

## FEATURES

- Compact valve intended for single acting actuator control
- High operating speed
- Valve optimised for general 3-way piloting applications, only one spring and two moving parts
- RoHS compliance
- Valves do not require a minimum operating pressure
- The solenoid valves satisfy all relevant EC directives

## GENERAL

**Differential pressure** See «SPECIFICATIONS» [1 bar =100 kPa]  
**Maximum viscosity** 65 cSt (mm<sup>2</sup>/s)  
**Response time** 5 - 25 ms

fluids (*)	temperature range (TS)	seal materials (*)
air, inert gas, water, oil	- 25°C to + 90°C	NBR (nitrile) FPM (fluoroelastomer)



## CONSTRUCTION

MATERIALS IN CONTACT WITH FLUID		
(*) Ensure that the compatibility of the fluids in contact with the materials is verified		
Body	Brass	Stainless steel, AISI 304
Shading coil	Copper	Silver
Core tube	Stainless steel, AISI 305	
Core and plugnut	Stainless steel, AISI 430F	
Springs	Stainless steel, AISI 302	
Seals	NBR	
Disc	NBR	
Upper disc	FPM	
Core guide	POM	

## ELECTRICAL CHARACTERISTICS

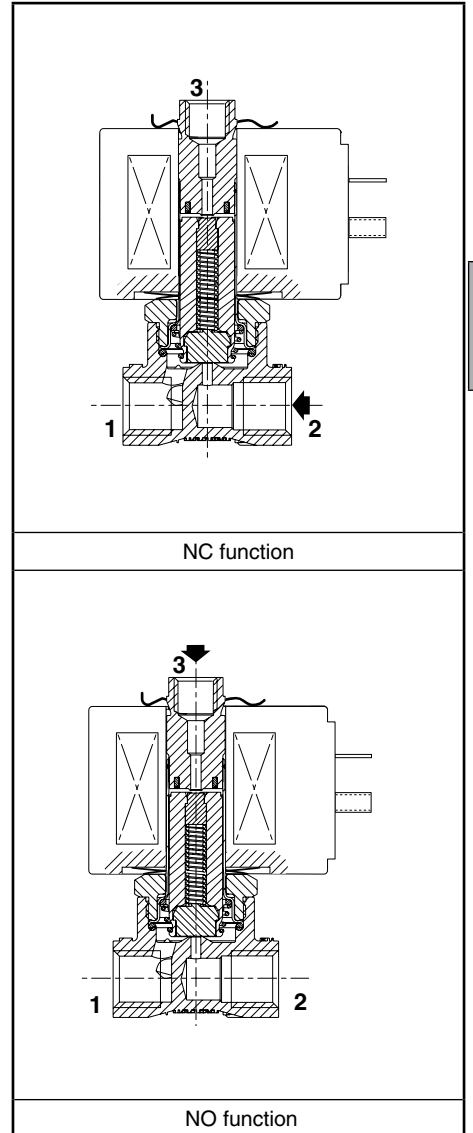
<b>Coil insulation class</b>	F
<b>Connector</b>	Spade plug (cable Ø 6-10 mm)
<b>Connector specification</b>	ISO 4400 / EN 175301-803, form A
<b>Electrical safety</b>	IEC 335
<b>Electrical enclosure protection</b>	Moulded IP65 (EN 60529)
<b>Standard voltages</b>	DC (=) : 24V - 48V
(Other voltages and 60 Hz on request)	AC (~) : 24V - 48V - 115V - 230V/50 Hz

operator ambient temperature range (TS) (°C)	power ratings				replacement coil	
	inrush ~ (VA)	holding ~ (VA) (W)		hot/cold = (W)	~ 230 V/50 Hz	= 24 V DC
-25 to +55	50	25	10.1	8.5/11.6	238613-059	238713-006

## OPTIONS

<b>Seals and disc (*)</b> (fluid temperature range) <sup>(1)</sup>	FPM (fluoroelastomer): -15°C to +120°C (AC) -15°C to +90°C (DC)
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.  
<sup>(1)</sup> The minimum ambient temperature of the solenoid valve is determined by the limitations of minimum temperature indicated.



