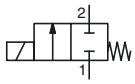
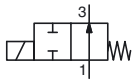
SOLENOID VALVES

direct operated

1/4

NC 

NO 

2/2
Series
272

C

FEATURES

- *Compact and low weight valve enabling easy installation*
- *Two maximum pressure ratings depending on coil power*
- *AC/DC interchangeability of the solenoid head without any need for disassembly of the 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	8 - 20 ms

fluids (∗)	temperature range (TS)	seal materials (∗)
air, inert gas, water, oil	- 25°C to + 80°C	NBR (nitrile)

MATERIALS IN CONTACT WITH FLUID

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

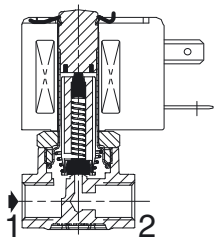
	Brass body	Stainless steel body
Body	Brass	AISI 316L (1.4404)
Internal parts	Stainless steel	Stainless steel
Springs	Stainless steel	Stainless steel
Seat	Brass and stainless steel	Stainless steel
Seals	NBR	NBR
Shading coil	Copper	Copper

ELECTRICAL CHARACTERISTICS

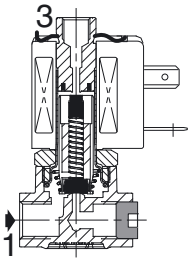
Coil insulation class	F
Connector	Spade plug (cable Ø 6-10 mm)
Connector specification	ISO 4400 / EN 175301-803, form A
Electrical safety	IEC 335
Electrical enclosure protection	Moulded IP65 (EN 60529)
Standard voltages	DC (=): 24V - 48V
(Other voltages and 60 Hz on request)	AC (~): 24V - 48V - 115V - 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	23	14	8	8 / 10,8	-25 to + 60	43005096	43005099	01
	55	23	10,5	9 / 11,2	-25 to + 60	400425-117	400425-142	02

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



NC function



NO function

SPECIFICATIONS

pipe size (G*)	orifice size (mm)	flow coefficient Kv (m³/h)	flow coefficient Kv (l/min)	operating pressure differential (bar) min.	max. (PS) air (*) ~	air (*) =	water/oil (*) ~	water/oil (*) =	power coil (W) ~	power coil (W) =	catalogue number brass ~	brass =	stainless steel ~	stainless steel =	options maintained man. operator	options FPM	options EPDM
NC - Normally closed																	
1/4	2	0,11	1,8	0	40	15	40	15	8	10,8	**SCE272A001**		**SCE272A031**		**MS**	**V**	**E**
					40	40	40	40	10,5	11,2	**SCE272A016**		**SCE272A046**		**MS**	**V**	**E**
	2,7	0,22	3,6	0	30	4	30	4	8	10,8	**SCE272A002**		**SCE272A032**		**MS**	**V**	**E**
					40	15	40	15	10,5	11,2	**SCE272A017**		**SCE272A047**		**MS**	**V**	**E**
	3,8	0,32	5,3	0	15	2	15	2	8	10,8	**SCE272A003**		**SCE272A033**		**MS**	**V**	**E**
					20	8	20	8	10,5	11,2	**SCE272A018**		**SCE272A048**		**MS**	**V**	**E**
	4,5	0,42	7	0	10	1,5	10	1,5	8	10,8	**SCE272A004**		**SCE272A034**		**MS**	**V**	**E**
					16	5	16	5	10,5	11,2	**SCE272A019**		**SCE272A049**		**MS**	**V**	**E**
	5,5	0,63	10,5	0	6	1	6	1	8	10,8	**SCE272A005**		**SCE272A035**		**MS**	**V**	**E**
					10	2	10	2	10,5	11,2	**SCE272A020**		**SCE272A050**		**MS**	**V**	**E**
NO - Normally open																	
1/4 (2)	2,5	0,2	3,3	0	20	-	10	-	8	-	**SCE272A007**	**-**	**SCE272A037**	**-**	**MS**	**V**	**E**
					20	20	10	10	10,5	11,2	**SCE272A022**		**SCE272A052**		**MS**	**V**	**E**

(2) Size of port 1: 1/4, size of Port 3: G 1/8.

