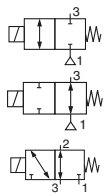
SOLENOID VALVES

rocker mechanism, fluid isolation
1/8 or pad mounting body
size 22 mm

2/2 NC
2/2 NO
3/2 U



2/2
3/2
Series
067

FEATURES

- *Solenoid valves for use with neutral or aggressive liquids and gases in analytical and medical systems*
- *Hermetic separation of control mechanism and fluid:*
  - *Prevents particulate contamination caused by friction of moving parts, assuring maximum purity of fluid*
  - *Ensures reliable operation in applications with highly aggressive fluids*
- *Reduced heat transfer between control mechanism and fluid*
- *Good self-draining capability and easy-to-flush internal cavity*
- *Low dead volume*
- *Specific rocker mechanism: no pump effect, no stick effect*
- *Possibility to adapt a power-save connector*
- *Electrical spade-plug or cable-end connection*

GENERAL

Differential pressure	-0,9 to +10 bar (usable in 0,1 bar abs. vacuum) [1 bar =100 kPa]
Maximum viscosity	20 cSt (mm^2/s)
Response time	< 10 ms
Dead volume	< 0,48 ml (connections not included)

fluids (∗)	temperature range (TS)	seal materials (∗)
liquids or gases (filtered 50 μm)	+0°C to + 70°C	FFPM (perfluoroelastomer)
	+10°C to + 40°C	FPM (fluoroelastomer)
	+5°C to + 40°C	EPDM (ethylene-propylene)

MATERIALS IN CONTACT WITH FLUID

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

Body	PEEK
Diaphragm	FFPM (FPM and EPDM option)
Seals	FFPM (FPM and EPDM option)

OTHER MATERIALS

Internal parts	Stainless steel

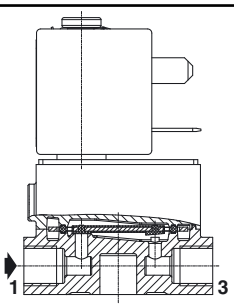
ELECTRICAL CHARACTERISTICS

Coil insulation class	F
Connector	Spade plug (cable Ø 6-8 mm) or cable ends (2)
Connector specification	DIN 43650, 11 mm, industry standard B
Electrical safety	IEC 335 (cable ends: EN 60730)
Electrical enclosure protection	Moulded IP65 (EN 60529)
Standard voltages	DC (=) : 12V - 24V $^{-5\%\ /\ +10\%}$

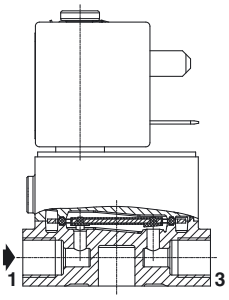
(Other voltages on request)

prefix option	power ratings inrush ~ (VA)	holding ~ (VA)	holding ~ (W)	(4) = (W)	operator ambient temperature range (TS) (C°)	replacement coil 12 V DC	replacement coil 24 V DC	type (1)
SC	-	-	-	9,6	+10 to + 50	400129-005	-	01
				10		-	400129-007	
L	-	-	-	10	+10 to + 50	400119-011D	400119-008D	02

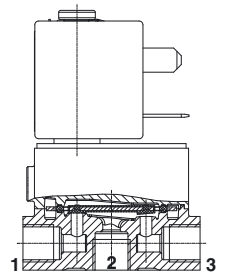
(1) Refer to the dimensional drawings on the page 3.
(2) 0,45 m lead wires.



2/2 NC function

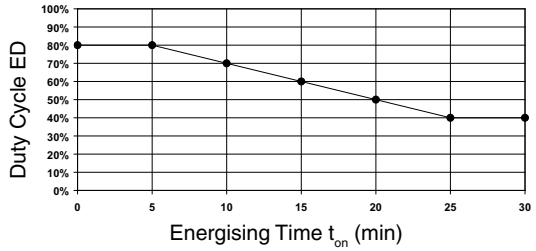


2/2 NO function



3/2 U function

RECOMMENDATION FOR MAXIMUM DUTY CYCLE



Note: 100% duty cycle possible when using the power-save connector (catalogue number [24 V DC]: **88100934**)

