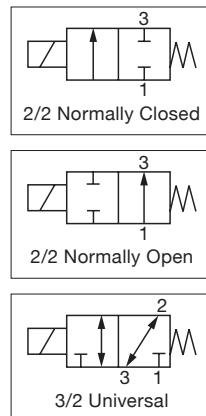


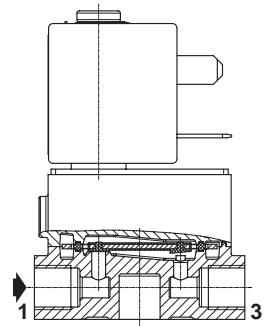
## ASCO™ MINIATURE SOLENOID VALVES

FLAPPER SOLENOID FLUID ISOLATION VALVES, 22mm

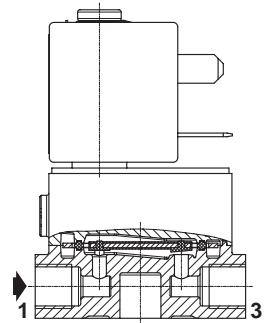
- Flapper isolation valves are designed for use with neutral or highly aggressive liquids in analytical and medical systems
- Special Flapper mechanism results in no pumping or sticking effects
- Reduced heat transfer between control mechanism and fluid make them ideal for use with heat-sensitive reagents and biological samples
- Hermetic separation of control mechanism prevents particulate contamination caused by friction of moving parts, assuring maximum purity of liquid samples
- Excellent self-draining capability and easy-to-flush low-volume internal cavity make these valves ideal in application where cross-contamination must be minimized
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
  - In-vitro Diagnostics
  - Hematology
  - DNA Sequencing
  - Industrial Liquid Analyzers



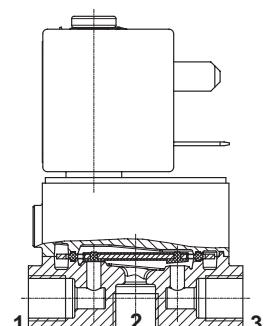
## Functional Principle



Function 2/2 NC



Function 2/2 NO



Function 3/2 U

Fluids*	Temperature Range	Seal Materials*
Liquids or Gases <sup>1</sup>	5 °C to 50 °C (41 °F to 122 °F)	FFKM
		FKM
		EPDM

<sup>1</sup> Filtration: 50µm

\* Ensure that the compatibility of the materials in contact with the fluids is verified

## General Valve Information

Body	PEEK
Others	Stainless Steel
Response Time	< 10ms
Internal Volume	0.48ml
Max. Viscosity	20 cSt (mm <sup>2</sup> /s)

## Electrical Characteristics

Coil Insulation Class	F	
Connector	Spade plug (Ø6 to 8mm) or Lead Wires <sup>1</sup>	
Connector Specification	DIN 43650, 11mm (0.43in), industry standard B	
Electrical Safety	IEC 335 (lead wires: EN 60730)	
Electrical Enclosure Protection	Molded IP65 (EN 60529)	
Standard Voltages*	12 VDC, 24 VDC (-5%/+10%)	

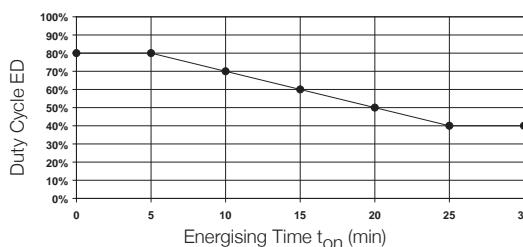
\* Other voltages on request

<sup>1</sup> 0.45m (17.7in) lead wires

Prefix Option	Power Ratings				Ambient Temperature Ranges	Replacement Coil		Type <sup>1</sup>
	Inrush	Holding	Hot/Cold	W		12 VDC	24 VDC	
	VA	VA	W	W	9.6	400129-005	-	
S1	-	-	-		5 to 50 (50 to 122)	-	400129-007	01
				10				
L0	-	-	-	-	5 to 50 (50 to 122)	400119-011D	400119-008D	02

