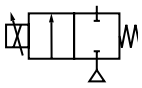
PROPORTIONAL SOLENOID VALVES
POSIFLOW
direct operated
1/4 - 3/8

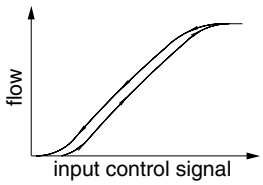
NC

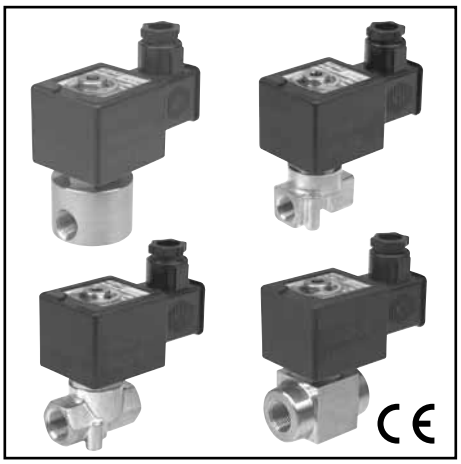


2/2
Series
202

FEATURES

- *Variable flow, proportional to the input 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 (mm²/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

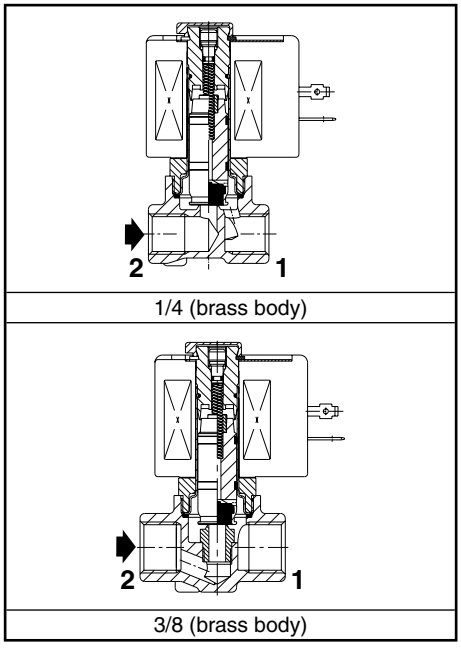
	Brass body	Stainless steel body
Body	Brass	AISI 303 SS
Core tube	Stainless steel	Stainless steel
Core and plugnut	Stainless steel	Stainless steel
Springs	Stainless steel	Stainless steel
Riderring	PTFE	PTFE
Seat	Brass	Stainless steel
Seal, disc	FPM	FPM
Breaker piece	Stainless steel	Stainless steel

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	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 - 500	-	-	-	11 / 8	-10 to + 75	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 %



1/4 (brass body)

3/8 (brass body)

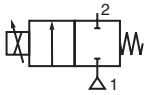
SPECIFICATIONS

pipe size		orifice size	flow coefficient kv		operating pressure differential (bar) min.	max. (PS) vacuum	max. (PS) air, water, oil (∗)	power coil (W)	catalogue number brass (=) air / inert gas	brass (=) liquids	stainless steel (=) air / inert gas	stainless steel (=) liquids	options EPDM	CR	PTFE
		(mm)	(m³/h)	(l/min)		=	=	=							
NC - Normally closed															
1/4	G	1,2	0,05	0,8	0	1	16	8	SCG202A001V	SCG202A051V	-	-	E	J	T
	NPT								-	-	SCB202A011V	SCB202A061V	E	J	T
	G	2,4	0,12	2	0	1	8	8	SCG202A002V	SCG202A052V	-	-	E	J	T
	NPT								-	-	SCB202A012V	SCB202A062V	E	J	T
	G	3,2	0,24	4,0	0	1	4	8	SCG202A003V	SCG202A053V		-	E	J	T
	NPT									-	SCB202A013V	SCB202A063V	E	J	T
	G	4,0	0,42	7,0	0	1	2,5	8	SCG202A004V	SCG202A054V		-	E	J	T
	NPT									-	SCB202A014V	SCB202A064V	E	J	T
	G	5,6	0,72	12,0	0	1	1,4	8	SCG202A006V	SCG202A056V		-	E	J	T
	NPT									-	SCB202A016V	SCB202A066V	E	J	T
	G	7,1	0,90	15,0	0	1	1	8	SCG202A007V	SCG202A057V		-	E	J	T
	NPT									-	SCB202A017V	SCB202A067V	E	J	T
3/8	Rp	3,2	0,24	4,0	0	1	4	8	SCE202A023V	SCE202A073V	-	-	E	J	T
	NPT								-	-	SCB202A033V	SCB202A083V	E	J	T
	Rp	4,0	0,42	7,0	0	1	2,5	8	SCE202A024V	SCE202A074V	-	-	E	J	T
	NPT								-	-	SCB202A034V	SCB202A084V	E	J	T
	Rp	5,6	0,72	12,0	0	1	1,4	8	SCE202A026V	SCE202A076V	-	-	E	J	T
	NPT								-	-	SCB202A036V	SCB202A086V	E	J	T
	Rp	7,1	0,90	15,0	0	1	1	8	SCE202A027V	SCE202A077V	-	-	E	J	T
	NPT								-	-	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 ΔP.

All leaflets are available on: **www.asconumatics.eu**

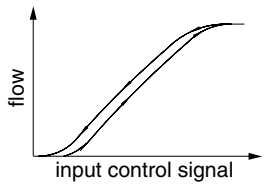
PROPORTIONAL SOLENOID VALVES
POSIFLOW
direct operated
pad mounting body, M5 subbase

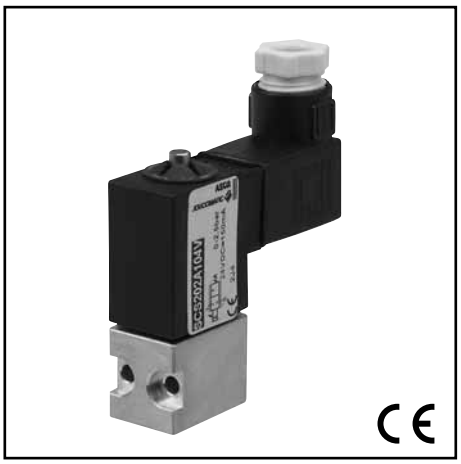
NC 

2/2
Series
202

FEATURES

- *Proportional solenoid valves for mounting on single subbase with threaded M5 port connections*
- *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