E

**SPECIFICATIONS**

															15-DIGIT PRODUCT CODE									
pipe size	orifice size (mm)	flow coefficient Kv				operating pressure differential (bar)						power coil (W)		thread type	dimensions / type (1)	brass	stainless steel	voltage code						
		2 → 1		1 → 3		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			
		(m³/h)	(l/min)	(m³/h)	(l/min)		air (*)	water (*)	oil (*)	~	=													
<b>WITHOUT MANUAL OPERATOR</b>																								
<b>NC - Normally closed, NBR seal and disc</b>																								
1/4	1,2	0,04	0,7	0,05	0,8	0	20	17	20	17	20	17	10,1	11,6	G*	01	E314K034S1N00	E314K068S1N00	FL	FR	FT	F8	F1	F9
	2,4	0,13	2,2	0,17	2,8	0	14	10	14	8	13	6	10,1	11,6	G*	01	E314K035S1N00	E314K121S1N00						
	3,2	0,22	3,7	0,17	2,8	0	10	6	10	6	6,5	4,5	10,1	11,6	G*	01	E314K036S1N00	E314K126S1N00						
	4	0,43	7,1	0,17	2,8	0	5	3	5	3	5	3	10,1	11,6	G*	01	E314K130S1N00	E314K230S1N00						
	5,6	0,60	10	0,17	2,8	0	2,5	1,7	2,5	1,7	2,5	1,7	10,1	11,6	G*	01	E314K131S1N00	E314K231S1N00						
	7,1	0,73	12,1	0,17	2,8	0	1,7	1	1,7	1	1,7	1	10,1	11,6	G*	01	E314K132S1N00	E314K232S1N00						
<b>U - Universal, NBR seal and disc</b>																								
1/4	1,2	0,04	0,7	0,05	0,8	0	13	13	13	13	13	13	10,1	11,6	G*	01	E314K006S1N00	E314K123S1N00	FL	FR	FT	F8	F1	F9
	2,4	0,13	2,2	0,17	2,8	0	7	7	5,5	5,5	4	4	10,1	11,6	G*	01	E314K007S1N00	E314K120S1N00						
	3,2	0,22	3,7	0,17	2,8	0	4,5	3,5	4,5	3	2,5	3	10,1	11,6	G*	01	E314K008S1N00	E314K124S1N00						
	4	0,43	7,1	0,17	2,8	0	2,5	1,7	2,5	1,7	2,5	1,7	10,1	11,6	G*	01	E314K127S1N00	E314K227S1N00						
	5,6	0,60	10	0,17	2,8	0	1,2	0,8	1,2	0,8	1,2	0,8	10,1	11,6	G*	01	E314K128S1N00	E314K228S1N00						
	7,1	0,73	12,1	0,17	2,8	0	0,68	0,55	0,68	0,55	0,68	0,55	10,1	11,6	G*	01	E314K129S1N00	E314K229S1N00						
<b>NO - Normally open, NBR seal and disc</b>																								
1/4	1,2	0,04	0,7	0,05	0,8	0	20	17	20	17	20	17	10,1	11,6	G*	01	E314K052S1N00	E314K069S1N00	FL	FR	FT	F8	F1	F9
	2,4	0,13	2,2	0,17	2,8	0	12	11	12	11	12	11	10,1	11,6	G*	01	E314K053S1N00	E314K122S1N00						
	3,2	0,22	3,7	0,17	2,8	0	11	10	11	10	11	8	10,1	11,6	G*	01	E314K054S1N00	E314K070S1N00						
	4	0,43	7,1	0,17	2,8	0	10	4	10	4	10	4	10,1	11,6	G*	01	E314K133S1N00	E314K233S1N00						
