

FEATURES

- All products are covered by the Pressure Equipment Directive 97/23/EC and are suitable for group 1 and 2 fluids
- 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)
- Solenoid valves require a minimum pressure differential of 0,35 bar
- 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
- Heavy duty floating piston design for severe applications
- The solenoid valves satisfy all relevant EC directives

GENERAL

Differential pressure	0,35 - 14 bar [1 bar = 100 kPa]
Maximum viscosity	65 cSt (mm²/s)
Response times	40 - 120 ms

fluids (*)	temperature range (TS)	seal materials (*)
cryogenic fluids	-196 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	PTFE and Lead-Clad Copper
Core disc	PTFE reinforced
Piston	Brass
Piston disc	PTFE
Piston rings	PTFE (carbon filled)
Shading coil	Copper

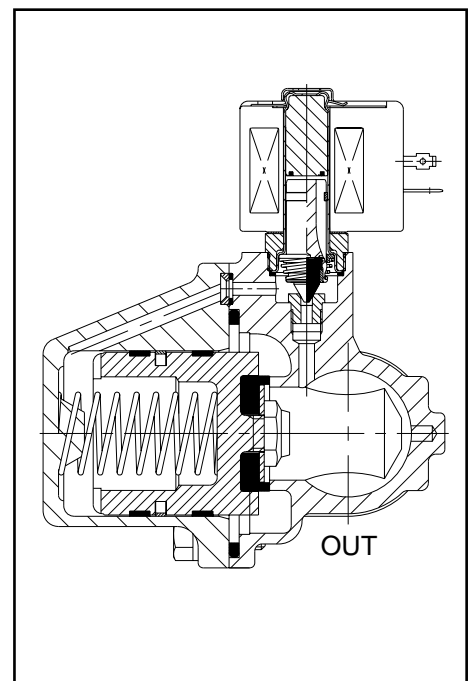
ELECTRICAL CHARACTERISTICS

Coil insulation class	F
Connector	Spade plug (Pg 11P)
Connector specification	ISO 4400
Electrical safety	IEC 335
Standard voltages	DC (=) : contact us
(Other voltages and 60 Hz on request)	AC (~) : 24V - 115V - 230V / 50 Hz

coil type	power ratings				ambient temperature range (TS)	protection
	inrush	holding		=		
	~ (VA)	(VA)	(W)	(W)	(°C)	
CMXX-FB	78	35,0	16,7	-	-20 to +50	moulded IP65

SPECIFICATIONS

pipe size	orifice size	flow coefficient Kv		operating pressure differential (bar)		coil type	catalogue number
				min.	maximum (PS)		
					cryogenic fluids (*)		
NPT	(mm)	(m³/h)	(l/min)		~	~	
1	25	11,6	193	0,35	14	CMXX-FB	SCB210C078LT
1 1/4	28	12,8	213	0,35	14	CMXX-FB	SCB210C080LT
1 1/2	32	19,3	321	0,35	14	CMXX-FB	SCB210C082LT



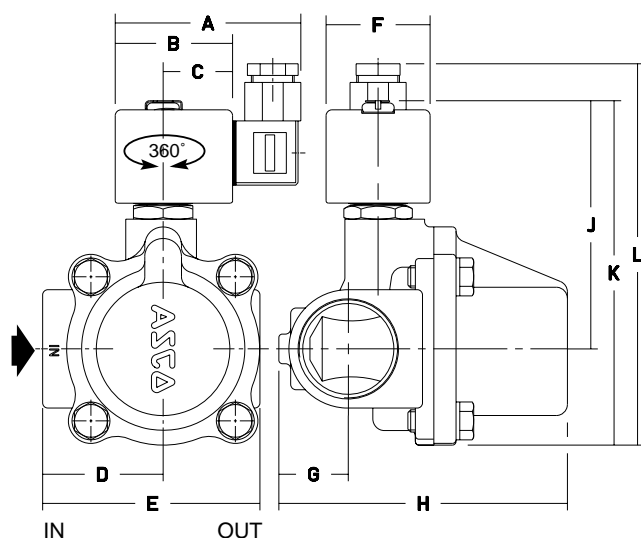
OPTIONS

- Waterproof enclosure with embedded screw terminal coil and Pg 13,5 cable gland to meet CEE-10 (IP67)
- Explosionproof enclosures for hazardous locations according to “**CENELEC**” and national standards (see section 10)
- Explosionproof and watertight enclosures according to “**NEMA**” standards (see section 10)
- Compliance with “**UL**” and “**CSA**” standards
- Manual operator
- Plug with visual indication and peak voltage suppression (see section 11)

INSTALLATION

- The valves can be mounted in any position without affecting operation
- Pipe connection identifier is: B= NPT (ANSI 1.20.3)
- The third digit in the catalogue number indicates the standard pipe connection
- Other pipe connections are available on request
- Installation/maintenance instructions are included with each valve
- Spare Parts Kit and replacement coils are available (see section 11)

DIMENSIONS (mm), WEIGHT (kg)



catalogue number SCB210	A	B	C	D	E	F	G	H	J	K	L	weight (1)
C078LT	80	50	30	52	95	45	20	108	108	147	166	2,5
C080LT	80	50	30	52	95	45	33	119	108	147	166	3,0
C082LT	80	50	30	52	111	45	33	142	112	160	179	5,0

(1) incl. coil and connector