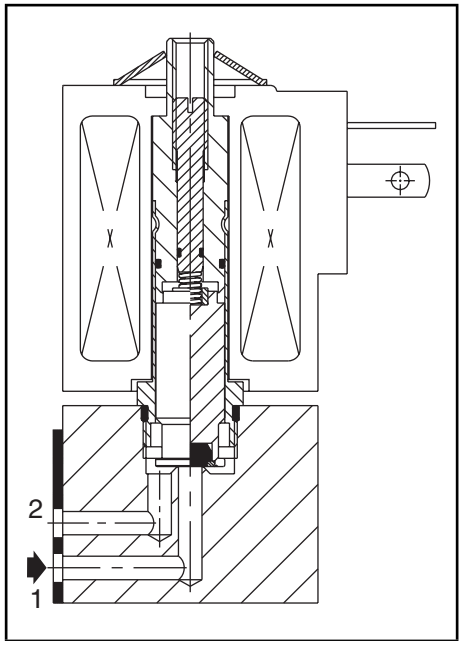
Differential pressure See "SPECIFICATIONS" [1 bar =100 kPa]

fluids (✳)	temperature range (TS)	seal materials (✳)
air, inert gas	0°C to + 60°C	FPM (fluoroelastomer)

MATERIALS IN CONTACT WITH FLUID

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

Body	Brass
Core tube	Brass
Core and plugnut	Stainless steel
Springs	Stainless steel
Seat	Brass
Seals	FPM



ELECTRICAL CHARACTERISTICS

Coil insulation class	F
Connector	Spade plug (cable Ø 4-6 mm)
Connector specification	DIN 43650, 9,4 mm, industry standard B
Electrical safety	IEC 335
Electrical enclosure protection	Moulded IP65 (EN 60529)
Standard voltages (2)	DC (=) : 12V, 24V (Other voltages on request)

prefix option	voltage	operating current	power ratings				operator ambient temperature range (TS) (2)	type (1)
			inrush ~	holding ~		hot/cold =		
	(V) =	(mA)	(VA)	(VA)	(W)	(W)	(C°)	
SC	12	max. 175	-	-	-	3 / 2,6	0 to + 60	01
	24	max. 125						

Voltage regulation (3) 0 - 24 V DC
24 V DC pulse width modulated (1000 Hz)

Flow regulation characteristic (2) Hysteresis < 5% ; Repeatability < 3% ; Sensitivity < 2%

SPECIFICATIONS

pipe size	orifice size	flow coefficient Kv		operating pressure differential (bar)			power coil (W)	catalogue number
				min.	max. (PS)			
					vacuum	air (✳)		
	(mm)	(m^3/h)	(l/min)		=	=	=	(=)
NC - Normally closed, pad mounting body (solenoid valve alone)								
à applique	0,8	0,02	0,3	0	1	12	2,6	**SCS202A101V**
	1,2	0,05	0,8	0	1	7	2,6	**SCS202A102V**
	1,6	0,08	1,3	0	1	4	2,6	**SCS202A103V**
	2	0,1	1,7	0	1	2,5	2,6	**SCS202A104V**
NC - Normally closed, pad mounting body, solenoid valve with M5 subbase (4)								
M5	0,8	0,02	0,3	0	1	12	2,6	**SCE202A105V**
	1,2	0,05	0,8	0	1	7	2,6	**SCE202A106V**
	1,6	0,08	1,3	0	1	4	2,6	**SCE202A107V**
	2	0,1	1,7	0	1	2,5	2,6	**SCE202A108V**

(1) Refer to the dimensional drawings on the following page.
(2) Percentage of max value with 24 V DC, P.W.M. 1000 Hz.
(3) For electronic proportional control unit, please contact us.
(4) Solenoid valve supplied with single subbase with threaded M5 port connections, catalogue number **30300001** .

OPTIONS

- Solenoid operators for use in zone 22, category 3, to ATEX Directive 94/9/EC, on request
- Electronic proportional control unit (catalogue number: **E908A004**, see V150)
  - 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 maximum input control signal
  - adjustable ramp control
  - adjustable frequency
  - output current independent of coil resistance (temperature) and supply voltage variations
- Other pipe connections are available on request

INSTALLATION

- The valves can be mounted in any position without affecting operation
- For details on single subbase with threaded M5 port connections, catalogue number **30300001**, contact us
- Installation/maintenance instructions are included with each valve

ORDERING EXAMPLES:

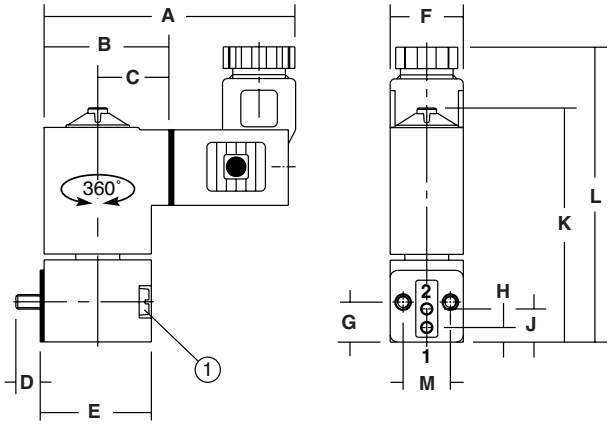
SC S 202 **A** 105 **V** 24V / DC
SC E 202 **A** 105 **V** 24V / DC

prefix
pipe thread
basic number
voltage
suffix

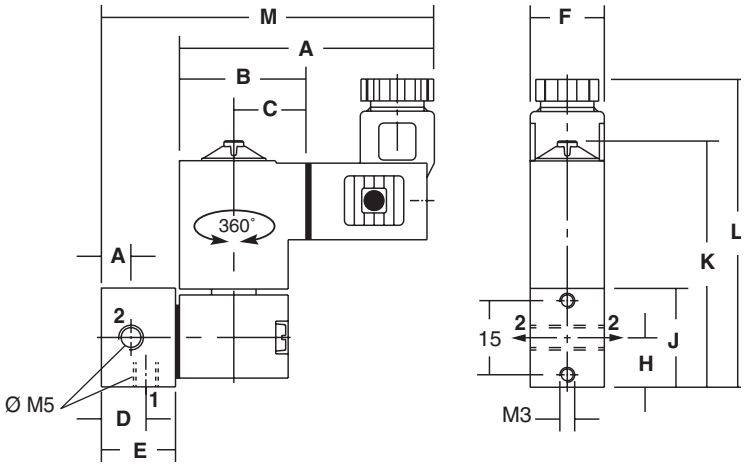
DIMENSIONS (mm), WEIGHT (kg)

