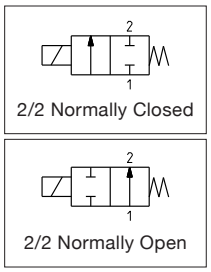
SERIES
283

LEVER SOLENOID FLUID ISOLATION VALVES WITH SPIGOTS

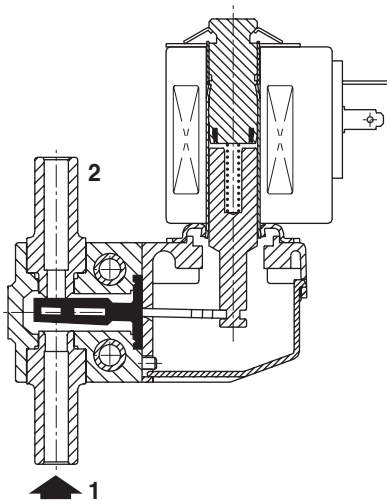
- Lever mechanism isolation valves designed for use with aggressive and corrosive liquids and gases in analytical instrumentation and the chemical manufacturing industries
- Large orifice sizes make these valves ideal for high flow-rate and high pressure applications
- Ideally suited for quickly flushing systems of corrosive media and routing aggressive reagents to chemical reaction vessels and waste containers
- Available in both a 2-Way normally closed and normally open versions, as well as 3-Way normally closed, normally open and universal versions; each with multiple connection options
- Meets all relevant CE directives, and is RoHS compliant
- Typical applications include:
  - Raw-material Chemical Manufacturing
  - Pharmaceutical
  - Chip/Wafer Manufacturing
  - Waste Water Treatment



CE

Fluids*	Temperature Range	Seal Materials*
Air, Inert Gases, Filtered Water, Oil or Liquids	10 °C to 100 °C (50 °F to 212 °F)	VMQ (silicone)
		FKM (fluoroelastomer)
		EPDM (ethlyene-propylene)

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



NC Function

General Valve Information	
Body	PEI (polyetherimide)
Seals	VMQ, EPDM or FKM
Response Time	~ 25ms
Max. Viscosity	37 cSt (mm^2/s)

Electrical Characteristics	
Coil Insulation Class	F
Connector	Spade plug (cable Ø6-8mm or Ø6-10mm)
Connector Specification	with coil 6W/6W (BMX) DIN 43650, 11mm, industry standard B, with coil 8W/9W (AMX) ISO 4400/EN 175301-803, form A
Electrical Safety	IEC 335
Electrical Enclosure Protection	Molded IP65 (EN 60529)
Standard Voltages[1]	12 VDC, 24 VDC AC ~: 24 V to 115 V to 230 V/50 Hz (BMX = 50 – 60 Hz)

[1] Other voltages and 60 Hz available on request

Prefix Option	Power Ratings				Ambient Temperature Range	Replacement Coil		Type[1]
	Inrush	Holding		Hot/Cold				
	VA	VA	W	W	°C (°F)	230 V/50 Hz	24 VDC	
SC	16	10	6	6	-10 to 60 (14 to 40)	43005164	43005149	01 (BMX)
	23	14	8	9	-10 to 60 (14 to 40)	43005149	43005144	02 (AMX)

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

Specifications

Spigot O.D.	Spigot I.D.	Flow Coefficient		Pressure Differential bar (psi)			Power Coil		Catalog Number	Options	
				min.	max.						
	mm (inches)	Kv (m3/h)	Cv		inert gases	liquids	W			FKM	EPDM
2/2 NC - Normally Closed, VMQ Seals											
8 (0.31)	2.7 (0.11)	0. 23	0.27	0	5 (72.5) [10/145]	5 (72.5)	6	6	SCH283A003	V	E
8 (0.31)	3.4 (0.13)	0. 30	0.35	0	3 (43.5) [6/87]	3 (43.5)	6	6	SCH283A004	V	E
11 (0.43)	5.5 (0.22)	0. 55	0.64	0	1.5 (21.8)	1 (14.5)	8	9	SCH283A010	-	-
2/2 NC - Normally Closed, EPDM Seals (Optional: FKM)											
11 (0.43)	5.5 (0.22)	0. 55	0.64	0	4.5 (65.3)	1 (14.5)	8	9	SCH283A008E	V	-
2/2 NO - Normally Open, VMQ Seals											
8 (0.31)	3.4 (0.13)	0. 30	0.35	0	3 (43.5)	2. 5 (36.3)	6	6	SCH283A016	V	E
2/2 NO - Normally Open, FKM Seals											
11 (0.43)	5.5 (0.22)	0. 55	0.64	0	1.5 (21.8)	1 (14.5)	8	9	SCH283A018V	-	-

