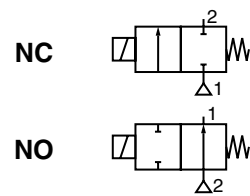




# SOLENOID VALVES

lever mechanism, fluid isolation  
with smooth spigots  
O.D. 8 - 11 mm



**2/2**  
Series  
**283**

## FEATURES

- Solenoid valves for medical analysers, biotechnology and chemical industry
- Ideal solenoid valves to control corrosive fluids
- The solenoid valves satisfy all relevant EC directives

## GENERAL

**Differential pressure** See «SPECIFICATIONS» [1 bar = 100 kPa]  
**Maximum viscosity** 37 cSt (mm<sup>2</sup>/s)  
**Response time** 25 ms

fluids (*)	temperature range (TS)	seal materials (*)
air, inert gases, filtered, water, oil and liquid fluids	-10°C to + 100°C	VMQ (silicone)
		FPM (fluoroelastomer)
		EPDM (ethylene-propylene)

## MATERIALS IN CONTACT WITH FLUID

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

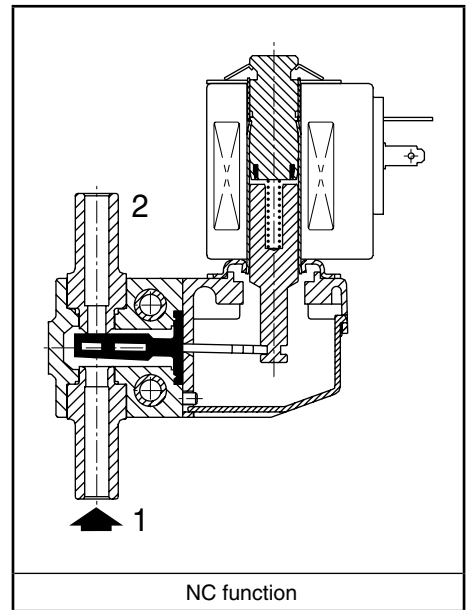
**Body** PEI (polyetherimide)  
**Poppet seal** VMQ, EPDM or FPM

## ELECTRICAL CHARACTERISTICS

**Coil insulation class** F  
**Connector** Spade plug (cable Ø 6-8 mm or Ø 6-10 mm)  
**Connector specification**  
 with coil 6W/6W (BMX) DIN 43650, 11 mm, industry standard B  
 with coil 8W/9W (AMX) ISO 4400 / EN 175301-803, form A  
**Electrical safety** IEC 335  
**Electrical enclosure protection** Moulded IP65 (EN 60529)  
**Standard voltages** DC (-) : 12V - 24V  
 (Other voltages and 60 Hz on request) AC (~) : 24V - 115V - 230V / 50 Hz (BMX = 50-60 Hz)

prefix option	power ratings				operator ambient temperature range (TS) (C°)	replacement coil		type <sup>(1)</sup>
	inrush ~	holding ~		hot/cold =		~	=	
	(VA)	(VA)	(W)	(W)		230 V/50 Hz	24 V DC	
SC	16	10	6	6	-10 to + 60	43005164	43005159	01 (BMX)
	23	14	8	9	-10 to + 60	43005149	43005144	02 (AMX)

<sup>(1)</sup> Refer to the dimensional drawings on the following page.



## SPECIFICATIONS

spigot O.D.	spigot I.D.	flow coefficient Kv			min.	operating pressure differential (bar)		power coil (W)		catalogue number	options				
		(mm)	(m <sup>3</sup> /h)	(l/min)		max. (PS)		~	=		~/=	FPM	EPDM		
						air, inert gases, liquids (*)									
<b>NC - Normally closed, VMQ seals</b>															
8	2,7	0,23	3,83	0	5 (10)	5	6	6	6	SCH283A003	V	E	-	-	
8	3,4	0,30	5,00	0	3 (6)	3	6	6	6	SCH283A004	V	E	-	-	
11	5,5	0,55	9,16	0	1,5	1	8	9	9	SCH283A010	-	-	-	-	
<b>NC - Normally closed, EPDM seals (optional: FPM)</b>															
11	5,5	0,55	9,16	0	4,5	1	8	9	9	SCH283A008E	V	-	-	-	
<b>NO - Normally open, VMQ seals</b>															
8	3,4	0,30	5,00	0	3	2,5	6	6	6	SCH283A016	V	E	-	-	
<b>NO - Normally open, FPM seals</b>															
11	5,5	0,55	9,16	0	1,5	1	8	9	9	SCH283A018V	-	-	-	-	

( ) Value for differential pressure with FPM and EPDM seals.

### OPTIONS

- Valves can also be supplied with FPM (fluoroelastomer) and EPDM (ethylene-propylene) poppet seal. Use the appropriate optional suffix letter for identification
- Plug with visual indication and peak voltage suppression or with cable length of 2 m

### 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**
- Installation/maintenance instructions are included with each valve

### ORDERING EXAMPLES:

SC	H	283	A	003	12V / DC
SC	H	283	A	004	V 24V / DC
SC	H	283	A	010	230V / 50Hz

prefix — pipe thread — basic number — voltage — suffix

### DIMENSIONS (mm), WEIGHT (kg)



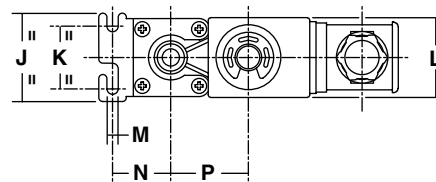
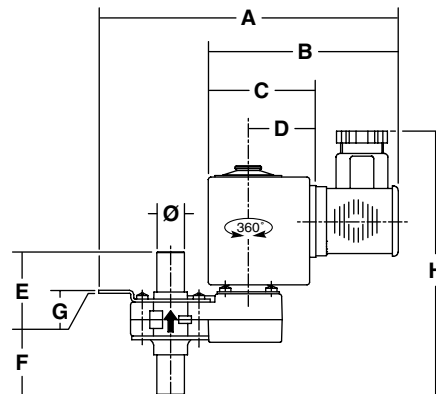
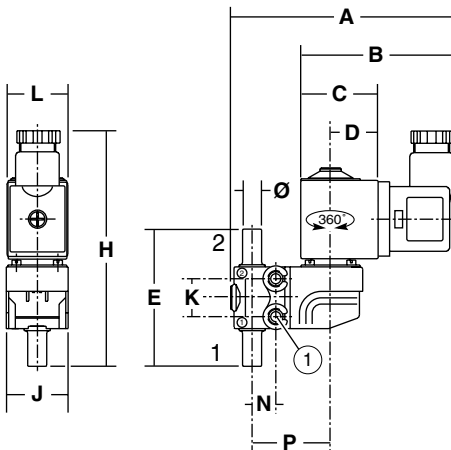
**TYPE 01**  
Prefix "SC" Solenoid  
DIN 43650

SCH283A003 / A004 / A016



**TYPE 02**  
Prefix "SC" Solenoid  
ISO 4400

SCH283A010 / A008 / A018V



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	prefix option	catalogue number	A	B	C	D	E	F	G	H	J	K	L	M	N	P	weight <sup>(2)</sup>
01	SC	SCH283A003 / A004	94	64,5	33,5	21	58	-	-	97	26	16	25	-	10	33	0,170
		SCH283A016															0,200
02	SC	SCH283A010 / A008E / 018V	121,5	78	43	27	16,5	40,5	1,2	105	35	25	32	4,5	23	31	0,285

① Mounting: 2 holes  
Ø 4,3 mm

<sup>(2)</sup> Incl. coil(s) and connector(s).