Solenoid Valves for Automation

3/2 way - Normally Closed - Direct operated

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



Series 141

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 +140°C

minimum -10°C

The maximum ambient temperature is:

• with class "F" coils +50°C

• with class "H" coils +80°C

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.

OT58 UNI 5705 brass stamping
Viton
AISI 304 stainless steel
AISI 430 F stainless steel
AISI 302 stainless steel
Copper

2) * Discharge diameter.

Coil	type	Pov [v	Insulat.	
A.C.(~)	D.C.(=)		D.C.(=)	
ZB 09	ZB 12	9	12	F
YB 09	YB 12	9	12	F
ZH 14	ZH 16	14	16	Н

Fittings Ø G	Valve type	Nominal orifice	Flow coefficient Kv	Minimum pressure	Max. dif pres (M.O	sure	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
				Late 146					
					33110			144	

Application:

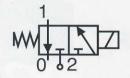
Series **141** solenoid valves are used in applications which require actuation and automatic discharge of moving systems in the following applications:

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

Installation:

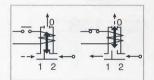
The valves can be mounted in any position without jeopardising their operation. It is however advisable to install them with the coil in a vertical position above the body. The valve body has a M4 x 8 attachment hole.

Series 141



N.C.
Normally closed

Coil energised - open
Coil de-energised - closed



Approvals:



•Coil certification:

ZB 09 24V/50-60Hz, 115V/50-60Hz

220-230V/50-60Hz, 240V/50-60Hz

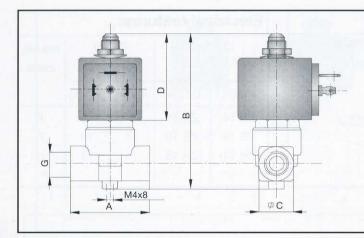
ZB 12 12V DC, 24V DC **YB 09** 220-230V/50-60Hz

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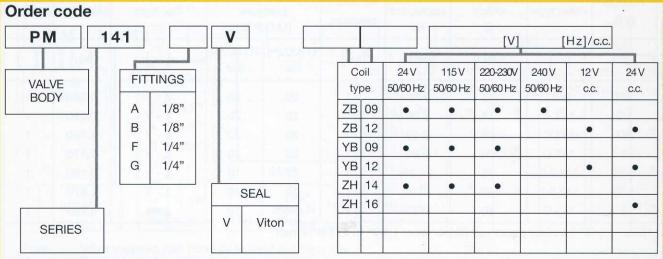
•For the coils:

ZB 09 220-230V/50-60Hz, 240V/50-60Hz

YB 09 220-230V/50-60Hz



Dimensions	3			
Fittings ØG	Α	В	С	D
["]	[mm]	[mm]	[mm]	[mm]
1/8	40	82.5	18	45.5
1/4	40	82.5	18	45.5
			190	
	101	127		
			the fall of	



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