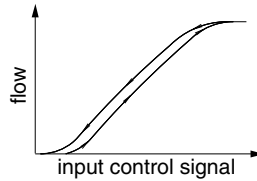


#### FEATURES

- 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 EC directives



#### GENERAL

**Differential pressure** See «SPECIFICATIONS» [1 bar = 100 kPa]  
**Maximum viscosity** 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
<b>Body</b>	Brass	AISI 303 SS
<b>Core tube</b>	Stainless steel	Stainless steel
<b>Core and plugnut</b>	Stainless steel	Stainless steel
<b>Springs</b>	Stainless steel	Stainless steel
<b>Riderring</b>	PTFE	PTFE
<b>Seat</b>	Brass	Stainless steel
<b>Seal, disc</b>	FPM	FPM
<b>Breaker piece</b>	Stainless steel	Stainless steel

#### ELECTRICAL CHARACTERISTICS

**Coil insulation class** F  
**Connector** Spade plug (cable Ø 6-10 mm)  
**Connector specification** ISO 4400 / EN 175301-803, form A  
**Electrical safety** IEC 335  
**Electrical enclosure protection** Moulded IP65 (EN 60529)  
**Standard voltages** DC (=) : 24V (Other voltages on request)

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

#### Voltage regulation

0 - 24 V DC  
 24 V DC pulse width modulated (300 Hz)

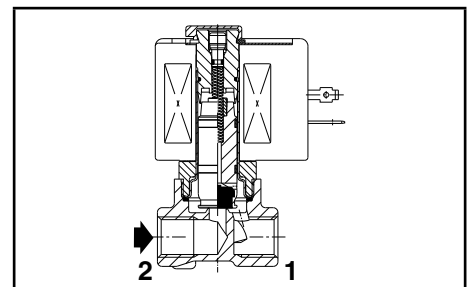
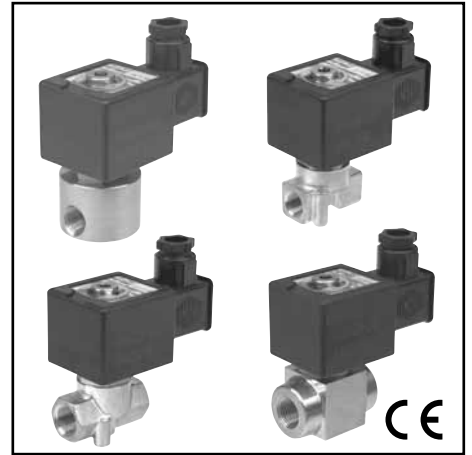
#### Flow regulation characteristics (3)

