

# ASCO™ SOLENOID VALVE

## 3/2 NORMALLY CLOSED – DIRECT ACTING - SUB-BASE MOUNTING

**SERIES**  
**L334**

### General Features

Direct acting solenoid valve, designed for sub-base mounting or directly on the equipment. Inlet and outlet ports asymmetrically placed on the bottom of the body.

Valve delivered with sealing O-ring (FPM).

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

### Technical Features

Maximum allowable pressure (PS)	40 bar
Opening time	~15ms
Closing time	~15ms
Fluid temperature	-10°C +170°C (RUBY) 0°C +130°C (FPM)
Max viscosity	5°E (37 cStokes or mm²/s)

### Approvals

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

IMQ CSV approval, see ZA10 data sheet for further details

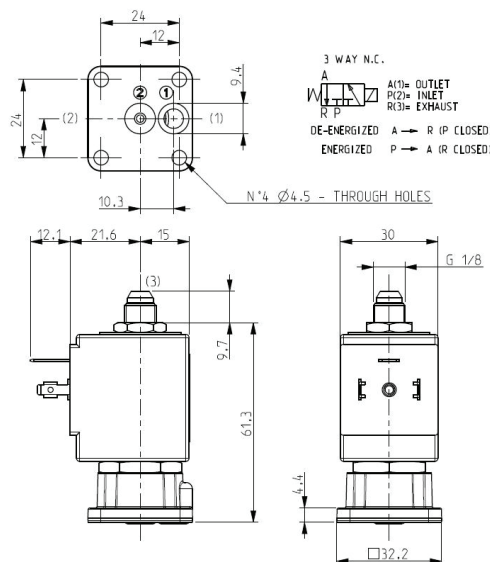
Compliant with MD 174/2004 and Reg. CE 1935/2004

NSF certified



### Materials in Contact with Fluid

Body	L334C18C/V19C: Brass L334C28C: Stainless steel
Sealing	RUBY or FPM
Internal components	Stainless steel
Seat	Stainless steel
Core tube	Stainless steel
Shading coil	Copper



Coil	
Continuous duty	ED 100%
Encapsulation material	PPS (Polyphenylsulfure) fibreglass reinforced
Insulation class	F (155°C) – on request cl.H (180°C)
Ambient temperature	-10°C +50°C
Electric connections	DIN 46340 - 3 poles plug connectors (EN175301-803)
Protection degree	IP 67 (EN 60529) with plug connectors
Voltages	DC <b>ZA10G:</b> 12-24V (+10% -5%)
	AC <b>ZA10A:</b> 24V/50Hz - 110V/50Hz (120V/60Hz) - 230V/50Hz (+10% -15%) (Other voltages and frequencies on request)

Port size	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									
-	1,5	0	13	-	13	-	0,08	L334C18C	ZA10A	23	14	-	RUBY	1-2-3-5-6	0,240
			-	13	-	13			ZA10G	-	-	12		1-2-3-5-6	
			13	-	13	-		L334C28C	ZA10A	23	14	-		1-2-3-5	
			-	13	-	13			ZA10G	-	-	12		1-2-3-5	
	1,6		13	-	13	-		L334V19C	ZA10A	23	14	-	FPM	2-4-5	
			-	13	-	13			ZA10G	-	-	12		2-4	

### Notes

- Sealings: RUBY = Synthetic corundum FPM = Fluoro-carbon elastomer
- Upper exhaust (3) with seat diameter 2,5 mm (L334C18C/C28C) and with seat diameter 2,3 mm (L334V19C).
- The use of rigid sealings (RUBY) with gaseous fluids implies a slight leakage, generally limited within 2 scc/min at 1 bar pressure.
- OR between core armature and body in FPM.
- Only for use with steam, consider following values: PSmax = 8 bar (max fluid temperature 170°C).
- Only for use with steam, consider following values: PSmax = 2,8 bar (max fluid temperature 130°C).
- On request special coils ZA10, class "F", with UL homologated windings - see overleaf.
- On request available with brass body with low lead content and lead removal treatment of the surface (L334C29C)

