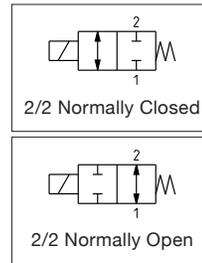


- The 284 Series are POM body 2-Way normally open and normally closed solenoid-operated pinch valve designed for use with highly aggressive or high-purity liquids in analytical and medical instrumentation
- POM construction material (graphite reinforced acetal copolymer) dramatically reduces the heat transfer from the valve body to the media inside the tubing
- 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
- Removable and rotatable electrical coils, as well as a manual operator, allow for easy installation and worry-free maintenance
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
  - Hemodialysis
  - Urinary Collection Systems
  - Intravenous (IV) Systems
  - Drug Dispensing

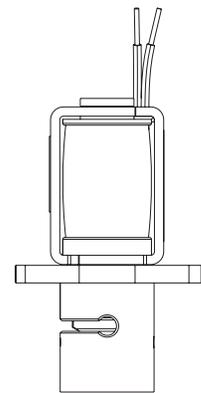


Fluids*	Temperature Range
Air, Inert Gases, Water, Oil or Liquids	0 °C to 50 °C (32 °F to 122 °F)

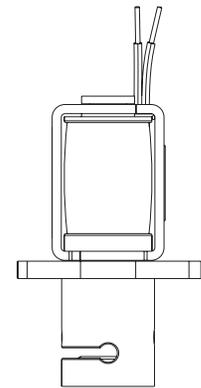
\* Ensure that the compatibility of the fluids in contact with the materials is verified

Materials in Contact with Fluid	
Recommended Tubing	VMQ (silicone) (max. hardness: 50 Shore A) 30cm (12in) tubing supplied with valve
Other Materials	
Body	POM (Graphite-reinforced polyacetal)
Pinch Mechanism	POM (Graphite-reinforced polyacetal)
Others	Stainless Steel
Coil Frame	Galvanized Steel

Electrical Characteristics	
Coil Insulation Class	A
Connector Specification	305mm (12in) Lead Wires
Electrical Safety	IEC 335
Electrical Enclosure Protection	IP30 (EN 60529)
Standard Voltages	12 VDC, 24 VDC
Power Consumption	2.8 W
Response Time	< 10ms



2/2 Normally Closed



2/2 Normally Open

Specifications								
Tube I.D.	Tube O.D.	Pinch Force	Pressure Differential bar (psi)			Power Coil	Catalog Number	
			min.	max.				
mm (inches)	mm (inches)	daN		air, inert gas	liquids	W		
<b>2/2 NC - Normally Closed</b>								
1.6 (0.063)	3.2 (0.126)	0.28	0	1.5 (21.8)	1.5 (21.8)	-	2.8	
								P284A020LCA00V1
								P284A020LCA00V3
								P284A021LCA00V1 <sup>2</sup>
P284A021LCA00V3 <sup>2</sup>								
<b>2/2 NO - Normally Open</b>								
1.6 (0.063)	3.2 (0.126)	0.6	0	1.5 (21.8)	1.5 (21.8)	-	2.8	
								P284A022LCA00V1
								P284A022LCA00V3
								P284A023LCA00V1 <sup>2</sup>
P284A023LCA00V3 <sup>2</sup>								

<sup>2</sup> The flange is rotatable with 90° (please see "Pic. 2" on following page)

NOTE: If the soft tubings are different from the ones indicated, it's important that the tubing minimum wall thickness is the same as shown in the table. For the use of a soft tubing with outside diameter smaller than 2.2mm (0.087in) it is necessary to install the tubing guide sleeve.

In case the tubing is not placed in its seat, the solenoid valve could operate incorrectly.  
Tube Specification: 504375-034 (30m), 429244-016 (300mm).