De-energising time: $t_{off} = t_{on} \times (100\% / ED - 1)$

Example:

1) Determine energising time in minutes (t_{on}):
   t_{on} = 15 min
2) Find maximum duty cycle value in diagram:
   ED = 60%
3) Calculate de-energising time:
   t_{off} = 15 min x (100% / 60% - 1) = 10 min
4) Complete cycle time:
   $t_{cycle} = t_{on} + t_{off}$ = 15 min + 10 min = 25 min

SPECIFICATIONS

pipe size	orifice size	flow coefficient Kv		operating pressure differential (bar)		power coil (W)	catalogue number		options		
							with spade plug connector	with cable ends (0,45 m long)			
				min.	max. (PS) gases liquids (✳)		body PEEK	body PEEK	FPM	EPDM	
	(mm)	(m^3/h)	(l/min)		=	=	=	=			
2/2 NC - Normally closed											
G 1/8	2	0,10	1,66	-0,9	10	9,6/10	**SCG067A206**	**LG067A206**	**V**	**E**	**-**
	3	0,16	2,66	-0,9	3	9,6/10	**SCG067A207**	**LG067A207**	**V**	**E**	**-**
	4	0,3	4,99	-0,9	1,5	9,6/10	**SCG067A208**	**LG067A208**	**V**	**E**	**-**
pad mounting (1)	2	0,10	1,66	-0,9	10	10	**SCS067A206**	**LS067A206**	**V**	**E**	**-**
	3	0,16	2,66	-0,9	3	10	**SCS067A207**	**LS067A207**	**V**	**E**	**-**
	4	0,3	4,99	-0,9	1,5	10	**SCS067A208**	**LS067A208**	**V**	**E**	**-**
2/2 NO - Normally open											
G 1/8	2	0,10	1,66	-0,9	5	9,6/10	**SCG067A212**	**LG067A212**	**V**	**E**	**-**
	3	0,16	2,66	-0,9	2	9,6/10	**SCG067A213**	**LG067A213**	**V**	**E**	**-**
	4	0,3	4,99	-0,9	1	9,6/10	**SCG067A214**	**LG067A214**	**V**	**E**	**-**
pad mounting (1)	2	0,10	1,66	-0,9	5	10	**SCS067A212**	**LS067A212**	**V**	**E**	**-**
	3	0,16	2,66	-0,9	2	10	**SCS067A213**	**LS067A213**	**V**	**E**	**-**
	4	0,3	4,99	-0,9	1	10	**SCS067A214**	**LS067A214**	**V**	**E**	**-**
3/2 U - Universal											
G 1/8	2	0,10	1,66	-0,9	5	9,6/10	**SCG067A200**	**LG067A200**	**V**	**E**	**-**
	3	0,16	2,66	-0,9	2	9,6/10	**SCG067A201**	**LG067A201**	**V**	**E**	**-**
	4	0,3	4,99	-0,9	1	9,6/10	**SCG067A202**	**LG067A202**	**V**	**E**	**-**
pad mounting (1)	2	0,10	1,66	-0,9	5	10	**SCS067A200**	**LS067A200**	**V**	**E**	**-**
	3	0,16	2,66	-0,9	2	10	**SCS067A201**	**LS067A201**	**V**	**E**	**-**
	4	0,3	4,99	-0,9	1	10	**SCS067A202**	**LS067A202**	**V**	**E**	**-**

(1) 4 hexagon socket head cap mounting screws M3 x 8 mm, stainless steel, ISO 4762 supplied.

