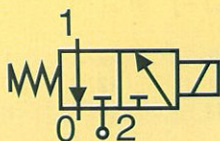


# Solenoid Valves for Automation

3/2 way - Normally Closed - Direct operated

Fittings: G = 1/8" - 1/4"

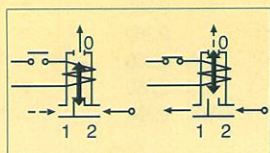
Series **141**



**N.C.**

**Normally closed**

Coil energised - open  
Coil de-energised - closed



## General description:

PARKER series **141** solenoid valves are direct operated and do not require a minimum differential pressure to operate. They are used for general applications with media such as **water, air, light oils (2°E) and inert gases**, provided they are compatible with the construction materials used.

The series **141** valves seal bubble tight. Series **141** valves are **normally closed**.

## Temperatures:

The working temperature for media is:

maximum	<b>+140°C</b>
minimum	<b>-10°C</b>

The maximum ambient temperature is:

- with class "F" coils **+50°C**
- with class "H" coils **+80°C**

## Application:

Series **141** solenoid valves are used in applications which require actuation and automatic discharge of moving systems in the following applications:

- Sterilisers;
- Espresso coffee machines;
- Air compressors;
- Diesel oil burners;
- Pilot valves;
- Polyurethane plants;
- Water treatment plants.

## Coils:

For series **141** valves class "F" coils (**155°C**) are available encapsulated in thermoplastic containing 30% glass fiber (types: ZB, YB).

Class "H" coils (**180°C**) are also available encapsulated in thermoplastic material containing 40% glass fiber (type: ZH).

All the coils are for continuous service, 100% E.D.

The rated voltage tolerance is:

- ±10% for A.C.** power supply and
- +10% -5% for D.C.**

The "Z" and "Y" coils can be used on a.c. with frequency of 50/60 Hz (dualfrequency).

The "Z" coils have Faston terminals for **DIN 43650A** connectors with protection to **IP65**.

The "Y" coil has terminals with 2 x 1,000 mm cables with protection to **IP67**.

## Installation:

The valves can be mounted in any position without jeopardising their operation. It is however advisable to install them with the coil in a vertical position above the body. The valve body has a M4 x 8 mounting hole.

## Approvals:



- Coil certification:  
**ZB 09** 24V/50-60Hz, 115V/50-60Hz  
220-230V/50-60Hz, 240V/50-60Hz

**ZB 12** 12V DC, 24V DC

**YB 09** 220-230V/50-60Hz



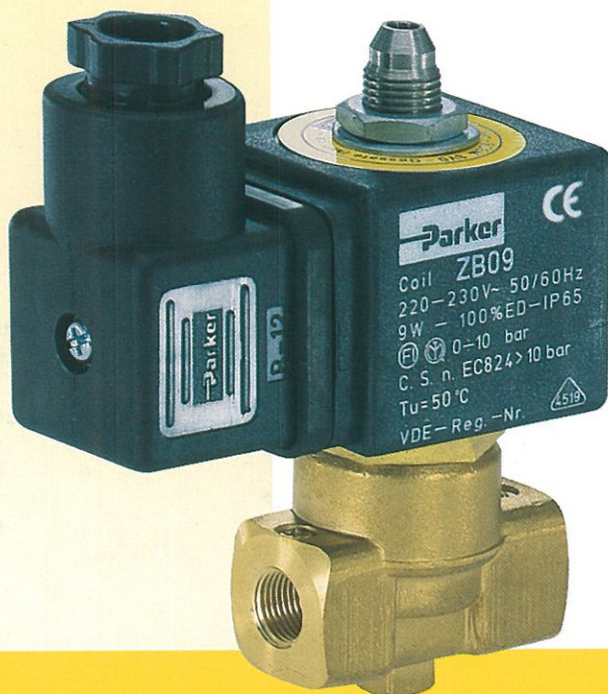
- For the coils:  
**ZB 09** 220-230V/50-60Hz, 240V/50-60Hz
- YB 09** 220-230V/50-60Hz



- UL Recognized Comp. Mark for coils:

**ZB 09** 24V/60Hz, 110-120V/60Hz,  
208-240V/60Hz

**YB 09** 24V/60Hz, 110-120V/60Hz,  
208-240V/60Hz



Series **141**



**MATERIALS**

- Valve body: OT58 UNI 5705 brass stamping
- Seals: Viton
- Enclosing tube: AISI 304 stainless steel
- Plunger: AISI 430 F stainless steel
- Spring: AISI 302 stainless steel
- Shading ring: Copper

**ELECTRICAL FEATURES**

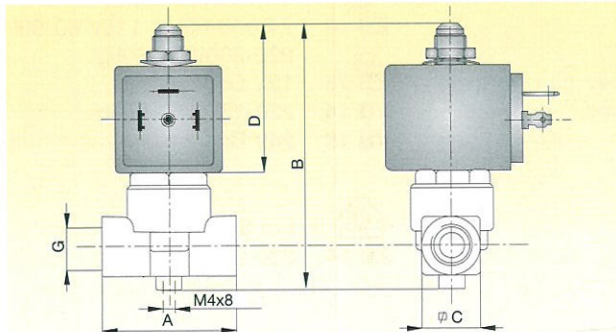
Coil type [ ]		Power [ W ]		Insulat. class
A.C.( ~ )	D.C.( = )	A.C.( ~ )	D.C.( = )	
ZB 09	ZB 12	9	12	F
YB 09	YB 12	9	12	F
ZH 14	ZH 16	14	16	H

**SPECIFICATION**

Fittings Ø G	Valve type	Nominal orifice Ø	Flow coefficient Kv	Minimum pressure	Max differential pressure (M.O.P.D.)		Coil type	Weight	Notes
[ " ]	[ ]	[mm]	[m³/h]	[bar]	in A.C.( ~ ) [bar]	in D.C.( = ) [bar]	[ ]	[Kg]	[ ]
1/8	141 A	1,5 (1,5)*	0,07	0	15	15	Z - Y	0,360	1
1/8	141 B	2,0 (2,5)*	0,12	0	10	10	Z - Y	0,360	1
1/4	141 F	2,0 (2,5)*	0,12	0	10	10	Z - Y	0,360	1
1/4	141 G	2,5 (2,5)*	0,17	0	7	7	Z - Y	0,360	1

Note: 1) NP (nominal pressure): 64 bar. 2) \* Exhaust diameter.

**DIMENSIONS**



Fittings Ø G	A	B	C	D
[ " ]	[mm]	[mm]	[mm]	[mm]
1/8	40	82,5	18	45,5
1/4	40	82,5	18	45,5

**ORDER CODE**

PM	141	V	[V] [Hz] / d.c.	
			Coil type	24 V 50/60 Hz
VALVE BODY	FITTINGS	SEAL	ZB 09	•
			ZB 12	•
			YB 09	•
			YB 12	•
			ZH 14	•
SERIES	V	Viton	ZH 16	•

Note: Valve supplied with body (PM) and coil separate. Connector to be ordered separately.