



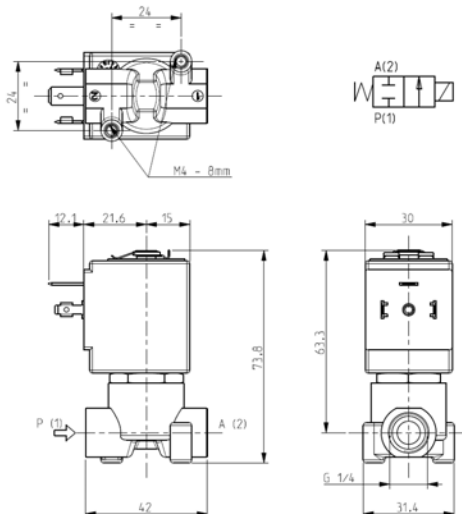
SOLENOID VALVE

2/2 - NC (Normally closed)

Direct acting

G 1/4

L121C01-D04



► GENERAL FEATURES

Direct acting solenoid valve.

Suitable to shut off liquid and gaseous fluids; particularly suitable to shut off overheated water and steam (verify the compatibility of fluid with materials in contact).

► TECHNICAL FEATURES

Maximum allowable pressure (PS)	40 bar
Opening time	~20ms
Closing time	~20ms
Fluid temperature	-10°C +170°C (Ruby) -10°C +140°C (EPDM)
Max viscosity	5°E (~37 cStokes or mm ² /s)

► MATERIALS IN CONTACT WITH FLUID

Body	Brass
Sealing	RUBY or EPDM
Internal components	Stainless steel
Seat	Stainless steel
Guide assembly	Stainless steel
Shading ring	Copper

► COIL

Approval	UL (class F) – for UL cl.H: ZA34
Continuous duty	ED 100%
Encapsulation material	PPS (Polyphenilsulfure) glass fibre reinforced
Coil insulation class	F (155°C) on request class H (180°C)
Ambient temperature	-10°C +50°C
Electric connections	DIN 46340 - 3 poles connectors (EN175301-803)
Protection degree	IP 67 (EN 60529) with plug connector
Voltages DC	12-24V (+10% -5%)
AC	ZA10A: 24V/50Hz - 110V/50Hz (120V/60Hz) - 230V/50Hz (+10% -15%)
	(Other voltages and frequencies on request)

Port size ISO 228	Orifice size (mm)	Differential pressure (bar)				Kv (m³/h)	Series and type		Power absorption			Sealings	Notes	Weight (kg)	
		Δp min	Δp max						AC (VA)		DC (W)				
			Gases		Liquids		Inrush	Holding							
			AC	DC	AC				DC						
G 1/4	2,3	0	20	10	20	10	0,15	L121C01	ZA10A	23	14	9	RUBY	1-2-3-5-6	0,290
	3,2		17	5	17	5	0,28		ZA10G	-	-	12		1-2-3-5	
			-	7	-	7			ZA10A	23	14	9		1-2-3	
	4,5		8	3	8	2,5	0,40		ZA10G	-	-	12		1-2-3-5	
			-	4	-	4		ZA10A	23	14	9	1-2-3			
	3,2		12	4	12	4	0,30	L121D04	ZA10A	23	14	9	4-5		
			-	7	-	7			ZA10G	-	-	12	4		
	4,8		4,5	1	4,5	1	0,45		ZA10A	23	14	9	EPDM	4-6	
-		2	-	2	ZA10G	-			-	12					

► NOTES

- Sealings : RUBY=Synthetic corundum EPDM = Ethylene-propylene elastomer
- IMQ CSV approval, see ZA10 datasheet for further details
- UL approved coil (E153691)
- 1 - The use of rigid sealings (RUBY) with gaseous fluids implies a slight leakage, generally limited at 2 scc/min at 1 bar pressure.
- 2 - Gasket between core armature and body in FPM (Fluoro-carbon elastomer).
- 3 - Only for use with steam, consider following values: PSmax 8 bar (max temperature of fluid 170°).
- 4 - Only for use with steam, consider following values: PSmax 4 bar (max temperature of fluid 140°).
- 5 - On request special coil ZA10X, class "F", with UL homologated windings - see overleaf.
- 6 - Model available on request only: ask for minimum quantity.