**SERIES**  
**L334**

**ASCO™ SOLENOID VALVE**  
**3/2 NORMALLY CLOSED – DIRECT ACTING - SUB-BASE MOUNTING**

**Coil for Special Voltages ZA10X – ZA10B**

Approval	UL (class F); see voltages
Continuous duty	ED 100%
Encapsulation material	PPS (Polyphenylsulfure) fibreglass reinforced
Coil insulation class	F (155°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	<b>ZA10B:</b> 24V (UL) • (+10% -5%)
	AC	<b>ZA10X:</b> 24V/50-60Hz (UL) • 100V/50-60Hz 115-200V/50-60Hz • 220-230V/50Hz 208-240V/60Hz (UL) • 220-240V/50Hz (UL) (+10% -15%)

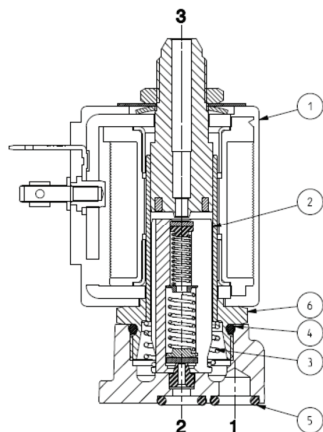
Port size	Orifice size (mm)	Differential pressure (bar)					Kv (m³/h)	Series and type		Power absorption			Sealings	Notes	Weight (kg)
		Δp min	Δp max							AC (VA)	DC (W)				
			Gases		Liquids										
			AC	DC	AC	DC		Inrush	Holding						
-	1,5	0	13	-	13	-	0,08	L334C18C	ZA10X	23	14	-	RUBY	1-2-3	0,250
			-	13	-	13			ZA10B	-	-	10			
			13	-	13	-		L334C28C	ZA10X	23	14	-			
			-	13	-	13			ZA10B	-	-	10			
	1,6	0	13	-	13	-	L334V19C	ZA10X	23	14	-	FPM	2-4		

**Notes**

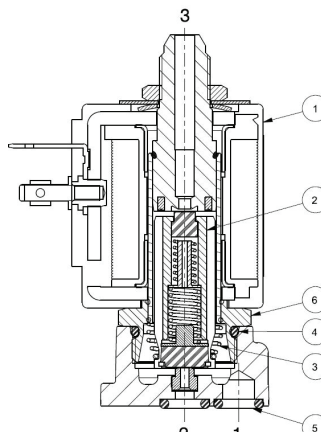
- Sealings: RUBY = Synthetic corundum FPM = Fluoro-carbon elastomer
- Upper exhaust (3) with seat diameter 2,5 mm (L334C18C/C28C) and with seat diameter 2,3 mm (L334V19C).
- 1 – The use of rigid sealings (RUBY) with gaseous fluids implies a slight leakage, generally limited within 2 scc/min at 1 bar pressure.
- 2 – OR between core armature and body in FPM (Fluoro-carbon elastomer)
- 3 – Only for use with steam, consider following values: PSmax = 8 bar (max fluid temperature 170°).
- 4 – Only for use with steam, consider following values: PSmax = 2,8 bar (max fluid temperature 130°).

**Spare Parts**

**L334 C18C/C28C**



**L334 V19C**



Kit description	Model	Kit P.N.	Consisting of:
Core kit	L334C18C/C28C	G3008701	Core pos.2
	L334V19C	G3027803	O-Ring guide assembly pos. 4
Core return spring kit	L334C18C/C28C	G3018201	N.10 core return spring pos. 3
	L334V19C	G515420001	
O-Ring guide assembly kit		GU2424000017	N.10 O-Ring guide assembly pos.4
O-Ring body kit		GU2424000007	N.10 O-Ring body pos.5
Guide assembly	L334C18C/C28C	3001701R	Guide assembly pos.6
	L334V19C	297779-001R	
Coil		ZA10A ZA10G ZA10X ZA10B	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