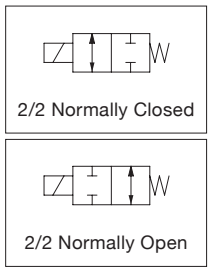
COMPACT 2-WAY SOLENOID PINCH VALVES

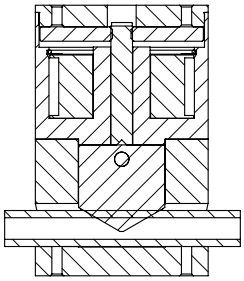
SERIES
045

- The 045 Series are 2-Way normally closed and normally open solenoid-operated 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



Fluids*	Temperature Range
Air, Inert Gases, Water, Oil or Liquids	0 °C to 25 °C (32 °F to 77 °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)
Other Materials	
Body	Aluminum
Pinch Mechanism	POM, Aluminum
Internal Parts	Stainless Steel
Response Time	5 to 25ms

Electrical Characteristics	
Coil Insulation Class	F
Connector	22 AWG Lead Wires, 457mm (18in) long, PTFE coated 26 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

Specifications						
Tube I.D.	Tube O.D.	Pressure Differential bar (psi)		Power Coil	Construction Reference	Catalog Number
mm (inches)	mm (inches)	min.	max.	W		
2/2 NO - Normally Open						
0.762 (0.030)	1.65 (0.065)	0	30 (2.07)	1	01	P045A201L0A00xx
0.794 (1/32)	2.38 (3/32)	0	30 (2.07)	1.5	02	P045A202L0A00xx
1.59 (1/16)	3.17 (1/8)	0	30 (2.07)	1.5	02	P045A203L0A00xx
1.59 (1/16)	4.76 (3/16)	0	30 (2.07)	4.2	03	P045A204L0A00xx
3.17 (1/8)	6.35 (1/4)	0	20 (1.38)	4.2	03	P045A205L0A00xx
4.76 (3/16)	7.94 (5/16)	0	20 (1.38)	7.2	04	P045A206L0A00xx
6.35 (1/4)	9.52 (3/8)	0	20 (1.38)	7.2	04	P045A207L0A00xx
2/2 NC - Normally Closed						
0.762 (0.030)	1.65 (0.065)	0	30 (2.07)	1	01	P045A101L0A00xx
0.794 (1/32)	2.38 (3/32)	0	30 (2.07)	1.5	02	P045A102L0A00xx
1.59 (1/16)	3.17 (1/8)	0	30 (2.07)	1.5	02	P045A103L0A00xx
1.59 (1/16)	4.76 (3/16)	0	30 (2.07)	4.2	03	P045A104L0A00xx
3.17 (1/8)	6.35 (1/4)	0	20 (1.38)	4.2	03	P045A105L0A00xx
4.76 (3/16)	7.94 (5/16)	0	20 (1.38)	7.2	04	P045A106L0A00xx
6.35 (1/4)	9.52 (3/8)	0	20 (1.38)	7.2	04	P045A107L0A00xx

How to Order

P045A 1 01 L0 A00 F1

Catalog Number

Operation Mode
1 = Normally Closed
2 = Normally Open
3 = 3-Way (1 tube NO/1 tube NC)

Tubing Size
01 = 0.065 O.D. x 0.030 I.D.
02 = 3/32" O.D. x 1/32" I.D.
03 = 1/8" O.D. x 1/16" I.D
04 = 3/16" O.D. x 1/16" I.D.
05 = 1/4" O.D. x 1/8" I.D.
06 = 5/16" O.D. x 3/16" I.D.
07 = 3/8" O.D. x 1/4" I.D.

Electrical Connection Type
L0 = Leaded coil: lead length 457mm (18in)

Options
A00 = No Options

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

Options

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

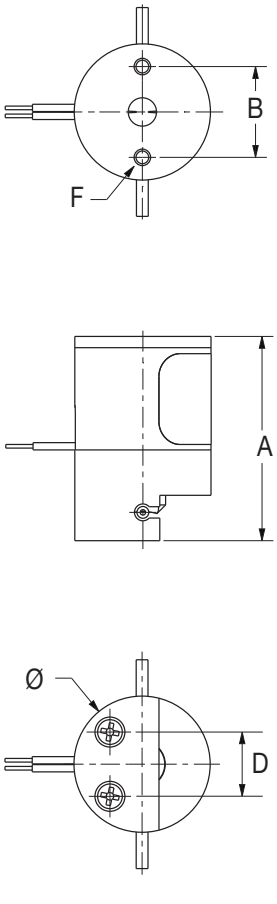
Installation

- 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
- Do not connect the solenoid valve to the power supply without fitting a flexible tube beforehand
- 305mm (12in) Flexible tubing is pre-installed with each valve

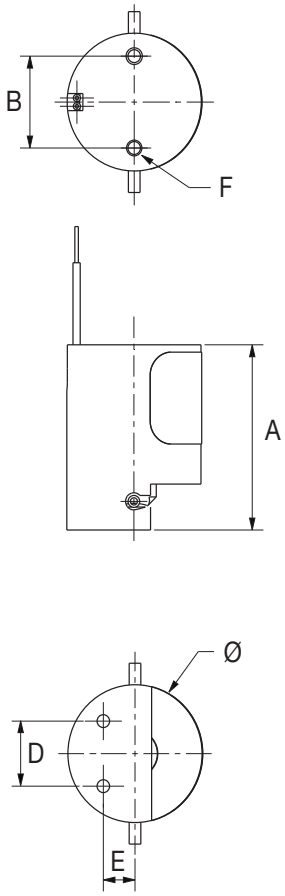
Dimensions: mm (inches)