L121C01-D04

► COIL FOR SPECIAL VOLTAGES ZA10X

Approval	UL (class F); see voltages	Ambient temperature	DIN 46340 - 3 poles connectors (EN175301-803)
Continuous duty	ED 100%	Electric connections	IP 67 (EN 60529) with plug connector
Encapsulation material	PPS (Polyphenilsulfure) fiberglass reinforced	Voltages	AC 24V/50-60Hz (UL) ▪ 100V/50-60Hz ▪ 115-120V/60Hz ▪ 200V/50-60Hz ▪ 220-230V/50Hz - 208-240V/60Hz (UL) ▪ 220-240V/50Hz (UL) ▪ (+10% -15%)
Coil insulation class	F (155°C)		
Ambient temperature	-10°C +50°C		

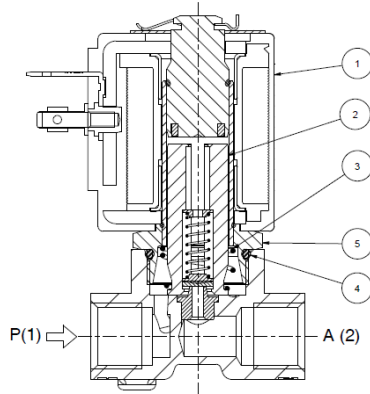
Port size ISO 228	Orifice size (mm)	Differential pressure (bar)					Kv (m³/h)	Series and type		Power absorption			Sealings	Notes	Weight (kg)
		Δp min	Δp max												
			Gases		Liquids										
			AC	DC	AC	DC		Valve	Inrush	Holding	DC (W)				
G 1/4	2,3	0	20	-	20	-	0,15	L121C01	ZA10X	23	14	-	RUBY	1-2-3-5	0,300
	3,2		12,5	-	12,5	-	0,28							1-2-3	
	4,5		5	-	5	-	0,40	L121D04					EPDM	4	
	3,2		9	-	9	-	0,30							-	
	4,8		3	-	3	-	0,45							-	

► NOTES

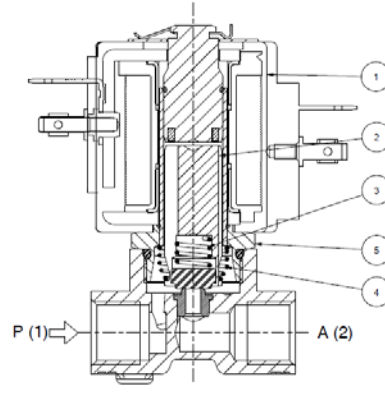
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► SPARE PARTS

L121 C01



L121 D04



Kit description

Core kit

L121C01	Ø 2,3	G3008801
	Ø 3,2	G3008802
	Ø 4,5	
L121D04	Ø 3,2	G3022807
	Ø 4,8	G3022808

Core return spring kit

L121C01	Ø 2,3	G3018901
	Ø 3,2	G3022401
	Ø 4,5	
L121D04	Ø 3,2	G3022401
	Ø 4,8	G3018901

OR guide assembly kit

L121C01	GU2424000017
L121D04	GU2446000017

Guide pipe assembly kit

G31486

Coil

ZA10A
ZA10G
ZA10X

Consisting of:

Core (with core return spring) pos. 2
OR guide assembly pos. 4

N.10 core return spring pos. 3

N.10 OR guide assembly pos. 4

Guide pipe assembly pos. 5
Coil clip

Coil pos. 1

► MOUNTING

Solenoid valve can be mounted in any position; vertical with coil upwards preferred.