<sup>1</sup> Refer to the drawings on following pages

## RECOMMENDATION FOR MAXIMUM DUTY CYCLE

De-energising time:  $t_{off} = t_{on} \times (100\% / ED - 1)$ 

Example:

1) Determine energising time in minutes ( $t_{on}$ ): $t_{on} = 15$  min

2) Find maximum duty cycle value in diagram:

ED = 60%

3) Calculate de-energising time:

 $t_{off} = 15 \text{ min} \times (100\% / 60\% - 1) = 10 \text{ min}$ 

4) Complete cycle time:

 $t_{cycle} = t_{on} + t_{off} = 15 \text{ min} + 10 \text{ min} = 25 \text{ min}$ 

Note: 100% duty cycle possible when using the power-save connector (catalogue number [24 V DC]: 88100934, catalogue number [12 V DC]: 833-150063)

## Specifications

Connection	Orifice Size mm (inches)	Flow Coefficient		Operating Pressure bar (psi)		Power Rating W	Catalog Number Body PEEK
		Kv (m³/h)	Cv	min.	max. gases or liquids		
<b>2/2 NC - Normally Closed</b>							
G1/8	2 (0.079)	0.10	0.12	-0.9 (-13)	5 (72.5)	10	G068A317xxx00xx
	3 (0.118)	0.16	0.18	-0.9 (-13)	3 (43)	10	G068A318xxx00xx
	4 (0.157)	0.30	0.35	-0.9 (-13)	1.5 (22)	10	G068A319xxx00xx
Pad Mounting1	2 (0.079)	0.10	0.12	-0.9 (-13)	5 (72.5)	10	R068A317xxx00xx
	3 (0.118)	0.16	0.18	-0.9 (-13)	3 (43)	10	R068A318xxx00xx
	4 (0.157)	0.30	0.35	-0.9 (-13)	1.5 (22)	10	R068A319xxx00xx
<b>2/2 NO - Normally Open</b>							
G1/8	2 (0.079)	0.10	0.12	-0.9 (-13)	5 (72.5)	10	G068A327xxx00xx
	3 (0.118)	0.16	0.18	-0.9 (-13)	2 (29)	10	G068A328xxx00xx
	4 (0.157)	0.30	0.35	-0.9 (-13)	1 (14.5)	10	G068A329xxx00xx
Pad Mounting1	2 (0.079)	0.10	0.12	-0.9 (-13)	5 (72.5)	10	R068A327xxx00xx
	3 (0.118)	0.16	0.18	-0.9 (-13)	2 (29)	10	R068A328xxx00xx
	4 (0.157)	0.30	0.35	-0.9 (-13)	1 (14.5)	10	R068A329xxx00xx
<b>3/2 U-Universal</b>							
G1/8	2 (0.079)	0.10	0.12	-0.9 (-13)	5 (72.5)	10	G068A337xxx00xx
	3 (0.118)	0.16	0.18	-0.9 (-13)	2 (29)	10	G068A338xxx00xx
	4 (0.157)	0.30	0.35	-0.9 (-13)	1 (14.5)	10	G068A339xxx00xx
Pad Mounting1	2 (0.079)	0.10	0.12	-0.9 (-13)	5 (72.5)	10	R068A337xxx00xx
	3 (0.118)	0.16	0.18	-0.9 (-13)	2 (29)	10	R068A338xxx00xx
	4 (0.157)	0.30	0.35	-0.9 (-13)	1 (14.5)	10	R068A339xxx00xx

1 4 hexagon socket head cap mounting screws M3 x 8mm (0.31in), stainless steel, ISO 4762 supplied

