

DESCRIPTION

Solenoid valve 2 way normally closed with servo-assisted diaphragm

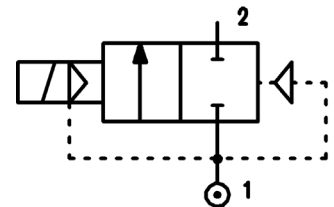
CONSTRUCTION

Body and cover	Brass
Armature tube	AISI 303
Plunger and core	AISI 430FR
Springs	AISI 302
Seal material	NBR - FPM - EPDM



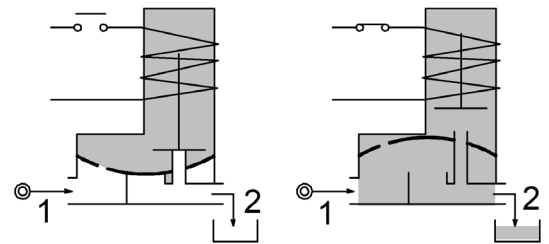
FEATURES

- Minimum differential pressure 0.15bar
- Maximum allowable pressure PS 25bar^④
- Maximum fluid viscosity 25cSt (mm²/s)
- Ambient temperature: from -10°C to +80°C according to the coil
- Preferred mounting position with vertical coil above



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- OPTIONS:**
- Manual override
 - Electroless nickel plating
 - Series 7 explosion proof coil according to ATEX - EExmII
 - Version with slow closing diaphragm
 - Version for vacuum applications (air/gas)
 - US certified coils



CODE ① ②	Connection G ISO 228	Orifice mm	Kv m ³ /h	Differential pressure bar			Nominal power			Coil		Seal ①	Temp. range °C
				Min	Max AC DC		AC Inrush	VA Holding	DC Watt	Series	Width		
E107B...10///...	1/4"	10	1.5	0.15	15	15	12	8	6.5	3	22	NBR=B	-10 +90
E107C...10///...	3/8"	10	1.7	0.15	15	15							
E107C...12///...	3/8"	12	2.2	0.15	15	15							
E107D...12///...	1/2"	12	2.5	0.15	15	15							
E107E...18///...	3/4"	18	5.5	0.15	13	13							
E107F...25///...	1"	25	10.2	0.15	10	10							
E107G...30///...	1" 1/4	30	15	0.15	10	10	15	11	5	4	30	NBR=B	-10 +90
③E107C...12/W/...	3/8"	12	2.2	0.5	25	25							
③E107D...12/W/...	1/2"	12	2.5	0.5	25	25							

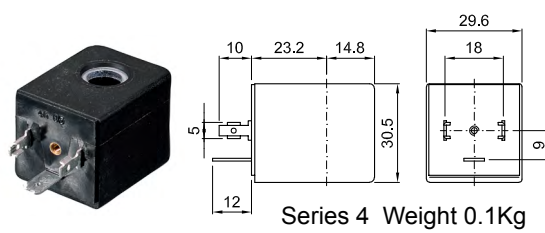
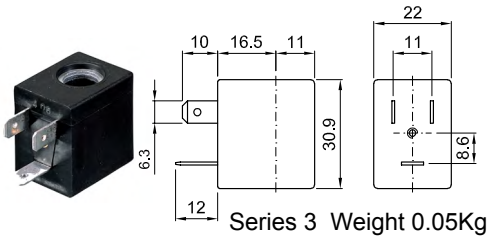
- ① Seal
 - ② Coil
 - ③ Reinforced diaphragm
 - ④ The maximum allowable pressure PS for steam 2,5bar (gauge pressure)
- Example: E107DB12///301 NBR seal
Coil 24V DC

COILS ②	Alternating Current 50/60Hz (V)							Direct Current (V)			Electrical connection	Connectors
	12	24	48	110	220 230	240	380	12	24	48		
Series 3 Width 22	30A	30B	30C	30D	30E	30F	30G	300	301	302	DIN 46244	PG9 code 10348000
Series 4 Width 30	40A	40B	40C	40D	40E	40F	40G	400	401	402	DIN 43650A	PG9 code 10349000

DESCRIPTION
 Class F insulation
 Voltage tolerance
 AC +15% -10%
 DC ± 10%
 Protection class
 IP65 with connector fitted
 IP00 without connector
 Continuous service ED100%

