

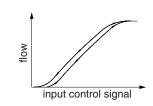
## PROPORTIONAL SOLENOID VALVE **POSIFLOW**

1/8

direct operated

## **FEATURES**

- · Variable flow, proportional to the control signal
- · Valves do not require a minimum operating pressure
- Valves can be mounted in any position
- The solenoid valves satisfy all relevant EU directives



#### **GENERAL**

**Body** 

Differential pressure See «SPECIFICATIONS» [1 bar =100 kPa]

Maximum viscosity 50 cSt (mm<sup>2</sup>/s)

fluids (*)	temperature range (TS)	seal materials (*)
air, inert gas, water, oil	0°C to +50°C	FPM (fluoroelastomer)

#### **MATERIALS IN CONTACT WITH FLUID**

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

Stainless steel body **Brass body Brass AISI 303** 

Stainless steel Core tube Stainless steel Core and plugnut Stainless steel Stainless steel **Springs** Stainless steel Stainless steel Riderring **PTFE PTFE** 

Seat **Brass** Stainless steel **Seals FPM FPM** 

Disc **FPM FPM** 

**Breaker piece** Stainless steel Stainless steel

#### **ELECTRICAL CHARACTERISTICS**

**Coil insulation class** 

Connector Spade plug (cable Ø 6-8 mm)

**Connector specification** DIN 43650, 11 mm, industry standard B

**Electrical safety** IEC 335

**Electrical enclosure protection** Moulded IP65 (EN 60529)

Standard voltages DC (=): 24V (Other voltages on request)

ſ		anavatina		power	ratings		operator	replacement coil	
-	prefix option	operating current	inrush	holding ~		hot/cold	ambient temperature	replacement con	type (1)
1			~			=	range (TS) (2)	=	type
1		(mA)	(VA)	(VA)	(W)	(W)	(C°)	24 V DC	
	SC	100 - 450	-	-	-	8,6 / 6,3	0 to +40	-	01

Voltage regulation 0 - 24 V DC

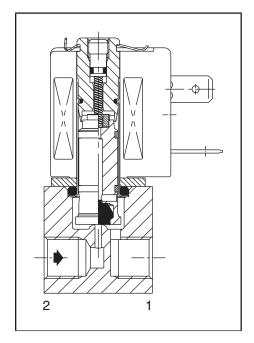
24 V DC pulse width modulated (400 Hz)

characteristics (2) Hysteresis < 5%; Repeatability < 1%; Sensitivity < 1%



NC





## **SPECIFICATIONS**

Flow regulation

						operating pro						0	otior	ıs
pipe size	orifice size	flow coefficient				differential ( max.	(PS)		power coil	catalogu	e number			
3126	SIZE	K	V	min.	vacuum	air (*)	water (*)	oil (*)	(W)	brass	stainless steel	EPDM	Ⅱ	
G	(mm)	(m³/h)	(l/min)		=	=	=	=	=	=	=		ΡT	
NC -	Norma	lly clo	sed											
	1,2	0,05	0,7	0	1	8	5	5	6,3	SCG202A201V	SCG202A205V	E	Т	-
1/8	1,6	0,07	1,1	0	1	6	4	4	6,3	SCG202A202V	SCG202A206V	E	Т	
1/6	2,4	0,13	2,2	0	1	4	3	3	6,3	SCG202A203V	SCG202A207V	Е	Т	-
	3,2	0,18	2,9	0	1	2,5	2,5	2,5	6,3	SCG202A204V	SCG202A208V	E	Т	-

Refer to the dimensional drawings on the following page. Percentage of max. value with 24 V DC, P.W.M. 400 Hz, supply at constant differential pressure.



