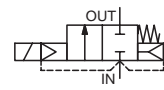




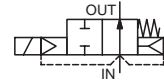
# SOLENOID VALVES

pilot operated  
hung diaphragm, gaseous fluids  
3/8 to 3

NC



NO



2/2  
Series  
215

## FEATURES

- The valves are for the control of low pressure air and gases, compatible with the seal materials used
- Aluminium bodied valves designed to provide maximum flow
- The valve have a resilient soft seating for tight shut-off
- Valves do not require a minimum operating pressure
- 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]  
**Response time** 25 - 120 ms

fluids (*)	temperature range (TS)	seal materials (*)
air, fuel gas NC: inert gas	-20°C to +85°C	NBR (nitrile)

## MATERIALS IN CONTACT WITH FLUID

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

<b>Body</b>	Aluminium
<b>Core tube</b>	Stainless steel
<b>Core and plugnut</b>	Stainless steel
<b>Springs</b>	Stainless steel
<b>Seat</b>	Aluminium or stainless steel
<b>Seals, diaphragms &amp; discs</b>	NBR
<b>Core guide</b>	POM
<b>Disc holder (NO function)</b>	PA
<b>Rider rings</b>	PTFE
<b>Shading coil</b>	Copper

## ELECTRICAL CHARACTERISTICS

**Coil insulation class** 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  
AC (~) : 24V - 48V - 115V - 230V / 50 Hz

prefix option	power ratings				operator ambient temperature range (TS) (C°)	replacement coil		type <sup>(1)</sup>
	inrush ~	holding ~	hot/cold =			~	=	
	(VA)	(VA)	(W)	(W)		230 V/50 Hz	24 V DC	
SC	55	23	10,5	9/ 11,2	-20 to +75	400425-117	400425-142	01
	110	33,6	15,4	-	-20 to +75	400525-117	-	02
EF	385	50	28,2	11/14,9	-20 to +75	206409-035D	062691-002D	03

<sup>(1)</sup> 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)		FPM					CR			
					air (*)	fuel gas (*)									
Rp	(mm)	(m³/h)	(l/min)		~	=	~	=	~	=					
<b>NC - Normally closed</b>															
3/8	19	2,9	48,3	0	3,5	1,8	3,5	1,8	10,5	11,2	SCE215C010 <sup>(4)</sup>	SCE215C010 <sup>(4)</sup>	V	J	-
1/2	19	3,8	63,3	0	3,5	1,8	3,5	1,8	10,5	11,2	SCE215C020 <sup>(4)</sup>	SCE215C020 <sup>(4)</sup>	V	J	-
3/4	19	4,4	73,3	0	3,5	1,8	3,5	1,8	10,5	11,2	SCE215C030 <sup>(4)</sup>	SCE215C030 <sup>(4)</sup>	V	J	-
1	41	18	300	0	1,8	1,8	1,8	1,8	15,4	14,9	SCE215B050	EFE215B050 <sup>(2)</sup>	V	J	-
1 1/4	41	27	450	0	1,8	1,8	1,8	1,8	15,4	14,9	SCE215B060	EFE215B060 <sup>(2)</sup>	V	J	-
1 1/2	41	30	500	0	1,8	1	1,8	1	15,4	14,9	SCE215B070	EFE215B070 <sup>(2)</sup>	V	J	-
2	53	50	833	0	1,8	1	1,8	1	15,4	14,9	SCE215B080	EFE215B080 <sup>(2)</sup>	V	J	-
2 1/2	76	100	1667	0	0,35	-	0,35	-	28,2	-	EFE215A090 <sup>(2)</sup>	-	V	J	-
3	76	118	1967	0	0,35	-	0,35	-	28,2	-	EFE215A040 <sup>(2)</sup>	-	V	J	-
<b>NO - Normally open</b>															
3/8	19	2,7	45	0	9	9	9	9	10,5	11,2	SCE215A013	SCE215A013	V	J	-
1/2	19	3,4	56,7	0	9	9	9	9	10,5	11,2	SCE215A023	SCE215A023	V	J	-
3/4	19	3,9	65	0	9	9	9	9	10,5	11,2	SCE215A033	SCE215A033	V	J	-
1	41	18	300	0	1,8	1	1,8	1	15,4	14,9	SCE215C053	EFE215C053 <sup>(3)</sup>	V	J	-
1 1/4	41	28	450	0	1,8	1	1,8	1	15,4	14,9	SCE215C063	EFE215C063 <sup>(3)</sup>	V	J	-
1 1/2	41	31	500	0	1,8	1	1,8	1	15,4	14,9	SCE215C073	EFE215C073 <sup>(3)</sup>	V	J	-
2	53	50	833	0	1,8	1	1,8	1	15,4	14,9	SCE215C083 <sup>(2)</sup>	EFE215C083 <sup>(2)(3)</sup>	V	-	-
2 1/2	76	100	1667	0	0,35	-	0,35	-	28,2	-	EFE215B093 <sup>(2)</sup>	-	V	-	-

<sup>(2)</sup> Mounting position: piping horizontal, solenoid upright.

<sup>(4)</sup> Valves have stainless steel seat.

<sup>(3)</sup> Lead connection coil on DC.