	5,6	0,60	10	0,17	2,8	0	6,5	2,5	6,5	2,5	6,5	2,5	10,1	11,6	G*	01	E314K134S1N00	E314K234S1N00						
	7,1	0,73	12,1	0,17	2,8	0	4	1,7	4	1,7	4	1,7	10,1	11,6	G*	01	E314K135S1N00	E314K235S1N00						
<b>WITH MAINTAINED MANUAL OPERATOR</b>																								
<b>NC - Normally closed, NBR seal and disc</b>																								
1/4	1,2	0,04	0,7	0,05	0,8	0	20	17	20	17	20	17	10,1	11,6	G*	01	E314K034S1N01	E314K068S1N01	FL	FR	FT	F8	F1	F9
	2,4	0,13	2,2	0,17	2,8	0	14	10	14	8	13	6	10,1	11,6	G*	01	E314K035S1N01	E314K121S1N01						
	3,2	0,22	3,7	0,17	2,8	0	10	6	10	6	6,5	4,5	10,1	11,6	G*	01	E314K036S1N01	E314K126S1N01						
	4	0,43	7,1	0,17	2,8	0	5	3	5	3	5	3	10,1	11,6	G*	01	E314K130S1N01	E314K230S1N01						
	5,6	0,60	10	0,17	2,8	0	2,5	1,7	2,5	1,7	2,5	1,7	10,1	11,6	G*	01	E314K131S1N01	E314K231S1N01						
	7,1	0,73	12,1	0,17	2,8	0	1,7	1	1,7	1	1,7	1	10,1	11,6	G*	01	E314K132S1N01	E314K232S1N01						
<b>U - Universal, NBR seal and disc</b>																								
1/4	1,2	0,04	0,7	0,05	0,8	0	13	13	13	13	13	13	10,1	11,6	G*	01	E314K006S1N01	E314K123S1N01	FL	FR	FT	F8	F1	F9
	2,4	0,13	2,2	0,17	2,8	0	7	7	5,5	5,5	4	4	10,1	11,6	G*	01	E314K007S1N01	E314K120S1N01						
	3,2	0,22	3,7	0,17	2,8	0	4,5	3,5	4,5	3	2,5	3	10,1	11,6	G*	01	E314K008S1N01	E314K124S1N01						
	4	0,43	7,1	0,17	2,8	0	2,5	1,7	2,5	1,7	2,5	1,7	10,1	11,6	G*	01	E314K127S1N01	E314K227S1N01						
	5,6	0,60	10	0,17	2,8	0	1,2	0,8	1,2	0,8	1,2	0,8	10,1	11,6	G*	01	E314K128S1N01	E314K228S1N01						
	7,1	0,73	12,1	0,17	2,8	0	0,68	0,55	0,68	0,55	0,68	0,55	10,1	11,6	G*	01	E314K129S1N01	E314K229S1N01						
<b>NO - Normally open, NBR seal and disc</b>																								
1/4	1,2	0,04	0,7	0,05	0,8	0	20	17	20	17	20	17	10,1	11,6	G*	01	E314K052S1N01	E314K069S1N01	FL	FR	FT	F8	F1	F9
	2,4	0,13	2,2	0,17	2,8	0	12	11	12	11	12	11	10,1	11,6	G*	01	E314K053S1N01	E314K122S1N01						
	3,2	0,22	3,7	0,17	2,8	0	11	10	11	10	11	8	10,1	11,6	G*	01	E314K054S1N01	E314K070S1N01						
	4	0,43	7,1	0,17	2,8	0	10	4	10	4	10	4	10,1	11,6	G*	01	E314K133S1N01	E314K233S1N01						
	5,6	0,60	10	0,17	2,8	0	6,5	2,5	6,5	2,5	6,5	2,5	10,1	11,6	G*	01	E314K134S1N01	E314K234S1N01						
	7,1	0,73	12,1	0,17	2,8	0	4	1,7	4	1,7	4	1,7	10,1	11,6	G*	01	E314K135S1N01	E314K235S1N01						