### How to Order

**P 284 A 022 LC A00 V3**

**Connection Type**  
P = No Direct Connection

**Product Series**  
284 = 2-Way Pinch Solenoid Valve

**Item Number**  
020 = NC 1.6 I.D. x 3.2 O.D. Pinch Valve 1.5 bar  
021 = NC 1.6 I.D.x 3.2 O.D. Pinch Valve 1.5 bar Rotatable Flange  
022 = NO 1.6 I.D. x 3.2 O.D. Pinch Valve 1.5 bar  
023 = NO 1.6 I.D. x 3.2 O.D. Pinch Valve 1.5 bar Rotatable Flange

**Voltage**  
V3 = 12 VDC  
V1 = 24 VDC

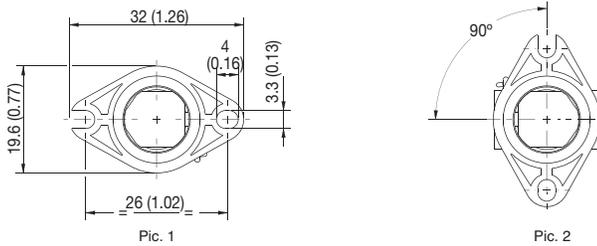
**Options**  
A00 = No Options

**Connection Type**  
LC = Leaded Coil 305mm (12in) Leads

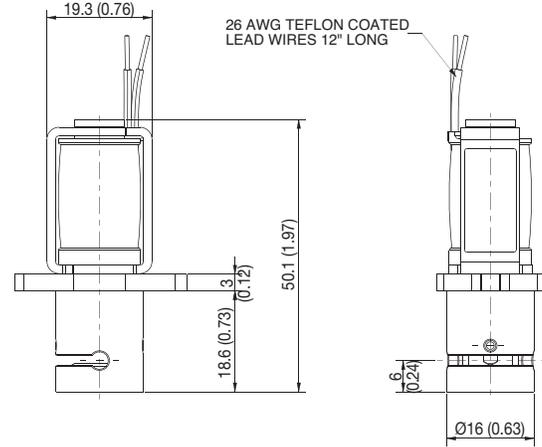
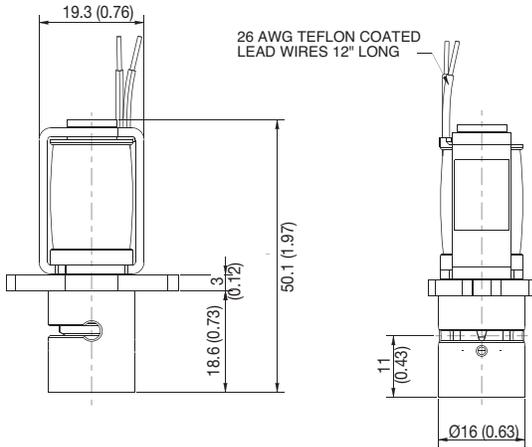
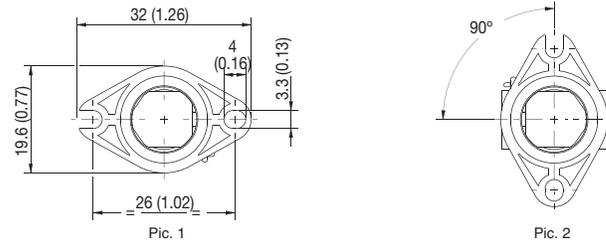
### Dimensions: mm (inches)

### Dimensional Drawings

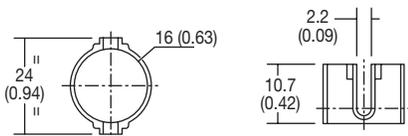
**2/2 Normally Closed**



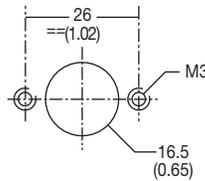
**2/2 Normally Open**



**Tube Guiding Device**



**Arrangement for Wall-fitting**



Catalog Number	Weight kg	Tube Guiding Device	
		Catalog Number	Weight kg
P284A020LCA00V1/V3	0.04	25978-01	0.005
P284A021LCA00V1/V3			
P284A022LCA00V1/V3			
P284A023LCA00V1/V3			

### Options

- Flexible tubes having to use an external guiding device for optimum support (see dimensions):
  - With an outside diameter lower than 2.2mm (0.087in)
- 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
- Fixing plate built in between the body and the coil for assembly in a bank on a base plate
- Do not connect the solenoid valve to the power supply without fitting a flexible tube beforehand**