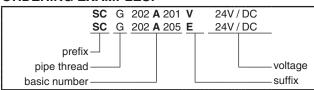
## **OPTIONS**

- · Valves can also be supplied with NBR (nitrile), EPDM (ethylene propylene) and PTFE seals and discs
- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 2014/34/EU, on request
- Electrical enclosures according to "NEMA" standards are available
- Mounting brackets
- Electronic proportional control unit (catalogue number: E908A003, see V150 / X90850164500100-0200, see V149)
  - analog input control signals: 0 10 V DC, 0 20 mA or 4 20 mA
  - coil current (= flow rate) adjustable to required control signals
  - switch-off function at less than 2% of the maximum control function
  - adjustable ramp control
  - adjustable frequency
  - output current independent of coil resistance and supply voltage variations
  - housed in: a box with spade plug connector according to ISO 4400 / IP65
- · Other pipe connections are available on request

## **INSTALLATION**

- The solenoid valves can be mounted in any position without affecting operation
- Solenoid valves have 2 mounting holes in body
- Threaded pipe connection is standard: G = G (ISO 228/1)
- Installation/maintenance instructions are included with each valve

#### **ORDERING EXAMPLES:**

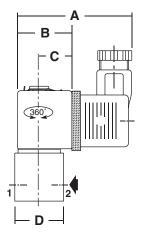


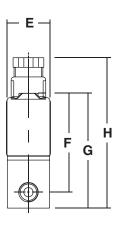
## **DIMENSIONS** (mm), **WEIGHT** (kg)





TYPE 01 Prefix "SC" Solenoid Epoxy moulded IEC 335 / DIN 43650 IP65







type	prefix option	Α	В	С	D	E	F	G	Н	Х	weight (1)
01	SC	59	28	17	25	22	52	60	78	-	0,2

(1) including coil and connector.

B

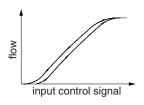


## PROPORTIONAL SOLENOID VALVE **POSIFLOW**

direct operated 1/4 - 3/8

#### **FEATURES**

- Variable flow, proportional to the control signal
- Valves do not require a minimum operating pressure
- Valves can be mounted in any position
- The solenoid valves satisfy all relevant EU directives



**GENERAL Differential pressure** Maximum viscosity

See «SPECIFICATIONS» [1 bar =100 kPa]

21 cSt (mm<sup>2</sup>/s)

fluids (*)	temperature range (TS) (2)	seal materials (*)
air, inert gas, water, oil	-10°C to +90°C	FPM (fluoroelastomer)

#### MATERIALS IN CONTACT WITH FLUID

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

**Body** Brass AISI 303 SS Core tube Stainless steel Stainless steel Core and plugnut Stainless steel Stainless steel Springs Stainless steel Stainless steel Riderring **PTFE** PTFE Brass Stainless steel Seat

Seal, disc **FPM FPM** 

**Breaker piece** Stainless steel Stainless steel

# **ELECTRICAL CHARACTERISTICS**Coil insulation class F

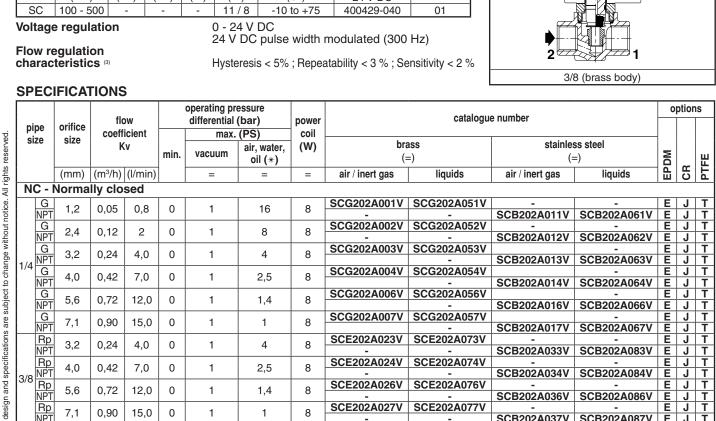
Spade plug (cable Ø 6-10 mm) ISO 4400 / EN 175301-803, form A IEC 335 Connector Connector specification

Electrical safety

Electrical enclosure protection

Moulded IP65 (EN 60529) DC (=): 24V (Other voltages on request) Standard voltages

	a maratina		power	ratings		operator	replacement coil	
prefix	operating current	inrush	hold	ling	hot/cold	ambient temperature	replacement con	type (1)
option		~	~		=	range (TS) (2)	=	type 🗥
	(mA)	(VA)	(VA)	(W)	(W)	(C°)	24 V DC	
SC	100 - 500	-	-	-	11/8	-10 to +75	400429-040	01



SCE202A027V

SCE202A077V

15,0 (1) (2)

12.0

0

0

5.6

7,1

NPT

00021GB-2016/R0

Availability,

0.72

0,90

Refer to the dimensional drawings on the following page.
Damage may occur when liquids solidify above the specified minimum temperature.
Percentage of max. value with 24 V DC, P.W.M. 300 Hz, supply at constant differential pressure.

