

### FEATURES

- The solenoid valves will withstand the severe service encountered in controlling cryogenic fluids, such as liquid oxygen (-183°C), liquid argon (-186°C) and liquid nitrogen (-196°C)
- All valves are degreased, cleaned, tested and packed to keep them free from moisture. In addition liquid oxygen (LOX) valves are "black light" tested to check for any hydrocarbons
- Valves do not require a minimum operating pressure
- Valve are provided with stainless steel seats
- The solenoid valves satisfy all relevant EC directives

### GENERAL

**Differential pressure** See "SPECIFICATIONS" [1 bar = 100 kPa]  
**Maximum viscosity** 65 cSt (mm²/s)  
**Response times** 5 - 25 ms

fluids (*)	temperature range (TS)	seal materials (*)
cryogenic fluids	- 196°C to + 90°C	PTFE

### MATERIALS IN CONTACT WITH FLUID

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

Body	Brass
Core tube	Stainless steel
Core and plugnut	Stainless steel
Springs	Stainless steel
Seat	Brass
Seals	Lead-clad copper
Disc	PTFE
Shading coil	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 (=) : Contact us  
 (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 <sup>(1)</sup>
	inrush ~	holding ~	hot/cold =		~	=	
	(VA)	(VA)	(W)		230 V/50 Hz	-	
SC	55	23	10,5	-	400425-117	-	01
	78	35	16,7	-	400425-217	-	01

<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)	cryogenic fluids (*)	maintained man. operator	
	(mm)	(m³/h)	(l/min)	~	=	~								
NC - Normally closed														
NPT 1/8	3,2	0,3	5	0	9	10,5	-	SCB263A240LT	MO	-	-	-		
Rp 1/4	5,6	0,48	8	0	7	16,7	-	SCE263.205LT	MO	-	-	-		
Rp 1/4	7,1	0,6	10	0	3	10,5	-	SCE263.209LT	MO	-	-	-		
Rp 3/8	5,6	0,48	8	0	7	16,7	-	SCE263B206LT	MO	-	-	-		
Rp 3/8	7.1	0.6	10	0	3	10.5	-	SCE263A210LT	MO	-	-	-		

