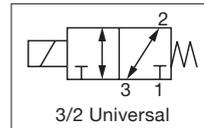
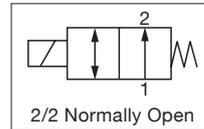
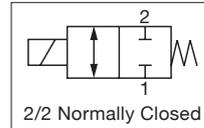


# ASCO™ MINIATURE SOLENOID VALVES

PINCH VALVES, COMPACT 2-WAY / 3-WAY SOLENOID

- The 045 Series are compact 2-way and 3-way solenoid pinch valves designed for use with highly aggressive or high-purity liquids in analytical and medical instrumentation, and industrial applications
- Hermetic separation of control mechanism and the fluid within the tubing prevents particulate contamination caused by friction of moving parts, assuring maximum purity of liquids
- Available in a range of body sizes to accommodate a wide variety of tubing sizes
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
  - Hemodialysis
  - Bioinstrumentation
  - Surgical Fluid Management
  - Pharmaceutical

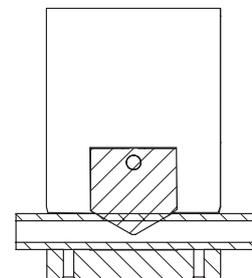


2-way

Fluids*	Temperature Range
Air, Inert Gases, Water, Oil or Liquids	0°C to 70°C (32°F to 158°F)

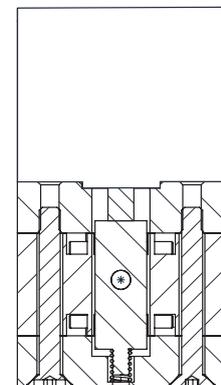
\* Ensure that the compatibility of the materials in contact with the fluids is verified.

Materials in Contact with Fluid	
Recommended Tubing	VMQ (silicone) (max. hardness: 50 Shore A)
Other Materials	
Body	Aluminum
Pinch Mechanism	POM, Aluminum
Internal Parts	Stainless Steel
Response Time	5 to 25ms



2-way

Electrical Characteristics	
Coil Insulation Class	F
Connector	22 AWG or 24 AWG Lead wires, 457mm (18in) long, PTFE coated
Electrical Safety	IEC 335
Electrical Enclosure Protection	IP64
Standard Voltages	12 VDC, 24 VDC
Power Consumption	1.0 to 7.2 Watts

