

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
- Compliance with UL and CSA standards
- The solenoid valves satisfy all relevant EU directives

GENERAL

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

fluids (*)	temperature range (TS)	seal materials (*)
cryogenic fluids	-196°C to +60°C	PTFE

GENERAL

MATERIALS IN CONTACT WITH FLUID

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

Body	Brass
Shading coil	Copper
Core tube	Stainless steel, AISI 305
Core and plugnut	Stainless steel, AISI 430F
Springs	Stainless steel, AISI 302
Seal	Lead-clad copper
Disc	PTFE

ELECTRICAL CHARACTERISTICS

Coil insulation class	F (AC) or H (DC)
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 (=) : 24V - 48V
(Other voltages and 60 Hz on request)	AC (~) : 24V - 48V - 115V - 230V/50 Hz

operator ambient temperature range (TS) (°C)	power ratings				replacement coil ⁽¹⁾	
	inrush ~	holding ~		hot/cold =	~	=
	(VA)	(VA)	(W)	(W)	230 V/50 Hz	24 V DC
-40 to +55	50	25	10,1	8,5/11,6	238613-059	238913-006
	70	40	17,1	15,1/22,6	238613-159	238913-106

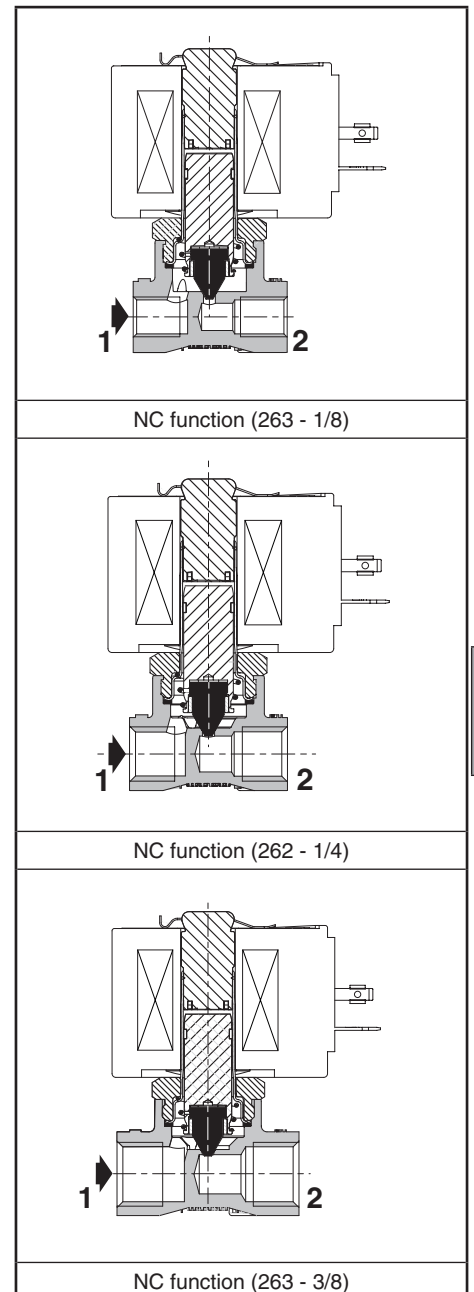
⁽¹⁾ All 238 basic numbers are UL & CSA approved and marked with the UR (recognised component) & CSA logos.

OPTIONS

Seals and disc (*) ⁽²⁾ (fluid temperature range)	PTFE: -196°C to +66°C (coil class F) -196°C to +49°C (coil class H)
Plug with visual indication and peak voltage suppression or with cable length of 2 m (see Solenoids, Coils & Accessories section)	

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

⁽²⁾ The minimum ambient temperature of the solenoid valve is determined by the limitations of minimum temperature indicated.



