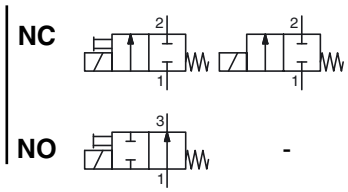
SOLENOID VALVES

direct operated

1/8 - 1/4



2/2
Series
256

C

FEATURES

- *Wide range of flow and pressure ratings*
- *Quick disassembly of core tube for easy maintenance of internal parts*
- *Standard disc seal made of FPM suitable for a wide range of operating temperatures and compatible with many fluids*
- *Standard manual operator allows an easy installation (Except 4 and 5 mm orifice sizes)*
- *AC/DC interchangeability of the solenoid without disassembly of the valve*
- *Compliance with UL and CSA standards (coil 4/5,5 W)*
- *Compact and low weight valve*
- *The solenoid valves satisfy all relevant EC directives*

GENERAL

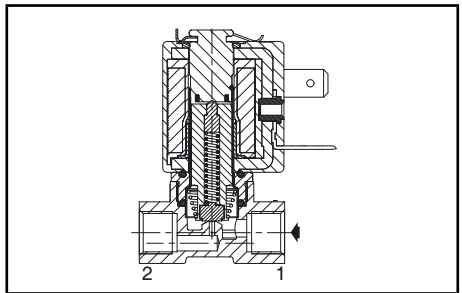
Differential pressure	See «SPECIFICATIONS» [1 bar =100 kPa]
Maximum viscosity	40 cSt (mm²/s)
Response time	5 - 10 ms

fluids (∗)	temperature range (TS)	seal materials (∗)
air, inert gas, water, oil	- 10°C to + 100°C	FPM (fluoroelastomer)

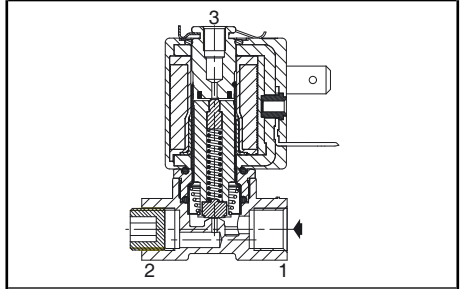
MATERIALS IN CONTACT WITH FLUID

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

	Brass body	Stainless steel body
Body	Brass	AISI 316
Core tube	Stainless steel	Stainless steel
Core and plugnut	Stainless steel	Stainless steel
Springs	Stainless steel	Stainless steel
Seat	Brass	Stainless steel
Seals	FPM	FPM
Disc	FPM	FPM
Shading coil	Copper	Copper



NC function



NO function

ELECTRICAL CHARACTERISTICS

Coil insulation class	F
Connector	Spade plug (cable Ø 6-7 mm or Ø 6-10 mm)
Connector specification	DIN 43650, 11 mm, industry standard B (type 01) or ISO 4400 / EN 175301-803, form A (type 02)
Electrical safety	IEC 335
Electrical enclosure protection	Moulded IP65 (EN 60529)
Standard voltages	DC (=) : 24V - 48V
(Other voltages and 60 Hz on request)	AC (~) : 24V - 48V - 115V - 230V / 50 Hz

prefix option	power ratings: inrush ~ (VA)	power ratings: holding ~ (VA)	power ratings: holding ~ (W)	power ratings: hot/cold = (W)	operator ambient temperature range (TS) (C°)	replacement coil ~ 230 V/50 Hz	replacement coil = 24 V DC	type (1)
SC	12	6	4	4,5 / 5,5	-10 to + 60	43005429	43005413	01
	10,4	6	3,5	5 / 7	-10 to + 60	43005539	43005533	02

(1) Refer to the dimensional drawings on the following page.