## How to Order

R 068A 3 1 8 S1 V 00 F1

## Prefix

R = Pad Mount  
G = G 1/8

## Series and release

## Mounting width

3 = 22mm

## Function

1 = 2/2 NC  
2 = 2/2 NO  
3 = 3/2 U

## Voltage

F1 = 24 VDC  
F3 = 12 VDC

## Valve type

00 = On/off valve

## Seal material

V = FKM  
1 = FFKM  
E = EPDM

## Electrical connection

S1 = DIN spade plug  
L0 = Leaded coil

## Orifice size

7 = 2.0mm  
8 = 3.0mm  
9 = 4.0mm

## Options

- Subbases available on request
- Power-save connector (2.5 W after 140ms of operation),  
24 VDC version: 88100934, 12 VDC version: 833-150063
- Impulse manual operator

## Installation

- The solenoid valves can be mounted in any position without affecting operation
- Pad-mounting solenoid valve supplied with seal
- Pipe connections 1/8 have standard thread according to ISO 228/1

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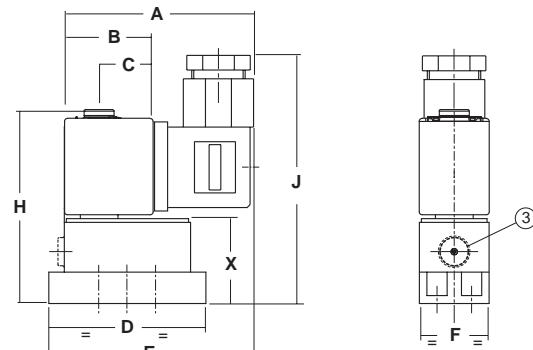
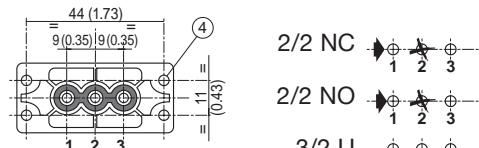
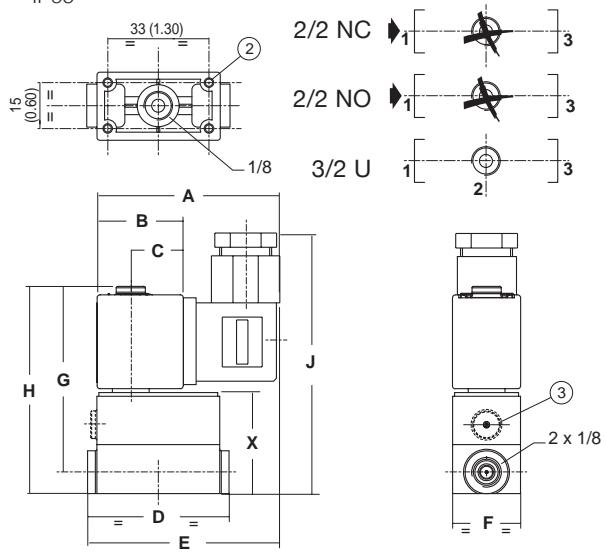
# ASCO™ MINIATURE SOLENOID VALVES