(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.

**15-DIGIT PRODUCT CODE**

**Thread connection**

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

**Product series**

**314**

**Revision letter**

**K** = Initial release

**Valves version**

**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  
**F1** = 24 V DC - class F  
**F9** = 48 V DC - class F

**Options**

**Without manual operator**

**N00** = NBR disc and seals  
**V00** = FPM disc and seals

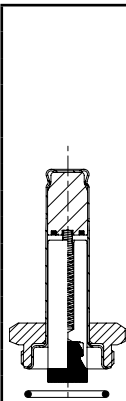
**With maintained manual operator**

**N01** = NBR disc and seals  
**V01** = FPM disc and seals

**Electrical interface**

**S1** = With spade plug connector

**SPARE PARTS KITS CODE (\*)**



		SPARE PARTS KITS CODE (*)					
		AC (~)			DC (=)		
		NBR	FPM	NBR	FPM	FPM	
E314K006	M200074	N00	V00	M200074	N00	V00	
E314K007/008	M200078	N00	V00	M200075	N00	V00	
E314K034	M200070	N00	V00	M200066	N00	V00	
E314K035/036	M200071	N00	V00	M200067	N00	V00	
E314K052	M200080	N00	V00	M200080	N00	V00	
E314K053/054	M200081	N00	V00	M200081	N00	V00	
E314K068	M200072	N00	V00	M200068	N00	V00	
E314K069	M200082	N00	V00	M200082	N00	V00	
E314K070	M200083	N00	V00	M200083	N00	V00	
E314K120	M200079	N00	V00	M200077	N00	V00	
E314K121	M200073	N00	V00	M200069	N00	V00	
E314K122	M200083	N00	V00	M200083	N00	V00	
E314K123	M200076	N00	V00	M200076	N00	V00	
E314K124	M200079	N00	V00	M200077	N00	V00	
E314K126	M200073	N00	V00	M200069	N00	V00	
E314K127/128/129	M200078	N00	V00	M200075	N00	V00	
E314K130/131/132	M200071	N00	V00	M200067	N00	V00	
E314K133/134/135	M200081	N00	V00	M200081	N00	V00	
E314K227/228/229	M200079	N00	V00	M200077	N00	V00	
E314K230/231/232	M200073	N00	V00	M200069	N00	V00	
E314K233/234/235	M200083	N00	V00	M200083	N00	V00	

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

**ACCESSORIES CODE**

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

### INSTALLATION

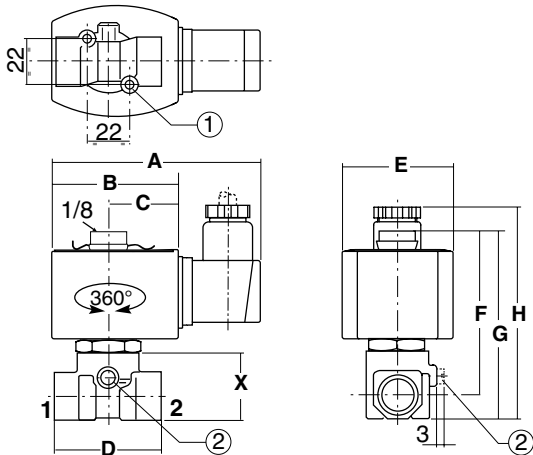
- The solenoid valves can be mounted in any position without affecting operation
- Solenoid valves have 2 mounting holes in body
- Pipe connections 1/4 (G\*) have standard combination thread according to ISO 228/1 and ISO 7/1. Pipe connections G 1/8 have standard thread according to ISO 228/1
- Pipe connection identifier is 8 = NPT (SAE 71051) (contact us)
- Installation/maintenance instructions are included with each valve

### DIMENSIONS (mm), WEIGHT (kg)



#### TYPE 01

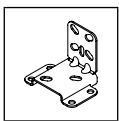
Electrical interface "S1"  
Epoxy moulded  
IEC 335 / ISO 4400  
IP65



type	A	B	C	D	E	F	G	H	X	weight <sup>(2)</sup>
01	97	59	34	40	50	73	82	96	30	0,59

- ① 2 mounting holes M5 dia., depth 6 mm.  
② Manual operator location.

<sup>(2)</sup> Incl. coil(s) and connector(s).



#### Mounting bracket

Steel or stainless steel

M200094A00 / M200095A00

