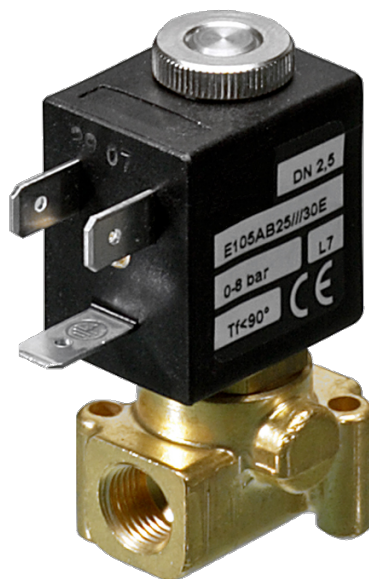


105 Series Valves



800.909.4988
info@rankinusa.com

RANKIN 
COMPONENTS THAT AUTOMATE

DESCRIPTION

Solenoid valve 2 way normally closed
direct acting poppet type

CONSTRUCTION

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

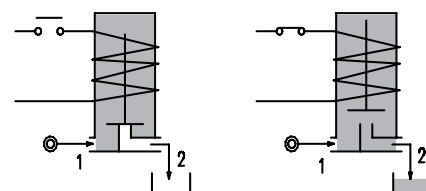
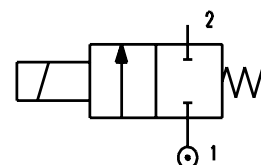


2

FEATURES

Maximum fluid viscosity 25cSt (mm²/s)
Ambient temperature: from +14°F to +176°F according to the coil
Universal mounting position








- OPTIONS:** Stainless steel armature tube
Electroless nickel plating
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
 Manual override
 Version for use with industrial oxygen



ON REQUEST: Versions for use with fluid temperature at -40°C

CODE ① ②	Port Size NPT	Orifice Size (in) (mm)		Flow Factor Cv (gpm)	Operating Pressure Differential (M.O.P.D.) ③				Nominal power			Coil		Seal ①	Temp. range (°F)	
					Min	Max		AC Inrush (VA)	DC Holding (W)	Series	Width (mm)					
						AC (psi) (bar)	DC (psi) (bar)									
E105AN...12///...	1/8	0.047	1.2	0.046	0	362	25	362	25	12	8	6.5	3	22	NBR=B	+14 +194
E105AN...15///...		0.059	1.5	0.069	0	261	18	232	16							
E105AN...20///...		0.079	2	0.104	0	174	12	145	10							
E105AN...25///...		0.098	2.5	0.162	0	108	7.5	65	4.5							
E105AN...31///...		0.118	3	0.220	0	65	4.5	29	2							
E105AN...40///...		0.157	4	0.405	0	36	2.5	17	1.2							
E105AN...20///...	1/8	0.079	2	0.104	0	362	25	217	15	15	11	8	4	30	FPM=V	+14 +284
E105AN...25///...		0.098	2.5	0.162	0	232	16	116	8							
E105AN...31///...		0.118	3	0.220	0	116	8	79	4							
E105AN...40///...		0.157	4	0.405	0	72.5	5	36	2.5							

- ① Seal Ordination example: E105ANB20///U351 NBR seal, connection 1/8 NPT
 ② Coil Coil 24V DC certified and marked
 ③ Safe Working Pressure: 725 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%
	24V		120V		240V		12V		24V				
Series 3 Width 22mm	U35B c 	30B	U35D c 	30D	U35F c 	30F	U350 c 	300	U351 c 	301	DIN 46244	PG9 code 10348000	
Series 4 Width 30mm	-	40B	-	40D	-	40F	U450 c 	400	U451 c 	401	DIN 43650A	PG9 code 10349000	

OVERALL DIMENSIONS

inches (mm)



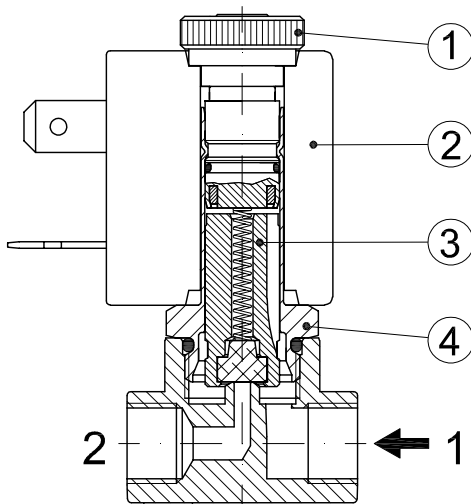
Series 3 Weight 0.11lb (0.05Kg)

Series 4 Weight 0.22lb (0.1Kg)

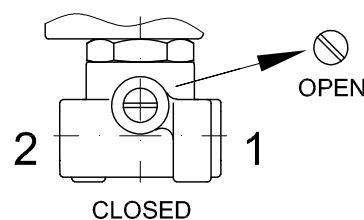
FOR COIL SPECIFICATION SEE SECTION 6

SPARE PARTS LIST

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

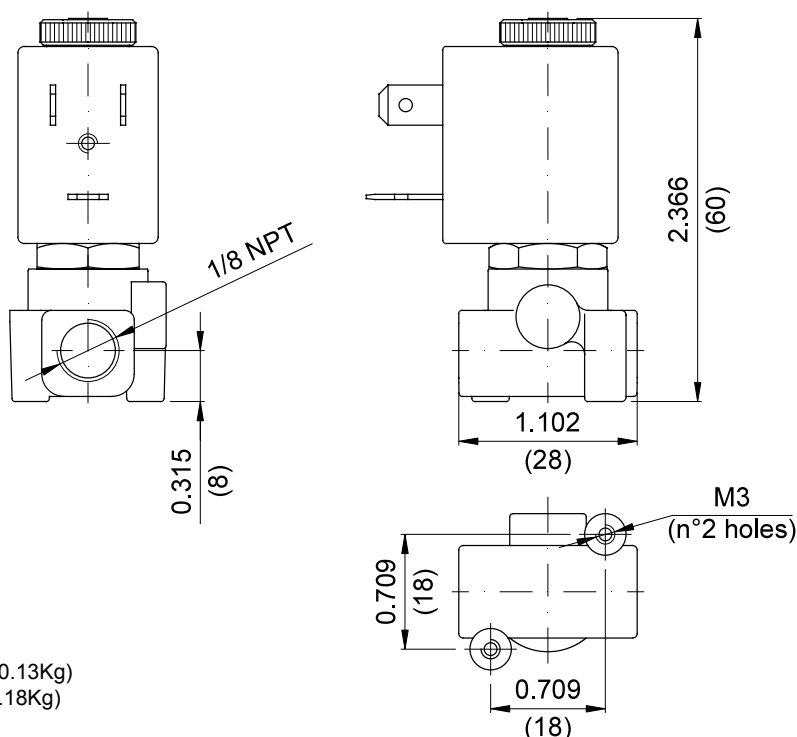


MANUAL OVERRIDE



OVERALL DIMENSIONS

inches (mm)



Weight with coil series 3=0.29lb (0.13Kg)

Weight with coil series 4=0.4lb (0.18Kg)