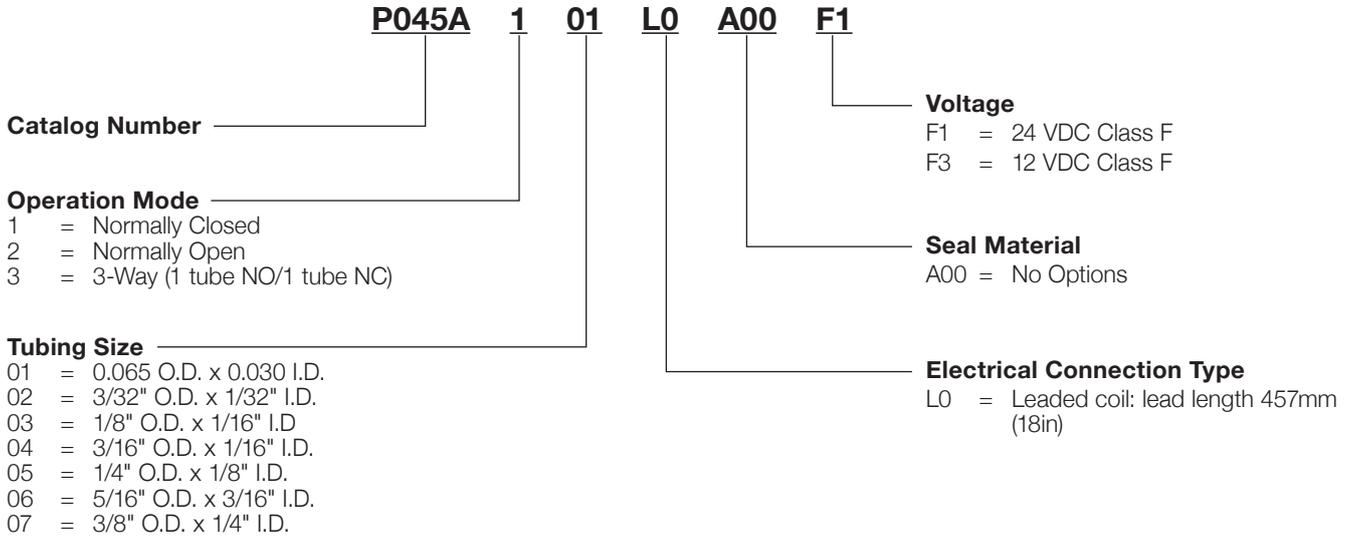


3-way

Specifications					
Tube O.D.	Tube I.D.	Operating Pressure bar (psi)		Power Rating W	Tubing Size
		min.	max.		
1.65 (0.065)	0.762 (0.030)	0	2.07 (30)	1	01
2.38 (3/32)	0.794 (1/32)	0	2.07 (30)	1.5	02
3.17 (1/8)	1.59 (1/16)	0	2.07 (30)	1.5	03
4.76 (3/16)	1.59 (1/16)	0	2.07 (30)	4.2	04
6.35 (1/4)	3.17 (1/8)	0	1.38 (20)	4.2	05
7.94 (5/16)	4.76 (3/16)	0	1.38 (20)	7.2	06
9.52 (3/8)	6.35 (1/4)	0	1.38 (20)	7.2	07

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**How to Order**