OPTIONS

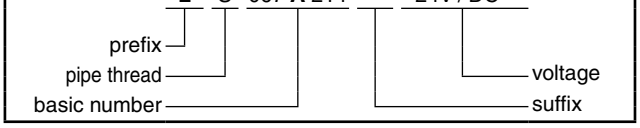
- Valves can also be supplied with FPM (fluoroelastomer) and EPDM (ethylene-propylene) seals and diaphragm. Use the appropriate optional suffix letter for identification
- Other subbases, contact us
- Power-save connector (2,5 W after 140 ms of operation), catalogue number [24 V DC]: **88100934** (12 V DC version on request)
- Impulse manual operator

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Pad-mounting solenoid valve supplied with seal
- Pipe connections 1/8 have standard thread according to ISO 228/1

ORDERING EXAMPLES:

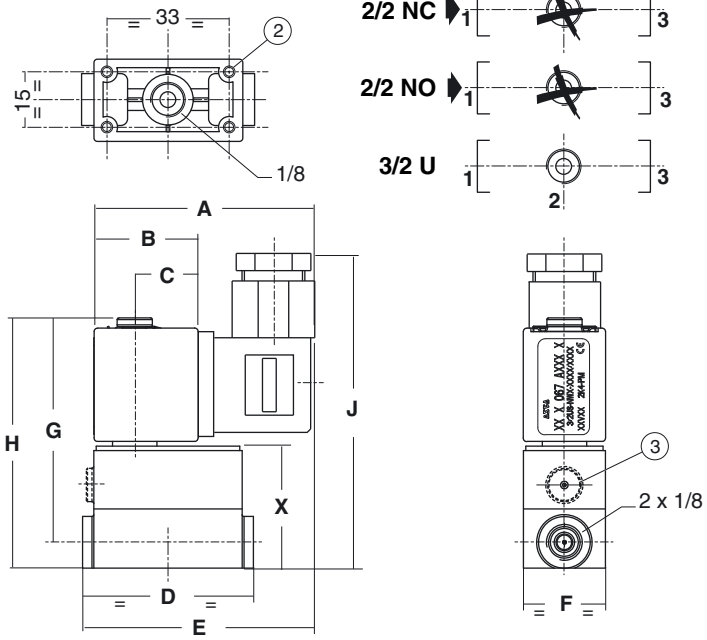
SC G 067 **A** 206 12V / DC
SC G 067 **A** 207 **V** 24V / DC
L S 067 **A** 213 **E** 12V / DC
L S 067 **A** 214 24V / DC



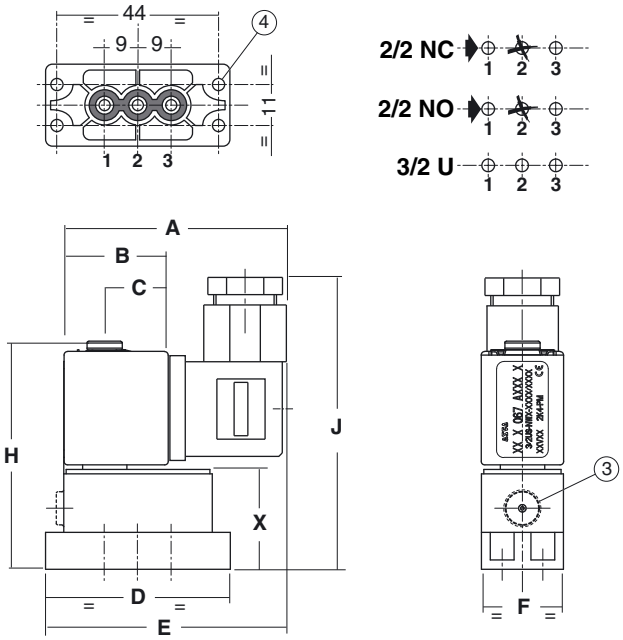
DIMENSIONS (mm), WEIGHT (kg)

