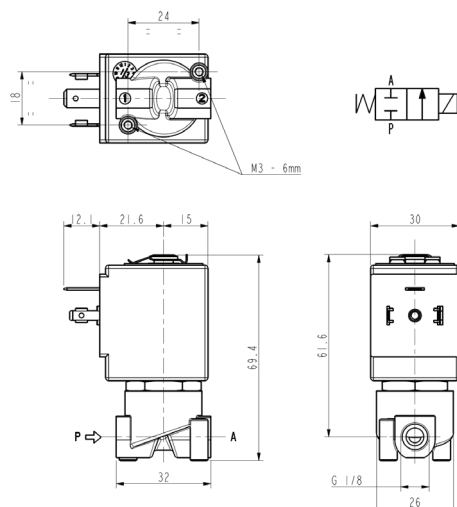


ASCO™ SOLENOID VALVE

2/2 NORMALLY CLOSED – DIRECT ACTING - G 1/8

SERIES
L120



General Features

Direct acting solenoid valve, small body size.
Suitable to shut off liquid and gaseous fluids (verify the compatibility of fluid with material in contact).

Technical Features

Maximum allowable pressure (PS)	40 bar
Opening time	~20ms
Closing time	~20ms
Fluid temperature	-10°C +170°C (RUBY) 0°C +130°C (FPM)
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



Materials in Contact with Fluid

Body	Brass
Sealing	RUBY or FPM
Internal components	Stainless steel
Seat	Brass or stainless steel
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 plug-connectors (EN175301-803)
Protection degree		IP67 (EN 60529) with plug-connector
Voltages	DC	12-24V (+10% -5%)
	AC	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												
			Gases		Liquids										
			AC	DC	AC		DC	Valve	Coil	AC (VA)					DC (W)
Inrush	Holding														
G 1/8	1,6	0	30	20	30	20	0,09	L120C01	ZA10A	23	14	9	RUBY	1 – 2 -- 3	0,260
	2,3		20	10	20	10	0,15							4 – 5 -- 6	
	1,6		30	30	30	30	0,09	L120V02					FPM	5	
	2,3		20	16	20	16	0.15								

Notes

- Sealings: RUBY=Synthetic corundum. FPM=Fluoro-carbon elastomer (complying with FDA standards)
- IMQ CSV approval, see ZA10 datasheet for further details
- The use of rigid sealings (RUBY) with gaseous fluids implies a slight leakage, generally limited with in 2 scc/min at 1 bar pressure.
- Solenoid valve with stainless steel seat, suitable for overheated water and steam.
- Only for use with steam, consider following values: max pressure 8 bar (max temperature of fluid 170°).
- Gasket between core tube and body in FPM.
- On request special coil ZA10X, class "F", with UL homologated windings – see overleaf.
- Model available on request only: ask for minimum quantity.

SERIES
L120

ASCO™ SOLENOID VALVE
2/2 NORMALLY CLOSED – DIRECT ACTING - G 1/8

Coil for Special Voltages ZA10X

Approval	UL (class F) see voltages
Continuous duty	ED 100%
Encapsulation material	PPS (Polyphenylsulfure) fiberglass reinforced
Insulation class	F (155°C)
Ambient temperature	-10°C +50°C

Electric connection		DIN 46340- 3 poles plug-connectors (EN175301-803)
Protection degree		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%)

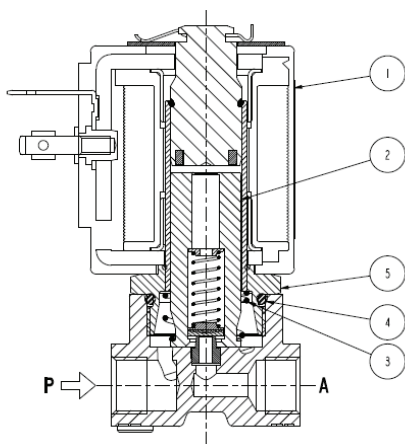
Port size ISO 228	Orifice size (mm)	Differential pressure (bar)					Kv (m³/h)	Series and type		Power absorption			Sealings	Notes	Weight (kg)
		Δp min	Δp max							AC (VA)		DC (W)			
			Gases		Liquids			Inrush	Holding						
			AC	DC	AC	DC									
G 1/8	1,6	0	30	-	30	-	0,09	L120C01	ZA10X	23	14	-	RUBY	1 – 2 -- 3 4 – 5	0,270
	2,3		20		20		0,15								
	1,6		30		30		0,09	L120V02					FPM	-	
	2,3		16		16		0,15								

Notes

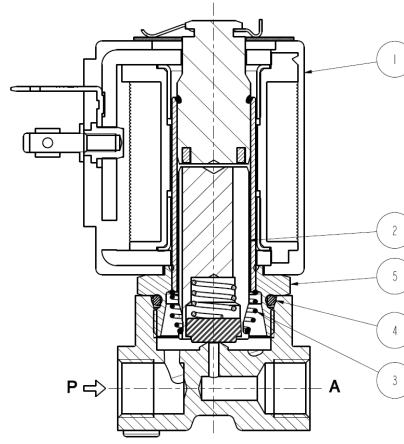
- Sealings: RUBY=Synthetic corundum. FPM=Fluoro-carbon elastomer (complying with FDA standards)
- 1 - The use of rigid sealings (RUBY) with gaseous fluids implies a slight leakage, generally limited with in 2 scc/min at 1 bar pressure.
- 2 - Solenoid valve with stainless steel seat, suitable for overheated water and steam.
- 3 - Only for use with steam, consider following values: max pressure 8 bar (max temperature of fluid 170°).
- 4 - Gasket between core tube and body in FPM
- 5 - Model available on request only: ask for minimum quantity.

Spare Parts

L120 C01



L120 V02



Kit description	Model	Kit P.N.	Consisting of:
Core kit	L120C01	G3008801	Core (with core return spring) pos. 2 OR guide assembly pos.4
	L120V02	G3022803	
Core return spring kit	L120C01	G3018901	N.10 core return spring pos. 3
	L120V02	G3022401	
OR guide assembly kit	L120C01 – V02	GU2424000017	N.10 OR guide assembly pos.4
Guide assembly kit		G31486	Guide assembly pos. 5 Coil clip
Coil		ZA10A 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