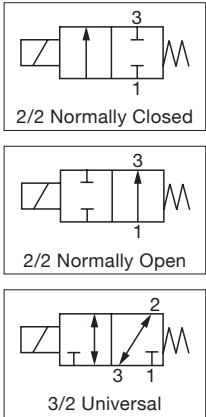


# **ASCO™ MINIATURE SOLENOID VALVES** **FLAPPER FLUID ISOLATION VALVES, 16mm**

- 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 and fluid 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



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	< 20ms
Internal Volume	75µl
Max. Viscosity	20 cSt (mm²/s)

Electrical Characteristics	
Coil Insulation Class	F
Connector	Spade terminals or lead wires <sup>2</sup>
Connector Specification	Spade terminals: DIN 46340, lead wires: 24 AWG
Electrical Safety	IEC 335
Electrical Enclosure Protection	Molded IP65 spade terminals (EN 60529) Molded IP66 lead wires (EN 60529)
Standard Voltages*	12 VDC, 24 VDC (-5%/+10%)

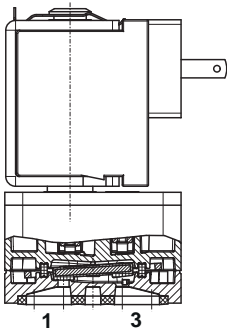
Electrical Connection	Power Ratings			Ambient Temperature Range	Type1
	Inrush	Holding	Hot/Cold		
	VA	VA	W		
S0	-	-	-	5 to 50 (41 to 122)	01
L0	-	-	-		02

\* Other voltages or coil with red LED for power supply signal on request

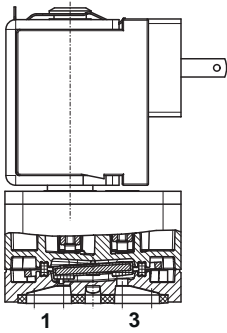
<sup>1</sup> Refer to the drawings on following pages

<sup>2</sup> 0.5m (19.7in) lead wires

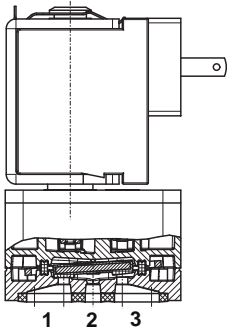
## **Functional Principle**



Function 2/2 NC



Function 2/2 NO



Function 3/2 U

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Specifications						
Connection	Orifice Size	Flow Coefficient		Operating Pressure bar (psi)		Power Rating (W)
				min.	max. gases or liquids	
Pad Mounting <sup>1</sup>	0.8 (0.031)	0.021	0.024	-0.9 (-13)	8 (116)	4
	1.2 (0.047)	0.036	0.042	-0.9 (-13)	4 (58)	4
	1.6 (0.063)	0.042	0.049	-0.9 (-13)	2 (29)	4
1/4-28 UNF	0.8 (0.031)	0.021	0.024	-0.9 (-13)	8 (116)	4
	1.2 (0.047)	0.036	0.042	-0.9 (-13)	4 (58)	4
	1.6 (0.063)	0.042	0.049	-0.9 (-13)	2 (29)	4
Push-in Hose Connection	0.8 (0.031)	0.021	0.024	-0.9 (-13)	8 (116)	4
	1.2 (0.047)	0.036	0.042	-0.9 (-13)	4 (58)	4
	1.6 (0.063)	0.042	0.049	-0.9 (-13)	2 (29)	4

<sup>1</sup> 2 hexagon socket head cap mounting screws M2.5, stainless steel, supplied

## How to Order

<b>Prefix</b>	<b>R 068A 2 1 2 SO V 00 F1</b>	<b>Voltage</b>
R = Pad Mount		F1 = 24 VDC
0 = 1/4-28 UNF		F3 = 12 VDC
6 = Push-in hose connection		
<b>Series and release</b>		<b>Valve type</b>
		00 = On/off valve
<b>Mounting width</b>		<b>Seal material</b>
2 = 16mm		V = FKM
		1 = FFKM
		E = EPDM
<b>Function</b>		<b>Electrical connection</b>
1 = 2/2 NC		S0 = DIN spade plug
2 = 2/2 NO		L0 = Leaded coil
3 = 3/2 U		
		<b>Orifice size</b>
		2 = 0.8mm
		4 = 1.2mm
		6 = 1.6mm

## Options

Description	Catalog Number
Push-in-Hose Barb Kit 3/2	
Subbase Qty: 1	534662-001
Hex nut Qty: 2	
Push-in-Hose Barb Kit 2/2 Codification	
Subbase Qty: 1	534662-002
Hex nut Qty: 2	
1/4-28 Threaded Kit 3/2	
Subbase Qty: 1	534661-001
Hex nut Qty: 2	
1/4-28 Threaded Kit 2/2	
Subbase Qty: 1	534661-002
Hex nut Qty: 2	

Subbases available on request

## Installation

- The solenoid valves can be mounted in any position without affecting operation
- Pad-mounting solenoid valve supplied with seal

