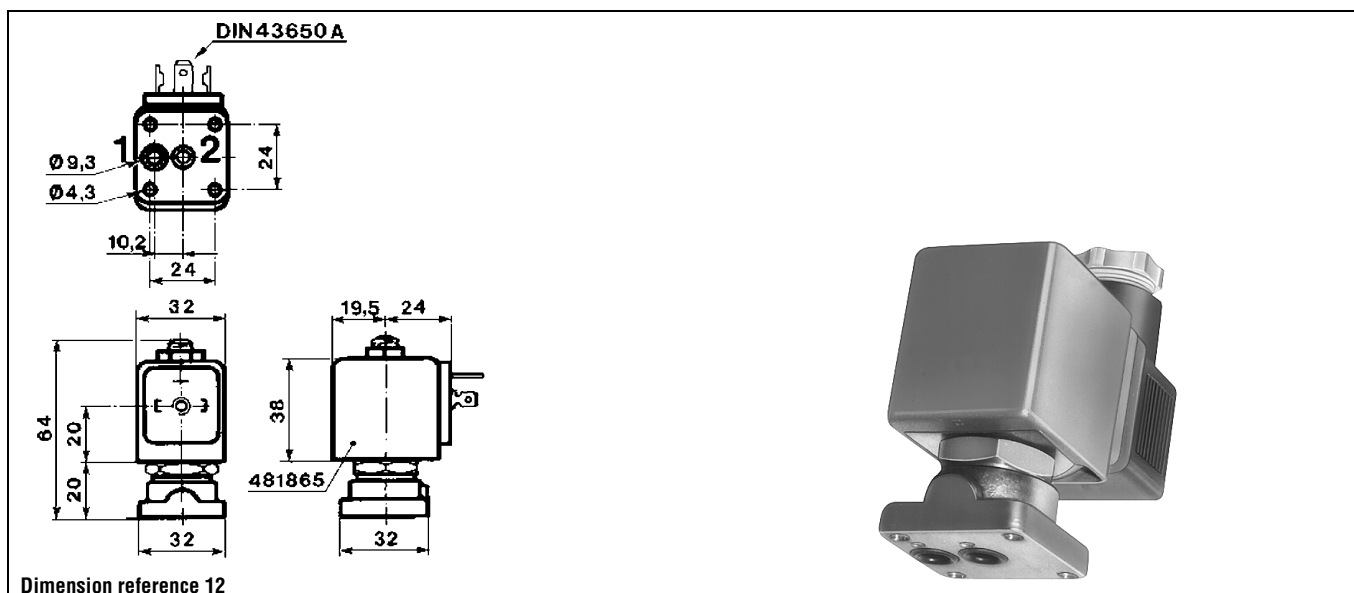
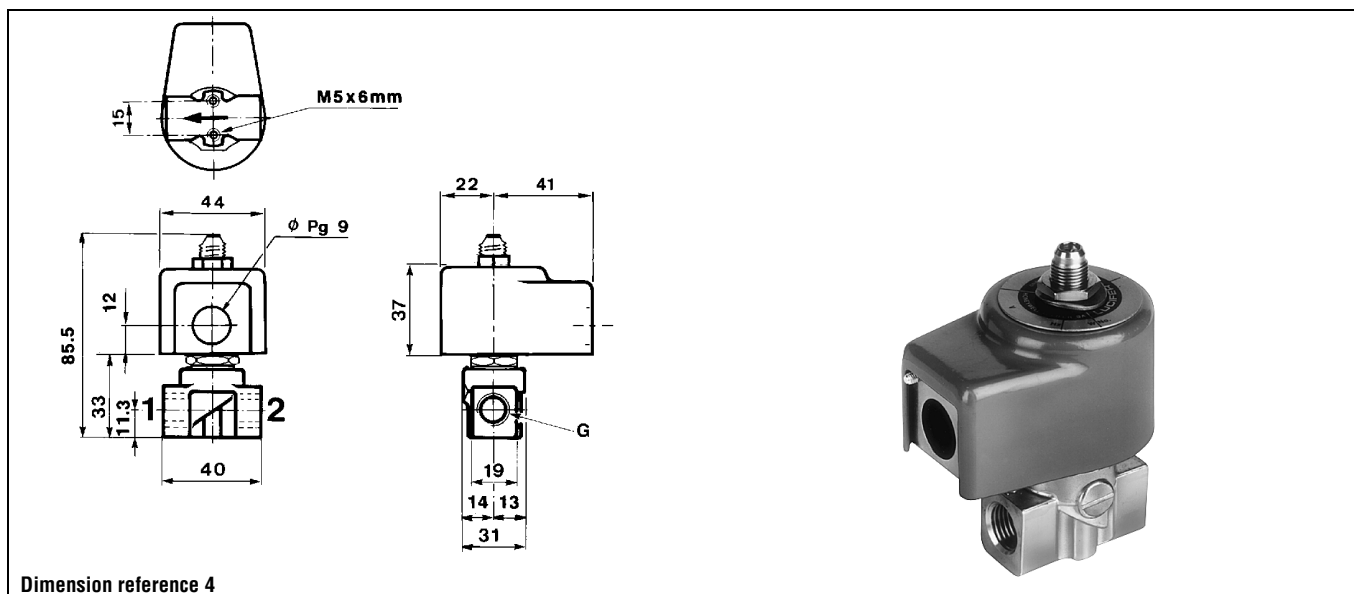
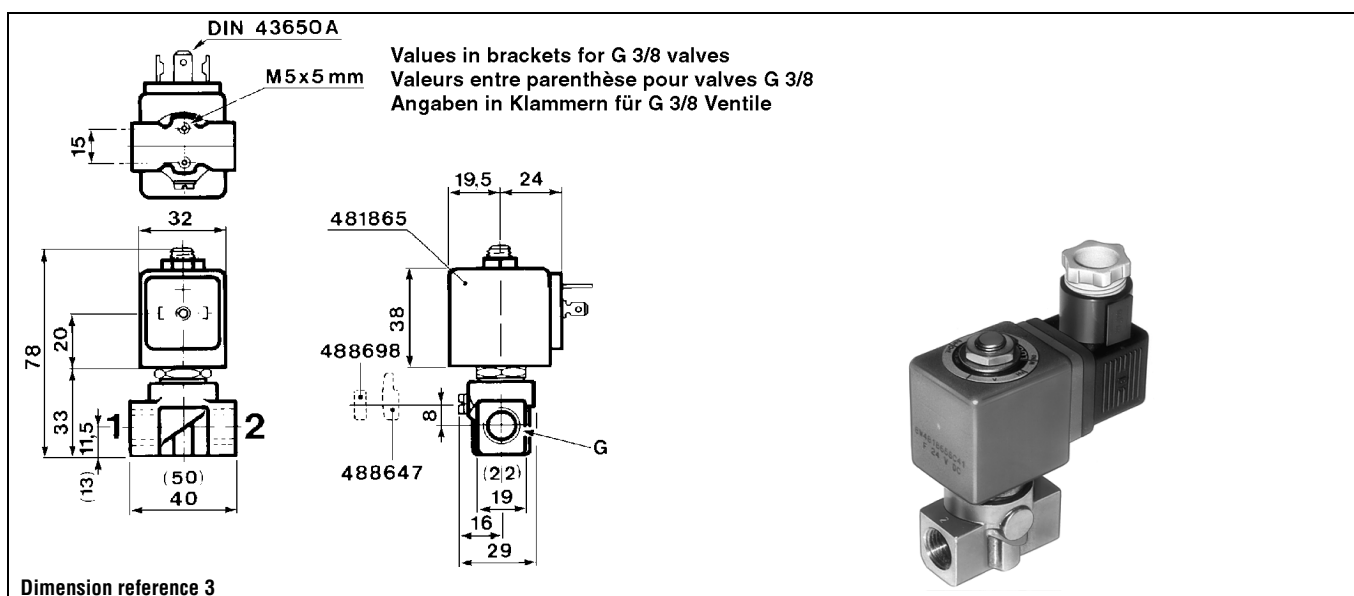
Brass body/Sub-base mounting