SPECIFICATIONS

SPECIFICATIONS											15-DIGIT PRODUCT CODE							
pipe size	orifice size	flow coefficient Kv	operating pressure differential (bar)				power coil (W)		thread type	dimensions / type ⁽¹⁾	brass	voltage code						
			min.	max. (PS)		24 V/50 Hz						48 V/50 Hz	115 V/50 Hz	230 V/50 Hz	24 V/DC	48 V/DC		
				cryogenic fluids (*)														
	(mm)	(m³/h)(l/min)		~	=	~	=											
WITHOUT MANUAL OPERATOR																		
NC - Normally closed																		
1/8	3,2	0,3	5	0	10,7	5,2	10,1	11,6	G	01	G263K240S1TD0	FL	FR	FT	F8	H1	H9	
1/4	3,2	0,3	5	0	10,7	5,2	10,1	11,6	G*	01	E262K232S1TD0							
	5,6	0,63	10,5	0	6,9	2,9	17,1	22,6	G*	01	E262K114S1TD0							
	7,1	0,76	12,7	0	4	1,9	17,1	22,6	G*	01	E262K212S1TD0							
3/8	3,2	0,3	5	0	10,7	5,2	10,1	11,6	G*	02	E263K232S1TD0							
	5,6	0,63	10,5	0	6,2	2,9	17,1	22,6	G*	02	E263K206S1TD0							
	7,1	0,76	12,7	0	4	1,9	17,1	22,6	G*	02	E263K210S1TD0							

(1) For dimensions, see drawing(s) for each construction type on the following page(s).

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

Thread connection
G = ISO 228/1 (1/8)
E = ISO 228/1 & ISO 7/1 (combination thread, G*)
8 = NPT (SAE 71051) [contact us]

Product series
262 (1/4)
263 (1/8 - 3/8)

Revision letter
K = Initial release

Valves version

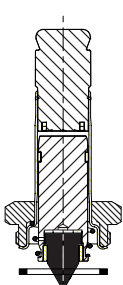
15-DIGIT PRODUCT CODE

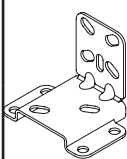
--- K --- S1 TD0 ---

Voltage - class
FL = 24 V / 50 Hz - class F
FR = 48 V / 50 Hz - class F
FT = 115 V / 50 Hz - class F
F8 = 230 V / 50 Hz - class F
H1 = 24 V DC - class H
H9 = 48 V DC - class H

Options
Without manual operator
TD0 = PTFE disc and seals

Electrical interface
S1 = With spade plug connector

SPARE PARTS KITS CODE (*)					
		AC (~)		DC (=)	
			PTFE		PTFE
	G263K240	M200056	TD0	M200057	TD0
	E262K232				
	E262K114				
	E262K212				
	E263K232				
	E263K206				
	E263K210				

		ACCESSORIES CODE
	Mounting bracket Steel version (AISI 1010 / 1.1121)	M200094A00
	Mounting bracket Stainless steel version (AISI 304 / 1.4301)	M200095A00

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Solenoid valves have 2 mounting holes in body
- Thread connection "E" applicable for 1/4, 3/8 have standard thread according to ISO 228/1 and ISO 7/1. Thread connection "G" applicable for 1/8, have standard thread according to ISO 228/1
- Thread connection "8" have standard thread = NPT (SAE 71051)
- Installation/maintenance instructions are included with each valve

DIMENSIONS (mm), WEIGHT (kg)

