

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)
- Hung piston construction
- Valves do not require a minimum operating pressure
- Reliable control in low pressure, high flow systems
- 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
- The solenoid valves satisfy all relevant EC directives

GENERAL

Differential pressure 0 - 9 bar [1 bar = 100 kPa]
Response times 75 - 100 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
Piston	Brass
Seat	Brass
Seals	PTFE
Piston rings	PTFE carbon filled
Core disc	PTFE reinforced
Piston disc	PTFE
Shading coil	Copper

ELECTRICAL CHARACTERISTICS

Coil insulation class	H
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 ⁽¹⁾
	inrush ~	holding ~		hot/cold =		~	=	
	(VA)	(VA)	(W)	(W)		230 V/50 Hz		
SC	78	35	16,7	-	-20 to + 50	400426-517	-	01

⁽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)				maintained man. operator			
					cryogenic fluids (*)							
Rp	(mm)	(m³/h)	(l/min)		~	~	=	~				
NC - Normally closed												
1/2	16	3,3	55	0	9	16,7	-	SCE222E002LT	MO	-	-	-
3/4	19	5.1	85	0	9	16.7	-	SCE222F003LT	MO	-	-	-

