

ASCO™ SOLENOID VALVE

2/2 NORMALLY CLOSED – DIRECT ACTING

SERIES
L121

General Features

Direct acting solenoid valve.

Suitable to shut off liquid and gaseous fluids (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 +90°C (NBR) 0°C +130°C (FPM) -10°C +140°C (EPDM)
Max viscosity	5°E (~37 cStokes or mm ² /s)

Approvals

UL (Class F) approval – for UL cl.H: ZA34 (E153691)

IMQ CSV approval, see ZA10 data sheet for further details

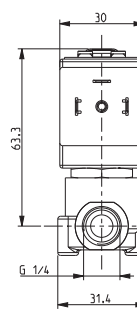
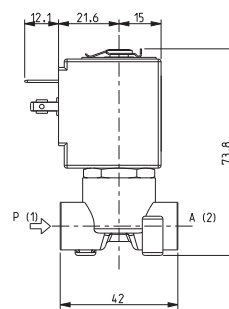
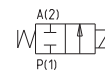
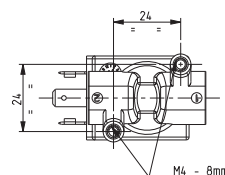
Compliant with MD 174/2004 and Reg. CE 1935/2004

NSF certified – only for L121V02



Materials in Contact with Fluid

Body	Brass
Sealing	NBR or FPM or EPDM
Internal components	Stainless steel
Seat	Brass
Core tube	Stainless steel
Shading coil	Copper



Coil		
Continuous duty	ED 100%	
Encapsulation material	PPS (Polyphenylsulfure) fiberglass reinforced	
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	1,6	0	30	30	30	30	0,09	L121V02	ZA10A	23	14	9	FPM	1	0,290						
	2,3		20	16	20	16	0,15	L121B02					NBR	1 - 2							
								L121V02					FPM	1							
								L121D02					EPDM								
	3,2		12	4	12	4	0,30	L121B02					NBR	12		NBR	-				
								L121V02					FPM			FPM					
								L121D02	EPDM	2											
	4,5		6	2	6	2	0,40	L121B02	ZA10A	23	14	9	NBR	-							
								L121V02					FPM			FPM					
								L121D02					EPDM			2					
								-	3	-	3	0,40	L121B02	ZA10G		-	-	12	NBR	-	
													L121V02						FPM		FPM
													L121D02						EPDM		2

Notes

- Sealings: NBR = Nitrile-butylene elastomer FPM = Fluoro-carbon elastomer EPDM = Ethylene-propylene elastomer
- 1 - On request special coil ZA10X, class "F", with UL approved windings - see overleaf.
- 2 - Model available on request only: ask for minimum quantity.

ASCO™

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EMERSON

SERIES L121

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Coil for Special Voltages ZA10X	
Approval	UL (Class F); see voltages
Continuous duty	ED 100%
Encapsulation material	PPS (Polyphenylsulfure) fiberglass reinforced
Coil insulation class	F (155°C)
Ambient temperature	-10°C +50°C

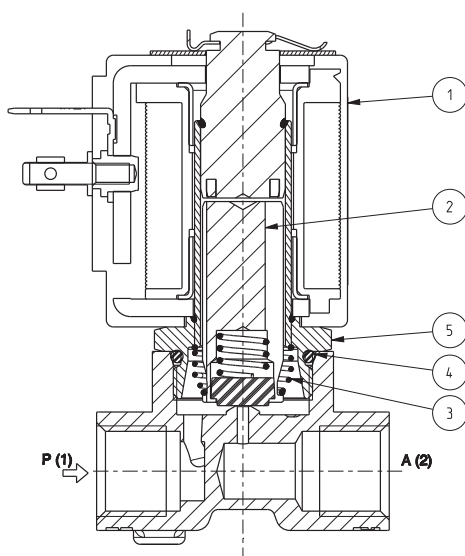
Ambient temperature		DIN 46340 - 3 poles connectors (EN175301-803)
Electric connections		IP 67 (EN 60529) with plug connector
Voltages	AC	24V/50-60Hz (UL) • 100V/50-60Hz 115-120V/60Hz • 200V/50-60Hz 220-230V/50Hz - 208-240V/60Hz (UL) 220-240V/50Hz (UL) • (+10% -15%)

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								Inrush		DC (W)			
			Gases			Liquids										
			AC	DC	AC	DC	Valve									
G 1/4	1,6	0	30	-	30	-	0,09	L121V02	ZA10X	23	14	-	FPM	-	0,290	
	2,3		16		16		0,15	L121B02					NBR	1		
	3,2		9		9		0,30	L121V02					FPM	-		
								L121D02					EPDM			
								L121B02					NBR			
								L121V02					FPM			

Notes

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Spare Parts



Kit description	Model	Kit P.N.	Consisting of:
Core kit	L121B02	G3022804	Core (with core return spring) pos. 2 OR guide assembly pos. 4
	L121V02	G3022803	
	L121D02	G3022801	
Core return spring kit		G515417001	N.10 core return spring pos. 3
OR guide assembly kit	L121B02	GU2421000017	N.10 OR guide assembly pos. 4
	L121V02	GU2424000017	
	L121D02	GU2423000017	
Guide assembly kit		G31486	Guide assembly pos. 5 Coil clip
Coil		ZA10A ZA10G ZA10X	Coil pos. 1

Installation

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

THE VALIDITY OF REPORTED DATA IS REFERRED TO THE DATE OF ISSUE. POSSIBLE UPDATES ARE AVAILABLE ON REQUEST