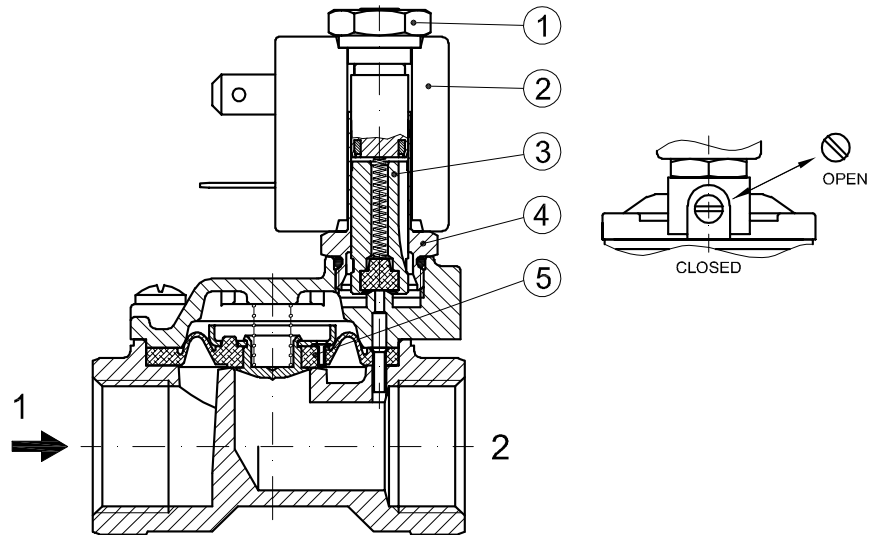
OPTIONS
 Class H insulation
 Cable attached
 Special coil voltage
 Special coil powers
 us certified coils

(for coil details see section 8)

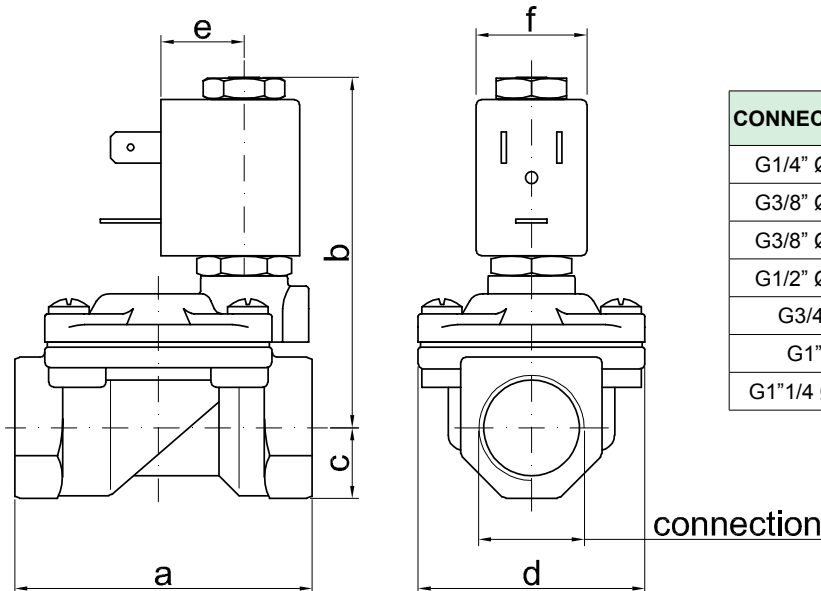


SPARE PARTS LIST

1. Coil fixing nut
2. Coil
3. Plunger
4. Armature tube with core
5. Diaphragm assembly



OVERALL DIMENSION



CONNECTION	a	b	c	d	e	f	weight Kg
G1/4" Ø10	49	65	11	32	16	22	0.23
G3/8" Ø10	49	65	11	32	16	22	0.24
G3/8" Ø12	59	70	14	45	16	22	0.42
G1/2" Ø12	59	70	14	45	16	22	0.39
G3/4"	79	76	18	55	16	22	0.65
G1"	96	85	20	72	16	22	1.05
G1 1/4" Ø30	119	92	25	85	16	22	1.70

DESCRIPTION

Solenoid valve 2 way normally closed with servo-assisted diaphragm

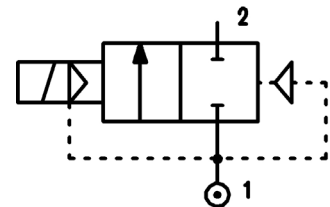
CONSTRUCTION

Body and cover	Brass
Armature tube	AISI 303
Plunger and core	AISI 430FR
Springs	AISI 302
Seal material	NBR - FPM - EPDM



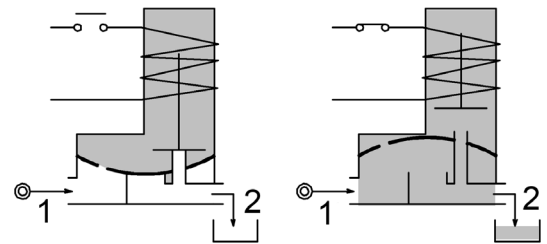
FEATURES

- Minimum differential pressure 0.15÷3bar
- Maximum allowable pressure PS 20bar^④
- Maximum fluid viscosity 25cSt (mm²/s)
- Ambient temperature: from -10°C to +80°C according to the coil
- Preferred mounting position with vertical coil above



4

- OPTIONS:**
- Manual override
 - Electroless nickel plating
 - Version for vacuum applications (air/gas)
 - us certified coils



