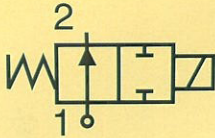


Solenoid valves for heating

2/2 way - Normally Open - Direct Operated

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

Series **120.4**

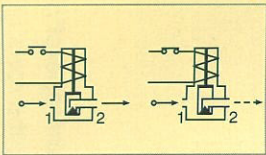


N.O.

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:



•Coil certification:

ZB 14 24V/50-60Hz, 115V/50-60Hz
220-230V/50-60Hz

YB 14 220V/50-60Hz
(IMQ pnly for 220V)



•For coil:

ZB 14 220-230V/50-60Hz



•With coil:

ZH 14 220-230V/50-60Hz



Series **120.4**

MATERIALS

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

ELECTRICAL FEATURES

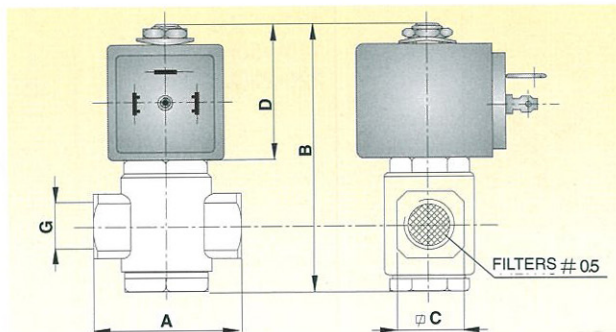
Coil type []	Power [W]		Insulat. class
	A.C.(~)	D.C.(=)	
ZB 14	-	14	F
YB 14	-	14	F
ZH 14	-	14	H

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
					in A.C.(~) [bar]	in D.C.(=) [bar]			
["]	[]	[mm]	[m³/h]	[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

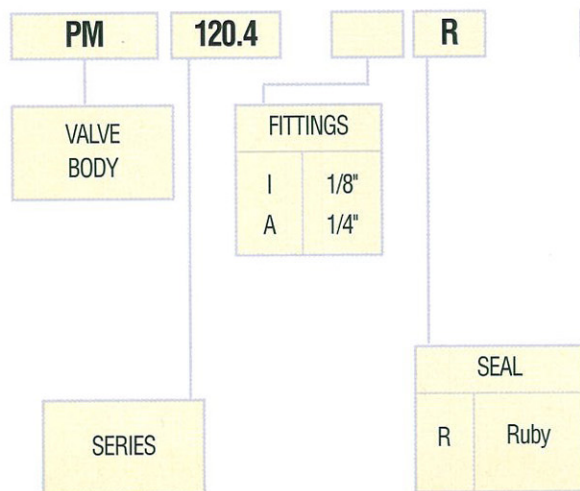
Note: 1) NP (nominal pressure): 64 bar.

DIMENSIONS



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

ORDER CODE



Coil type	[V] [Hz]/cd.c.					
	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 14	●	●	●			
YB 14	●	●	●	●		
ZH 14	●	●	●			

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