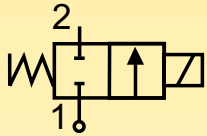


Solenoid valves for steam and high temperatures

2/2 way - Normally Closed - Direct Operated

Fittings: G = 1/8"

Series **140.2**

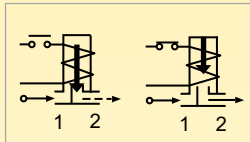


N.C.

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:



- For the coils:

ZB 09 115V/50-60Hz, 220-230V/50-60Hz, 240V/50-60Hz

ZH 09 24V/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. coils mark:

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

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



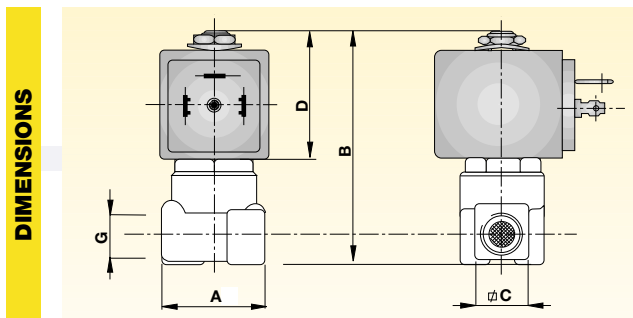
Series **140.2**

MATERIALS	• Valve body:	CW617N UNI EN 12165:98 brass stamping
	• Seals:	Ruby - EPDM
	• Enclosing tube:	AISI 304 stainless steel
	• Plunger:	AISI 430F stainless steel
	• Spring:	AISI 302 stainless steel
	• Shading ring:	Copper
	• Fitted sit:	AISI 304 stainless steel

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 09	-	9	-	H
	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.



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

ORDER CODE	PM	140.2							
	VALVE BODY								
		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 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.