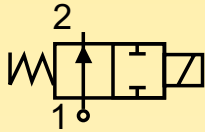


# Solenoid valves for heating

2/2 way - Normally Open - Direct Operated

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

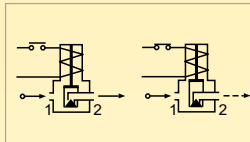
Series **120.4**



**N.O.**

**Normally open**

Coil energised - closed  
Coil de-energised - open



## General description:

PARKER series 120.4 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 **fuel oils, diesel oil or naphtha up to 7°E**, provided they are compatible with the construction materials used. Series 120.4 valves are **normally open** with inlet and outlet in line.

## Temperatures:

The working temperature for media is:

maximum **+160°C**

minimum **-30°C**

The maximum ambient temperature is:

**+60°C**

## Application:

Series 120.4 solenoid valves are ideal for automatic control of fuel oils up to 7°E on pressurised burners.

## Coils:

For series 120.4 valves class "F" coils (**155°C**) are available encapsulated in thermoplastic containing 30% glass fiber (types: ZB, YB) and class "H" coils (**180°C**) are available encapsulated in thermoplastic 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

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 14** 115V/50-60Hz, 220-230V/50-60Hz

**ZH 14** 24V/50-60Hz

**YB 14** 220-230V/50-60Hz



• For coil:

**ZB 14** 220-230V/50-60Hz



• With coil:

**ZH 14** 220-230V/50-60Hz

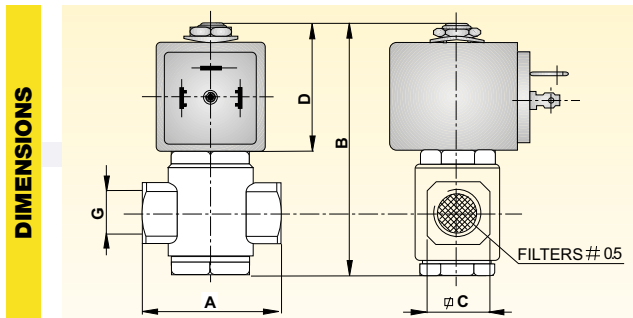
Series **120.4**

<b>MATERIALS</b>	• Valve body:	CW617N UNI EN 12165:98 brass stamping
	• Seals:	Ruby
	• 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

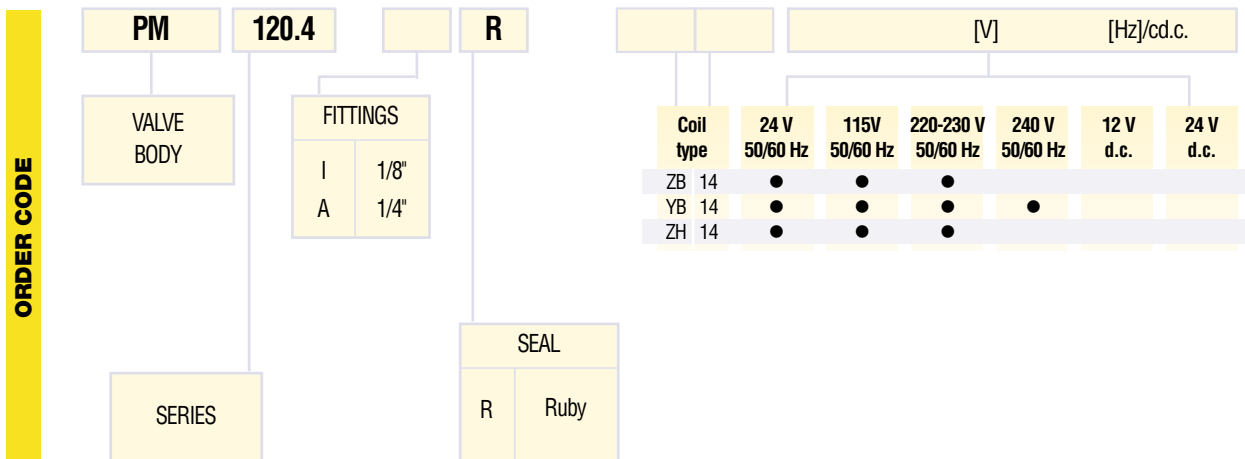
<b>ELECTRICAL FEATURES</b>	Coil type [ ]		Power [ W ]		Insulat. class
	A.C.(~)	D.C.(=)	A.C.(~)	D.C.(=)	
	ZB 14	-	14	-	F
	YB 14	-	14	-	F
	ZH 14	-	14	-	H

<b>SPECIFICATION</b>	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	120.4 I	3,0	0,24	0	30	-	Z-Y	0,350	1
	1/4	120.4 A	3,0	0,24	0	30	-	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	40	75	18	37,5
1/4	40	75	18	37,5



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