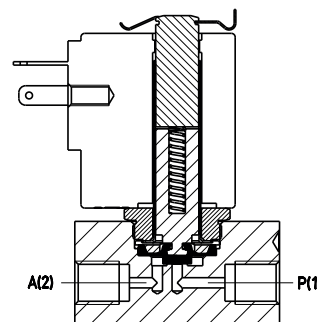
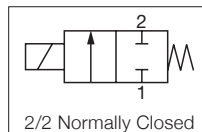


# ASCO™ MINIATURE SOLENOID VALVES

## DIAPHRAGM 2-WAY SOLENOID ISOLATION VALVE

**SERIES**  
**082**

- Series 082 solenoid valves are designed for use with neutral or highly aggressive liquids in analytical and medical systems
- The PVDF body and the separating diaphragm isolates the internal solenoid components from the media resulting in a virtually impervious valve
- Good self-draining capability and low-volume internal cavity to minimize cross-contamination
- Low power consumption results in less heat transfer to thermally sensitive reagents and samples
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
  - Water Analyzers
  - Clinical Diagnostics
  - DNA Sequencing



Fluids*	Temperature Range	Seal Materials*
Liquids or Gases	5°C to 100°C (41°F to 212°F)	FKM, FFKM

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

General Valve Information	
Body	PVDF
Diaphragm	FKM, FFKM
Response Time	< 35ms
Internal Volume	70µl
Max Viscosity	37 cSt (mm <sup>2</sup> /s)

Electrical Characteristics	
Coil Insulation Class	F
Connector	DIN Spade Terminal or Lead Wires <sup>1</sup>
Connector Specification	DIN 43650, 9.4mm, industry standard B, Lead wire: 24 AWG FEP coated
Electrical Safety	IEC 335
Electrical Enclosure Protection	IP65 (EN 60529)
Standard Voltages	12 VDC, 24 VDC (-5%/ +10%)

<sup>1</sup> 0.5m (19.7in) lead wires

Electrical Connection	Power Ratings				Ambient Temperature Range °C (°F)	Type <sup>2</sup>
	Inrush	Holding		Hot/Cold		
	VA	VA	W	W		
S1	-	-	-	2.5	FKM: -10 to 60 (14 to 140)	01
L1	-	-	-	2.5	FFKM: 5 to 60 (41 to 140)	02

<sup>2</sup> Refer to the dimensional drawings on following pages

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Specifications							
Connection	Orifice Size	Flow Coefficient		Operating Pressure bar (psi)		Power Rating (W)	Catalog Number
				min.	max.		
	mm (inches)	Kv (m³/h)	Cv				
1/4-28 UNF	1.5 (0.06)	0.03	0.035	0	2.0 (29)	2.5	7082Axx0S1x00Fx
							7082Axx0L1x00Fx
M6	1.5 (0.06)	0.03	0.035	0	2.0 (29)	2.5	H082Axx1S1x00Fx
							H082Axx1L1x00Fx

## How to Order

<b>Connection Type</b>	<b>7</b>	<b>082</b>	<b>A</b>	<b>10</b>	<b>0</b>	<b>S1</b>	<b>V00</b>	<b>F1</b>	<b>Voltage</b>
7 = UNF Thread									F1 = 24 VDC Class F
H = Metric Thread									F3 = 12 VDC Class F
<b>Product Series</b>									<b>Seal Material</b>
082 = Diaphragm fluid isolation valve									V00 = FKM
									100 = FFKM
<b>Revision</b>									<b>Electrical Connection Type</b>
A = Initial Release									S1 = DIN Type Coil
									L1 = With Lead Wires 500mm (19.7in)
<b>Orifice / Body Material</b>									<b>Pipe Size</b>
10 = 1.5mm PVDF									0 = 1/4 - 28 UNF
									1 = M6

# **ASCO™ MINIATURE SOLENOID VALVES** DIAPHRAGM 2-WAY SOLENOID ISOLATION VALVE

**Dimensions: mm (inches)**

**Type 01**

Solenoid with spade plug connector (S1)  
DIN 43650

**Type 02**

Solenoid with lead wires (L1)  
lead wires: 500mm (19.7in) long  
IP65

**Options**

- Other seal materials available on request
- Other body material available on request

**Installation**

- The solenoid valves can be mounted in any position without affecting operation

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