All leaflets are available on: [www.asco.com](http://www.asco.com)

Solenoid Valves (2/2) - 65

## OPTIONS

- Valves can also be supplied with FPM (fluoroelastomer) and CR (chloroprene) diaphragms, 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 ([www.asco.com](http://www.asco.com))
- Electrical enclosures according to "NEMA" standards are available
- Compliance with "UL", "CSA" and other local approvals available on request
- Mounting brackets (3/8, 1/2 and 3/4 only), suffix MB
- Other pipe connections are available on request
- Connector with visual indication and peak voltage suppression or with cable length of 2 m ([www.asco.com](http://www.asco.com))

## INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation, unless indicated otherwise in the specifications table.
- Pipe connection identifier is E = Rp (ISO 7/1)
- Installation/maintenance instructions are included with each valve

## SPARE PARTS KIT & ACCESSORIES

catalogue number	spare parts kit no.		mounting bracket no.
	~	=	
SCE215C010/C020/C030	<b>C302350</b>	<b>C302430</b>	<b>038713-000</b>
SCE215B050/B060/B070	<b>C302352</b>	-	-
EFE215B050/B060/B070	-	<b>C302432</b>	-
SCE215B080	<b>C302353</b>	-	-
EFE215B080	-	<b>C302433</b>	-
EFE215A090/A040	<b>C302354</b>	-	-
SCE215A013/A023/A033	<b>C302361</b>	<b>C302439</b>	<b>038713-000</b>
SCE215C053/C063/C073	<b>C304691</b>	-	-
EFE215C053/C063/C073	-	<b>C304699</b>	-
SCE215C083	<b>C304692</b>	-	-
EFE215C083	-	<b>C304700</b>	-
EFE215B093	<b>C302365</b>	-	-

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

## ORDERING EXAMPLES:

SC	E	215	C	010	230V / 50 Hz
SC	E	215	C	020	<b>MB</b> 115V / 50 Hz
EF	E	215	A	090	<b>V</b> 230V / 50 Hz
EF	E	215	B	070	24V / DC

prefix — pipe thread — basic number — voltage — suffix

## ORDERING EXAMPLES KITS:

C302350 <sup>(1)</sup>	
C302352	<b>V</b>
C302432	<b>J</b>

basic number — suffix

## DIMENSIONS (mm), WEIGHT (kg)



### TYPE 01

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

SCE215C010/C020/C030



### TYPE 02

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

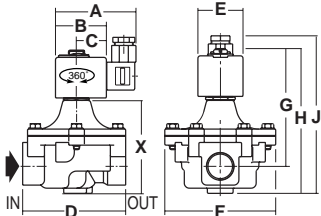
AC: SCE215B050/B060/B070/B080



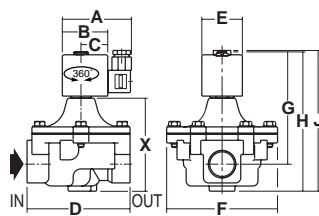
### TYPE 03

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

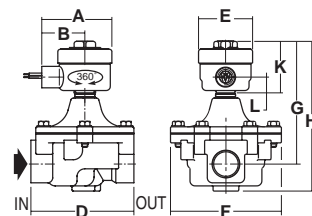
DC: EFE215B050/060/070/080  
EFE215A090/A040



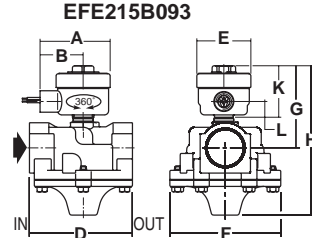
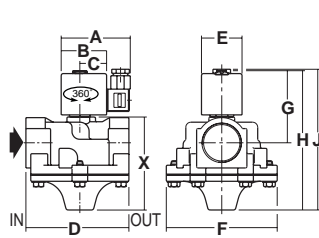
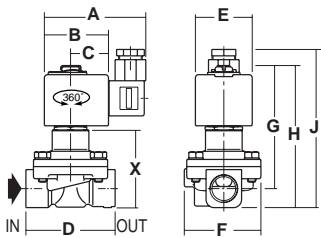
SCE215A013/A023/A033



AC: SCE215C053/C063/C073/C083

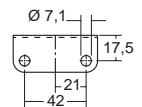


DC: EFE215C053/063/073/083  
EFE215B093



type	prefix option	catalogue number	A	B	C	D	E	F	G	H	J	K	L	X	weight <sup>(2)</sup>
01	SC	SCE215C010/C020	80	50	30	70	45	60	88	102	119	-	-	53	0,6
		SCE215C030	80	50	30	84	45	60	93	113	130	-	-	59	0,7
		SCE215A013/A023	80	50	30	70	45	60	99	114	131	-	-	65	0,5
		SCE215A033	80	50	30	84	45	60	104	125	142	-	-	68	0,7
02	SC	SCE215B050/B060/B070	86	56	33	127	50	137	140	171	172	-	-	121	1,8
		SCE215B080	86	56	33	155	50	160	149	188	188	-	-	139	2,1
		SCE215C053/C063/C073	86	56	33	127	50	137	90	172	172	-	-	123	1,5
		SCE215C083	86	56	33	155	50	160	95	187	187	-	-	132	2,3
03	EF	EFE215B050/B060/B070	83	64	-	127	64	137	161	193	-	78	19	-	2,3
		EFE215B080	83	64	-	155	64	160	170	208	-	78	19	-	2,9
		EFE215C053/C063/C073	83	64	-	127	64	137	112	193	-	78	19	-	2,3
		EFE215C083	83	64	-	155	64	160	117	208	-	78	19	-	2,9
		EFE215A090/A040	83	64	-	198	64	202	194	253	-	78	19	-	5,0
		EFE215B093	83	64	-	198	64	202	125	255	-	78	19	-	5,0

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



Mounting brackets for valves:

SCE215C010  
SCE215C020  
SCE215C030  
SCE215A013  
SCE215A023  
SCE215A033