SB	1.5	1.5	12.5	0	25	60	75	PCTFE	7121FBF4GF00	E121F44	2995	481865	9	8	250	2	12
	1.5	1.5	12.5	0	30	70	75	PCTFE			4270	481000	8	8	370	2	
	1.5	1.5	12.5	0	55	70	75	PCTFE			4270	486265	14	14	380	2	
	1.5	1.5	15	0	25	60	100	Ruby	7121FBF4GR00	121F67	2995	481865	9	8	255	2	12
	1.5	1.5	15	0	30	75	130	Ruby			4270	481000	8	8	375	2	
	1.5	1.5	15	0	55	100	120	Ruby			4270	486265	14	14	385	2	
	2.5	3.5	25	0	10	28	100	Ruby	7121FBF4LR00	121F63	2995	481865	9	8	255	2	12
	2.5	3.5	25	0	12	34	130	Ruby			4270	481000	8	8	375	2	
	2.5	3.5	25	0	22	50	120	Ruby			4270	486265	14	14	385	2	
	3	4.5	27	0	7	20	75	PCTFE	7121FBF4NF00	E121F43	2995	481865	9	8	250	2	12
	3	4.5	27	0	8.5	25	75	PCTFE			4270	481000	8	8	370	2	
	3	4.5	27	0	15	36	75	PCTFE			4270	486265	14	14	380	2	
	3	4.5	27	0	7	20	100	Ruby	7121FBF4NR00	121F64	2995	481865	9	8	255	2	12
	3	4.5	27	0	8.5	25	130	Ruby			4270	481000	8	8	375	2	
	3	4.5	27	0	15	36	120	Ruby			4270	486265	14	14	385	2	