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

SCS202A101V/102V/103V/104V



SCE202A105V/106V/107V/108V



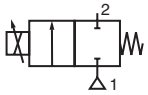
(1) 2 M3 x 25 mounting screws

type	prefix option	catalogue number	A	B	C	D	E	F	G	H	J	K	L	M	weight (1)
01	SC	SCS202A101V/102V/103V/104V	53	25,6	14,8	5	22,8	15	8,2	3	6,8	48	61	9,7	0,95
		SCE202A105V/106V/107V/108V	53	25,6	14,8	9	15	15	6	10	20	52	65	68	1,25 (2)

(1) Incl. coil and connector (2) with subbase

All leaflets are available on: **www.asconumatics.eu**

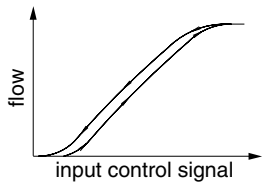
PROPORTIONAL SOLENOID VALVES
POSIFLOW
direct operated
pad mounting body, M5 subbase

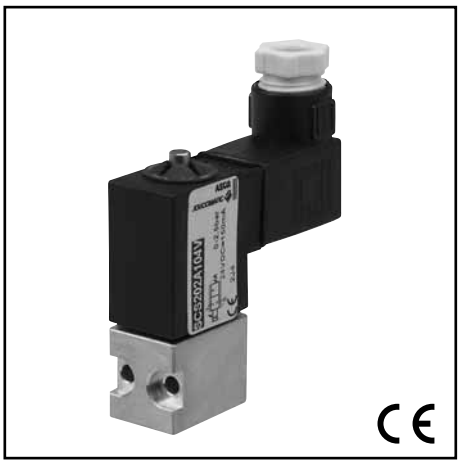
NC 

2/2
Series
202

FEATURES

- *Proportional solenoid valves for mounting on single subbase with threaded M5 port connections*
- *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

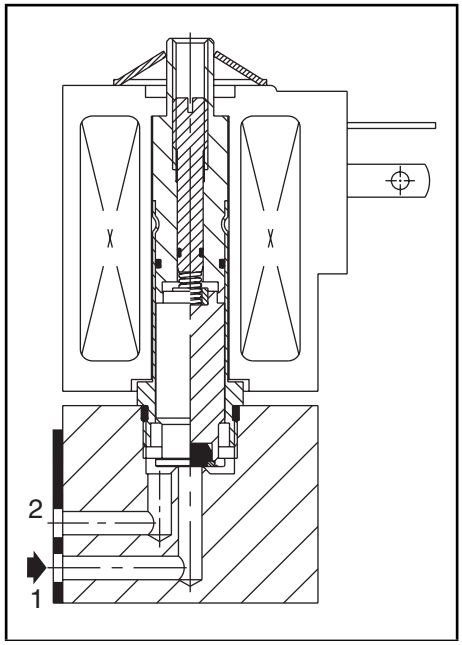
Differential pressure See "SPECIFICATIONS" [1 bar =100 kPa]

fluids (✳)	temperature range (TS)	seal materials (✳)
air, inert gas	0°C to + 60°C	FPM (fluoroelastomer)

MATERIALS IN CONTACT WITH FLUID

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

Body	Brass
Core tube	Brass
Core and plugnut	Stainless steel
Springs	Stainless steel
Seat	Brass
Seals	FPM



ELECTRICAL CHARACTERISTICS

Coil insulation class	F
Connector	Spade plug (cable Ø 4-6 mm)
Connector specification	DIN 43650, 9,4 mm, industry standard B
Electrical safety	IEC 335
Electrical enclosure protection	Moulded IP65 (EN 60529)
Standard voltages (2)	DC (=) : 12V, 24V (Other voltages on request)

prefix option	voltage	operating current	power ratings				operator ambient temperature range (TS) (2)	type (1)
			inrush ~	holding ~		hot/cold =		
	(V) =	(mA)	(VA)	(VA)	(W)	(W)	(C°)	
SC	12	max. 175	-	-	-	3 / 2,6	0 to + 60	01
	24	max. 125						

Voltage regulation (3) 0 - 24 V DC
24 V DC pulse width modulated (1000 Hz)

Flow regulation characteristic (2) Hysteresis < 5% ; Repeatability < 3% ; Sensitivity < 2%

SPECIFICATIONS

pipe size	orifice size	flow coefficient Kv		operating pressure differential (bar)			power coil (W)	catalogue number
				min.	max. (PS)			
					vacuum	air (✳)		
	(mm)	(m^3/h)	(l/min)		=	=	=	(=)
NC - Normally closed, pad mounting body (solenoid valve alone)								
à applique	0,8	0,02	0,3	0	1	12	2,6	**SCS202A101V**
	1,2	0,05	0,8	0	1	7	2,6	**SCS202A102V**
	1,6	0,08	1,3	0	1	4	2,6	**SCS202A103V**
	2	0,1	1,7	0	1	2,5	2,6	**SCS202A104V**
NC - Normally closed, pad mounting body, solenoid valve with M5 subbase (4)								
M5	0,8	0,02	0,3	0	1	12	2,6	**SCE202A105V**
	1,2	0,05	0,8	0	1	7	2,6	**SCE202A106V**
	1,6	0,08	1,3	0	1	4	2,6	**SCE202A107V**
	2	0,1	1,7	0	1	2,5	2,6	**SCE202A108V**

(1) Refer to the dimensional drawings on the following page.
(2) Percentage of max value with 24 V DC, P.W.M. 1000 Hz.
(3) For electronic proportional control unit, please contact us.
(4) Solenoid valve supplied with single subbase with threaded M5 port connections, catalogue number **30300001** .