Hysteresis < 5% ; Repeatability < 3% ; Sensitivity < 2%

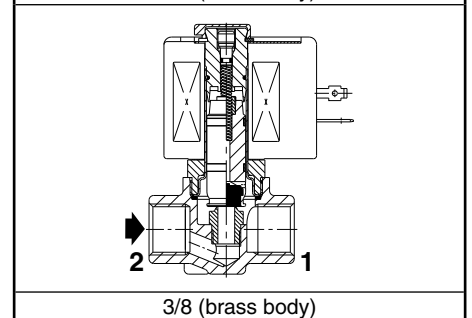
#### SPECIFICATIONS

pipe size	orifice size (mm)	flow coefficient Kv (m <sup>3</sup> /h) (l/min)		operating pressure differential (bar)			power coil (W)	catalogue number				options			
				min.	max. (PS)			brass (=)	stainless steel (=)		EPDM	CR	P.TEE		
					vacuum	air, water, oil (*)			air / inert gas	liquids				air / inert gas	liquids
<b>NC - Normally closed</b>															
1/4	G	1,2	0,05	0,8	0	1	16	8	SCG202A001V	SCG202A051V	-	-	E	J	T
	NPT	1,2	0,05	0,8	0	1	16	8	-	-	SCB202A011V	SCB202A061V	E	J	T
	G	2,4	0,12	2	0	1	8	8	SCG202A002V	SCG202A052V	-	-	E	J	T
	NPT	2,4	0,12	2	0	1	8	8	-	-	SCB202A012V	SCB202A062V	E	J	T
	G	3,2	0,24	4,0	0	1	4	8	SCG202A003V	SCG202A053V	-	-	E	J	T
	NPT	3,2	0,24	4,0	0	1	4	8	-	-	SCB202A013V	SCB202A063V	E	J	T
	G	4,0	0,42	7,0	0	1	2,5	8	SCG202A004V	SCG202A054V	-	-	E	J	T
	NPT	4,0	0,42	7,0	0	1	2,5	8	-	-	SCB202A014V	SCB202A064V	E	J	T
3/8	G	5,6	0,72	12,0	0	1	1,4	8	SCG202A006V	SCG202A056V	-	-	E	J	T
	NPT	5,6	0,72	12,0	0	1	1,4	8	-	-	SCB202A016V	SCB202A066V	E	J	T
	G	7,1	0,90	15,0	0	1	1	8	SCG202A007V	SCG202A057V	-	-	E	J	T
	NPT	7,1	0,90	15,0	0	1	1	8	-	-	SCB202A017V	SCB202A067V	E	J	T
	Rp	3,2	0,24	4,0	0	1	4	8	SCE202A023V	SCE202A073V	-	-	E	J	T
	NPT	3,2	0,24	4,0	0	1	4	8	-	-	SCB202A033V	SCB202A083V	E	J	T
	Rp	4,0	0,42	7,0	0	1	2,5	8	SCE202A024V	SCE202A074V	-	-	E	J	T
	NPT	4,0	0,42	7,0	0	1	2,5	8	-	-	SCB202A034V	SCB202A084V	E	J	T
3/8	Rp	5,6	0,72	12,0	0	1	1,4	8	SCE202A026V	SCE202A076V	-	-	E	J	T
	NPT	5,6	0,72	12,0	0	1	1,4	8	-	-	SCB202A036V	SCB202A086V	E	J	T
	Rp	7,1	0,90	15,0	0	1	1	8	SCE202A027V	SCE202A077V	-	-	E	J	T
	NPT	7,1	0,90	15,0	0	1	1	8	-	-	SCB202A037V	SCB202A087V	E	J	T

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



1/4 (brass body)



3/8 (brass body)

### 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 94/9/EC, on request
- Electrical enclosures according to "NEMA" standards are available
- Mounting brackets
- Electronic proportional control unit (catalogue number: **E908A001**, see V150)  
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:

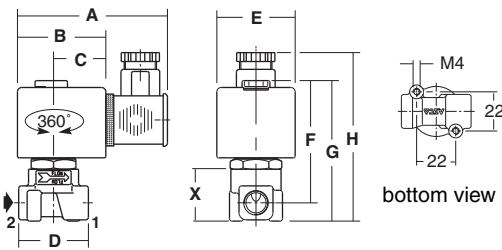
	SC	G	202	A	001	V	24V / DC
	SC	B	202	A	011	V	24V / DC
prefix							
pipe thread							
basic number							
							voltage
							suffix

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

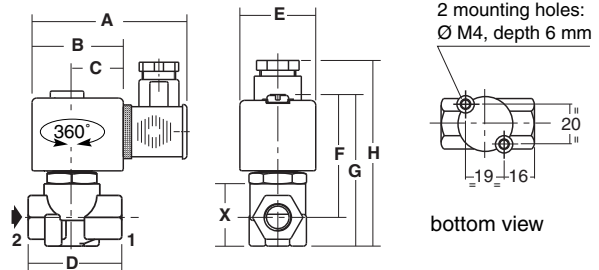


**TYPE 01**  
Prefix "SC" Solenoid  
Epoxy moulded  
IEC 335 / ISO 4400  
IP65

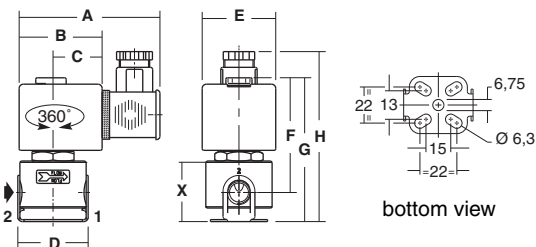
**SCG202A001V/002V/003V/004V/006V/007V**  
**SCB202A051V/052V/053V/054V/056V/057V**



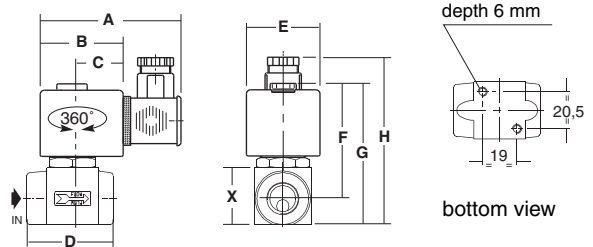
**SCE202A023V/024V/026V/027V**  
**SCE202A073V/074V/076V/077V**



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



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



type	prefix option	catalogue number	A	B	C	D	E	F	G	H	X	weight <sup>(1)</sup>
01	SC	SCG202A001V/002V/003V/004V/006V/007V/051V/052V/053V/054V/056V/057V	85	50	30	40	45	60	78	95	30	0,50
		SCG202A011V/012V/013V/014V/016V/017V/061V/062V/063V/064V/066V/067V	80	50	30	42	45	60	79	95	37	0,60
		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.