Dimensional Drawings

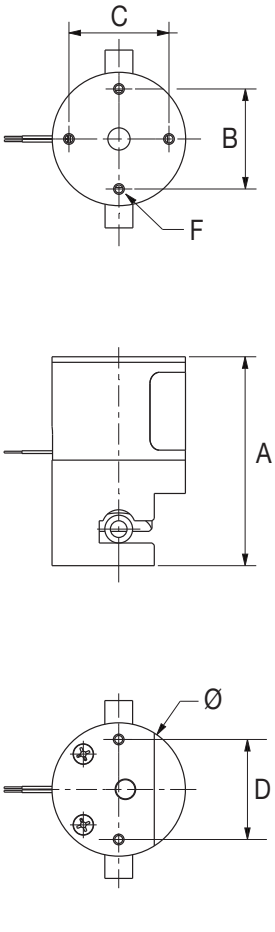
Type 01



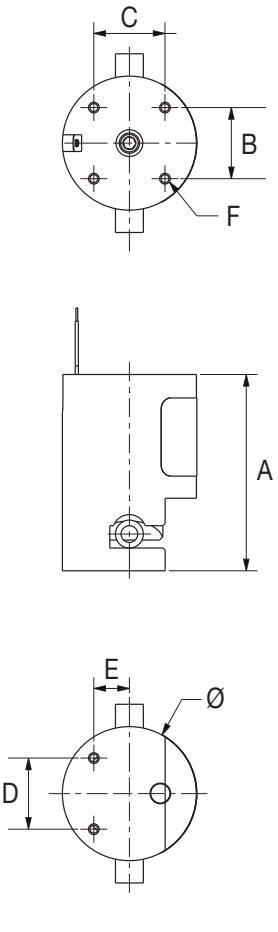
Type 02



Type 03



Type 04

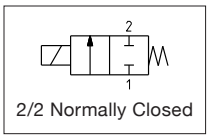


Configuration	Type	Catalog Number	Ø	A	B	C	D	E	F
NO	01	P045A2xxxxxxxxx	19.05 (0.750)	28.58 (1.125)	12.70 (0.500)	-	-	-	#2-56
NC	02	P045A1xxxxxxxxx		25.45 (1.002)	12.70 (0.500)	-	8.99 (0.354)	4.49 (0.177)	
NO	03	P045A2xxxxxxxxx	25.40 (1.000)	37.26 (1.467)	17.40 (0.687)	17.40 (0.687)	17.40 (0.687)	-	#4-40
NC	04	P045A1xxxxxxxxx		37.13 (1.462)	12.30 (0.486)	12.30 (0.486)	12.30 (0.486)	6.17 (0.243)	
NO	03	P045A2xxxxxxxxx	31.75 (1.250)	50.80 (2.000)	22.45 (0.884)	22.45 (0.884)	22.45 (0.884)	-	#4-40
NC	04	P045A1xxxxxxxxx		49.91 (1.847)	15.90 (0.626)	15.90 (0.626)	15.90 (0.626)	7.95 (0.313)	
NO	03	P045A2xxxxxxxxx	38.10 (1.500)	59.69 (2.350)	28.57 (1.125)	28.57 (1.125)	28.57 (1.125)	-	#4-40
NC	04	P045A1xxxxxxxxx		55.08 (2.197)	20.22 (0.796)	20.22 (0.796)	20.22 (0.796)	10.11 (0.398)	

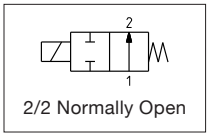
SERIES
284

COMPACT 2-WAY SOLENOID PINCH VALVES

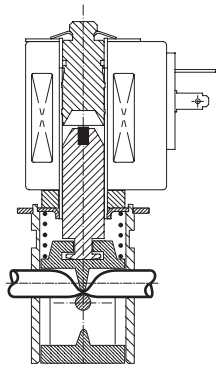
- The 284 Series are Aluminum body 2-Way normally closed and normally open solenoid operated pinch valves designed for use with highly aggressive or high-purity liquids in analytical and medical instrumentation, and industrial applications
- Hermetic separation of control mechanism and the fluid within the tubing prevents particulate contamination caused by friction of moving parts, assuring maximum purity of liquids
- Removable and rotatable electrical coils allow for easy installation and worry-free maintenance
- Bi-directional flow for exceptional versatility
- Available in a large 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
  - Urinary Collection Systems
  - Intravenous (IV) Systems
  - Drug Dispensing

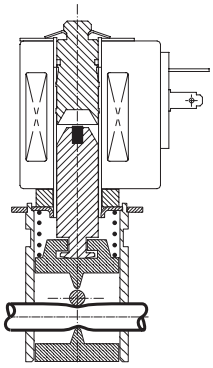


2/2 Normally Closed



2/2 Normally Open


2/2 Normally Closed


2/2 Normally Open

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) (Tubing not supplied with valve)
Other Materials	
Body	Aluminum, anodized
Pinch Mechanism	POM (Graphite-reinforced polyacetal)
Others	Stainless Steel
Guide Tube	Nickel-plated Brass

