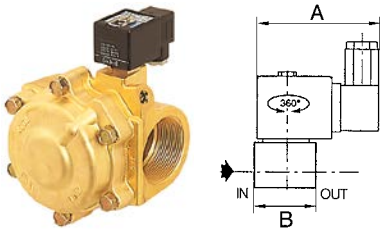
2/2-way solenoid valve

2/2-way type

MAX

Art. No. **102879**

Type No. **MV 1222 G**



Exemplary illustration

Standard series, proven over many years, available in three different versions

- Directly operated
- Combined operation
- Pilot-operated

For all applications with compressed air, neutral gases or low-viscosity, neutral media.

Discontinued product. No longer available. New product (NONE)

Technical data

Housing	brass
Valve seat	brass
Internal parts	stainless steel
Protection IP	IP 65 (with connector socket fitted)
Type	5
Function	normally closed (NC)
Thread	Rp 2
DN	44 mm
Voltage	24 V DC
Operating pressure	0.35 - 3 bar
Sealant	NBR
Electrical connection	ISO 4400, cable socket (PG 11 P)
Medium temperature	-20 to 85 °C
Ambient temperature	-20 to 50 °C
Standard thread	ISO 7-1
A	80.0 mm
B	129.0 mm

RIEGLER & Co. KG
Schützenstraße 27
72574 Bad Urach
Tel. +49 7125 9497-642
technik@riegler.de

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Commercial data

Customs tariff number	84812090
Country of origin	DE
eCl@ss 5.1.4	27220601
eCl@ss 9.0	27220601
UNSPSC_Code_v190501	40141605
UNSPSC_CodeDesc_v190501	Solenoid valves

Material informations

REACH SVHC1 substance name	lead
CAS no. SVHC 1	7439-92-1
RoHS materials notice	RoHS compliant
REACH Info	contains SVHC substance

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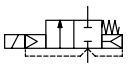
ASCO™

SOLENOID VALVES

pilot operated
piston / floating piston
3/8 to 2

NC 

2/2
Series
210

C

FEATURES

- *Two way shut-off valves for automatic control of air, inert gas, water, oil and other gases/liquids compatible with the seal materials used*
- *Heavy duty piston design for severe applications*
- *All products are covered by Pressure Equipment Directive 2014/68/EU and are suitable for group 1 and 2 fluids*
- *The solenoid valves satisfy all relevant EU directives*

GENERAL

Differential pressure See «SPECIFICATIONS» [1 bar =100 kPa]
Maximum viscosity 65 cSt (mm^2/s)
Response time 40 - 120 ms

fluids (✳)	temperature range (TS)	seal materials (✳)
air, inert gas, water, oil	-20°C to +90°C	NBR (nitrile) PTFE

MATERIALS IN CONTACT WITH FLUID

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

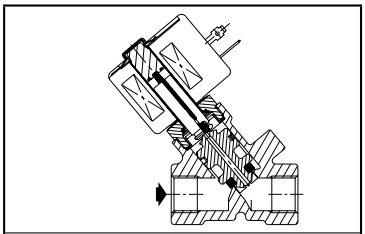
	Brass body	Stainless steel body
Body	Brass	AISI 304 SS
Core tube	Stainless steel	Stainless steel
Core and plugnut	Stainless steel	Stainless steel
Springs	Stainless steel	Stainless steel
Seat	Brass	Stainless steel
Seals and core disc	NBR	NBR
Piston	PPS / brass / st. steel	PPS or brass
Piston disc	NBR or PTFE	NBR
Piston rings	PTFE (carbon filled)	PTFE (carbon filled)
Shading coil	Copper	Silver

