

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 (mm²/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%}

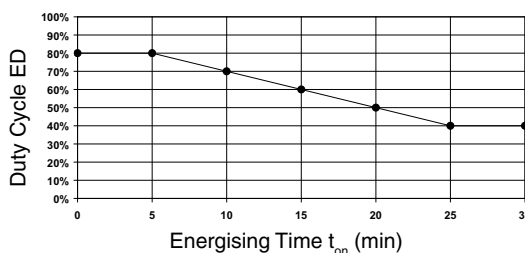
(Other voltages on request)

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

RECOMMENDATION FOR MAXIMUM DUTY CYCLE

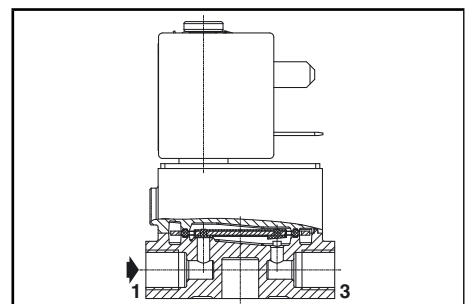


De-energising time: $t_{off} = t_{on} \times (100\% / ED - 1)$

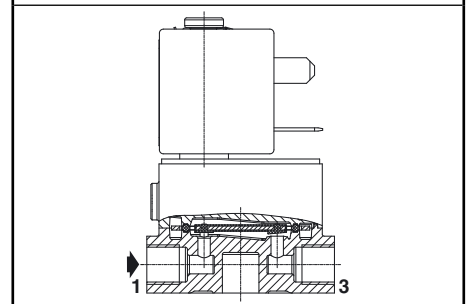
Example:

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

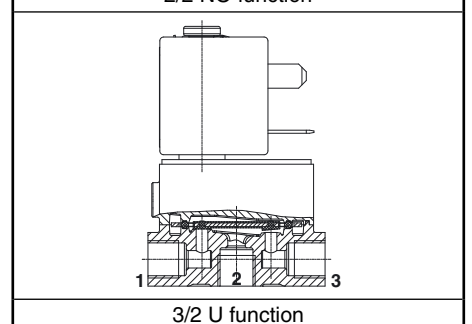
Note: 100% duty cycle possible when using the power-save connector (catalogue number [24 V DC]: **88100934**)



2/2 NC function



2/2 NO function



3/2 U function



SPECIFICATIONS

pipe size	orifice size (mm)	flow coefficient Kv (m³/h) (l/min)		operating pressure differential (bar)		power coil (W)	catalogue number		options		
				min.	max. (PS) gases liquids (*)		with spade plug connector	with cable ends (0,45 m long)	FPM	EPDM	
							body PEEK	body PEEK			
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

prefix — pipe thread — basic number — voltage — suffix

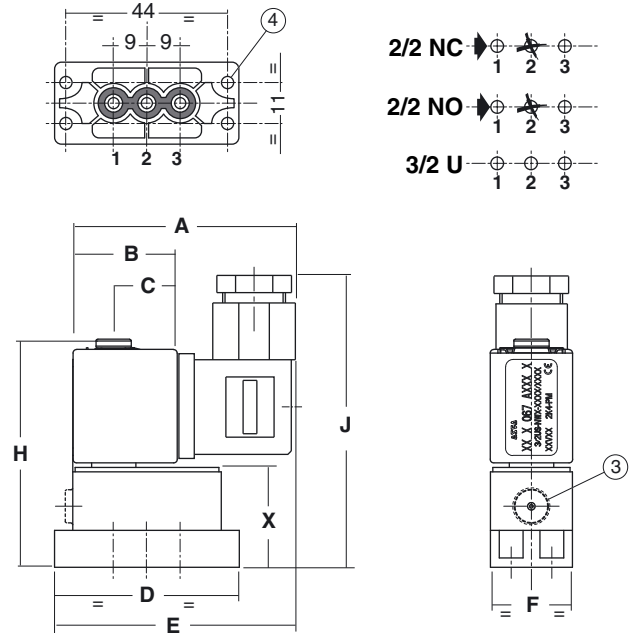
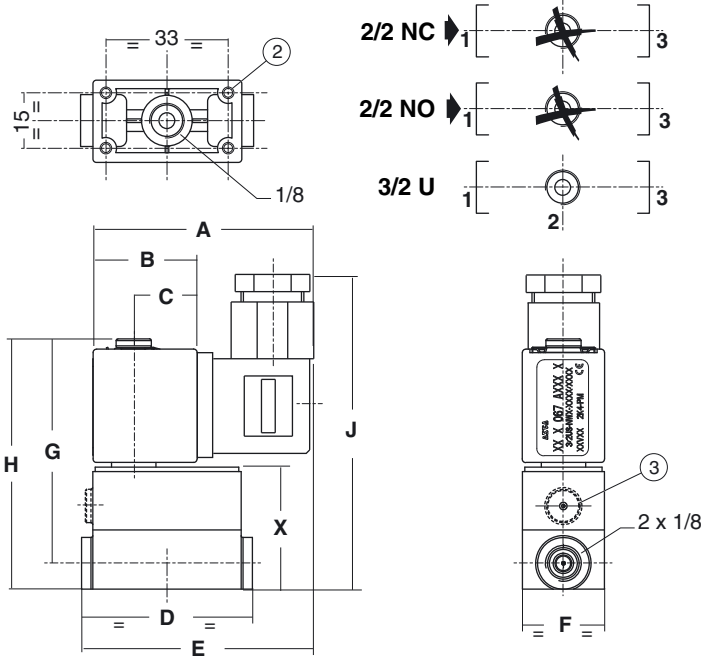
DIMENSIONS (mm), WEIGHT (kg)