SPECIFICATIONS

pipe size	orifice size	flow coefficient Kv		operating pressure differential (bar) min.	max. (PS) air (∗) ~	air (∗) =	water (∗) ~	water (∗) =	oil (∗) ~	oil (∗) =	power coil (W) ~	power coil (W) =	catalogue number brass ~/=	catalogue number stainless steel ~/=	options EPDM		
G	(mm)	(m³/h)	(l/min)														
NC - Normally closed																	
1/8	1,2	0,05	0,8	0	28	20	28	20	28	20	4	5,5	**SCG256A001VMS**	**SCG256A013VMS**	**E**	-	-
	1,6	0,08	1,33	0	20	12	20	12	20	12	4	5,5	**SCG256A002VMS**	**SCG256A014VMS**	**E**	-	-
	2,0	0,11	1,83	0	15	6	15	6	15	6	4	5,5	**SCG256A003VMS**	**SCG256A015VMS**	**E**	-	-
	2,4	0,13	2,16	0	12	4	12	4	12	4	4	5,5	**SCG256A004VMS**	**SCG256A016VMS**	**E**	-	-
1/4	1,6	0,08	1,33	0	20	12	20	12	20	12	4	5,5	**SCG256A402VMS**	**SCG256A414VMS**	-	-	-
					20	15	20	15	20	15	3,5	7	**SCG256A466VMS**	**SCG256A434VMS**	-	-	-
	2,4	0,16	2,67	0	12	4	12	4	12	4	4	5,5	**SCG256A404VMS**	**SCG256A416VMS**	-	-	-
					15	8	15	8	15	8	3,5	7	**SCG256A470VMS**	**SCG256A436VMS**	-	-	-
	4	0,33	5,5	0	5	2	5	2	5	2	3,5	7	**SCG256A471V**	-	-	-	-
	5	0,45	7,5	0	3	1	3	1	3	1	3,5	7	**SCG256A472V**	-	-	-	-
NO - Normally open																	
1/8 (2)	1,6	0,08	1,33	0	10	10	10	10	10	10	4	5,5	**SCG256A006VMS**	**SCG256A018VMS**	**E**	-	-

(2) Pipe size port 3: M5 (Orifice size = 1,2 mm).

00029GB-2011/R01
Availability, design and specifications are subject to change without notice. All rights reserved.

OPTIONS

- Valves can also be supplied with EPDM (ethylene-propylene) seals and discs. Use the appropriate optional suffix letter for identification (1/8 version only)
- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 94/9/EC (see "Explosionproof solenoids" section)
- Flying leads coil, use prefix L (e.g.: LG256A001VMS) (4 W/5,5 W coil only)
- Oxygen service with seals and disc in FPM, suffix NV, example: SCG256A001NVMS
- Solenoid valves integrated on manifold, orifice sizes 1,2 - 1,6 - 2 - 2,4 mm (See V297)
- French sanitary conformity approval ACS for potable water applications, suffix: FW (1/8 NC only)
- Without manual operator, on request
- Other pipe connections are available on request
- Plug with visual indication and peak voltage suppression or with cable length of 2 m (see Solenoids, Coils & Accessories section)

INSTALLATION

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

ORDERING EXAMPLES:

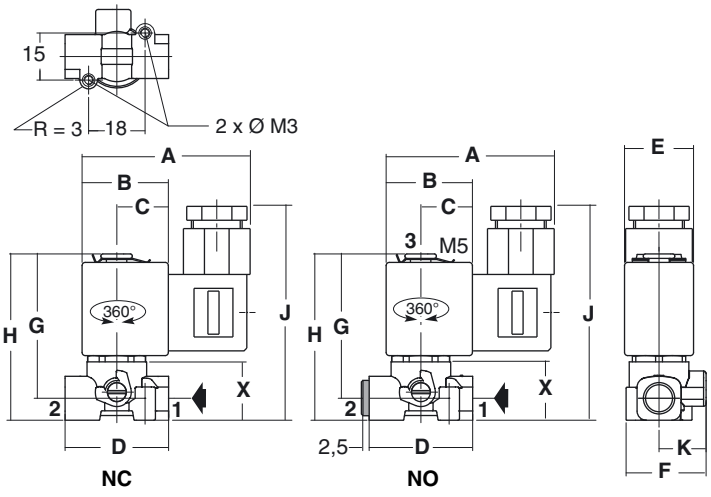
SC	G	256 **A** 001	**VMS**	230V / 50 Hz
SC	G	256 **A** 002	**EMS**	115V / 50 Hz
SC	G	256 **A** 014	**NVMS**	24V / DC
SC	G	256 **A** 001	**FWMS**	24V / DC
SC	G	256 **A** 471	**V**	230V / 50 Hz
SC	G	256 **A** 006	**VMS**	230V / 50 Hz