ELECTRICAL CHARACTERISTICS

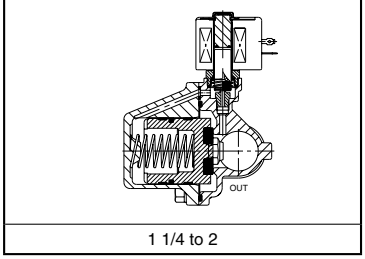
Coil insulation class F or H F
Connector Spade plug (cable Ø 6-10 mm) or cable leads, 0,35 m length (EF)
Connector specification ISO 4400 / EN 175301-803, form A
Electrical safety IEC 335
Electrical enclosure protection Moulded IP65 (EN 60529) or NEMA 3, 7, 9 (EF)
Standard voltages DC (⎓) : 24V - 48V
(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	34	15,6	6	-	-20 to +75	400325-117	-	01
	-	-	-	9/11,2	-20 to +75	-	400425-142	02
	78	35	16,7	-	-20 to +50	400425-217	-	02
	110	33,6	15,4	12/16,8	-20 to +75	400525-117	400625-142	03
	240	43	20	-	-20 to +50	400525-217	-	03
EF	-	-	-	21/30,6	-20 to +25	-	074073-005D	04

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



3/8 to 1



1 1/4 to 2

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 maintained man. operator	FPM	EPDM	CR	PTFE
	(mm)	(m^3/h)	(l/min)																
NC - Normally closed, PPS piston, NBR seals and discs																			
Rp 3/8	9	1,3	21,7	0,35	9	3	-	-	-	-	6	11,2	**SCE210C073**	-	MO	V	E	J	-
NPT 3/8				0,07	-	-	9	3	9	3			-	**SCB210A036**	MO	V	E	J	-
Rp 1/2	11	1,9	31,6	0,35	9	3	-	-	-	-	6	11,2	**SCE210A015**	-	MO	V	E	J	-
NPT 1/2				0,07	-	-	9	3	9	3			-	**SCB210A037**	MO	V	E	J	-
NC - Normally closed, brass piston, NBR seals and PTFE disc																			
Rp 3/4	19	5,2	86,7	0	24	14	14	12	14	12	15,4	-	**SCE210B026**	-	MO	V	E	J	T
											-	30,6	**EFE210B026** (2)	-	MO	V	E	J	T
Rp 1	25	11,6	193	0,7	20	16	20	14	20	14	16,7	16,8	**SCE210B078**	-	MO	-	-	-	-
Rp 1 1/4	28	12,8	214	0,7	20	16	20	14	20	14	16,7	16,8	**SCE210B080**	-	MO	-	-	-	-
Rp 1 1/2	32	19,3	322	0,7	20	16	20	14	20	14	16,7	16,8	**SCE210B082**	-	MO	-	-	-	-
NC - Normally closed, brass piston, NBR seals and discs																			
Rp 1	25	11,6	193	0	20	-	8	-	8	-	20	-	**SCE210B027**	-	MO	V	E	J	T
NC - Normally closed, stainless steel piston, NBR seals and discs																			
Rp 2	44	37	617	0,35	9	3	9	3	6	3	6	11,2	**SCE210-100**	-	MO	V	E	J	-

(2) Valve to be mounted with solenoid vertical and upright for DC.

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V345-1

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OPTIONS

- Valves can also be supplied with FPM (fluoroelastomer), EPDM (ethylene-propylene), CR (chloroprene) and PTFE 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
- Explosionproof enclosures for use in zones 1/21-2/22, categories 2-3 to ATEX Directive 2014/34 /EU (see "Explosionproof solenoids" section)
- Electrical enclosures according to "NEMA" standards are available
- Compliance with "UL", "CSA" and other local approvals available on request
- Mounting brackets, suffix MB (Except for SCE210B078/B080/B082/B027/-100)
- 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, unless indicated otherwise in the specifications table.
- Stainless steel valves are standard supplied with mounting brackets
- Pipe connection identifier is E = Rp (ISO 7/1) or B = NPT (ANSI 1.20.3)
- Installation/maintenance instructions are included with each valve

SPARE PARTS KIT & ACCESSORIES

catalogue number	spare parts kit no.		mounting bracket no.
	~	=	
SCE210C073	**C302271**	**C302371**	**093200-001**
SCB210A036	**C302327**	**C302421**	**093200-001**
SCE210A015	**C302275**	**C302374**	**100835-001**
SCB210A037	**C302326**	**C302422**	**100835-001**
SCE210B026	**C302278**	**-**	**038713-000**
EFE210B026	**-**	**C302377**	**038713-000**
SCE210B078	**C302281**	**C302380**	**-**
SCE210B080	**C302281**	**C302380**	**-**
SCE210B082	**C302285**	**C302384**	**-**
SCE210B027	**C302282**	**-**	**-**
SCE210-100	**C304355**	**C304359**	**-**