Electrical Characteristics	
Coil Insulation Class	F
Connector	Spade plug; cable Ø4-6mm (0.16-0.24in), Ø6-10mm (0.24-0.40in)
Connector Specification	4 W (DNX-4) DIN 43650, 9.4mm (0.37in), industry standard B 6 W/13 W (AMX/FNX) ISO 4400/EN 175301-803, form A
Electrical Safety	IEC 335
Electrical Enclosure Protection	Coil type 01 = IP40/Coil type 02-03 = IP65
Standard Voltages[1]	12 VDC, 24 VDC
Power Consumption	4 W, 9 W, 13 W
Response Time	< 20ms

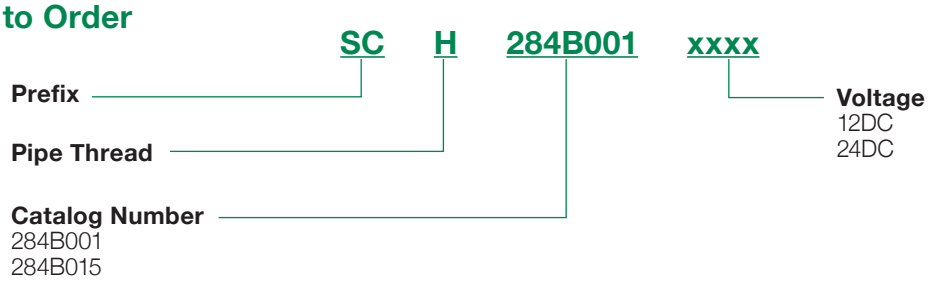
[1] Other voltages on request

Prefix Option	Power Ratings				Ambient Temperature Ranges	Replacement Coil		Type[2]
	Inrush	Holding		Hot/Cold				
	VA	VA	W	W	°C (°F)	12 VDC	24 VDC	
SC	-	-	-	4	-10 to 60 (14 to 140)	43005268	43005269	01 (DNX-4)
				9		43005143	43005144	02 (AMX)
				13		43005316	43005317	03 (FNX)

[2] Refer to the dimensional drawings on the following page

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		
2/2 NC - Normally Closed								
0.76 (0.030)	1.65 (0.065)	0.18	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH284B001
1.02 (0.040)	2.16 (0.085)	0.22	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH284B002
1.57 (0.062)	3.18 (0.125)	0.28	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH284B003
1.98 (0.078)	3.18 (0.125)	0.25	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH284B004
2.7 (0.106)	4.9 (0.193)	0.65	0	0.8 (11.6)	0.8 (11.6)	-	9	SCH284A005
4.8 (0.189)	7.9 (0.311)	1.1	0	0.8 (11.6)	0.8 (11.6)	-	13	SCH284B006
6.4 (0.252)	9.5 (0.374)	1.4	0	0.8 (11.6)	0.8 (11.6)	-	13	SCH284B007
2/2 NO - Normally Open								
0.76 (0.030)	1.65 (0.065)	0.18	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH284B009
1.02 (0.040)	2.16 (0.085)	0.22	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH284B010
1.57 (0.062)	3.18 (0.125)	0.28	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH284B011
1.98 (0.078)	3.18 (0.125)	0.25	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH284B012
2.7 (0.106)	4.9 (0.193)	0.65	0	0.8 (11.6)	0.8 (11.6)	-	9	SCH284A013
4.8 (0.189)	7.9 (0.311)	1.1	0	0.8 (11.6)	0.8 (11.6)	-	13	SCH284B014
6.4 (0.252)	9.5 (0.374)	1.4	0	0.8 (11.6)	0.8 (11.6)	-	13	SCH284B015

How to Order



Ordering Example: **SCH284B00912DC** = 2-way NO (normally open), 4W coil, tubing I.D. 0.76mm/tubing O.D. 1.65mm (0.065in), 12 VDC

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) (catalog numbers **SCH284B001** to **..B004**)
  - With an outside diameter lower than 3.5mm (0.138in) (catalog number **SCH284A005**)
  - With an outside diameter lower than 6mm (0.236in) (catalog numbers **SCH284B006** and **..007**)
- Contact us for information regarding the usage of different tubing other than those recommended
- Plug with visual indication and peak voltage suppression or with cable length of 2m (78.7in)

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
- Flexible tubes are not included with valve
- **Do not connect the solenoid valve to the power supply without fitting a flexible tube beforehand**

Dimensions: mm (inches)

Dimensional Drawings

Type 01

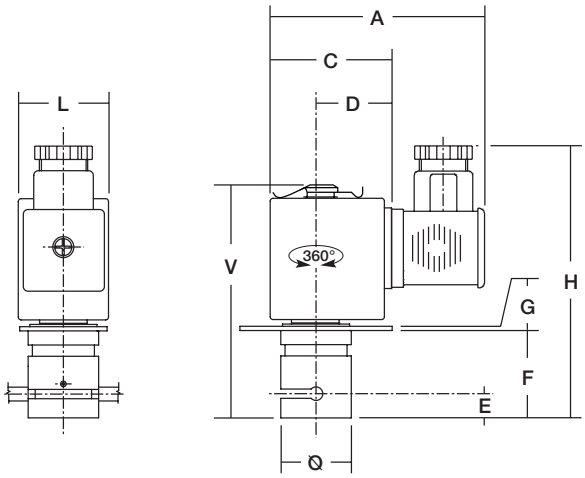
Prefix "SC" solenoidd
IEC 335/DIN 43650
IP40

