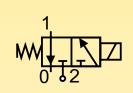
Solenoid Valves for Automation

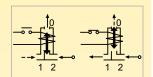
3/2 way - Normally Closed - Direct operated

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

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

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.



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

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:



• For the coils:

ZB 09 15V/50-60Hz, 220-230V/50-60Hz, 240V/50-60Hz

ZH 09 24V/50-60Hz

ZH 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. coils mark:

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

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

Series 141



for: water - air - light oils (2°E) - inert gases

• Valve body: CW617N UNI EN 12165:98 brass stamping
• Seals: Viton
• Enclosing tube: AISI 304 stainless steel
• Plunger: AISI 430F stainless steel
• Spring: AISI 302 stainless steel
• Shading ring: Copper

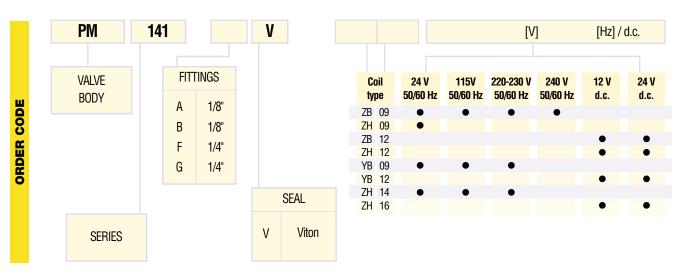
AL ES	Coil t		Pow [W	Insulat. class	
ELECTRICAL FEATURES	A.C.(~)	D.C.(=)	A.C.(~)	D.C.(=)	
별 별	ZB 09	ZB 12	9	12	F
ш —	YB 09	YB 12	9	12	F
	ZH 09	ZH 12	9	12	Н
	ZH 14	ZH 16	14	16	Н

	Fittings Ø G	Valve type	Nominal orifice Ø	Flow coefficient Kv	Minimum pressure	Max di pressure (l	fferential W.O.P.D.)	Coil type	Weight	Notes
ATION	["]	[]	[mm]	[m³/h]	[bar]	in A.C.(~) [bar]	in D.C.(=) [bar]	[]	[Kg]	[]
3	1/8	141 A	1,5 (1,5)*	0,07	0	15	15	Z-Y	0,360	1
FIC	1/8	141 B	2,0 (2,5)*	0,12	0	10	10	Z - Y	0,360	1
<u> </u>	1/4	141 F	2,0 (2,5)*	0,12	0	10	10	Z - Y	0,360	1
SPEC	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.

O MAX8

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



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



DIMENSIONS