Notes:

* See Electrical Parts Group table at end of section

Valves for oil (hydraulic) and neutral liquids 2/2 - Direct operated



Valves for oil (hydraulic) and neutral liquids

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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.

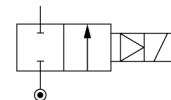


Pilot operated

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

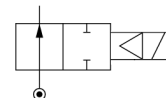
Brass body/Pipe mounting

Normally closed



1/4	8	36	36	0.3	2	25	40	100	FKM	7321HBG2SV00	E321H21	1	2995	481865	9	8	800	2	9
	8	36	36	0.3		30	40	100	FKM				4270	481000	8	8	920	2	
	8	36	36	0.3	2	40	40	100	FKM				4270	486265	14	14	930	2	
	8	36	36	0.3	2	25	40	100	NBR	7321HBG2SN00	E321H11	1	2995	481865	9	8	800	2	9
3/8	8	36	36	0.3	2	30	40	100	NBR				4270	481000	8	8	920	2	
	11	50	50	0.3	2	25	40	100	FKM	7321HBG3TV00	E321H23	1	2995	481865	9	8	780	2	9
	11	50	50	0.3	2	30	40	120	FKM				4270	481000	8	8	900	2	
	11	50	50	0.3	2	40	40	140	FKM				4270	486265	14	14	910	2	
1/2	11	50	50	0.3	2	25	40	100	NBR	7321HBG3TN00	E321H13	1	2995	481865	9	8	780	2	9
	11	50	50	0.3	2	30	40	100	NBR				4270	481000	8	8	900	2	
	14.5	60	60	0.3	2	25	40	100	FKM	7321HBG4UV00	E321H25	1	2995	481865	9	8	740	2	9
	14.5	60	60	0.3	2	30	40	120	FKM				4270	481000	8	8	860	2	
	14.5	60	60	0.3	2	40	40	140	FKM				4270	486265	14	14	870	2	
	14.5	60	60	0.3	2	25	40	100	NBR	7321HBG4UN00	E321H15	1	2995	481865	9	8	740	2	9
	14.5	60	60	0.3	2	30	40	100	NBR				4270	481000	8	8	860	2	

