

# 307 Series Valves



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**RANKIN**   
COMPONENTS THAT AUTOMATE

## DESCRIPTION

Solenoid valve 3 way normally open  
direct acting poppet type

## CONSTRUCTION

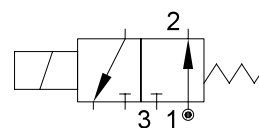
Body	Brass
Armature tube	Brass
Plunger and core	AISI 430FR
Springs	AISI 302
Seal material	NBR - FPM - EPDM




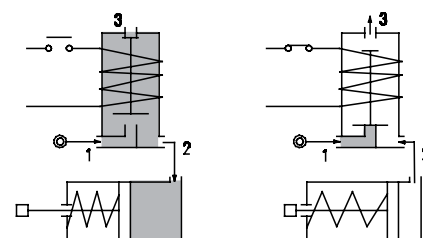
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## FEATURES



Maximum fluid viscosity 25cSt (mm<sup>2</sup>/s)  
Ambient temperature: from +14°F to +176°F according to the coil  
Universal mounting position



**OPTIONS:** Stainless steel armature tube  
Electroless nickel plating  
Exhaust port with hosedtail connection  
Series 7 explosion proof coil according to  
 ATEX II 2G Ex mb IIC T6, T5, T4 Gb  
 II 2D Ex mb IIIC T85°C, T100°C, T135°C Db  
 similar to NEC 505 Div.1 Class II IIC T6



CODE ① ②	Port Size NPT	Orifice Size				Flow Factor Cv (gpm)	Operating Pressure Differential (M.O.P.D.) ③				Nominal power			Coil		Seal ①	Temp. range (°F)	
		Inlet		Exhaust			Min	Max		Inrush	DC Holding	Series	Width					
		(in)	(mm)	(in)	(mm)			AC (psi)	DC (psi)					(VA)	(W)			(mm)
E307AN...12///...	1/8	0.047	1.2	0.047	1.2	0.046	0	174	12	116	8	12	8	-	3	22	NBR=B	+14 +194
E307AN...15///...		0.059	1.5	0.047	1.2	0.069	0	130	9	87	6						EPDM=E	+14 +284
E307AN...12///...	1/8	0.047	1.2	0.047	1.2	0.046	0	174	12	116	8	15	11	8	4	30	FPM=V	+14 +284
E307AN...15///...		0.059	1.5	0.047	1.2	0.069	0	130	9	87	6							

- ① Seal Ordination example: E307ANB15///U35B NBR seal, connection 1/8 NPT  
 ② Coil Coil 24V 60Hz certified  us and marked   
 ③ Safe Working Pressure: M.O.P.D. +10%.  
 Is the line or system pressure to which the valve may be subjected without being damaged.  
 ④ Direct current (DC) series 3 coil available only without UL certification

COILS Code ②	Alternating Current						Direct Current				Electrical connection	Connectors
	24V		120V		240V		12V		24V			
Series 3 Width 22mm	U35B cULUS	30B	U35D cULUS	30D	U35F cULUS	30F	-	300	-	301	DIN 46244	PG9 code 10348000
Series 4 Width 30mm	-	40B	-	40D	-	40F	U450 cULUS	400	U451 cULUS	401	DIN 43650A	PG9 code 10349000

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

**OPTIONS**  
 Cable attached  
 Special coil voltage  
 Special coil powers

### OVERALL DIMENSIONS

inches (mm)



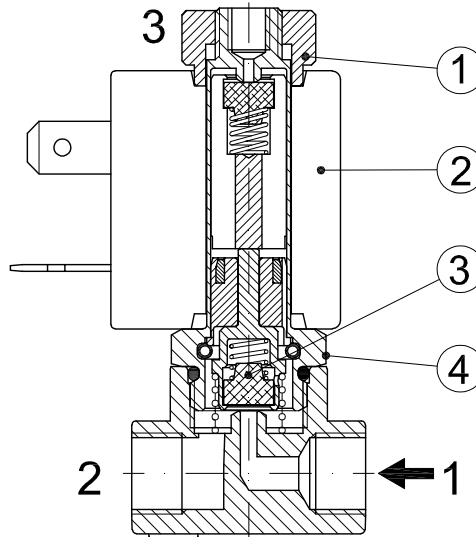
Series 3 Weight 0.11lb (0.05Kg)

Series 4 Weight 0.22lb (0.1Kg)

**FOR COIL SPECIFICATION SEE SECTION 6**

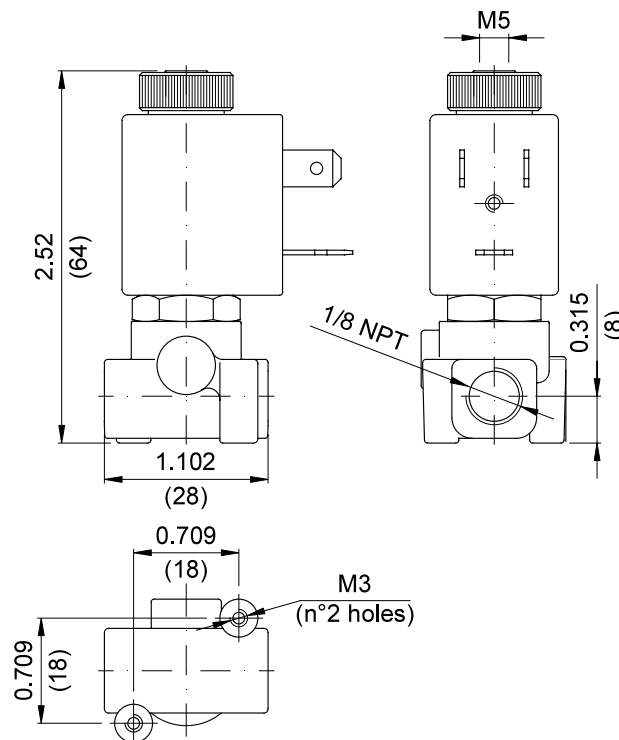
### SPARE PARTS LIST

1. Coil fixing nut
2. Coil
3. Seal assembly
4. Armature tube assembly



### OVERALL DIMENSIONS

inches (mm)



Weight=0.27lb (0.13Kg)