

DESCRIPTION

Solenoid valve 2 way normally closed
with servo-assisted diaphragm

CONSTRUCTION

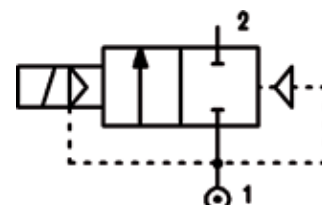
Body and cover	Brass
Armature tube	Stainless steel
Plunger and core	Stainless steel
Springs	Stainless steel
Seal material	NBR - FPM - EPDM



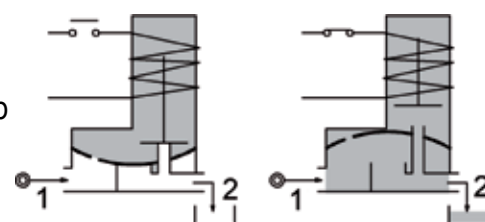
FEATURES

Minimum differential pressure 2.2÷7.2psi
Maximum fluid viscosity 25cSt (mm²/s)
Ambient temperature: +14°F +131°F (class F coil)
+14°F +140°F (UL certified coil)
Preferred mounting position with vertical coil above

OPTIONS: Manual override
Electroless nickel plating
Series 7 explosion proof coil according to
⊠ ATEX II 2G Ex mb IIC T6, T5, T4 Gb
II 2D Ex mb IIC T85°C, T100°C, T135°C Db
similar to NEC 505 Div.1 Class II IIC T6
Version with slow closing diaphragm
Version for vacuum applications (air/gas)



4



CODE ① ②	Port Size NPT	Orifice Size (in) (mm)		Flow Factor Cv (gpm)	Operating Pressure Differential (M.O.P.D.) ④								Nominal power AC (VA) Inrush Holding (W)			Coil Series Width (mm)		Seal ①	Temp. range (°F)
					Min (psi) (bar)		Max				DC (psi) (bar)								
							AC	AC	AC	AC									
E107BN...10///...	1/4	0.394	10	1.73	2.2	0.15	217	15	217	15	12	8	6.5	3	22	NBR=B EPDM=E FPM=V	+14 +194 +14 +284 +14 +284		
E107CN...10///...	3/8	0.394	10	1.97	2.2	0.15	217	15	217	15									
E107CN...12///...	3/8	0.472	12	2.54	2.2	0.15	217	15	217	15									
E107DN...12///...	1/2	0.472	12	2.89	2.2	0.15	217	15	217	15									
E107EN...18///...	3/4	0.709	18	6.36	2.2	0.15	188	13	188	13									
E107FN...25///...	1	0.984	25	11.79	2.2	0.15	145	10	145	10									
E107GN...30///...	1-1/4	1.181	30	17.34	2.2	0.15	145	10	145	10	15	11	8	4	30	NBR=B	+14 +194		
③E107CN...12/W/...	3/8	0.472	12	2.54	7.2	0.5	360	25	360	25									
③E107DN...12/W/...	1/2	0.472	12	2.89	7.2	0.5	360	25	360	25									

① Seal Ordination example: E107DNB12///U351 NBR seal, connection 1/2 NPT

② Coil Coil 24V DC certified  and marked 

③ Reinforced diaphragm

④ Safe Working Pressure:360 psi. Is the line or system pressure to which the valve may be subjected without being damaged.

The maximum allowable pressure PS for steam is 36 psi.

COILS Code ②	Alternating Current						Direct Current				Electrical connection	Connectors	DESCRIPTION Class F or H insulation Voltage tolerance ±10% Protection class: IP65 with connector attached IP00 without connector Continuous service ED100% OPTIONS Cable attached Special coil voltage Special coil power
	24V		120V		240V		12V		24V				
Series 3 Width 22mm	U35B 	30B	U35D 	30D	U35F 	30F	U350 	300	U351 	301	DIN 46244	PG9 code 10348000	
Series 4 Width 30mm	-	40B	-	40D	-	40F	U450 	400	U451 	401	DIN 43650A	PG9 code 10349000	

OVERALL DIMENSIONS

inches (mm)