prefix — pipe thread — basic number — suffix — voltage

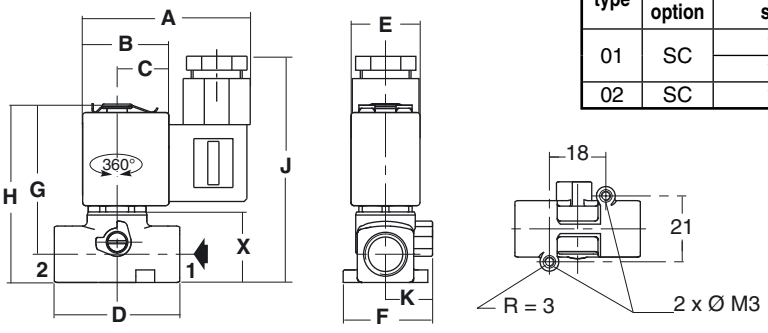
DIMENSIONS (mm), WEIGHT (kg)

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

NC (1/8): SCG256A001V/002V/003V/004V/013V/014V/015V/016V
NO (1/8): SCG256A006V/018V

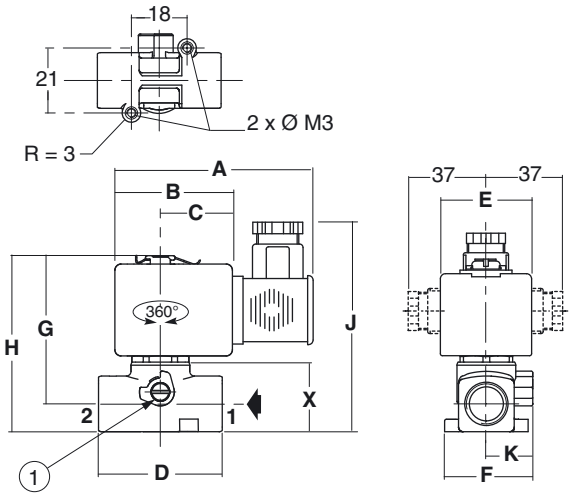


NC (1/4): SCG256A402VMS/404VMS/414VMS/416VMS



TYPE 02
Prefix "SC" Solenoid
IEC 335 / ISO 4400
IP65

NC (1/4): SCG256A434VMS/436VMS/466VMS/470VMS/471V/ 472V



(1) Except catalogue numbers: SCG256A471V/472V

type	prefix option	pipe size	A	B	C	D	E	F	G	H	J	K	X
01	SC	1/8	57,5	27,5	16,5	33	22	25.5	46	53	69	15	18,6
		1/4	57,5	27,5	16,5	40	22	28,5	48	57	76	15	23,4
02	SC	1/4	73	38	23,3	40	29,7	28,5	48	57	78,5	15	23,4

type	prefix option	pipe size	weight (2)	
			brass	stainless steel
01	SC	1/8	0,158	0,138
		1/4	0,180	0,177
02	SC	1/4	0,235	0,232

(2) Incl. coil(s) and connector(s).

00029GB-2010/R03
Availability, design and specifications are subject to change without notice. All rights reserved.