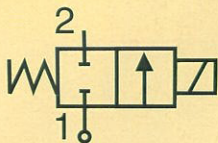


Solenoid valves for steam and high temperatures

2/2 way - Normally Closed - Direct Operated

Fittings: G = 1/8"

Series **140.2**

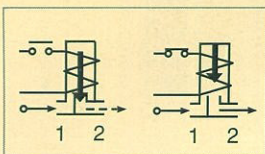


N.C.

Normally closed

Coil energised - open

Coil de-energised - closed



General description:

PARKER series 140.2 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 **steam and superheated water**.

Series 140.2 valves are **normally closed**.

Temperatures:

The working temperature for media is:

maximum	+140°C
minimum	-30°C

The maximum ambient temperature is:

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

Application:

Series 140.2 solenoid valves are particularly suitable for small flow rates of steam or superheated water.

Some typical application examples:

- Espresso coffee machines;
- Automatic dispensers;
- Sterilisers;
- Autoclaves.

Coils:

For series 140.2 valves class "F" coils (**155°C**) are available encapsulated in thermoplastic containing 30% glass fiber (types: ZB, YB) and class "H" coils (**180°C**) series are available encapsulated in thermoplastic material containing 40% of 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 a frequency of 50/60 Hz (dual frequency).

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.

Approvals:



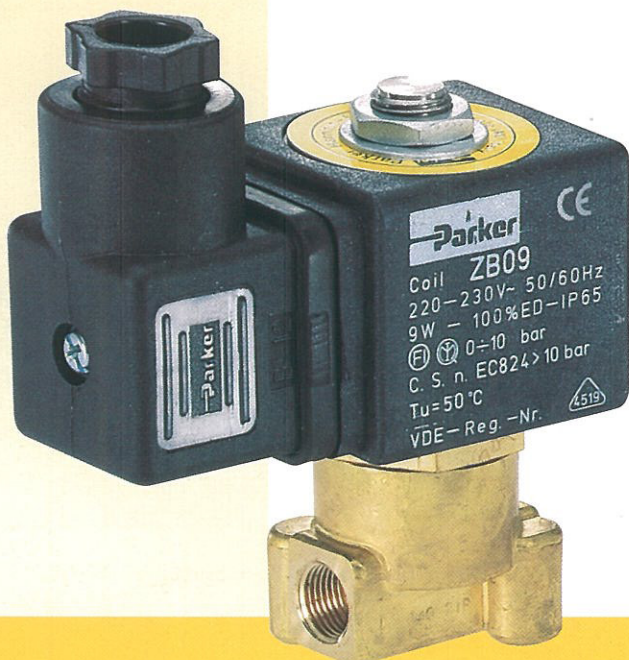
- Coil certification:
ZB 09 24V/50-60Hz, 115V/50-60Hz, 220-230V/50-60Hz, 240V/50-60Hz
YB 09 220-230V/50-60Hz



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



- UL Recognized Comp. Mark for the coils:
ZB 09 24V/60Hz, 110-120V/60Hz, 208-240V/60Hz
YB 09 24V/60Hz, 110-120V/60Hz, 208-240V/60Hz



Series **140.2**

MATERIALS

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

ELECTRICAL FEATURES

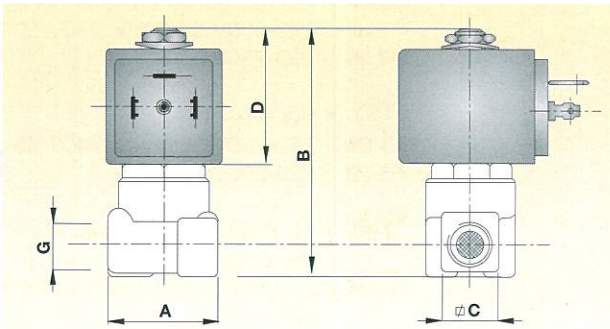
Coil type []		Power [W]		Insulat. class
A.C.(~)	D.C.(=)	A.C.(~)	D.C.(=)	
ZB 09	-	9	-	F
YB 09	-	9	-	F
ZH 14	-	14	-	H

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	140.2 HH	2,5	0,19	0	20	-	Z - Y	0,320	1
1/8	140.2 IR	2,5	0,19	0	10	-	Z - Y	0,320	1

Note: 1) NP (nominal pressure): 64 bar.

DIMENSIONS



Fittings Ø G	A	B	C	D
["]	[mm]	[mm]	[mm]	[mm]
1/8	30	68	14	37,5

ORDER CODE

PM

VALVE BODY

140.2

SERIES

SEAL

HH

EPDM

IR

Ruby

[V]

[Hz]/d.c.

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.

ZB 09

●

●

●

●

YB 09

●

●

●

ZH 14

●

●

●

Coil type

24 V / 60 Hz

110-120 V / 60 Hz

208-240 V / 60 Hz

ZB 09 UL

●

●

●

YB 09 UL

●

●

●

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