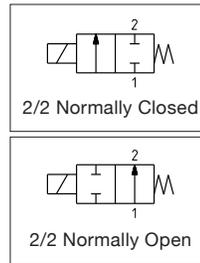


COMPACT 2-WAY SOLENOID PINCH VALVES



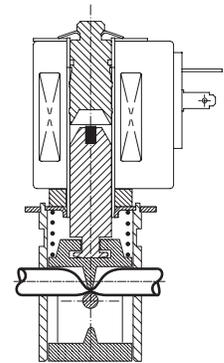
- The 284 Series are Aluminum body 2-Way normally closed and normally open solenoid operated pinch valves designed for use with highly aggressive or high-purity liquids in analytical and medical instrumentation, and industrial applications
- Hermetic separation of control mechanism and the fluid within 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



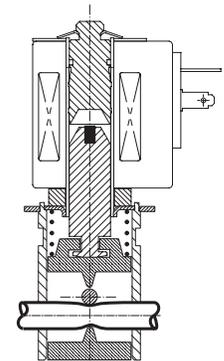
Fluids*	Temperature Range
Air, Inert Gases, Water, Oil or Liquids	0 °C to 50 °C (32 °F to 122 °F)

* 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



2/2 Normally Closed



2/2 Normally Open

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

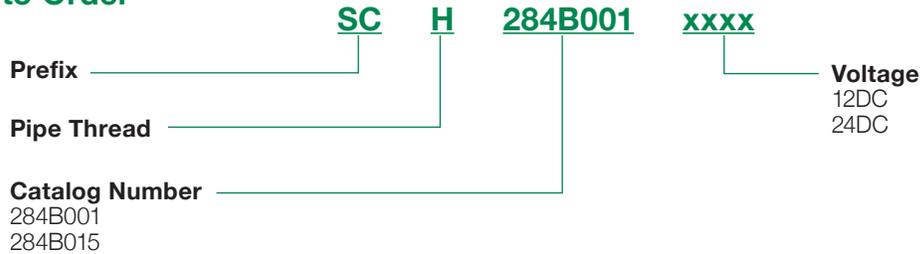
¹ Other voltages on request

Prefix Option	Power Ratings			Ambient Temperature Ranges °C (°F)	Replacement Coil		Type ²
	Inrush	Holding	Hot/Cold		12 VDC	24 VDC	
	VA	VA	W				
SC	-	-	-	-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.		W		
mm (inches)	mm (inches)	daN		air, inert gas	liquids			
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" solenoid
IEC 335/DIN 43650
IP40



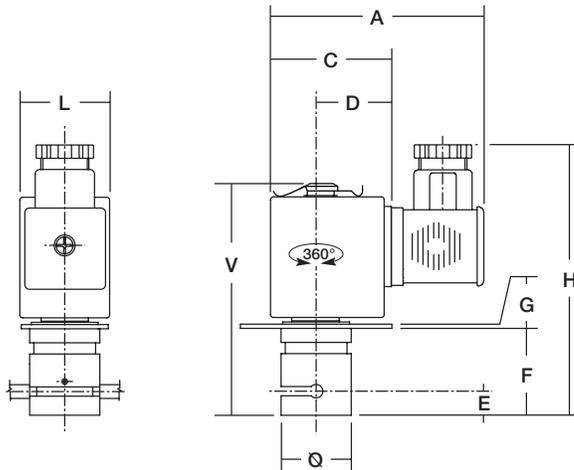
**Type 01: SCH284B001/002/003/004/
009/010/011/012**

Type 02-03

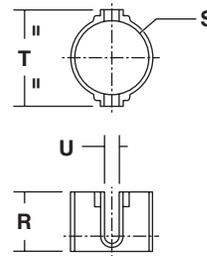
Prefix "SC" solenoid
IEC 335/ISO 4400
IP65



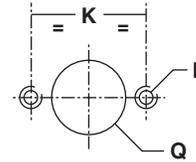
**Type 02: SCH284A005/A013
Type 03: SCH284B006/B007/B014/B015**



Tube Guiding Device

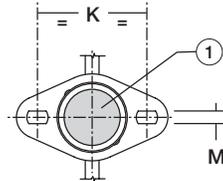


Arrangement for Mounting

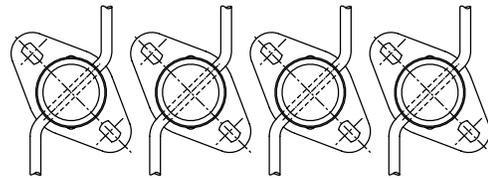


Bottom View

① Impulse Manual Operator



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	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