**Options**

- Contact us for information regarding the usage of different tubing other than those recommended

**Installation**

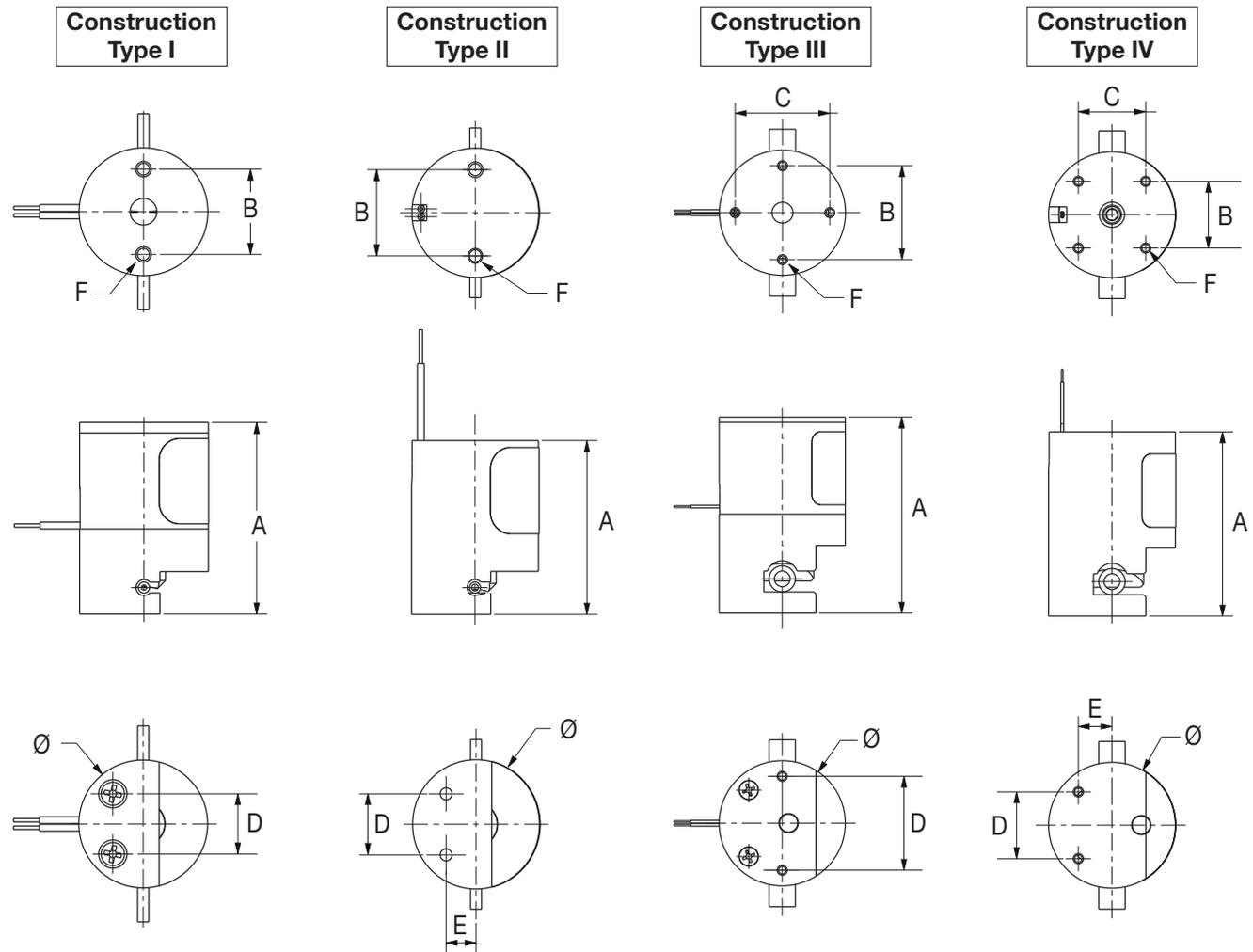
- The solenoid valves can be mounted in any position without affecting operation, however, for optimum performance it is recommended that they be fitted with the solenoid operator at the top.
- In case the tubing is not placed in its seat, the solenoid valve could operate incorrectly.
- 305mm (12in) Flexible tubing is pre-installed with each valve.