[ ] Value for differential pressure with FKM and EPDM seals

How to Order

SC H 283A0xx V xx

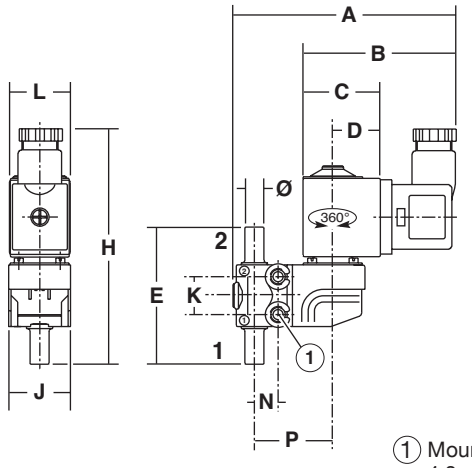
- **Prefix**
- **Pipe Thread**
- **Catalog Number**
- **Voltage**
  - 12 = 12 VDC
  - 24 = 24 VDC
- **Suffix**
  - V = FKM
  - E = EPDM

Dimensions: mm (inches)

Dimensional Drawings

Type 01 Prefix "SC" solenoid
DIN 43650

SCH283A003/A004/A016

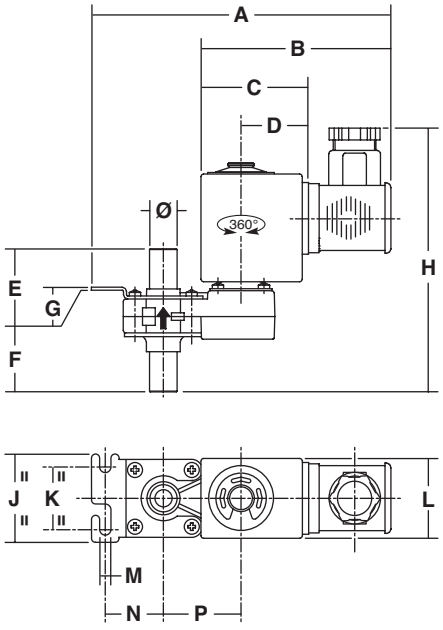


① Mounting: 2 holes
4.3mm (0.17in)

Pressure inlet:
NC function: orifice 1 (type 01) or arrow on body (type 02)
NO function: orifice 2 (type 01) or arrow on body (type 02)

Type 02 Prefix "SC" solenoid
ISO 4400

SCH283A010/A008/A018V



Type	Prefix Option	Catalog Number	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Weight[2] kg
01	SC	SCH283A003/A004	94 (3.7)	64.5 (2.54)	33.5 (1.32)	21 (0.83)	58 (2.28)	-	-	97 (3.82)	26 (1.02)	16 (0.63)	25 (0.98)	-	10 (0.39)	33 (1.30)	0.170
		SCH283A016															0.200
02	SC	SCH283A010/A008E/018V	121.5 (4.78)	78 (3.07)	43 (1.69)	27 (1.06)	16.5 (0.65)	40.5 (1.59)	1.2 (0.047)	105 (4.13)	35 (1.38)	25 (0.98)	32 (1.26)	4.5 (0.18)	23 (0.91)	31 (1.22)	0.285

[2] Including coil(s) and connector(s)

Options

- Valves can also be supplied with FKM (fluoroelastomer) and EPDM (ethylene-propylene) poppet seal
- 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. For optimum performance mount solenoid vertical and upright
- Replacement coils are available: BMX: DC: 12 V, cat. no.: **43005158** /AC: 24 V, cat. no.: **43005161**; 115 V, cat. no.: **43005162**
  AMX: DC: 12 V, cat. no.: **43005143**/AC: 24 V, cat. no.: **43005146**; 115 V, cat. no.: **43005147**