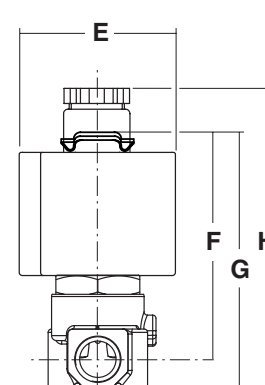
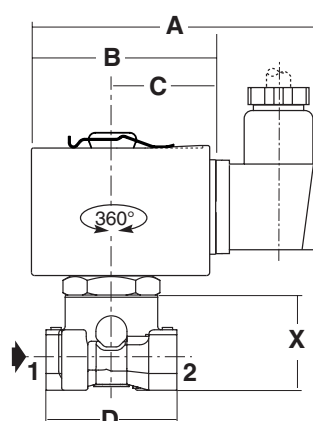
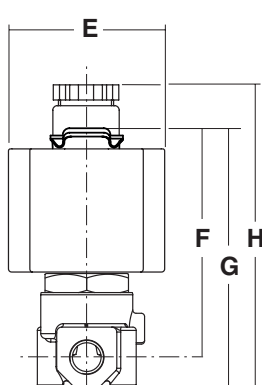
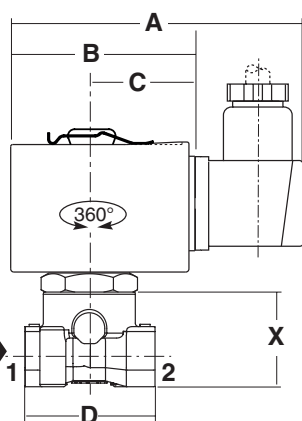
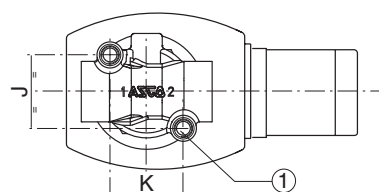
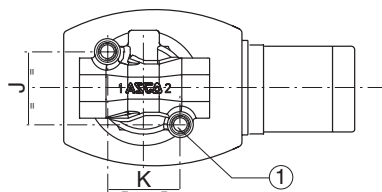
[Configurator - CAD Files](#)



TYPE 01
Electrical interface "S1"
Epoxy moulded
IEC 335 / ISO 4400
IP65

1/8 power coil 10,1 W / 11,6 W

1/4 power coil 10,1 W / 11,6 W - 17,1 W / 22,6 W



H

type	pipe size	A	B	C	D	E	F	G	H	X	weight ⁽¹⁾
01	1/8	95	57	33	40	50	69	78	93	29	0,54
	1/4	95	57	33	40	50	69	78	93	29	0,58

① 2 mounting holes:
M5 dia., depth 7,5 mm (1/8-1/4)

⁽¹⁾ Incl. coil(s) and connector(s).



TYPE 02

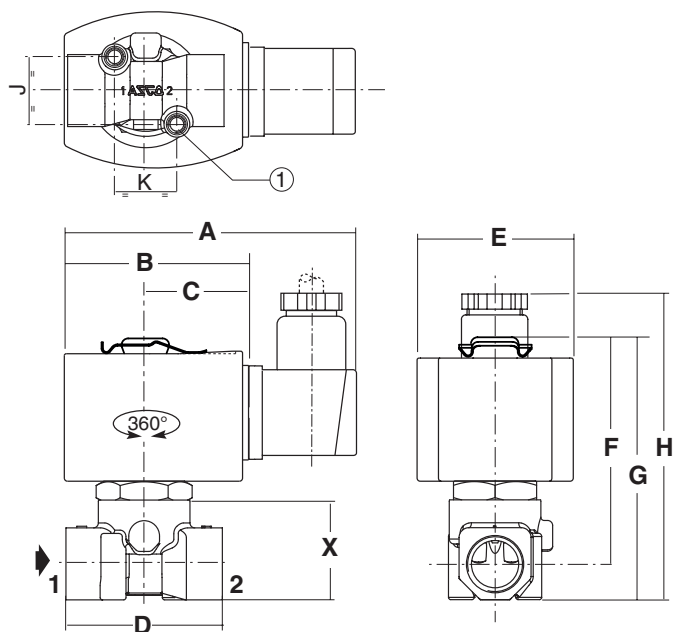
Electrical interface "S1"

Epoxy moulded

IEC 335 / ISO 4400

IP65

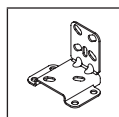
3/8 power coil 10,1 W / 11,6 W - 17,1 W / 22,6 W



type	pipe size	A	B	C	D	E	F	G	H	X	weight ⁽¹⁾
02	3/8	95	59	34	48	50	69	80	95	31	0,61

⁽¹⁾ Incl. coil(s) and connector(s).

① 2 mounting holes:
M5 dia., depth 6 mm (3/8)



Mounting bracket

Steel or stainless steel

M200094A00 / M200095A00