OPTIONS

- Solenoid operators for use in zone 22, category 3, to ATEX Directive 94/9/EC, on request
- Electronic proportional control unit (catalogue number: **E908A004**, see V150)
  - 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 maximum input control signal
  - adjustable ramp control
  - adjustable frequency
  - output current independent of coil resistance (temperature) and supply voltage variations
- Other pipe connections are available on request

INSTALLATION

- The valves can be mounted in any position without affecting operation
- For details on single subbase with threaded M5 port connections, catalogue number **30300001**, contact us
- Installation/maintenance instructions are included with each valve

ORDERING EXAMPLES:

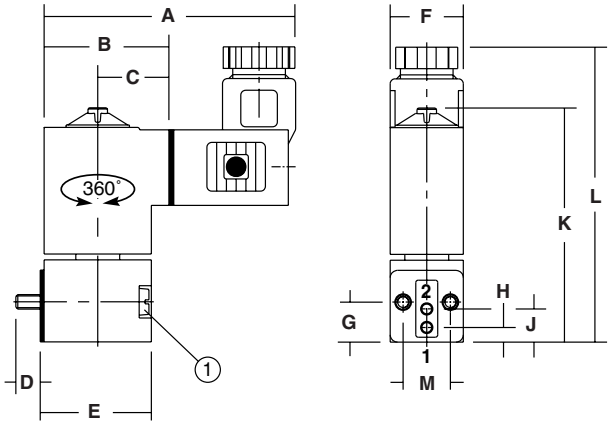
SC S 202 **A** 105 **V** 24V / DC
SC E 202 **A** 105 **V** 24V / DC

prefix
pipe thread
basic number
voltage
suffix

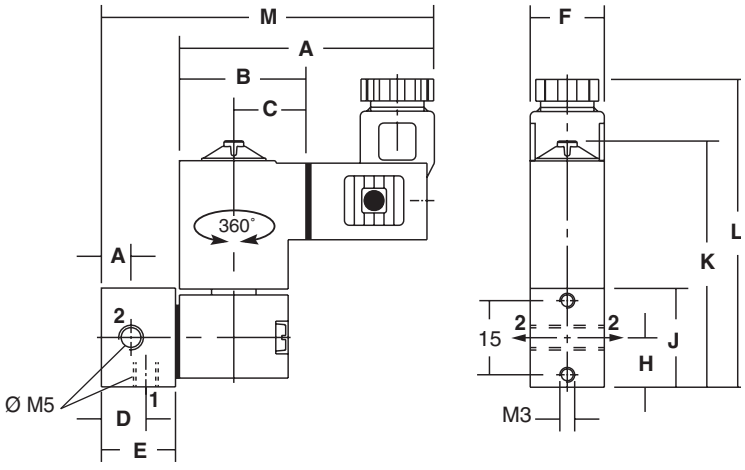
DIMENSIONS (mm), WEIGHT (kg)

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

SCS202A101V/102V/103V/104V



SCE202A105V/106V/107V/108V



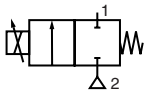
(1) 2 M3 x 25 mounting screws

type	prefix option	catalogue number	A	B	C	D	E	F	G	H	J	K	L	M	weight (1)
01	SC	SCS202A101V/102V/103V/104V	53	25,6	14,8	5	22,8	15	8,2	3	6,8	48	61	9,7	0,95
		SCE202A105V/106V/107V/108V	53	25,6	14,8	9	15	15	6	10	20	52	65	68	1,25 (2)

(1) Incl. coil and connector (2) with subbase

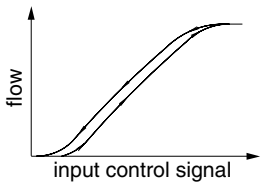
All leaflets are available on: **www.asconumatics.eu**

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

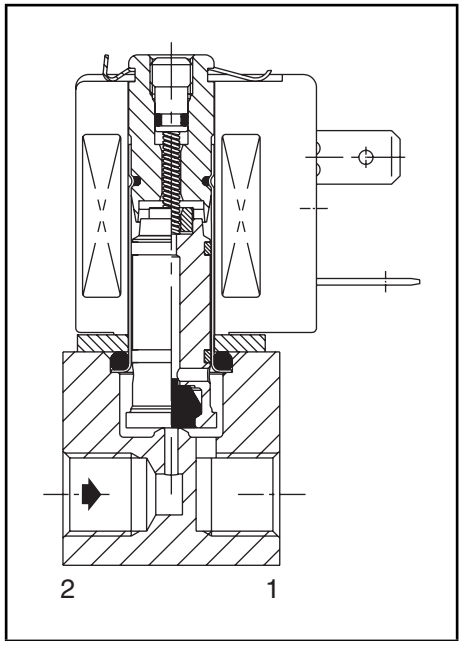
Differential pressure See "SPECIFICATIONS" [1 bar =100 kPa]
Maximum viscosity 50 cSt (mm²/s)

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.

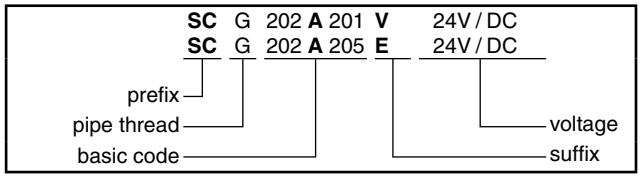
OPTIONS

- 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

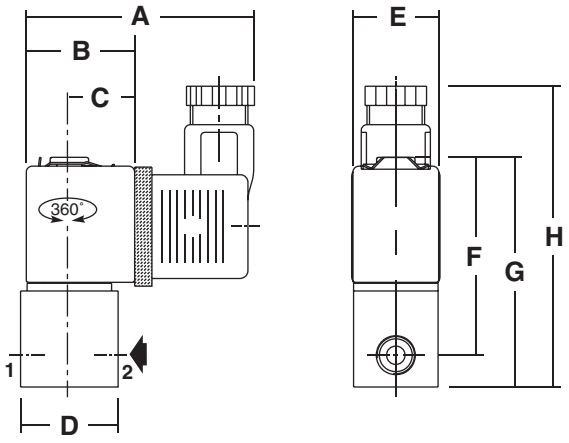
- The solenoid valves can be mounted in any position without affecting operation
- The valve body has two mounting holes
- Threaded pipe connection is standard: G = G (ISO 228/1)
- Installation/maintenance instructions are included with each valve

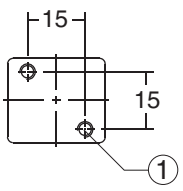
ORDERING EXAMPLES:



DIMENSIONS (mm), WEIGHT (kg)

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



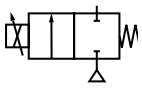


type	prefix option	A	B	C	D	E	F	G	H	X	weight (1)
01	SC	59	28	17	25	22	52	60	78	-	0,2

(1) including coil and connector.