Type 01: SCH284B001/002/003/004/ 009/010/011/012

Type 02-03

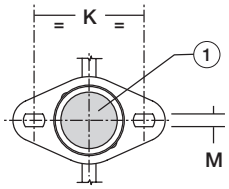
Prefix "SC" solenoid
IEC 335/ISO 4400
IP65

Type 02: SCH284A005/A013
Type 03: SCH284B006/B007/B014/B015

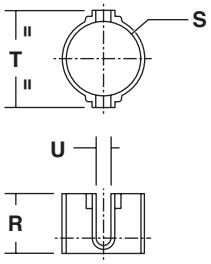


① Impulse Manual Operator

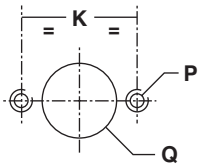
Bottom View



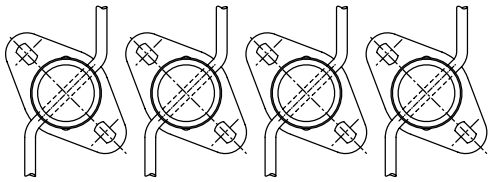
Tube Guiding Device



Arrangement for Mounting



Example of Banked Assembly



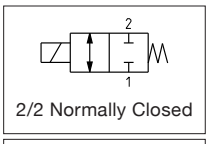
Type	Prefix Option	Catalog Number	Ø	A	C	D	E	F	G	H	K	L	M	P	Q	R	S	T	U	V	Weight[1] kg	Tube Guiding Device Catalog Number	Tube Guiding Device Weight[1] kg
01	SC	SCH284B001/002 /003/004/009 /010/011/012	16 (0.63)	49.5 (1.95)	23.5 (0.93)	15 (0.60)	11 (0.43)	20 (0.79)	1 (0.04)	66 (2.60)	24 (0.95)	17 (0.67)	3.3 (0.13)	M3	16.5 (0.65)	10.7 (0.42)	16 (0.63)	24 (0.95)	2.2 (0.09)	51.2 (2.02)	0.06	C140094	0.005
02	SC	SCH284A005/A013	25 (0.98)	78 (3.07)	43 (1.69)	27 (1.06)	17.5 (0.69)	32 (1.26)	1.5 (0.06)	99 (3.90)	39 (1.54)	32 (1.26)	4.5 (0.18)	M4	25.5 (1.00)	14 (0.55)	25 (0.98)	33 (1.30)	3.2 (0.13)	82.5 (3.25)	0.28	C140095	0.009
03	SC	SCH284B006/B007 /B014/B015	30 (1.18)	84 (3.31)	49 (1.93)	28 (1.10)	24.5 (0.96)	43.5 (1.71)	1.5 (0.06)	99 (3.90)	45.5 (1.80)	42 (1.65)	4.5 (0.18)	M4	30.5 (1.20)	24 (0.94)	30 (1.18)	39 (1.54)	6 (0.24)	99 (3.90)	0.47	C140096	0.015

[1] Including coil(s) and connectors

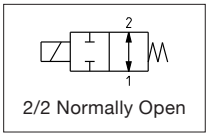
COMPACT 2-WAY SOLENOID PINCH VALVES

SERIES 284

- 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



2/2 Normally Closed



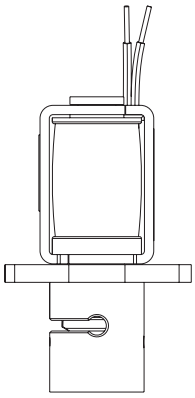
2/2 Normally Open

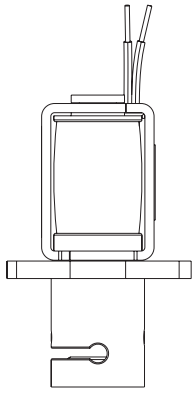
Fluids*	Temperature Range
Air, Inert Gases, Water, Oil or Liquids	0 °C to 50 °C (32 °F to 122 °F)

* 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		
2/2 NC - Normally Closed								
1.6 (0.063)	3.2 (0.126)	0.28	0	1.5 (21.8)	1.5 (21.8)	-	2.8	P284A020LCA00V1
								P284A020LCA00V3
								P284A021LCA00V1[2]
								P284A021LCA00V3[2]
2/2 NO - Normally Open								
1.6 (0.063)	3.2 (0.126)	0.6	0	1.5 (21.8)	1.5 (21.8)	-	2.8	P284A022LCA00V1
								P284A022LCA00V3
								P284A023LCA00V1[2]
								P284A023LCA00V3[2]

[2] 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

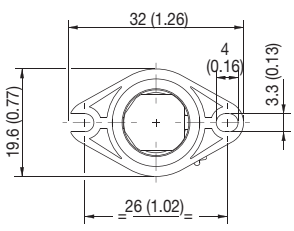
Options
A00 = No Options

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

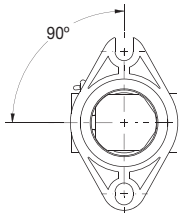
Dimensions: mm (inches)