Normally open



Brass body/Pipe mounting

1/4	8	36	36	0.3	2	40	40	100	FKM	7322HBG2SV00	322H7106	1	2995	481865	9	8	820		9
	8	36	36	0.3	2	40	40	120	FKM				4270	481000	8	8	940		
	8	36	36	0.3	2	40	40	140	FKM				4270	486265	14	14	950		

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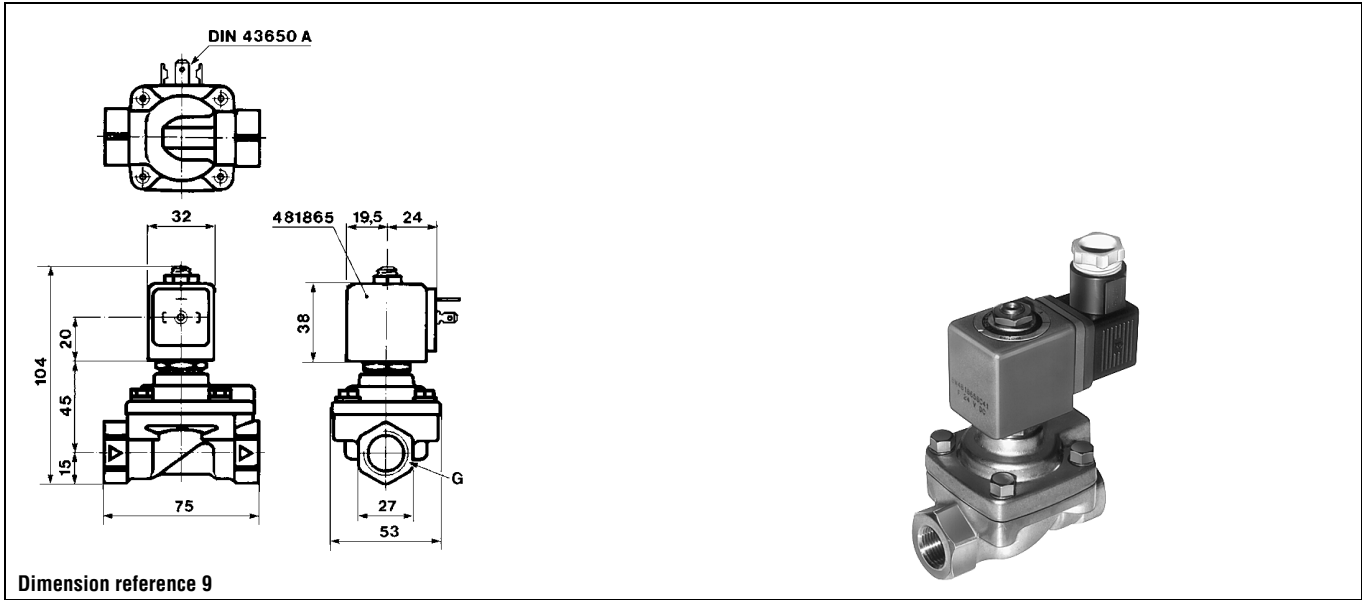
Notes:

* 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 oil (hydraulic) and neutral liquids 2/2 - Pilot operated