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OPTIONS

- Valves can also be supplied with FPM (fluoroelastomer) and EPDM (ethylene-propylene) seals and discs. Use the appropriate optional suffix letter for identification
- Waterproof enclosure with embedded screw terminal coil according to protection class IP67, CEE-10 (prefix WP or WS)
- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 94/9/EC (see "Explosionproof solenoids" section)
- Compliance with "UL", "CSA" and other local approvals available on request
- Oxygen service with seals and disc in FPM, suffix N, example: SCE272A016 NV
- Other pipe connections are available on request
- Solenoid operated drain valve assembly with electronic timer (see Solenoids, Coils & Accessories section)
- 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
- Brass solenoid valves have 2 mounting holes in body
- Pipe connections 1/4 (G*) have standard combination thread according to ISO 228/1 and ISO 7/1. Pipe connections G 1/8 have standard thread according to ISO 228/1
- Installation/maintenance instructions are included with each valve

SPARE PARTS KIT

catalogue number	spare parts kit no.		
	~	=	maintained man. operator
SCE272A001/002/003	**C140040**	**C140040**	**C140048**
SCE272A004/005	**C140040**	**C140040**	**C140048**
SCE272A031/032/033	**C140040**	**C140040**	**C140072**
SCE272A034/035	**C140040**	**C140040**	**C140072**
SCE272A016/017/018	**C140040**	**C140040**	**C140048**
SCE272A019/020	**C140040**	**C140040**	**C140048**
SCE272A046/047/048	**C140040**	**C140040**	**C140072**
SCE272A049/050	**C140040**	**C140040**	**C140072**
SCE272A007	**C140038**	**-**	**C140048**
SCE272A022	**C140038**	**C140038**	**C140048**
SCE272A037	**C140038**	**-**	**C140072**
SCE272A052	**C140038**	**C140038**	**C140072**

(1) Standard suffixes E and V are also applicable to kits.
- Not available

ORDERING EXAMPLES:

SC	E	272 **A** 016	**MS**	230V / 50 Hz
SC	E	272 **A** 046	**V**	115V / 50 Hz
SC	E	272 **A** 007	**MS**	24V / DC
SC	E	272 **A** 052		230V / 50 Hz

prefix — pipe thread — basic number — voltage — suffix

ORDERING EXAMPLES KITS:

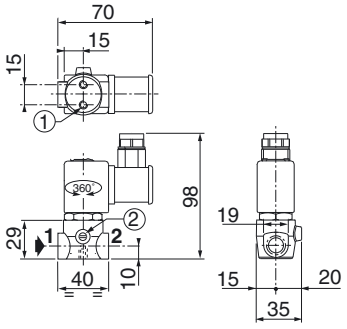
C140040(1)	
C140038	**V**
C140038	**E**

basic number — suffix

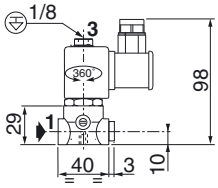
DIMENSIONS (mm), WEIGHT (kg)

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

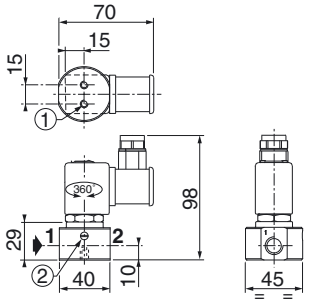
SCE272A001/002/003/004/005



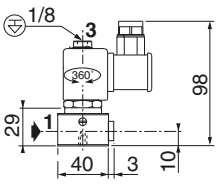
SCE272A007



SCE272A031/032/033/034/035



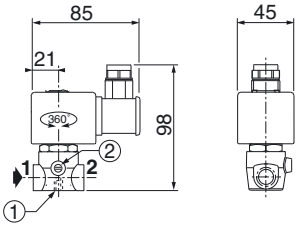
SCE272A037



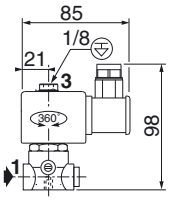
(1) 2 mounting holes Ø M4, depth 6 mm.
(2) Manual operator location.

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

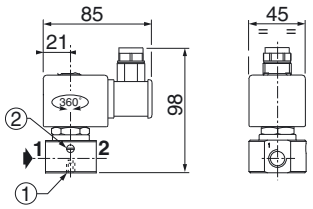
SCE272A016/017/018/019/020



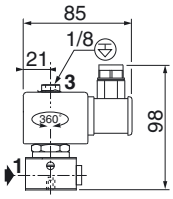
SCE272A022



SCE272A046/047/048/049/050



SCE272A052



type	prefix option	catalogue number	weight (2)
01	SC	SCE272A001/002/003/004/005	0,34
		SCE272A031/032/033/034/035	0,41
		SCE272A007	0,37
		SCE272A037	0,45
02	SC	SCE272A016/017/018/019/020	0,51
		SCE272A046/047/048/049/050	0,56
		SCE272A022	0,54
		SCE272A052	0,60

(2) including coil and connector..

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