Dimensional Drawings

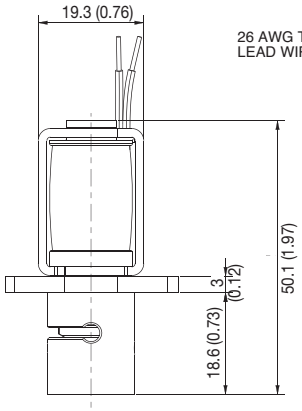
2/2 Normally Closed

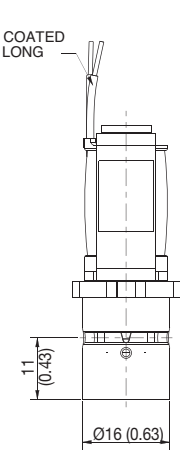


Pic. 1

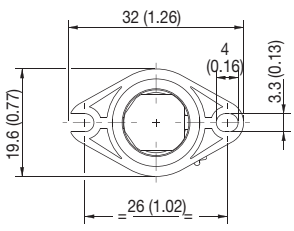


Pic. 2

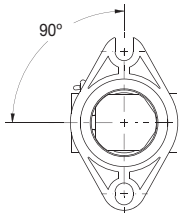




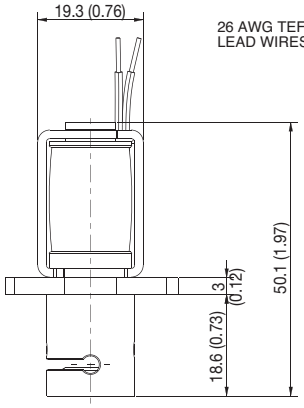
2/2 Normally Open

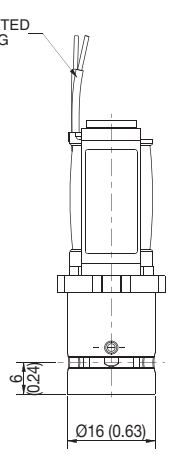


Pic. 1

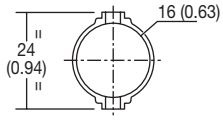


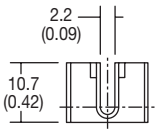
Pic. 2



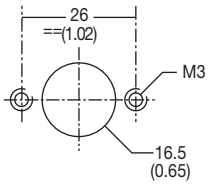


Tube Guiding Device





Arrangement for Wall-fitting



Catalog Number	Weight kg
P284A020LCA00V1/V3	0.04
P284A021LCA00V1/V3	
P284A022LCA00V1/V3	
P284A023LCA00V1/V3	

Tube Guiding Device	
Catalog Number	Weight kg
25978-01	0.005

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

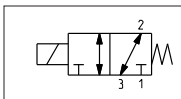
Installation

- 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**

COMPACT 3-WAY SOLENOID PINCH VALVES

SERIES 373

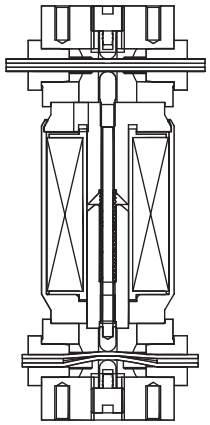
- The 373 Series is a 3-Way universal solenoid-operated pinch valve designed for use with highly aggressive or high-purity liquids in analytical and medical instrumentation, and industrial applications
- Hermetic separation of control mechanism and the fluid within the tubing prevents particulate contamination caused by friction of moving parts, assuring maximum purity of liquids
- Available in a large range of body sizes to accommodate a wide variety of tubing sizes
- Bi-directional flow for exceptional versatility
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
  - Hemodialysis
  - Urinary Collection Systems
  - Intravenous (IV) Systems
  - Food & Beverage Dispensing



3/2 Universal

Fluids*	Temperature Range
Air, Inert Gases, Water, Oil or Liquids	0 °C to 25 °C (32 °F to 77 °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: 55 Shore A) Two 305mm (12in) pieces of tubing supplied with each valve
Other Materials	
Body	Aluminum, nickel-plated
Pinch Mechanism	POM
Others	Stainless Steel
Tubing Guide	POM/PA

Electrical Characteristics	
Coil Insulation Class	F
Connector	22 AWG Lead Wire, 381mm (15in) long
Electrical Safety	IEC 335
Electrical Enclosure Protection	IP40
Standard Voltages[1]	12 VDC, 24 VDC
Power Consumption	4.5 to 5.2 Watts

[1] Other voltages on request

Specifications

Tube I.D.	Tube O.D.	Pressure Differential bar (psi)		Power Coil		Catalog Number
		min.	max.	W		
mm (inches)	mm (inches)			12 VDC	24 VDC	
0.80 (0.031)	4.00 (0.156)	0	3.40 (50)	4.5	5.2	373xx250
1.60 (0.063)	4.80 (0.188)	0	2.07 (30)	4.5	5.2	373xx430
2.38 (0.094)	4.00 (0.156)	0	1.03 (15)	4.5	5.2	373xx515
2.38 (0.094)	5.56 (0.219)	0	2.07 (30)	4.5	5.2	373xx630
3.17 (0.125)	4.80 (0.188)	0	1.03 (15)	4.5	5.2	373xx715
3.17 (0.125)	6.35 (0.250)	0	2.07 (30)	4.5	5.2	373xx830
3.17 (0.125)	6.35 (0.250)	0	1.03 (15)	4.5	5.2	373xx1010

How to Order

Catalog Number 373 xx 250

Tubing Size
(see Specifications Table)

