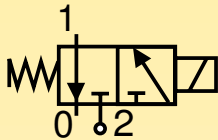


Solenoid Valves for Automation

3/2 way - Normally Closed - Direct operated

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

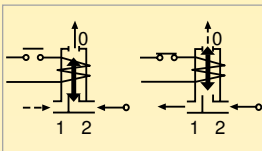
Series **141**



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 **+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.

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**

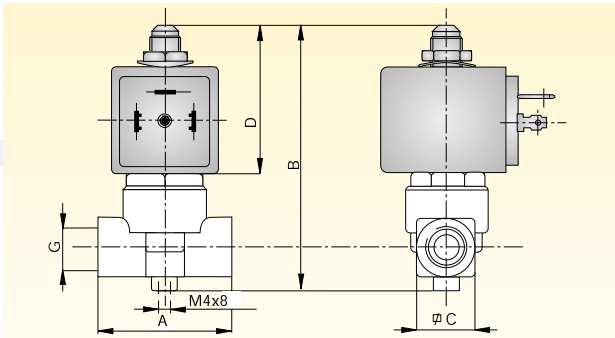
for: water - air - light oils (2°E) - inert gases

MATERIALS			Coil type []		Power [W]		Insulat. class
			A.C.(~)	D.C.(=)	A.C.(~)	D.C.(=)	
			ZB 09	ZB 12	9	12	
• Valve body:	OT58 UNI 5705 brass stamping		YB 09	YB 12	9	12	F
• Seals:	Viton		ZH 14	ZH 16	14	16	H
• Enclosing tube:	AISI 304 stainless steel						
• Plunger:	AISI 430 F stainless steel						
• Spring:	AISI 302 stainless steel						
• Shading ring:	Copper						

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.						
	VALVE BODY	FITTINGS	SEAL	Coil type	24 V 50/60 Hz	115V 50/60 Hz	220-230 V 50/60 Hz	240 V 50/60 Hz	12 V d.c.	24 V d.c.
		A 1/8" B 1/8" F 1/4" G 1/4"	V Viton	ZB 09	•	•	•	•		
				ZB 12					•	•
				YB 09	•	•	•			
				YB 12					•	•
				ZH 14	•	•	•			
				ZH 16						•

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