

# ASCO™ SOLENOID VALVE

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

**SERIES**  
**L334**

### General Features

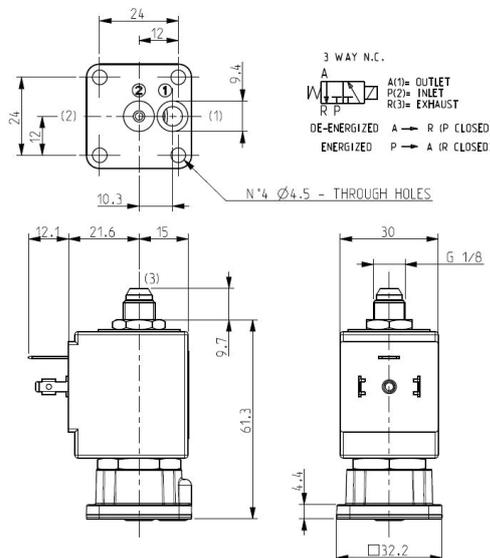
Direct acting solenoid valve, designed for sub-base mounting or directly on the equipment. Inlet and outlet ports asymmetrically placed on the bottom of the body.  
Valve delivered with sealing O-ring (FPM).  
Suitable to shut off liquid and gaseous fluids particularly suitable to shut off overheated 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				Valve	Coil	AC (VA)		DC (W)						
			AC	DC	AC				DC	Inrush					Holding		
-	1,5	0	13	-	13	-	<b>L334C18C</b>	<b>ZA10A</b>	23	14	-	RUBY	1-2-3-5-6 1-2-3-5-6 1-2-3-5 1-2-3-5	0,240			
			-	13	-	13		<b>ZA10G</b>	-	-	12						
			13	-	13	-	<b>L334C28C</b>	<b>ZA10A</b>	23	14	-						
	-		13	-	13	<b>ZA10G</b>		-	-	12							
	1,6		0	13	-	13	-	<b>L334V19C</b>	<b>ZA10A</b>	23	14				-	FPM	2-4-5 2-4
				-	13	-	13		<b>ZA10G</b>	-	-				12		

### 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)

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Coil for Special Voltages ZA10X – ZA10B	
Approval	UL (class F); see voltages
Continuous duty	ED 100%
Encapsulation material	PPS (Polyphenilsulfure) fibreglass reinforced
Coil insulation class	F (155°C)
Ambient temperature	-10°C +50°C

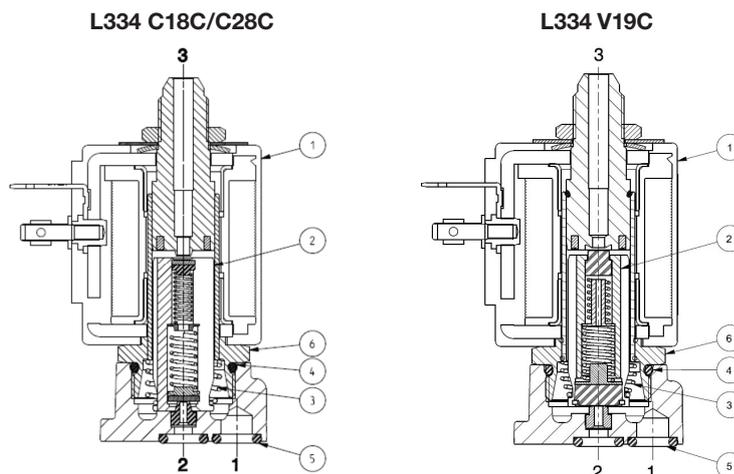
Electric connections	DIN 46340 - 3 poles connectors (EN175301-803)	
Protection degree	IP 67 (EN 60529) with plug connector	
Voltages	DC	<b>ZA10B:</b> 24V (UL) • (+10% -5%)
	AC	<b>ZA10X:</b> 24V/50-60Hz (UL) • 100V/50-60Hz 115-200V/50-60Hz • 220-230V/50Hz 208-240V/60Hz (UL) • 220-240V/50Hz (UL) (+10% -15%)

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

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- 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**



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