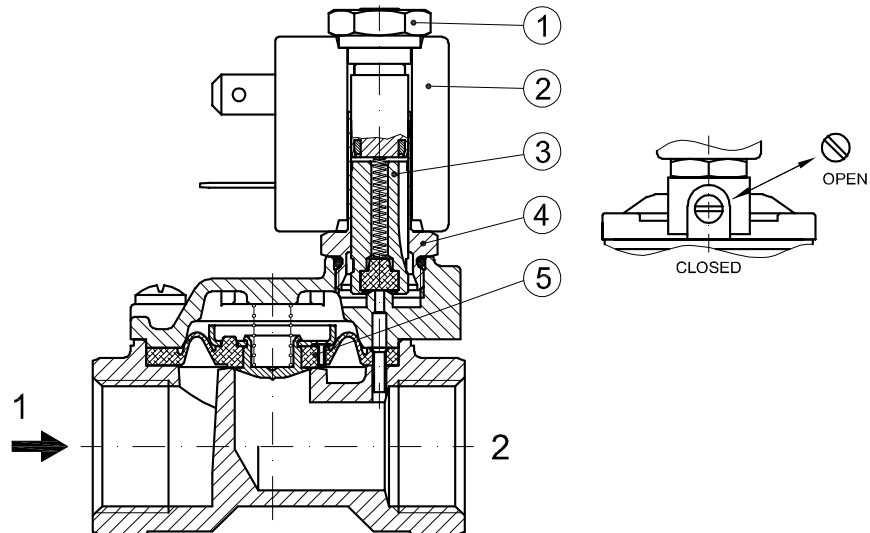
Series 3 Weight 0.11lb (0.05Kg)

Series 4 Weight 0.22lb (0.1Kg)

FOR COIL SPECIFICATION SEE SECTION 6

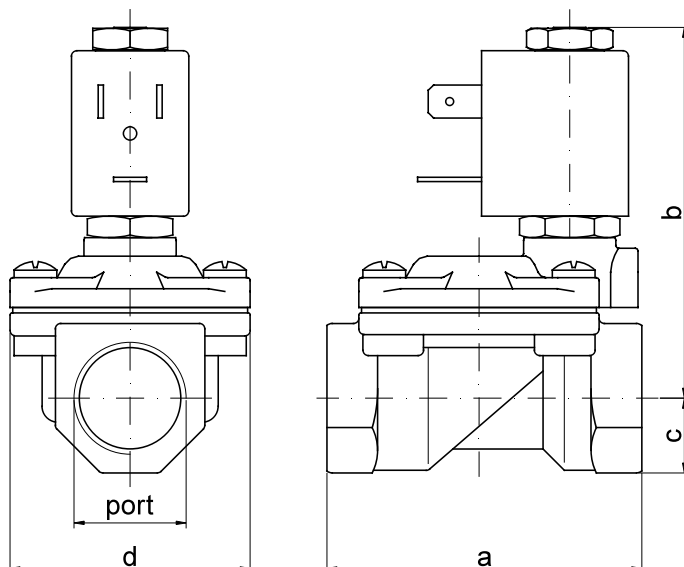
SPARE PARTS LIST

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



OVERALL DIMENSIONS

inches (mm)



PORT SIZE	a		b		c		d		weight	
	in	mm	in	mm	in	mm	in	mm	lb	Kg
1/4 Ø0.394 (Ø10)	1.93	49	2.56	65	0.43	11	1.26	32	0.53	0.24
3/8 Ø0.394 (Ø10)	1.93	49	2.56	65	0.43	11	1.26	32	0.51	0.23
3/8 Ø0.472 (Ø12)	2.32	59	2.76	70	0.55	14	1.77	45	0.93	0.42
1/2 Ø0.472 (Ø12)	2.32	59	2.76	70	0.55	14	1.77	45	0.86	0.39
3/4	3.11	79	2.99	76	0.71	18	2.17	55	1.43	0.65
1	3.78	96	3.35	85	0.79	20	2.83	72	2.31	1.05
1-1/4 Ø1.181 (Ø30)	4.69	119	3.62	92	0.98	25	3.35	85	3.75	1.70