## FLAPPER SOLENOID FLUID ISOLATION VALVES, 22mm

### Dimensions: mm (inches)

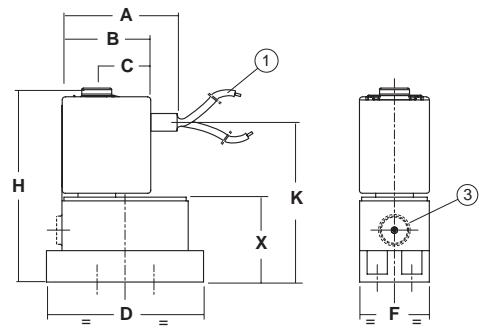
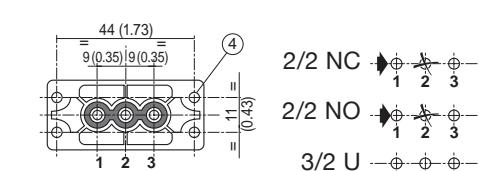
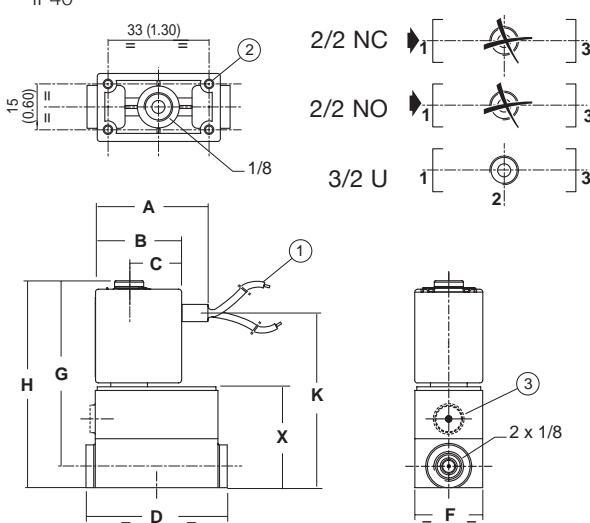
#### Type 01

Solenoid with spade plug connector (S1)  
Epoxy molded  
IEC 335/DIN 43650  
IP65



#### Type 02

Leaded coil (L0)  
IEC 335, lead wires:  
0.45m (17.7in) long  
IP40



Type	Prefix Option	Catalog Number	A	B	C	D	E	F	G	H	J	K	X	weight kg <sup>1</sup>
01	S1	G068A...S1..	60 (2.36)	28.5 (1.12)	17.5 (0.69)	46.2 (1.82)	62.5 (2.46)	22.3 (0.88)	60.8 (2.40)	67.8 (2.67)	82 (3.23)	-	33 (1.30)	0.130
		R068A...S1..	60 (2.36)	28.5 (1.12)	17.5 (0.69)	50 (1.97)	65 (2.56)	22.3 (0.88)	-	61.8 (2.43)	76 (3.00)	-	27 (1.06)	0.124
02	L0	G068A...L0..	35 (1.38)	28.5 (1.12)	17.5 (0.69)	46.2 (1.82)	-	22.3 (0.88)	60.8 (2.40)	67.8 (2.67)	-	56.5 (2.22)	33 (1.30)	0.124
		R068A...L0..	35 (1.38)	28.5 (1.12)	17.5 (0.69)	50 (1.97)	-	22.3 (0.88)	-	61.8 (2.43)	-	50.5 (1.99)	27 (1.06)	0.120

<sup>1</sup> Type 01: includes coil(s) and connector(s); Type 02: with 0.45m (17.7in) lead wires

(1) 2 wires, length 0.45m (17.7in)

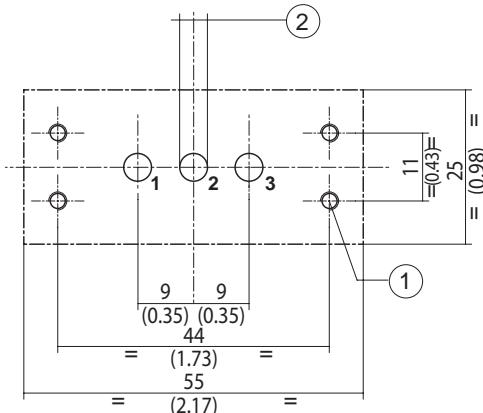
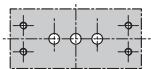
(2) 4 mounting holes, max. depth 7mm (0.27in), for self-tapping screw (type EJOT PT, K30)

(3) Manual operator location

(4) 4 mounting holes Ø3.2mm (0.126in)  
(4 hexagon socket head cap mounting screws M3 x 8mm (0.315in), stainless steel, ISO 4762 supplied)

## Dimensions: mm (inches)

## Subbase Mounting Pattern



(1) 4 mounting holes Ø3.2mm (0.126in)  
(2) Max. diameter 4.5mm (0.177in) 3x

2/2 NC

2/2 NO

3/2 U

