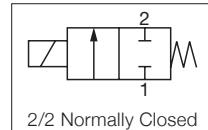


ASCO™ MINIATURE SOLENOID VALVES

DIAPHRAGM 2-WAY SOLENOID ISOLATION VALVE

- 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

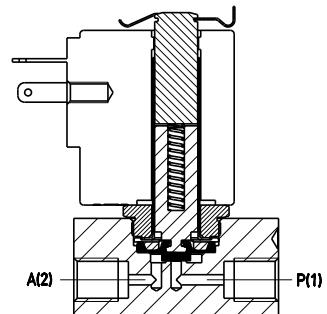


Fluids*	Temperature Range	Seal Materials*
Liquids or Gases	5°C to 100°C (41°F to 212°F)	FKM, FFKM

*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 ² /s)



Electrical Characteristics

Coil Insulation Class	F
Connector	DIN Spade Terminal or Lead Wires ¹
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%)

¹ 0.5m (19.7in) lead wires

Electrical Connection	Power Ratings				Ambient Temperature Range	Type ²		
	Inrush		Holding					
	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		

² Refer to the dimensional drawings on following pages

Specifications

Connection	Orifice Size mm (inches)	Flow Coefficient		Operating Pressure bar (psi)		Power Rating (W)	Catalog Number
				min.	max. gas / liquids		
		Kv (m ³ /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

7 082 A 10 0 S1 V00 F1

Connection Type

7 = UNF Thread
H = Metric Thread

Product Series

082 = Diaphragm fluid isolation valve

Revision

A = Initial Release

Orifice / Body Material

10 = 1.5mm PVDF

Voltage

F1 = 24 VDC Class F
F3 = 12 VDC Class F

Seal Material

V00 = FKM
100 = FFKM

Electrical Connection Type

S1 = DIN Type Coil
L1 = With Lead Wires 500mm (19.7in)

Pipe Size

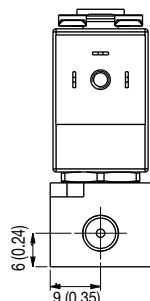
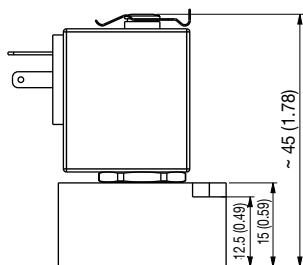
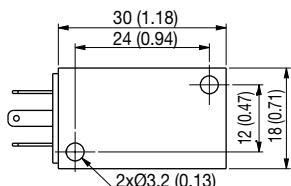
0 = 1/4 - 28 UNF
1 = M6

ASCO™ MINIATURE SOLENOID VALVES

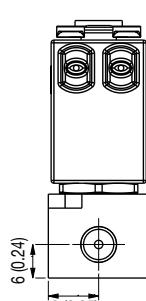
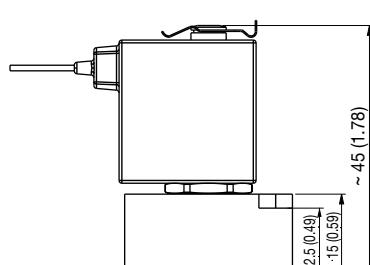
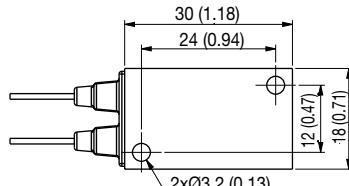
DIAPHRAGM 2-WAY SOLENOID ISOLATION VALVE

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