DESCRIPTION

Solenoid valve 2 way normally closed
with servo-assisted diaphragm

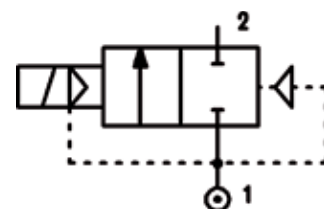
CONSTRUCTION

Body and cover	Brass
Armature tube	Stainless steel
Plunger and core	Stainless steel
Springs	Stainless steel
Seal material	NBR - FPM - EPDM



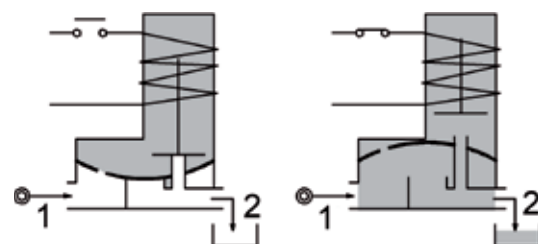
FEATURES

Maximum fluid viscosity 25cSt (mm²/s)
Minimum differential pressure 2.2÷4.4psi
Ambient temperature: +14°F +131°F (class F coil)
+14°F +140°F (UL certified coil)
Preferred mounting position with vertical coil above



4

OPTIONS: Manual override
Electroless nickel plating
Version for vacuum applications (air/gas)



CODE		Port Size	Orifice Size		Flow Factor Cv	Operating Pressure Differential (M.O.P.D.) ④						Nominal power			Coil		Seal	Temp. range
						Min		Max							Series	Width		
								AC		DC		AC (VA)	DC	①				
①	②	NPT	(in)	(mm)	(gpm)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	Inrush	Holding	(W)		(mm)		
E107GN...37///...	1-1/4	1.457	37	20.8	2.2	0.15	145	10	145	10	20	15	10	2	30	NBR=B EPDM=E FPM=V	+14 +194	
E107HN...37///...	1-1/2	1.457	37	24.3	2.2	0.15	145	10	145	10							+14 +284	
E107IN...50///...	2	1.969	50	41.6	2.2	0.15	145	10	145	10							+14 +284	
E107MNB75///...	2-1/2	2.953	75	86.7	4.4	0.3	72.5	5	7.5	5	20	15	10	2	30	NBR=B	+14 +194	
E107RNB75///...	3	2.953	75	97.1	4.4	0.3	72.5	5	7.5	5								
③E107MNB75/WI...	2-1/2	2.953	75	86.7	44	3	217	15	217	15								
③E107RNB75/WI...	3	2.953	75	97.1	44	3	217	15	217	15								

① Seal

Ordination example: E107INB50///U251 NBR seal, connection 2 NPT

② Coil

Coil 24V DC certified  and marked 

③ Reinforced diaphragm

④ Safe Working Pressure:290 psi. Is the line or system pressure to which the valve may be subjected without being damaged.

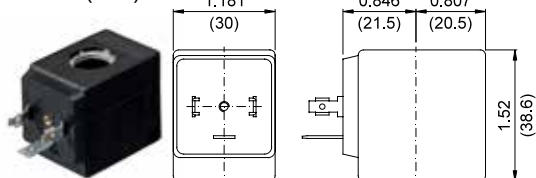
The maximum allowable pressure PS for steam is 36 psi.

COILS Code ②	Alternating Current						Direct Current				Electrical connection	Connectors
	24V		120V		240V		12V		24V			
Series 2 Width 30mm	U25B c 	20B	U25D c 	20D	U25F c 	20F	U250 c 	200	U251 c 	201	DIN 43650A	PG9 code 10349000

DESCRIPTION
Insulation class F or H
Voltage tolerance $\pm 10\%$
Protection class:
IP65 with connector attached
IP00 without connector
Continuous service ED100%

OVERALL DIMENSIONS

inches (mm)



Series 2 Weight 0.26lb (0.12Kg)