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

SCG067A200..214

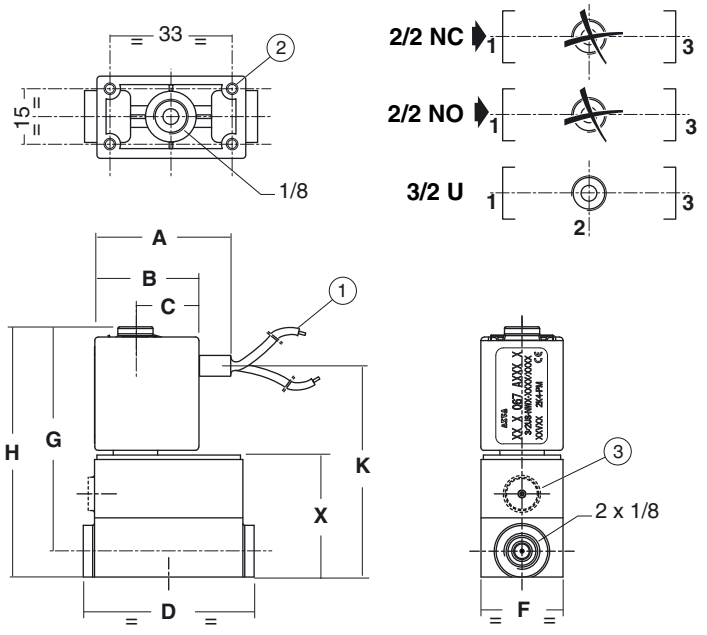


SCS067A200..214

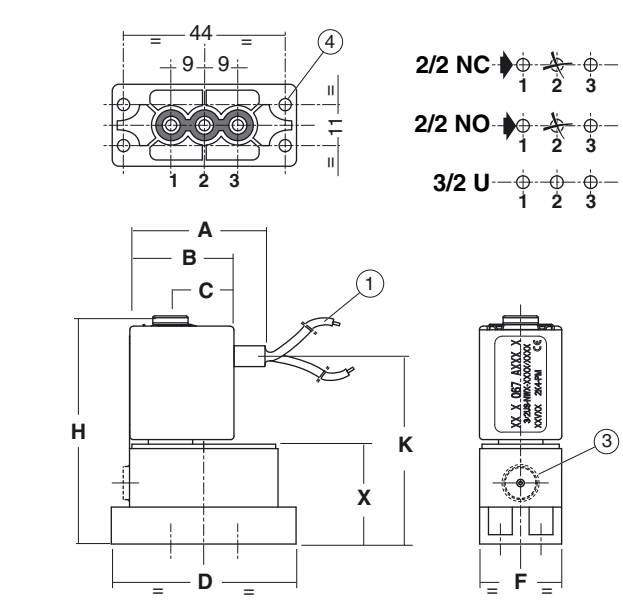


TYPE 02
Prefix “L” solenoid
IEC 335 / cable ends, length 0,45 m
IP40

LG067A200..214



LS067A200..214



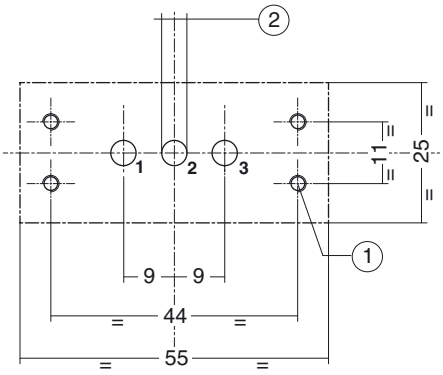
type	prefix option	catalogue number	A	B	C	D	E	F	G	H	J	K	X	weight (1)
01	SC	SCG…	60	28,5	17,5	46,2	62,5	22,3	60,8	67,8	82	-	33	0,130
		SCS…	60	28,5	17,5	50	65	22,3	-	61,8	76	-	27	0,124
02	L	LG…	35	28,5	17,5	46,2	-	22,3	60,8	67,8	-	56,5	33	0,124
		LS…	35	28,5	17,5	50	-	22,3	-	61,8	-	50,5	27	0,120

(1) Type 01: Incl. coil(s) and connector(s).
Type 02: with 0,45 m cable ends

(1) 2 wires, length 0,45 m
(2) 4 mounting holes, max. depth 7 mm, for self-tapping screw (type EJOT PT, K30)
(3) Manual operator location
(4) 4 mounting holes Ø 3,2 mm (4 hexagon socket head cap mounting screws M3 x 8 mm, stainless steel, ISO 4762 supplied.)

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

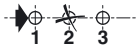
SUBBASE MOUNTING PATTERN



1 4 mounting holes Ø 3,2 mm
2 Max. diameter 4,5 mm (3 x)

2/2 NC

2/2 NO



3/2 U