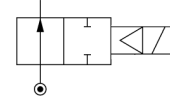


Valves for oil (hydraulic) and neutral liquids 2/2 - Pilot operated

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

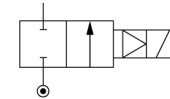
Brass body/Pipe mounting

Normally open



1/4	8	36	36	0.3	2	25	40	100	NBR	7322HBG2SN00	322H71	¹	2995	481865	9	8	840		9
	8	36	36	0.3	2	30	40	100	NBR				4270	481000	8	8	960		
3/8	11	50	50	0.3	2	40	40	100	FKM	7322HBG3TV00	322H7306	¹	2995	481865	9	8	800		9
	11	50	50	0.3	2	40	40	100	FKM				4270	481000	8	8	920		
	11	50	50	0.3	2	40	40	140	FKM				4270	486265	14	14	930		
	11	50	50	0.3	2	40	40	100	NBR	7322HBG3TN00	322H73	¹	2995	481865	9	8	800		9
1/2	14.5	60	60	0.3	2	40	40	100	FKM	7322HBG4UV00	322H7506	¹	2995	481865	9	8	760		9
	14.5	60	60	0.3	2	40	40	120	FKM				4270	481000	8	8	880		
	14.5	60	60	0.3	2	40	40	140	FKM				4270	486265	14	14	890		
	14.5	60	60	0.3	2	40	40	100	NBR	7322HBG4UN00	322H75	¹	2995	481865	9	8	760		9
	14.5	60	60	0.3	2	40	40	100	NBR				4270	481000	8	8	880		

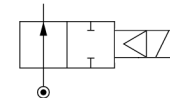
Normally closed



Brass body/Sub-base mounting

SB	14	45	45	0.3	2	25	40	100	FKM	7321FBF3TV00	E321F3202	¹	2995	481865	9	8	650	2	13
	14	45	45	0.3	2	30	40	120	FKM				4270	481000	8	8	770	2	
	14	45	45	0.3	2	40	40	120	FKM				4270	486265	14	14	780	2	
	14	45	45	0.3		25	40	100	NBR	7321FBF3TN00	E321F32	¹	2995	481865	9	8	650	2	13
	14	45	45	0.3		30	40	100	NBR				4270	481000	8	8	770	2	
	14	45	45	0.3		40	40	100	NBR				4270	486265	14	14	780	2	