PROPORTIONAL SOLENOID VALVES
POSIFLOW
direct operated
1/4 - 3/8

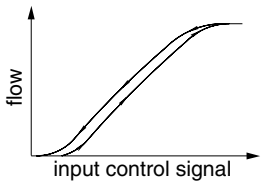
NC

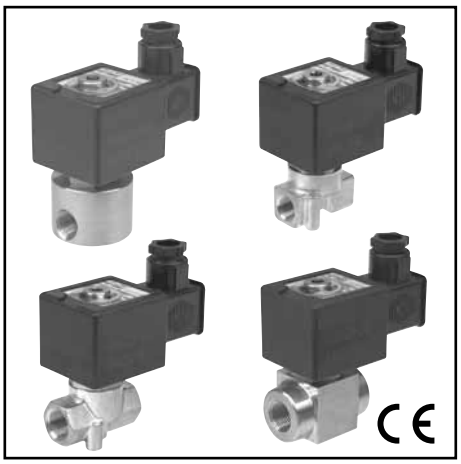


2/2
Series
202

FEATURES

- *Variable flow, proportional to the input 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 (mm²/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

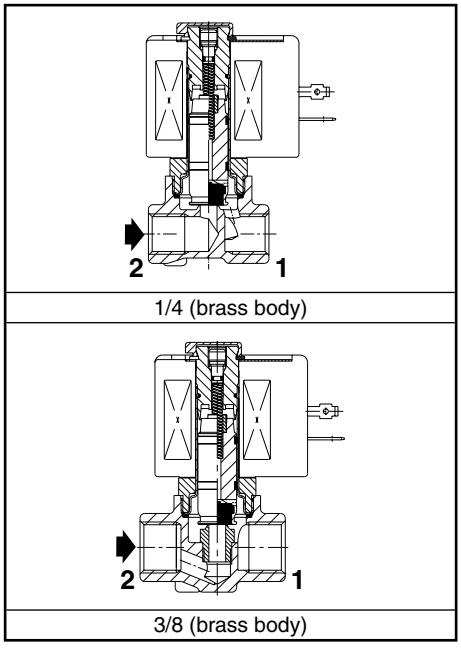
	Brass body	Stainless steel body
Body	Brass	AISI 303 SS
Core tube	Stainless steel	Stainless steel
Core and plugnut	Stainless steel	Stainless steel
Springs	Stainless steel	Stainless steel
Riderring	PTFE	PTFE
Seat	Brass	Stainless steel
Seal, disc	FPM	FPM
Breaker piece	Stainless steel	Stainless steel

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	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 - 500	-	-	-	11 / 8	-10 to + 75	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 %



1/4 (brass body)

3/8 (brass body)

SPECIFICATIONS

pipe size		orifice size	flow coefficient kv		operating pressure differential (bar) min.	max. (PS) vacuum	max. (PS) air, water, oil (∗)	power coil (W)	catalogue number brass (=) air / inert gas	brass (=) liquids	stainless steel (=) air / inert gas	stainless steel (=) liquids	options EPDM	CR	PTFE
		(mm)	(m³/h)	(l/min)		=	=	=							
NC - Normally closed															
1/4	G	1,2	0,05	0,8	0	1	16	8	SCG202A001V	SCG202A051V	-	-	E	J	T
	NPT								-	-	SCB202A011V	SCB202A061V	E	J	T
	G	2,4	0,12	2	0	1	8	8	SCG202A002V	SCG202A052V	-	-	E	J	T
	NPT								-	-	SCB202A012V	SCB202A062V	E	J	T
	G	3,2	0,24	4,0	0	1	4	8	SCG202A003V	SCG202A053V		-	E	J	T
	NPT									-	SCB202A013V	SCB202A063V	E	J	T
	G	4,0	0,42	7,0	0	1	2,5	8	SCG202A004V	SCG202A054V		-	E	J	T
	NPT									-	SCB202A014V	SCB202A064V	E	J	T
	G	5,6	0,72	12,0	0	1	1,4	8	SCG202A006V	SCG202A056V		-	E	J	T
	NPT									-	SCB202A016V	SCB202A066V	E	J	T
	G	7,1	0,90	15,0	0	1	1	8	SCG202A007V	SCG202A057V		-	E	J	T
	NPT									-	SCB202A017V	SCB202A067V	E	J	T
3/8	Rp	3,2	0,24	4,0	0	1	4	8	SCE202A023V	SCE202A073V	-	-	E	J	T
	NPT								-	-	SCB202A033V	SCB202A083V	E	J	T
	Rp	4,0	0,42	7,0	0	1	2,5	8	SCE202A024V	SCE202A074V	-	-	E	J	T
	NPT								-	-	SCB202A034V	SCB202A084V	E	J	T
	Rp	5,6	0,72	12,0	0	1	1,4	8	SCE202A026V	SCE202A076V	-	-	E	J	T
	NPT								-	-	SCB202A036V	SCB202A086V	E	J	T
	Rp	7,1	0,90	15,0	0	1	1	8	SCE202A027V	SCE202A077V	-	-	E	J	T
	NPT								-	-	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 ΔP.

All leaflets are available on: **www.asconumatics.eu**

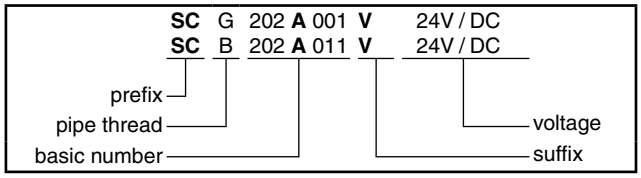
OPTIONS

- 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:
  - input control signals, analog: 0 - 10 V DC, 0 - 20 mA or 4 - 20 mA
  - adjustable coil current
  - 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

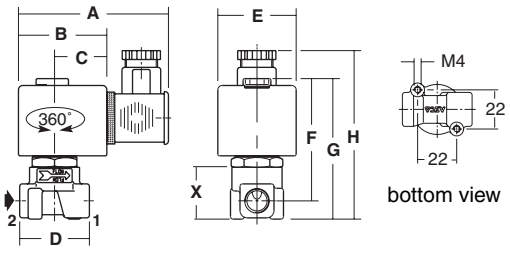
ORDERING EXAMPLES:



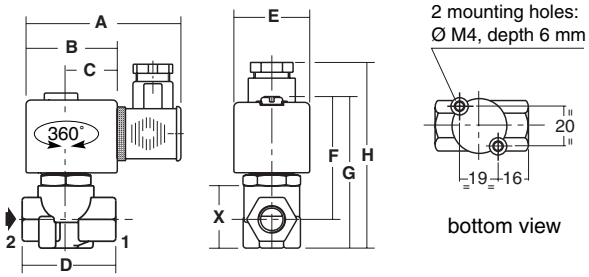
DIMENSIONS (mm), WEIGHT (kg)