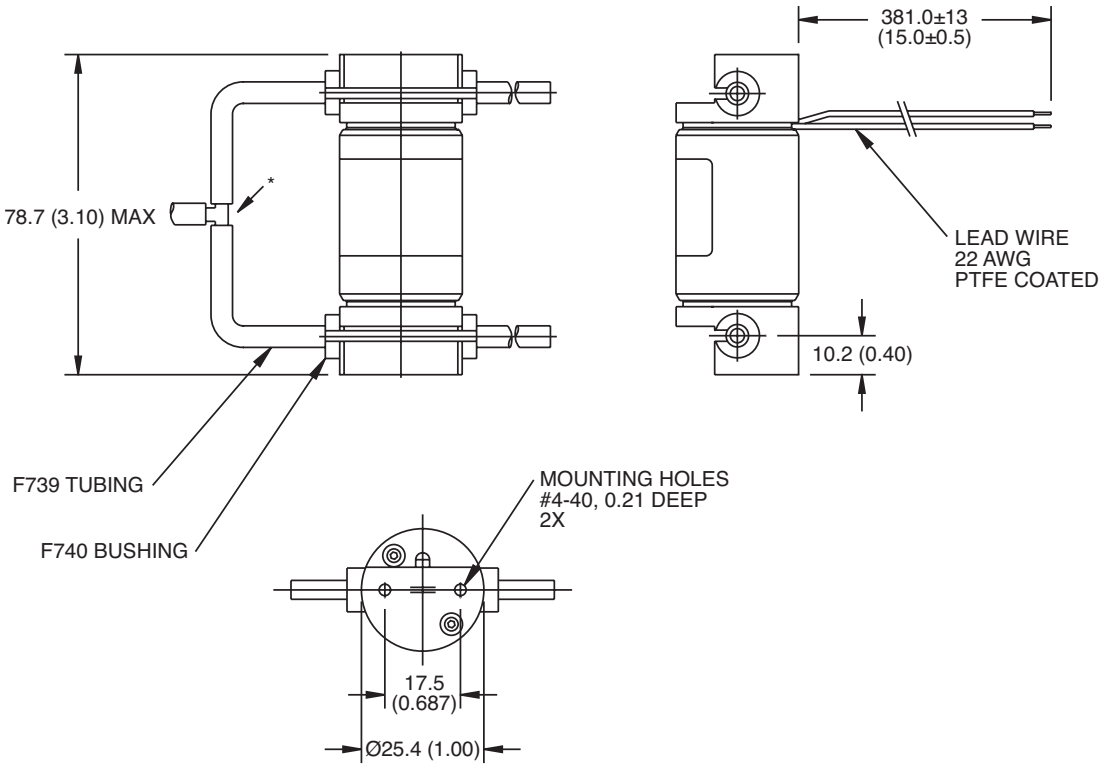
Voltage
12 = 12 VDC
24 = 24 VDC

Ordering Example: **37312430** = 1.60mm (0.063in) x 4.8mm (0.188in) tubing, 12 VDC, 2.07 bar (30 psi) max

Dimensions: mm (inches)

Dimensional Drawings

373 Series

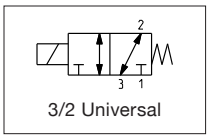


* Tee connections not supplied with valve

COMPACT 3-WAY SOLENOID PINCH VALVES

SERIES 384

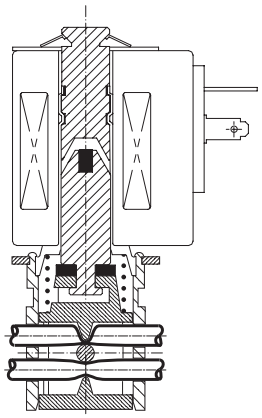
- The 384 Series is an Aluminum body 3-Way universal solenoid-operated pinch valve designed for use with highly aggressive or high-purity liquids in analytical and medical instrumentation, and industrial applications
- Hermetic separation of control mechanism and the fluid within the tubing prevents particulate contamination caused by friction of moving parts, assuring maximum purity of liquids
- Available in a large range of body sizes to accommodate a wide variety of tubing sizes
- Removable and rotatable electrical coils allow for easy installation and worry-free maintenance
- Bi-directional flow for exceptional versatility
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
  - Hemodialysis
  - Urinary Collection Systems
  - Intravenous (IV) Systems
  - Drug Dispensing



3/2 Universal

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



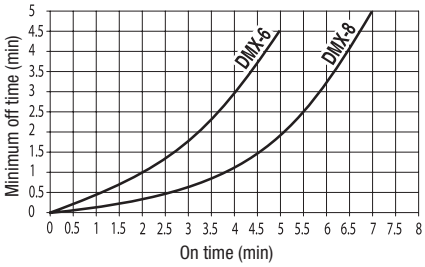
Materials in Contact with Fluid	
Recommended Tubing	VMQ (silicone) (max. hardness: 50 Shore A) (Tubing not supplied with valve)
Other Materials	
Body	Aluminum, anodized
Pinch Mechanism	POM (Graphite-reinforced polyacetal)
Others	Stainless Steel
Guide Tube	Nickel-plated Brass

Electrical Characteristics	
Coil Insulation Class	F
Connector	Spade plug; cable Ø4-6mm (0.16-0.24in), Ø6-10mm (0.24-0.40in)
Connector Specification	4 W/8 W/6 W (DMX); DIN 43650, 9.4 mm, industry standard B; 6 W/13 W (AMX/FNX); ISO 4400/EN 175301-803, form A
Electrical Safety	IEC 335
Electrical Enclosure Protection	Coil type 01 = IP40/Coil type 02-03 = IP65
Standard Voltages[1]	12 VDC, 24 VDC
Power Consumption	4W, 6W, 8W, 9W, 13W
Response Time	< 20ms

