

ASCO Scientific Series 373 and 443 are patented 3-way solenoid operated pinch valves designed to divert or select the flow of corrosive or high purity fluids in medical equipment and analytical instruments. The fluid is isolated from the valve components by means of silicone tubing and flow is controlled in either direction by the alternating pinching action of the solenoid.

- Saves space in equipment with compact design
- Low power consumption to reduce power supply requirements
- Large range of tubing sizes available for various flow and pressure requirements

### Construction

Valve Parts in Contact with Fluids	
<b>Recommended Tubing</b>	Platinum cured silicone Durometer: 55+/-5 Shore A (Two 12" pieces of tubing supplied with each valve. Additional lengths available separately, see page 74)

Other Parts	
<b>Body</b> -443 -373	Glass filled acetal Nickel plated aluminum
<b>Pinch Mechanism</b>	Delrin
<b>Internal Solenoid Parts</b>	Stainless Steel
<b>Coil Housing</b>	Zinc coated steel

### Electrical

<b>Standard Voltage</b>	6, 12, 24 VDC +10%, -5% 115 VAC, 50/60 Hz
<b>Power Consumption</b> -DC -AC	2.5, 3.2, 4.3, 4.5, 5.2 Watts 2.4, 6.8 Watts
<b>Duty Cycle Rating</b>	Continuous
<b>Ambient Temperature</b>	32°F to 77°F (0°C to 25°C)
<b>Electrical Connection</b> -443 -373	15", 26 gage 15", 22 gage



### Specifications

Tubing ID (Inches)	Tubing OD (Inches)	Tubing Wall (Inches)	Differential Pressure (psi)			Catalog Number	Power (watts)	Weight (oz.)
			Min.	Max. AC/DC				
				Gases	Liquids			
1/32"	3/32"	1/32"	0	50	50	443xx150	3.2(6DC), 2.5(12&24 DC), 2.4(AC)	2.4
1/32"	5/32"	1/16"	0	50	50	373xx250	4.3(6DC), 4.5(12DC), 5.2(24DC), 6.8(AC)	5.0
1/16"	1/8"	1/32"	0	30	30	443xx330	3.2(6DC), 2.5(12&24 DC), 2.4(AC)	2.4
1/16"	3/16"	1/16"	0	30	30	373xx430	4.3(6DC), 4.5(12DC), 5.2(24DC), 6.8(AC)	5.0
3/32"	5/32"	1/32"	0	15	15	373xx515	4.3(6DC), 4.5(12DC), 5.2(24DC), 6.8(AC)	5.0
3/32"	7/32"	1/16"	0	30	30	373xx630	4.3(6DC), 4.5(12DC), 5.2(24DC), 6.8(AC)	5.0
1/8"	3/16"	1/32"	0	15	15	373xx715	4.3(6DC), 4.5(12DC), 5.2(24DC), 6.8(AC)	5.0
1/8"	1/4"	1/16"	0	30	30	373xx830	4.3(6DC), 4.5(12DC), 5.2(24DC), 6.8(AC)	5.0
1/8"	1/4"	1/32"	0	10	10	373xx1010	4.3(6DC), 4.5(12DC), 5.2(24DC), 6.8(AC)	5.0

### To Construct Catalog Number

- Select base catalog number from specification table above.
- Insert desired voltage in place of "xx".

DC	6, 12, 24
AC	115

### Examples

44306150 = 1/32" x 3/32" tubing, 3-way, 6DC, 50 psi

37312330 = 1/16" x 1/8" tubing, 3-way, 12DC, 30 psi

3731151010 = 3/16" x 1/4" tubing, 3-way, 115AC, 10 psi

### Dimensions: inches [mm]

Technical drawing showing dimensions (A, B, C, D) and components (F739 TUBING, F740 BUSHING, MOUNTING HOLES 2X (SEE TABLE), LEAD WIRE SEE CHART FOR GAGE PTFE COATED). Dimensions are given in inches and millimeters.

MODEL	DIM A	DIM B	DIM C	DIM D	WIRE GAGE	MOUNTING HOLES
373	Ø1.00 [25.4]	3.10 [78.7]MAX	0.40 [10.2]	0.687 [17.5]	22	#4-40, 0.21 DEEP
443	Ø0.81 [20.6]	2.25 [57.2]MAX	0.26 [6.6]	0.500 [12.7]	26	Ø0.075, 0.15 DEEP FOR #2 SELF TAPPING SCREWS