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

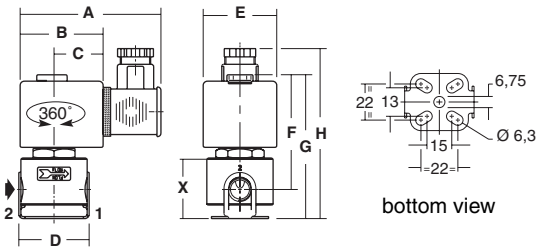
SCG202A001V/002V/003V/004V/006V/007V
SCB202A051V/052V/053V/054V/056V/057V



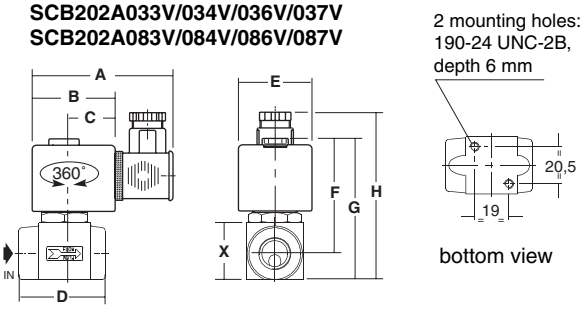
SCE202A023V/024V/026V/027V
SCE202A073V/074V/076V/077V



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



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

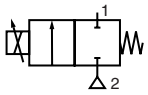


type	prefix option	catalogue number	A	B	C	D	E	F	G	H	X	weight (1)
01	SC	SCG202A001V/002V/003V/004V/006V/007V/051V/052V/053V/054V/056V/057V	85	50	30	40	45	60	78	95	30	0,50
		SCG202A011V/012V/013V/014V/016V/017V/061V/062V/063V/064V/066V/067V	80	50	30	42	45	60	79	95	37	0,60
		SCE202A023V/024V/026V/027V/073V/074V/076V/077V	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

(1) Including coil and connector.

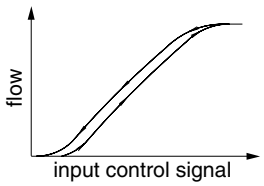
All leaflets are available on: **www.asconumatics.eu**

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

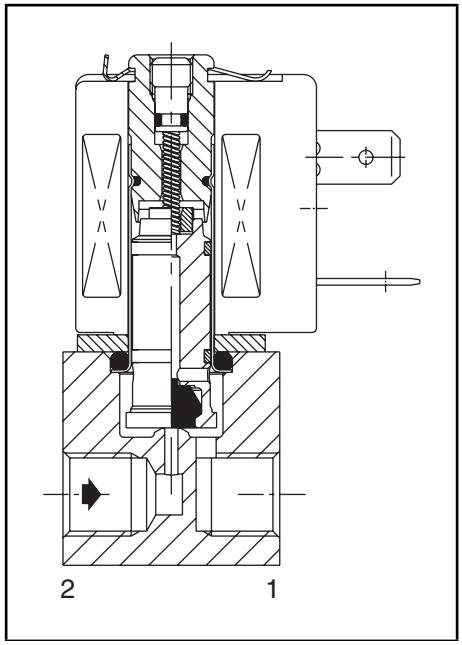
Differential pressure See "SPECIFICATIONS" [1 bar =100 kPa]
Maximum viscosity 50 cSt (mm²/s)

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)

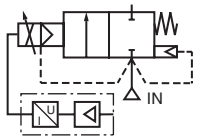
Flow regulation characteristics (2) Hysteresis < 5% ; Repeatability < 1% ; Sensitivity < 1%

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.

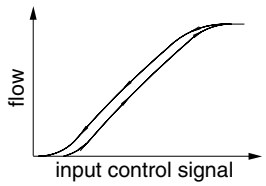
PROPORTIONAL SOLENOID VALVES
POSIFLOW
pilot operated
3/8 - 1/2

NC 

2/2
Series
203

FEATURES

- *Open loop proportional valves for automatic flow control of water and other non-corrosive liquids*
- *Special valve design to reduce pressure surges to a minimum, preventing waterhammer and ensuring noise-free closing*
- *The solenoid valves satisfy all relevant EC directives*



GENERAL

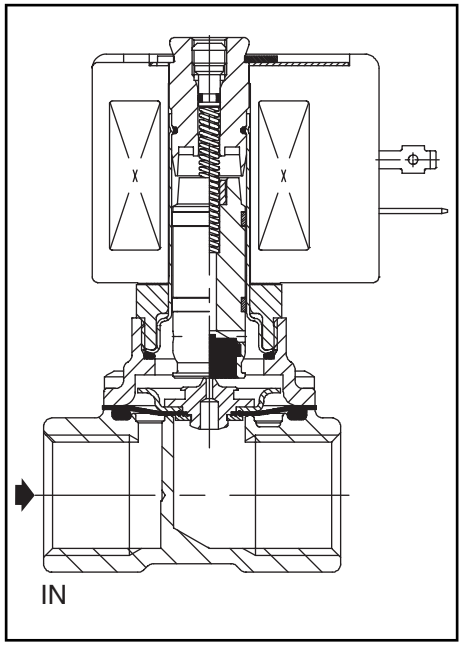
Differential pressure See "SPECIFICATIONS" [1 bar =100 kPa]
Maximum viscosity 40 cSt (mm²/s)

fluids (✳)	temperature range (TS) (1)	seal materials (✳)
water, oil	- 10°C to + 90°C	NBR (nitrile)

MATERIALS IN CONTACT WITH FLUID

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

Body Brass
Core tube Stainless steel
Core and plugnut Stainless steel
Springs Stainless steel
Riderring PTFE
Seals, diaphragm NBR
Disc FPM
Breaker piece 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	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 - 500	-	-	-	11 / 8	-20 to + 75	400429-040	01

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

Flow regulation characteristics (3) Hysteresis < 7,5 % ; Repeatability < 3 % ;
Sensitivity < 2 %

SPECIFICATIONS

pipe size	orifice size	flow coefficient Kv		operating pressure differential (bar) min.	max. (PS) water (✳)	max. (PS) oil (✳)	power coil (W)	catalogue number	options FPM		
	(mm)	(m³/h)	(l/min)		=	=	=	(=)			
NC - Normally closed											
3/8	12,5	2,1	35	0,3	10	10	8	**SCG203B001**	**V**	-	-
1/2	12,5	2,1	35	0,3	10	10	8	**SCG203B002**	**V**	-	-

(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 ΔP.