[1] Other voltages on request

USE IN INTERMITTENT SERVICE

Minimum waiting time between each application of power



Prefix Option	Power Ratings				Ambient Temperature Ranges	Replacement Coil		Type[2]
	Inrush	Holding		Hot/Cold				
	VA	VA	W	W	°C (°F)	12 VDC	24 VDC	
SC	-	-	-	4	-10 to 60 (14 to 140)	43005268	43005269	01 (DNX-4)
				8		500701-001	500701-002	
				6		500701-003	500701-004	
				9		43005143	43005144	02 (AMX)
				13		43005316	43005317	03 (FNX)

[2] Refer to the dimensional drawings on the following page

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		
0.76 (0.030)	1.65 (0.065)	0.12	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH384B004
1.02 (0.040)	2.16 (0.085)	0.18	0	0.8 (11.6)	0.8 (11.6)	-	4	SCH384B001
1.57 (0.062)	3.18 (0.125)	0.22	0	0.8 (11.6)	0.8 (11.6)	-	8	SCH384B002[3]
1.98 (0.078)	3.18 (0.125)	0.18	0	0.8 (11.6)	0.8 (11.6)	-	6	SCH384B003[3]
3.4 (0.132)	4.7 (0.183)	0.4	0	0.8 (11.6)	0.8 (11.6)	-	9	SCH384A005
4.8 (0.187)	7.9 (0.313)	0.85	0	0.8 (11.6)	0.8 (11.6)	-	13	SCH384B006
6.4 (0.250)	9.5 (0.375)	1.1	0	0.8 (11.6)	0.8 (11.6)	-	13	SCH384B007

[3] Observe the minimum of time stated, see graph above

How to Order

SC H 384B001 xxxx

Prefix

Pipe Thread

Catalog Number
284B001
284B006

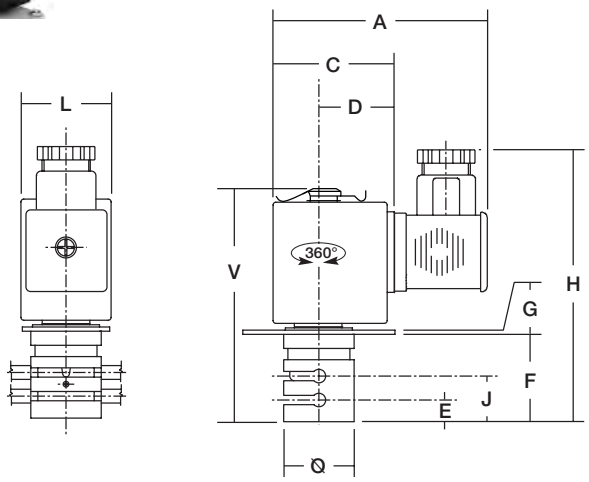
Voltage
12DC
24DC

Dimensions: mm (inches)

Dimensional Drawings

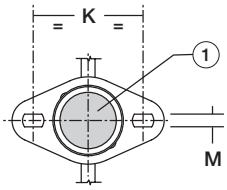
Type 01 Prefix "SC" solenoidd
IEC 335/DIN 43650
IP40

Type 01: SCH384B001/0002/003/004



① Impulse Manual Operator

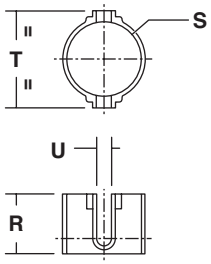
Bottom View



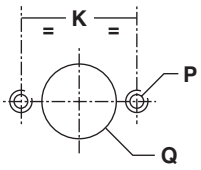
Type 02-03 Prefix "SC" solenoid
IEC 335/ISO 4400
IP65

Type 02: SCH384A005
Type 03: SCH384B006/B007

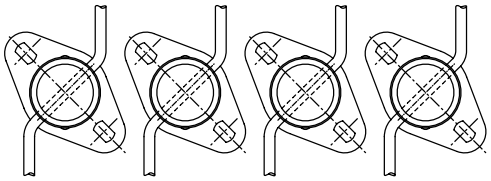
Tube Guiding Device



Arrangement for Wall-Fitting



Example of Banked Assembly



Type	Prefix Option	Catalog Number	Ø	A	C	D	E	F	G	H	K	L	M	P	Q	R	S	T	U	V	Weight[1] kg
01	SC	SCH384B001/002 /003/004	16 (0.63)	49.5 (1.95)	23.5 (0.92)	15 (0.59)	11 (0.24)	20 (0.79)	1 (0.04)	66 (2.60)	24 (0.43)	17 (0.67)	3.3 (0.13)	M3	16.5 (0.65)	10.7 (0.42)	16 (0.63)	24 (0.94)	2.2 (0.09)	51.2 (2.02)	0.06
02	SC	SCH384A005	25 (0.98)	78 (3.07)	43 (1.69)	27 (1.06)	17.5 (0.41)	32 (1.26)	1.5 (0.06)	99 (3.90)	39 (1.54)	32 (1.26)	3.3 (0.18)	M4	25.5 (1.00	14 (0.55)	25 (0.98)	33 (1.30)	3.2 (0.12)	82.5 (3.25)	0.30
03	SC	SCH384B006/B007	30 (1.18)	84 (3.31)	49 (1.93)	28 (1.10)	24.5 (0.96)	43.5 (1.71)	1.5 (0.06)	99 (3.90)	45.5 (1.79)	42 (1.65)	4.5 (0.18)	M4	30.5 (1.20)	24 (0.94)	30 (1.18)	39 (1.54)	6 (0.24)	99 (3.90)	0.45