(1) Standard prefixes/suffixes are also applicable to kits.
- Not available

ORDERING EXAMPLES:

SC E 210 **A** 015 230V / 50 Hz
SC E 210 **B** 026 **MO** 115V / 50 Hz
SC B 210 **A** 037 **V** 24V / DC
SC E 210 **B** 027 230V / 50 Hz

prefix
pipe thread
basic number
voltage
suffix

ORDERING EXAMPLES KITS:

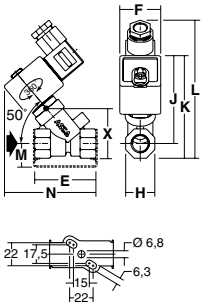
C302271(1)
C302374 **V**
C302278 **E**

basic number
suffix

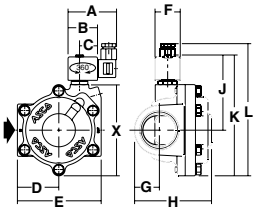
DIMENSIONS (mm), WEIGHT (kg)

TYPE 01-02
Prefix "SC" Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

Type 01, AC: SCE210C073/A015 - SCB210A036/037
Type 02, DC: SCE210C073/A015 - SCB210A036/037

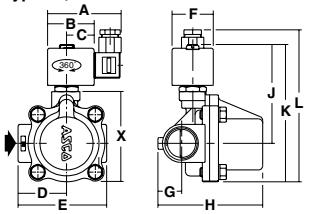


Type 01, AC: SCE210-100
Type 02, DC: SCE210-100



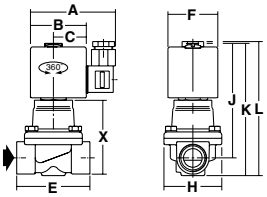
TYPE 02-03
Prefix "SC" Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

Type 02, AC: SCE210B078/B080/B082
Type 03, DC: SCE210B078/B080/B082



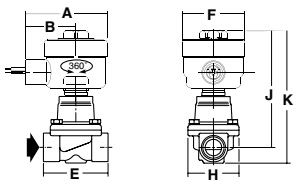
TYPE 03
Prefix "SC" Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

AC: SCE210B026/027



TYPE 04
Prefix "EF" Solenoid
Epoxy encapsulated
ICS-6 ANSI
NEMA type 3, 7, 9

DC: EFE210B026



type	prefix option	catalogue number	A	B	C	D	E	F	G	H	J	K	L	M	N	X	weight (2)
01	SC	SCE210C073/A036	-	-	-	-	48	39	-	22	74	85	124	22	72	41	0,6
		SCE210A015/A037	-	-	-	-	58	39	-	28	82	95	128	22	89	47	0,6
		SCE210-100	75	45	27	64	129	39	39	120	116	186	203	-	-	149	5,5
02	SC	SCE210C073/A036	-	-	-	-	48	45	-	22	80	91	130	22	80	41	0,6
		SCE210A015/A037	-	-	-	-	58	45	-	28	82	95	128	22	93	47	0,6
		SCE210-100	80	50	30	64	129	45	39	120	120	190	207	-	-	149	5,5
		SCE210B078	80	50	30	55	95	45	45	108	55	154	149	-	-	95	2,8
		SCE210B080	80	50	30	52	95	45	30	119	108	149	166	-	-	117	3,0
		SCE210B082	80	50	30	52	111	45	33	148	112	162	179	-	-	108	4,2
03	SC	SCE210B078	86	56	33	55	95	50	50	108	55	154	152	-	-	95	2,8
		SCE210B080	86	56	33	52	95	50	30	119	114	156	156	-	-	97	3,0
		SCE210B082	86	56	33	52	111	50	33	148	118	165	165	-	-	110	4,2
		SCE210B026	86	56	33	-	74	50	-	59	117	133	135	-	-	76	1,3
		SCE210B027	86	56	33	-	100	50	-	33	50	83	143	-	-	84	2,5
04	EF	EFE210B026	83	51	-	-	74	64	-	59	117	133	135	-	-	-	1,3

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

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