OPTIONS

- Valves can also be supplied with FPM (fluoroelastomer) 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:
  - 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

INSTALLATION

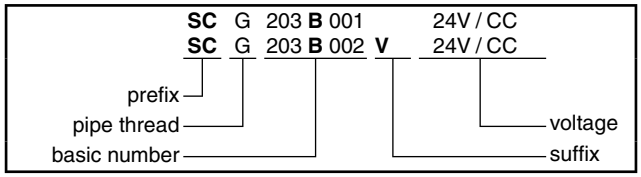
- The solenoid valves can be mounted in any position without affecting operation. For optimum performance mount solenoid vertical and upright
- Threaded pipe connection is standard: G = G (ISO 228/1)
- Installation/maintenance instructions are included with each valve

SPARE PARTS KITS

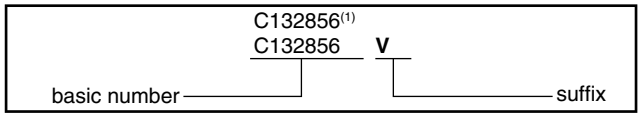
catalogue number	spare parts kit no.	
	~	=
SCG203B001/B002	-	**C132856**

(1) Standard prefixes and suffixes also apply to kits
- Not available.

ORDERING EXAMPLES / VALVES:

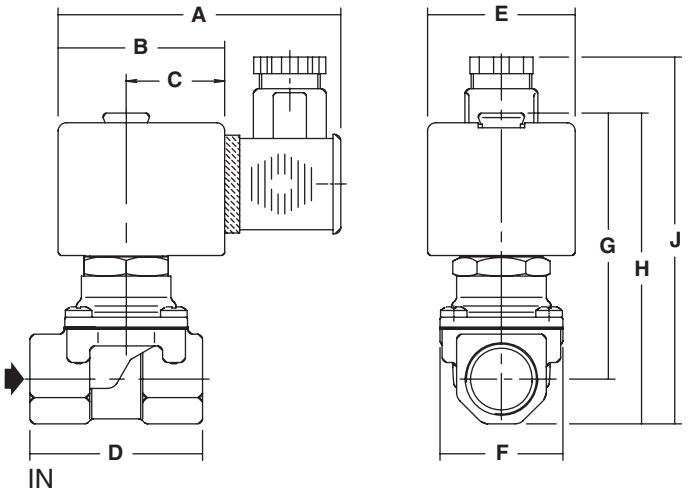


ORDERING EXAMPLES / KITS:



DIMENSIONS (mm), WEIGHT (kg)

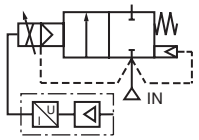
TYPE 01
Prefix "SC" solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65



type	prefix option	code	A	B	C	D	E	F	G	H	J	X	weight (1)
01	SC	SCG203A001	85	50	30	52	45	37	80	94	105	-	0,65
		SCG203A002											0,6

(1) Including coil and connector.

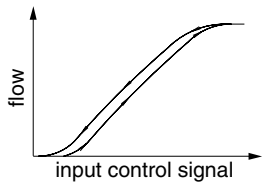
PROPORTIONAL SOLENOID VALVES
POSIFLOW
pilot operated
3/8 - 1/2

NC 

2/2
Series
203

FEATURES

- *Open loop proportional valves for automatic flow control of water and other non-corrosive liquids*
- *Special valve design to reduce pressure surges to a minimum, preventing waterhammer and ensuring noise-free closing*
- *The solenoid valves satisfy all relevant EC directives*



GENERAL

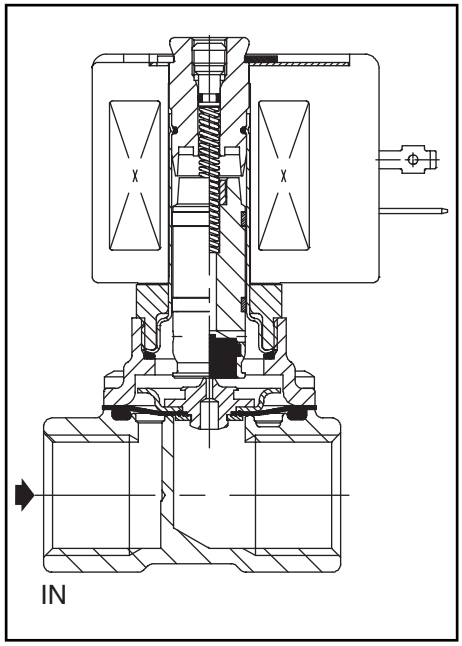
Differential pressure See "SPECIFICATIONS" [1 bar =100 kPa]
Maximum viscosity 40 cSt (mm²/s)

fluids (✳)	temperature range (TS) (1)	seal materials (✳)
water, oil	- 10°C to + 90°C	NBR (nitrile)

MATERIALS IN CONTACT WITH FLUID

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

Body Brass
Core tube Stainless steel
Core and plugnut Stainless steel
Springs Stainless steel
Riderring PTFE
Seals, diaphragm NBR
Disc FPM
Breaker piece 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	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 - 500	-	-	-	11 / 8	-20 to + 75	400429-040	01

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

Flow regulation characteristics (3) Hysteresis < 7,5 % ; Repeatability < 3 % ;
Sensitivity < 2 %

SPECIFICATIONS

pipe size	orifice size	flow coefficient Kv		operating pressure differential (bar) min.	max. (PS) water (✳)	max. (PS) oil (✳)	power coil (W)	catalogue number	options FPM		
	(mm)	(m³/h)	(l/min)		=	=	=	(=)			
NC - Normally closed											
3/8	12,5	2,1	35	0,3	10	10	8	**SCG203B001**	**V**	-	-
1/2	12,5	2,1	35	0,3	10	10	8	**SCG203B002**	**V**	-	-

(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 ΔP.

OPTIONS

- Valves can also be supplied with FPM (fluoroelastomer) 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:
  - 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

INSTALLATION

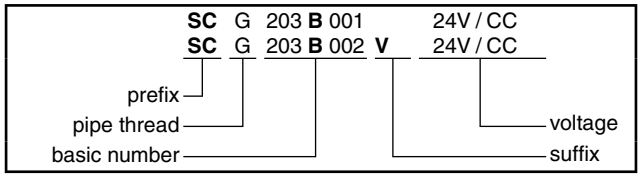
- The solenoid valves can be mounted in any position without affecting operation. For optimum performance mount solenoid vertical and upright
- Threaded pipe connection is standard: G = G (ISO 228/1)
- Installation/maintenance instructions are included with each valve

SPARE PARTS KITS

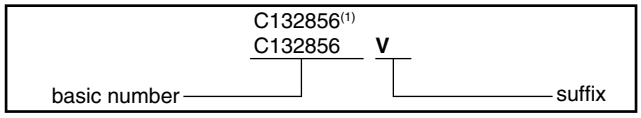
catalogue number	spare parts kit no.	
	~	=
SCG203B001/B002	-	**C132856**

(1) Standard prefixes and suffixes also apply to kits
- Not available.