# ASCO™ MINIATURE SOLENOID VALVES

PINCH VALVES, COMPACT 2-WAY / 3-WAY SOLENOID

**Dimensions: mm (inches)**

## 2-Way Solenoid

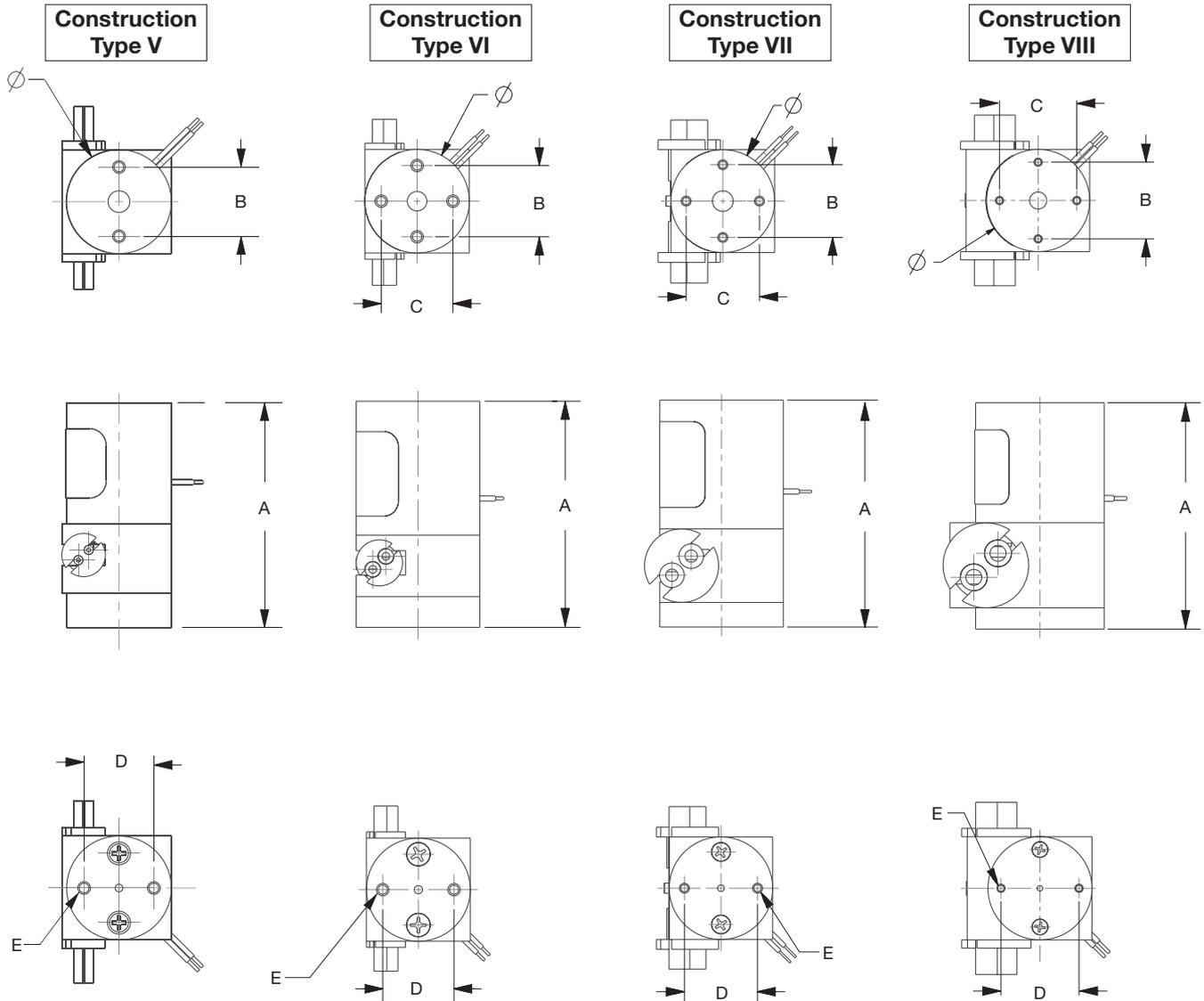


Config-uration	Construction Type	Tubing Size	Ø	A	B	C	D	E	F
NO	I	01	19.05 (0.750)	28.58 (1.125)	12.70 (0.500)	-	-	-	#2-56
NC	II	01		25.45 (1.002)	12.70 (0.500)	-	8.99 (0.354)	4.50 (0.177)	
NO	III	02 / 03	25.40 (1.000)	37.25 (1.467)	17.45 (0.687)	17.45 (0.687)	17.45 (0.687)	-	#4-40
NC	IV	02 / 03		37.12 (1.462)	12.34 (0.486)	12.34 (0.486)	12.34 (0.486)	6.17 (0.243)	
NO	III	04 / 05	31.75 (1.250)	50.79 (2.000)	22.45 (0.884)	22.45 (0.884)	22.45 (0.884)	-	#4-40
NC	IV	04 / 05		46.91 (1.847)	15.90 (0.626)	15.90 (0.626)	15.90 (0.626)	7.95 (0.313)	
NO	III	06 / 07	38.10 (1.500)	59.68 (2.350)	28.58 (1.125)	28.58 (1.125)	28.58 (1.125)	-	#4-40
NC	IV	06 / 07		55.80 (2.197)	20.22 (0.796)	20.22 (0.796)	20.22 (0.796)	10.11 (0.398)	

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Dimensions: mm (inches)

**3-Way Solenoid**



Construction Type	Tubing Size	Ø	A	B	C	D	E
V	01	19.05 (0.750)	41.28 (1.625)	12.70 (0.500)	-	12.70 (0.500)	#2-56
VI	02	25.40 (1.000)	46.77 (1.842)	17.45 (0.687)	17.40 (0.687)	17.45 (0.687)	#4-40
	03						
VII	04	31.75 (1.250)	58.74 (2.313)	22.45 (0.884)	22.45 (0.884)	22.45 (0.884)	#4-40
	05						
VIII	06	38.1 (1.500)	67.63 (2.663)	28.58 (1.125)	28.58 (1.125)	28.58 (1.125)	#4-40