Tube Guiding Device	
Catalog Number	Weight[1] kg
C140094	0.005
C140095	0.009
C140096	0.015

[1] Including coil(s) and connectors

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) (catalog numbers **SCH384B001** to **..B004**)
  - With an outside diameter lower than 3.5mm (0.138in) (catalog number **SCH384A005**)
  - With an outside diameter lower than 6mm (0.240in) (catalog numbers **SCH384B006** and **..007**)
  - Contact us for information regarding the usage of different tubing other than those recommended
- Plug with visual indication and peak voltage suppression or with cable length of 2m (78.7in)

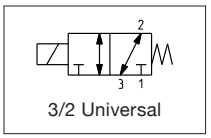
Installation

- 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
- Flexible tubes are not included in our supply
- **Do not connect the solenoid valve to the power supply without fitting a flexible tube beforehand**

COMPACT 3-WAY SOLENOID PINCH VALVES

SERIES 384

- The 384 Series are POM body 3-Way universal solenoid-operated pinch valve designed for use with highly aggressive or high-purity liquids in analytical and medical instrumentation
- POM construction material 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 coil, 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
  - Food & Beverage Dispensing

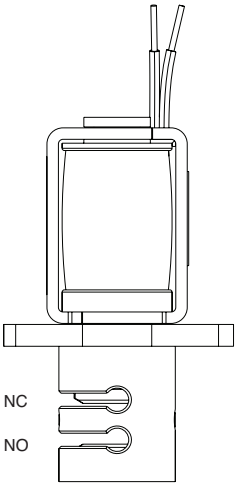


3/2 Universal

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	F
Connector	Fly Lead with 305mm (12in)
Connector Specification	305mm (12in) Lead wires
Electrical Safety	IEC 335
Electrical Enclosure Protection	IP30 (EN 60529)
Standard Voltages[1]	12 VDC, 24 VDC
Power Consumption	3.5 W
Response Time	< 10ms

[1] Other voltages on request

Specifications

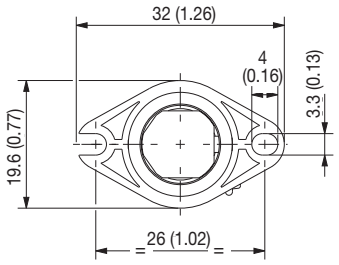
Tube I.D.	Tube O.D.	Pinch Force	Pressure Differential bar (psi)			Power Coil		Catalog Number
			min.	max.				
mm (inches)	mm (inches)	daN		air, inert gas	liquids	W		
1.6 (0.063)	3.2 (0.126)	0.22	0	1.5 (21.8)	1.5 (21.8)	-	3.5	P384A024LCA00V1
								P384A024LCA00V3
								P384A025LCA00V1[2]
								P384A025LCA00V3[2]

Note:
If using a tubing different from the ones specified for this valve, 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)

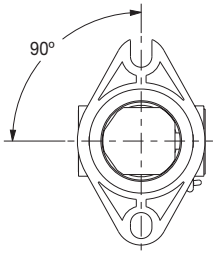
[2] The flange is rotatable with 90° (please see "Pic. 2" on the following page)

Dimensions: mm (inches)

Dimensional Drawings

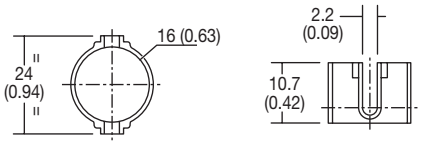


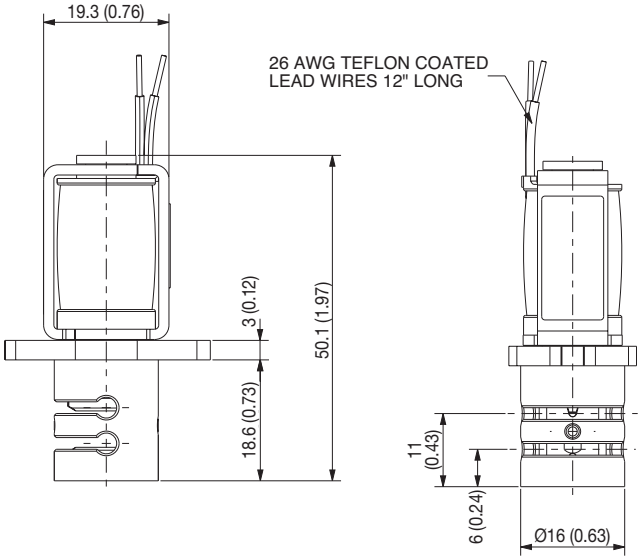
Pic. 1



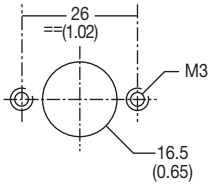
Pic. 2

Tube Guiding Device





Arrangement for Wall-fitting



Catalog Number	Weight[1] kg
P384A024LCA00V1/V3	0.04
P384A025LCA00V1/V3	

[1] Including coil(s) and connectors

Tube Guiding Device	
Catalog Number	Weight[1] kg
25978-01	0.005

How to Order

P 384 A 024 LC A00 V3

Connection Type
P = No Direct Connection

Product Series
384 = 3-Way Pinch Solenoid Valve

Item Number
024 = 3W 1.6 I.D. x 3.2 O.D. Pinch Valve 1.5 bar
025 = 3W 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

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**