# ASCO™ MINIATURE SOLENOID VALVES

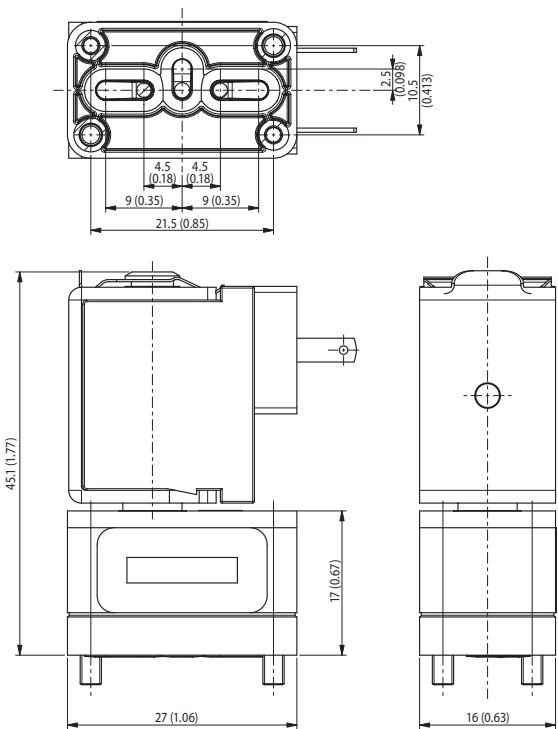
FLAPPER FLUID ISOLATION VALVES, 16mm

**SERIES**  
**068**

**Dimensions: mm (inches)**

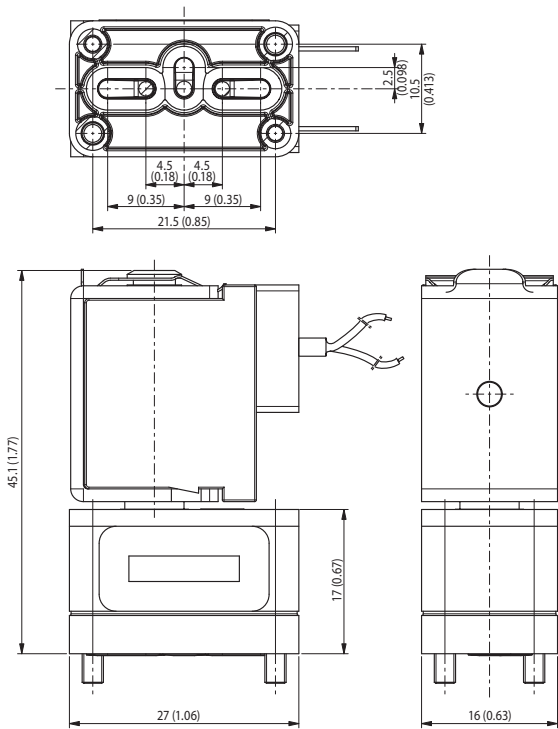
**Type 01**

Solenoid with spade terminals (S0)  
DIN 46340  
IP40



**Type 02**

Leaded coil (L0)  
24 AWG, lead wires:  
500mm (19.7in) long  
IP66



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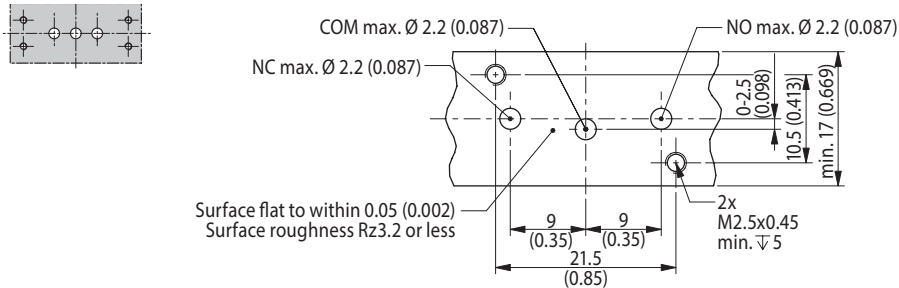
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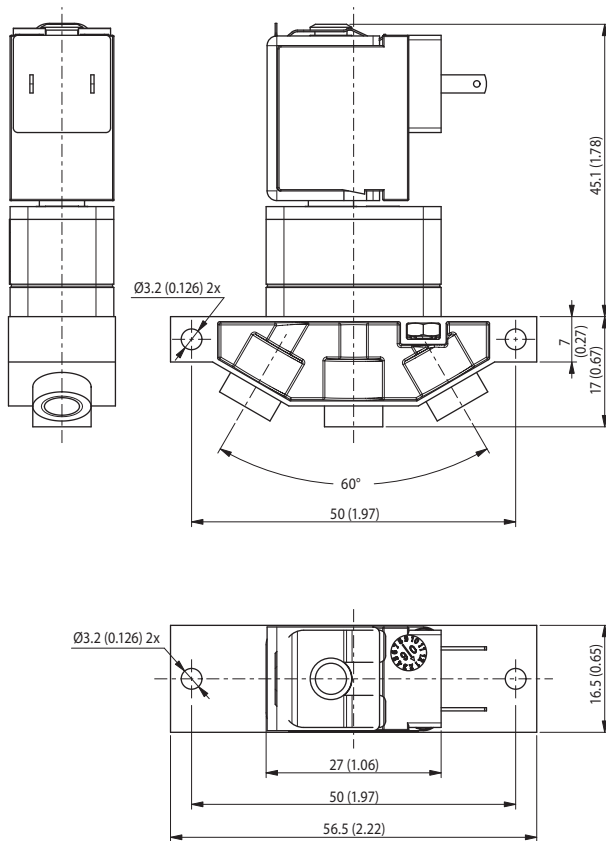
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**Dimensions: mm (inches)**

**Subbase Mounting Pattern**



**1/4 - 28 UNF Version**



**Version with Push-in Hose Connection**