ORDERING EXAMPLES / VALVES:

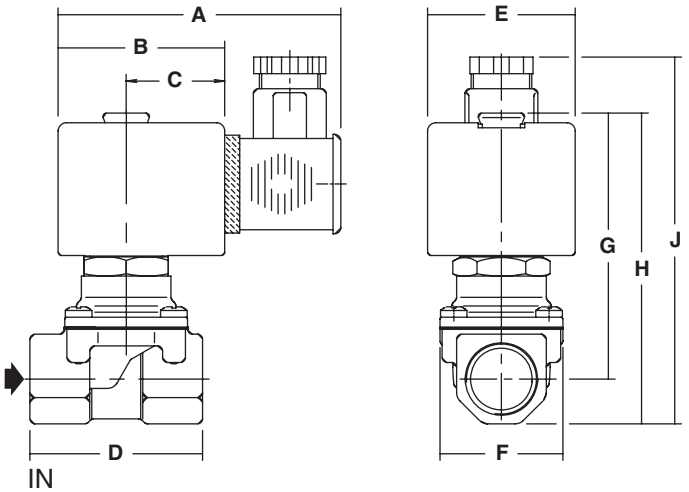


ORDERING EXAMPLES / KITS:



DIMENSIONS (mm), WEIGHT (kg)

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



type	prefix option	code	A	B	C	D	E	F	G	H	J	X	weight (1)
01	SC	SCG203A001	85	50	30	52	45	37	80	94	105	-	0,65
		SCG203A002											0,6

(1) Including coil and connector.

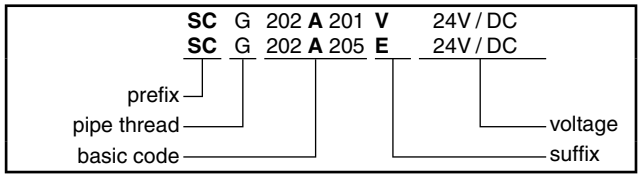
OPTIONS

- 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

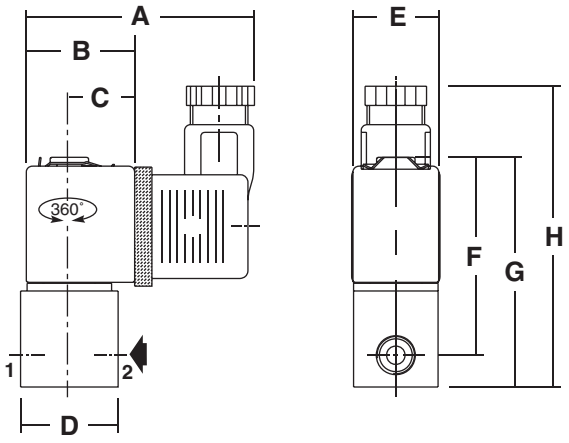
- The solenoid valves can be mounted in any position without affecting operation
- The valve body has two mounting holes
- Threaded pipe connection is standard: G = G (ISO 228/1)
- Installation/maintenance instructions are included with each valve

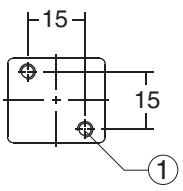
ORDERING EXAMPLES:



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.

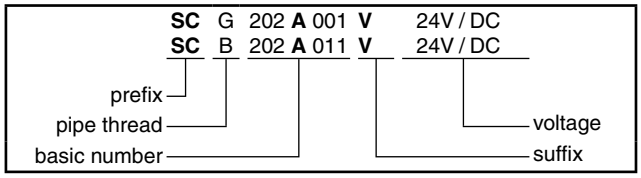
OPTIONS

- 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:
  - input control signals, analog: 0 - 10 V DC, 0 - 20 mA or 4 - 20 mA
  - adjustable coil current
  - 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

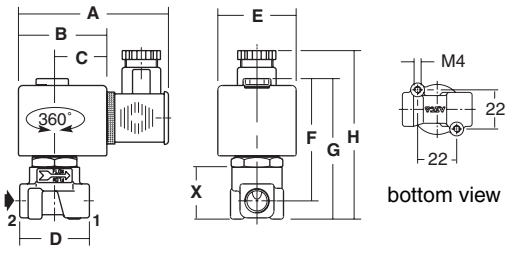
ORDERING EXAMPLES:



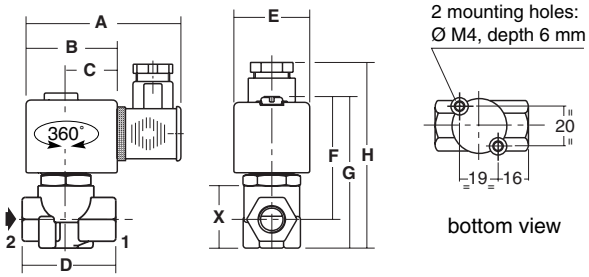
DIMENSIONS (mm), WEIGHT (kg)

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

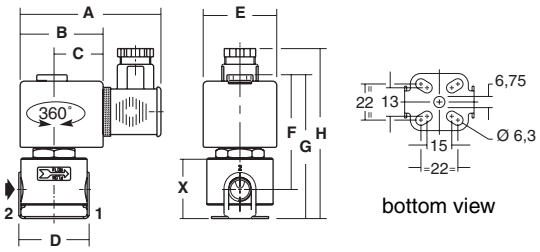
SCG202A001V/002V/003V/004V/006V/007V
SCB202A051V/052V/053V/054V/056V/057V



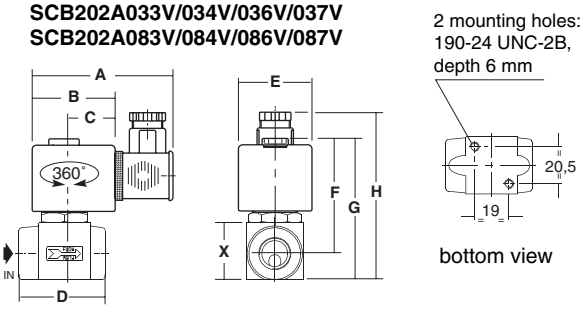
SCE202A023V/024V/026V/027V
SCE202A073V/074V/076V/077V



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



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



type	prefix option	catalogue number	A	B	C	D	E	F	G	H	X	weight (1)
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

(1) Including coil and connector.

All leaflets are available on: **www.asconumatics.eu**