1

1

1.4

1

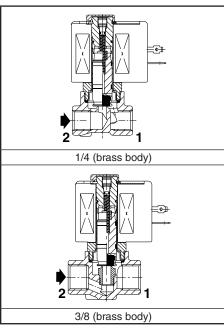
8

8



NC





SCB202A036V

Е



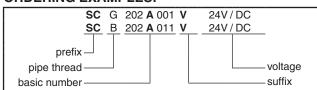
#### **OPTIONS**

- Valves can also be supplied with NBR (nitrile), EPDM (ethylene-propylene), CR (chloroprene / neoprene) and PTFE seals and discs
- Waterproof enclosure with embedded screw terminal coil according to protection class IP67, CEE-10
- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 2014/34/EU, on request
- Electrical enclosures according to "NEMA" standards are available
- Mounting brackets
- Electronic proportional control unit (catalogue number: E908A001, see V150 / X90850164500100-0200, see V149)
   Features:
  - analog input control signals: 0 10 V DC, 0 20 mA or 4 20 mA
  - coil current (= flow rate) adjustable to required control signals
  - switch-off function at less than 2% of the maximum control function
  - adjustable ramp control
  - adjustable frequency
  - output current independent of coil resistance and supply voltage variations
  - housed in: a box with spade plug connector according to ISO 4400 / IP65
- · Other pipe connections are available on request

#### INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Brass and NPT 3/8 stainless steel solenoid valves have 2 mounting holes in body
- NPT 1/4 stainless steel valves are standard supplied with mounting brackets
- Threaded pipe connection is standard: E = Rp (ISO 7/1); G = G (ISO 228/1); B = NPT (ANSI 1.20.3)
- Installation/maintenance instructions are included with each valve

## **ORDERING EXAMPLES:**

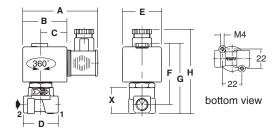


## **DIMENSIONS** (mm), **WEIGHT** (kg) □

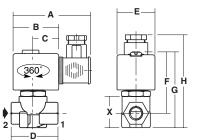


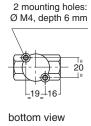
TYPE 01 Prefix "SC" Solenoid Epoxy moulded IEC 335 / ISO 4400 IP65

#### SCG202A001V/002V/003V/004V/006V/007V SCB202A051V/052V/053V/054V/056V/057V

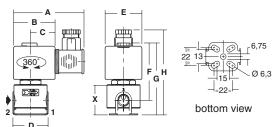


#### SCE202A023V/024V/026V/027V SCE202A073V/074V/076V/077V

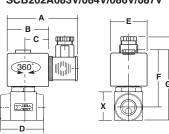


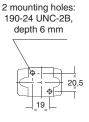


### SCG202A011V/012V/013V/014V/016V/017V SCB202A061V/062V/063V/064V/066V/067V



### SCB202A033V/034V/036V/037V SCB202A083V/084V/086V/087V





bottom view

type	prefix option	catalogue number	Α	В	С	D	Е	F	G	Н	х	weight (1)
		SCG202A001V/002V/003V/004V/006V/007V/051V/052V/053V/054V/056V/057V	85	50	30	40	45	68	79	95	30	0,50
01	sc	SCG202A011V/012V/013V/014V/016V/017V/061V/062V/063V/064V/066V/067V	80	50	30	42	45	60	79	95	37	0,60
1 01	30	SCE202A023V/024V/026V/027V/073V/074V/076V/077V	80	50	30	48	45	68	82	97	32	0,50
		SCB202A033V/034V/036V/037V/083V/084V/086V/087V	80	50	30	51	45	68	81	97	31	0,65

<sup>(1)</sup> including coil and connector.