

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

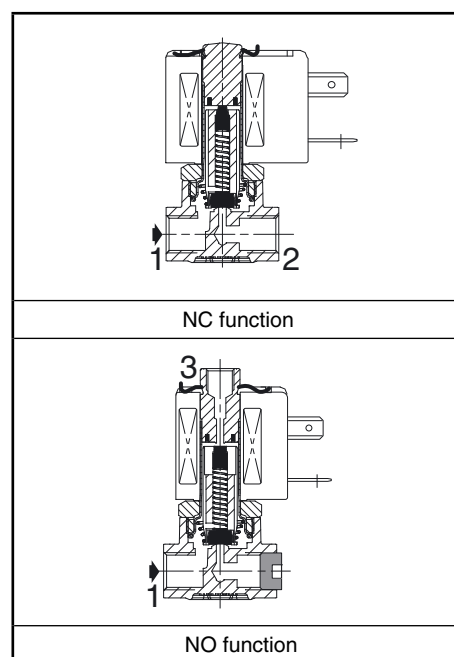
prefix option	power ratings				operator ambient temperature range (TS) (C°)	replacement coil		type ⁽¹⁾
	inrush ~	holding ~	hot/cold =			~	=	
	(VA)	(VA)	(W)	(W)		230 V/50 Hz	24 V DC	
SC	23	14	8	8 / 10,8	-25 to + 60	43005096	43005099	01
	55	23	10,5	9 / 11,2	-25 to + 60	400425-117	400425-142	02

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

SPECIFICATIONS

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

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



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

DIMENSIONS (mm), WEIGHT (kg)

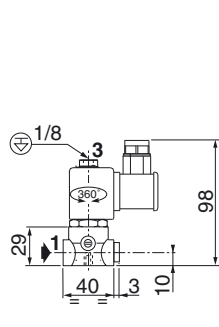
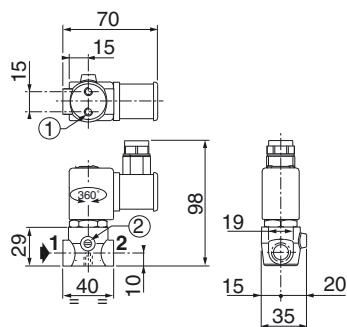


TYPE 01

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

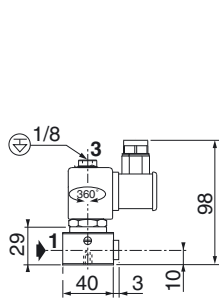
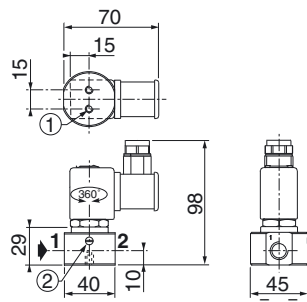
SCE272A001/002/003/004/005

SCE272A007



SCE272A031/032/033/034/035

SCE272A037



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

(2) Manual operator location.

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 _____

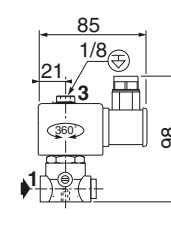
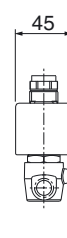
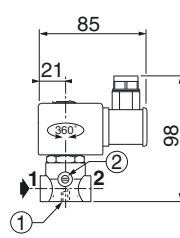


TYPE 02

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

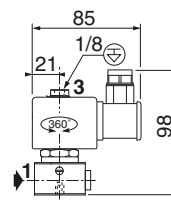
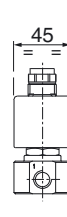
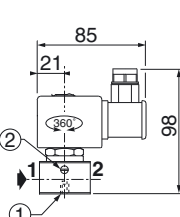
SCE272A016/017/018/019/020

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..