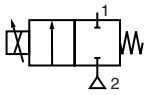
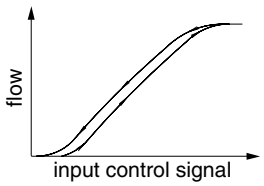
PROPORTIONAL SOLENOID VALVES
POSIFLOW
direct operated
1/8

NC 

FEATURES

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



GENERAL

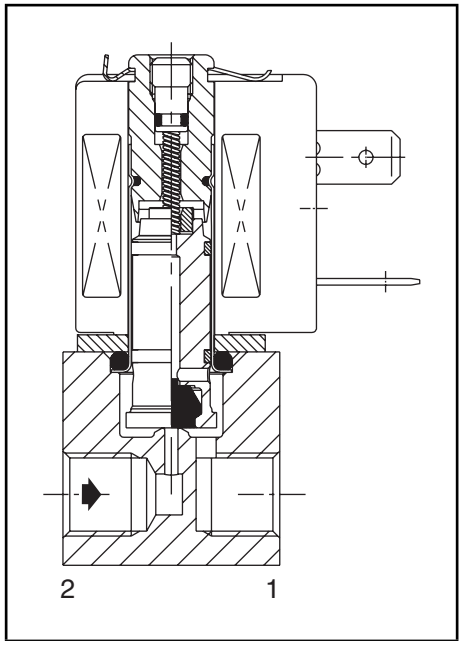
Differential pressure See "SPECIFICATIONS" [1 bar =100 kPa]
Maximum viscosity 50 cSt (mm²/s)

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

	Brass body	Stainless steel body
Body	Brass	AISI 303
Core tube	Stainless steel	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 F
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 voltage DC (=) : 24V (other voltages on request)

prefix option	operating current	power ratings inrush ~	holding ~		hot/cold =	operator ambient temperature ranges (TS) (2)	replacement coil =	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)

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

SPECIFICATIONS

pipe size	orifice size	flow coefficient Kv		operating pressure differential (bar) min.	max. (PS) vacuum	air (✳)	water (✳)	oil (✳)	power coil (W)	catalogue number brass	stainless steel	options EPDM	PTFE	
G	(mm)	(m³/h)	(l/min)				=	=	=	(=)				
NC - Normally closed														
1/8	1,2	0,05	0,7	0	1	8	5	5	6,3	**SCG202A201V**	**SCG202A205V**	**E**	**T**	**-**
	1,6	0,07	1,1	0	1	6	4	4	6,3	**SCG202A202V**	**SCG202A206V**	**E**	**T**	**-**
	2,4	0,13	2,2	0	1	4	3	3	6,3	**SCG202A203V**	**SCG202A207V**	**E**	**T**	**-**
	3,2	0,18	2,9	0	1	2,5	2,5	2,5	6,3	**SCG202A204V**	**SCG202A208V**	**E**	**T**	**-**

(1) Refer to the dimensional drawings on the following page.
(2) Percentage of max. value with 24 V DC, P.W.M. 400 Hz, supply at constant ΔP.

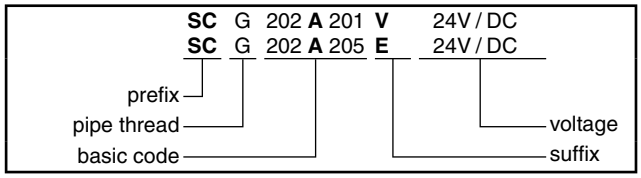
OPTIONS

- 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 94/9/EC, on request
- Electrical enclosures according to “NEMA” standards are available
- Mounting brackets
- Electronic proportional control unit (catalogue number: **E908A003**, see V150)
  Features:
  - input control signals, analog: 0 - 10 V DC, 0 - 20 mA or 4 - 20 mA
  - adjustable coil current (= flow rate) at 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

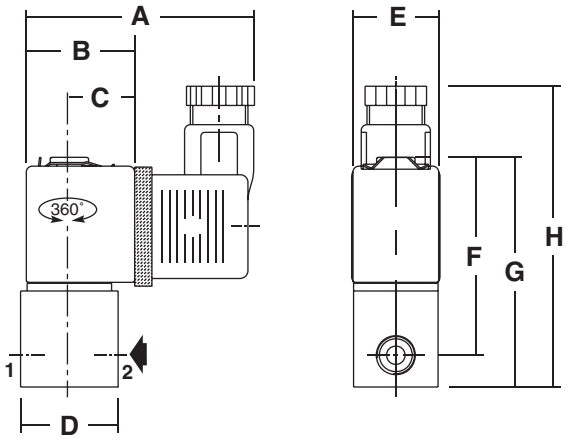
- The solenoid valves can be mounted in any position without affecting operation
- The valve body has two mounting holes
- Threaded pipe connection is standard: G = G (ISO 228/1)
- Installation/maintenance instructions are included with each valve

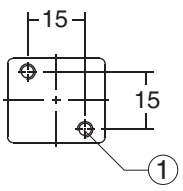
ORDERING EXAMPLES:



DIMENSIONS (mm), WEIGHT (kg)

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





type	prefix option	A	B	C	D	E	F	G	H	X	weight (1)
01	SC	59	28	17	25	22	52	60	78	-	0,2

(1) including coil and connector.