Normally open



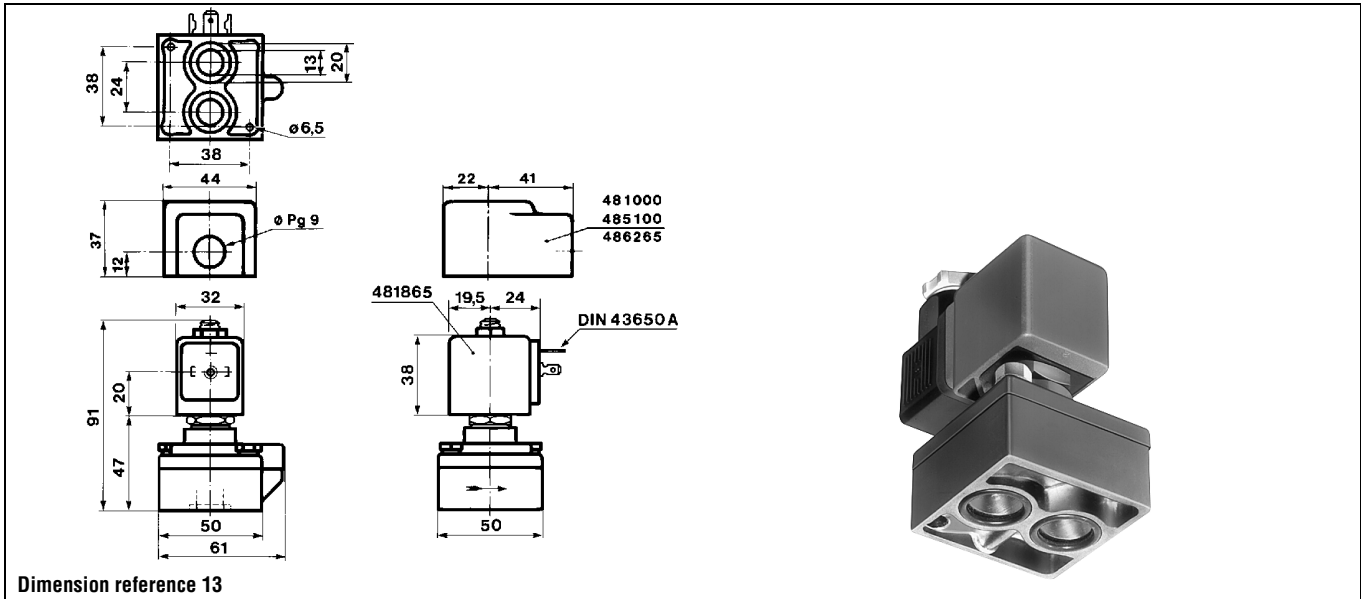
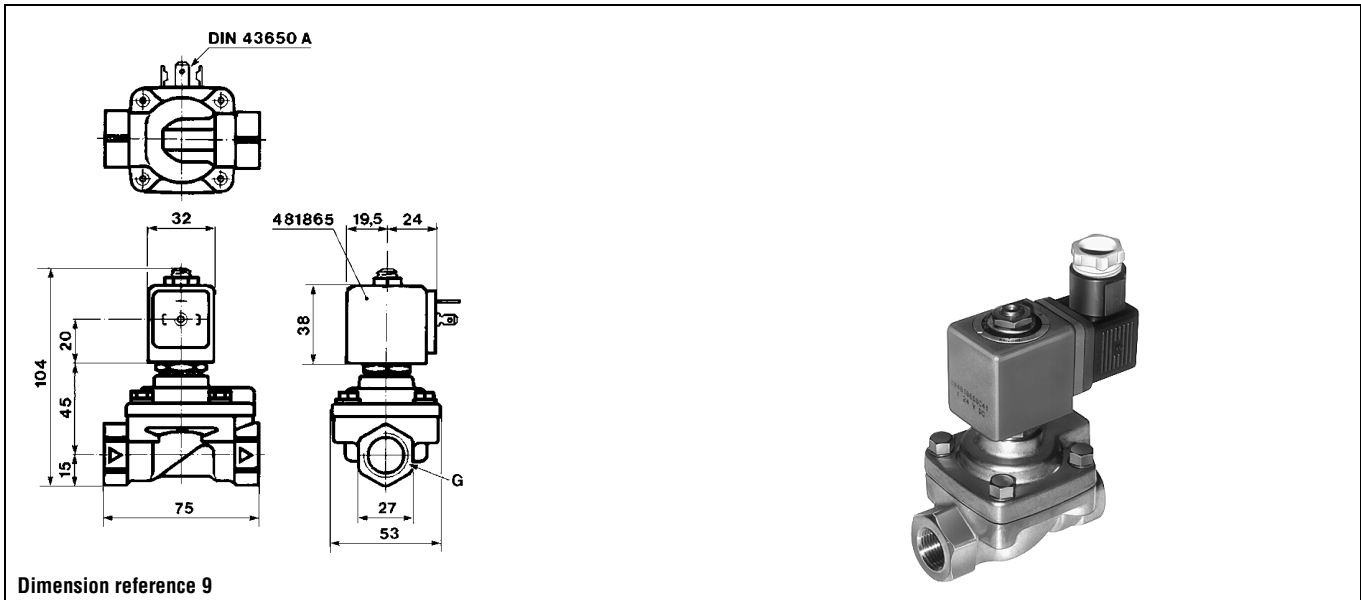
Brass body/Sub-base mounting

SB	14	45	45	0.3	2	40	40	100	FKM	7322FBF3TV00	322F7206	¹	2995	481865	9	8	650		13
	14	45	45	0.3	2	40	40	120	FKM				4270	481000	8	8	770		
	14	45	45	0.3	2	40	40	140	FKM				4270	486265	14	14	780		
	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 oil (hydraulic) and neutral liquids 2/2 - Pilot operated



Electrical parts options with 2/2 valves for oil (hydraulic) 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 10 / IP 44	Class F	8 W	8 W	EZ01	481000	screw-terminals	E0	4270	-40	50
		IP 10 / IP 44	Class H	8 W	8 W	EZ02	485100	screw-terminals	E0	4270	-40	50
		IP 10 / 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)	IP 10 / IP 44	Class F	-	11 W	MZ01	484990	screw-terminals	E1	4269	-40	50
		IP 10 / 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.