CODE ① ②	Connection G ISO 228	Orifice mm	Kv m ³ /h	Differential pressure bar			Nominal power			Coil		Seal ①	Temp. range °C
				Min	Max		AC Inrush	VA Holding	DC Watt	Series	Width		
					AC	DC							
E107G...37///...	1"1/4	37	18	0.15	10	10	20	15	10	2	30	NBR=B EPDM=E FPM=V	-10 +90 -10 +140 -10 +140
E107H...37///...	1"1/2	37	21	0.15	10	10							
E107I...50///...	2"	50	36	0.15	10	10							
E107MB75///...	2"1/2	75	75	0.3	5	5	20	15	10	2	30	NBR=B	-10 +90
E107RB75///...	3"	75	84	0.3	5	5							
③E107MB75/W/...	2"1/2	75	75	3	15	15							
③E107RB75/W/...	3"	75	84	3	15	15							

- ① Seal
 - ② Coil
 - ③ Reinforced diaphragm
- Example: E107IB50///201 NBR seal
Coil 24V DC

④ The maximum allowable pressure PS for steam 2,5bar (gauge pressure)

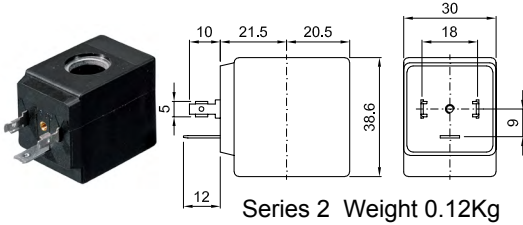
G2"1/2 e G3" SOLENOID VALVES

For applications with fluids listed in chapter 3 / group 1 of the PED Directive 2014/68 / EU (potentially hazardous or explosive fluids / mixtures) consider a PS value reduced to 15 bar max.

COILS ②	Alternating Current 50/60Hz (V)							Direct Current (V)			Electrical connection	Connectors
	12	24	48	110	220 230	240	380	12	24	48		
Series 2 Width 30	20A	20B	20C	20D	20E	20F	20G	200	201	202	DIN 43650A	PG9 code 10349000

DESCRIPTION
 Class F insulation
 Voltage tolerance
 AC +15% -10%
 DC ± 10%
 Protection class
 IP65 with connector fitted
 IP60 without connector
 Continuous service ED100%

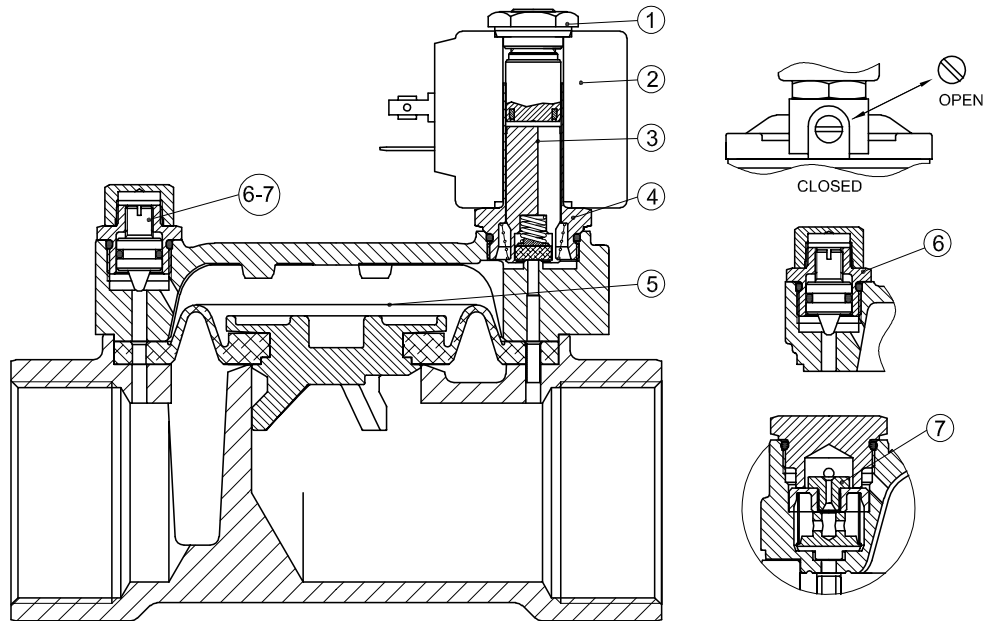
OPTIONS
 Class H insulation
 Cable attached
 Special coil voltage
 Special coil powers
 CE certified coils



(for coil details see section 8)

SPARE PARTS LIST

1. Coil fixing nut
2. Coil
3. Plunger
4. Armature tube with core
5. Diaphragm assembly
6. Speed control valve
7. Water hammering reducer
 $\varnothing 0.8$ - $\varnothing 1.2$ - $\varnothing 1.5$ (G2"1/2-3")



OVERALL DIMENSION

CONNECTION	a	b	c	d	e	f	weight Kg
G1"1/4	142	105	28	102	21	30	3.00
G1"1/2	142	105	28	102	21	30	2.85
G2"	158	115	35	119	21	30	4.30
G2"1/2	226	134	51	169	21	30	11.7
G3"	226	134	51	169	21	30	9.9