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

SCG067A200..214

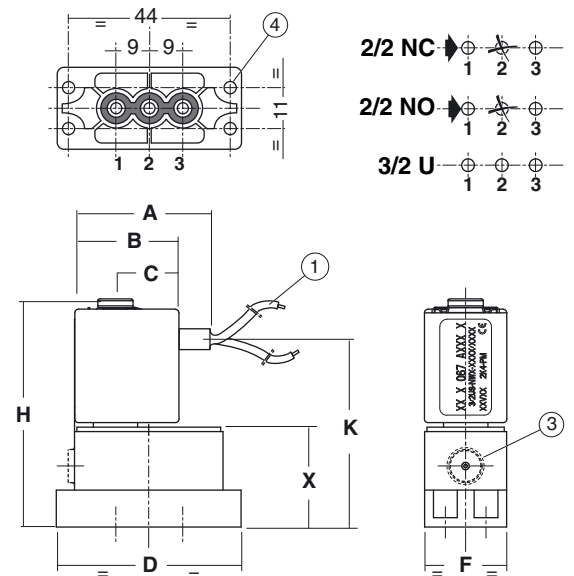
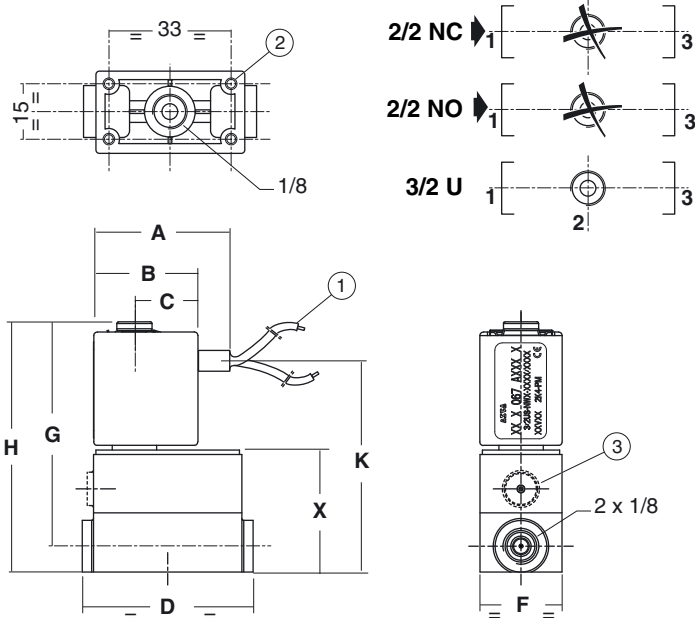
SCS067A200..214



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

LG067A200..214


LS067A200..214

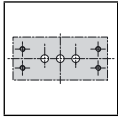


type	prefix option	catalogue number	A	B	C	D	E	F	G	H	J	K	X	weight ⁽¹⁾
01	SC	SCG...	60	28,5	17,5	46,2	62,5	22,3	60,8	67,8	82	-	33	0,130
		SCS...	60	28,5	17,5	50	65	22,3	-	61,8	76	-	27	0,124
02	L	LG...	35	28,5	17,5	46,2	-	22,3	60,8	67,8	-	56,5	33	0,124
		LS...	35	28,5	17,5	50	-	22,3	-	61,8	-	50,5	27	0,120

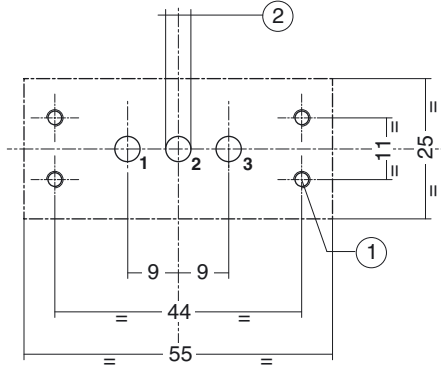
- ① 2 wires, length 0,45 m
- ② 4 mounting holes, max. depth 7 mm, for self-tapping screw (type EJOT PT, K30)
- ③ Manual operator location
- ④ 4 mounting holes Ø 3,2 mm (4 hexagon socket head cap mounting screws M3 x 8 mm, stainless steel, ISO 4762 supplied.)

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

DIMENSIONS (mm), WEIGHT (kg) 



SUBBASE MOUNTING PATTERN



- ① 4 mounting holes $\varnothing 3,2$ mm
- ② Max. diameter 4,5 mm (3 x)