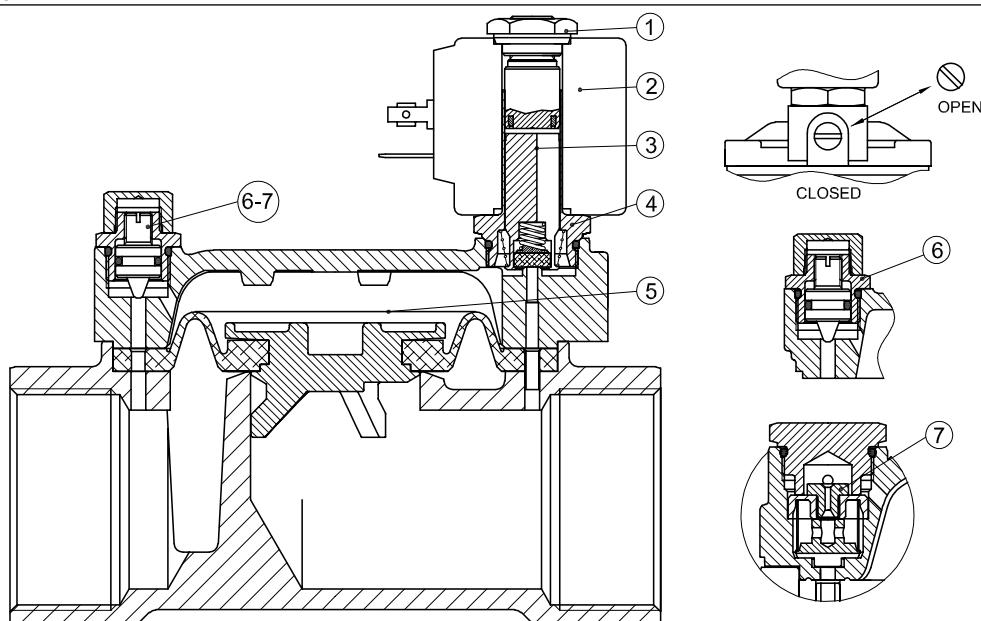
OPTIONS

Cable attached
Special coil voltage
Special coil powers

FOR COIL SPECIFICATION SEE SECTION 6

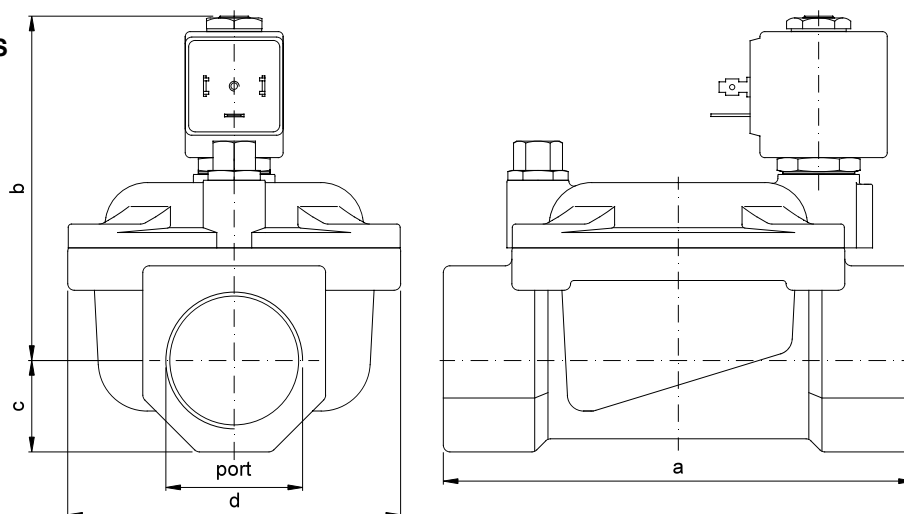
SPARE PARTS LIST

- Coil fixing nut
- Coil
- Plunger assembly
- Armature tube assembly
- Diaphragm assembly
- Speed control valve
- Water hammering reducer
 $\varnothing 0.03$ - $\varnothing 0.039$ - $\varnothing 0.04$
($\varnothing 0.8$ - $\varnothing 1.2$ - $\varnothing 1.5$)



OVERALL DIMENSIONS

inches (mm)



PORT SIZE	a		b		c		d		weight	
	in	mm	in	mm	in	mm	in	mm	lb	Kg
1-1/4	5.59	142	4.13	105	1.1	28	4.02	102	6.61	3
1-1/2	5.59	142	4.13	105	1.1	28	4.02	102	6.28	2.85
2	6.22	158	4.53	115	1.38	35	4.69	119	9.48	4.3
2-1/2	8.9	226	5.28	134	2.01	51	6.65	169	25.8	11.7
3	8.9	226	5.28	134	2.01	51	6.65	169	21.8	9.9