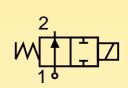
Solenoid valves for heating

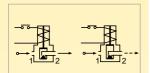
2/2 way - Normally Open - Direct Operated

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.

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

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 (dualfrequency).

The "Z" coils have Faston terminals for **DIN 43650A** connectors with protection to **IP65**. The "Y" coil has terminals with 2 \times 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**



for: fuel oils (7°E)

MATERIALS

Valve body: CW617N UNI EN 12165:98 brass stamping

· Seals: Ruby

 Enclosing tube: AISI 304 stainless steel AISI 430F stainless steel • Plunger: • Spring: AISI 302 stainless steel

• Shading ring: Copper

AISI 304 stainless steel • Fitted sit:

ELECTRICAL **FEATURES**

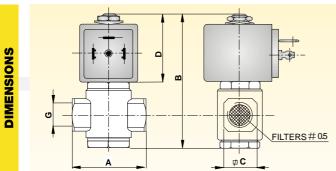
| Coil type | | Pow [W | Insulat. class | |
|-----------|-----------|------------|-------------------|---|
| A.C.(~) | D.C.(=) | A.C.(~) | D.C.(=) | |
| ZB 14 | - | 14 | - | F |
| YB 14 | - | 14 | - | F |
| ZH 14 | - | 14 | - | Н |

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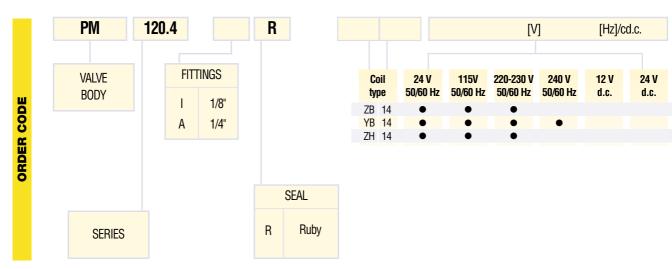
| Fittings Ø G | Valve type | Nominal orifice Ø | Flow coefficient Kv | Minimum pressure | Max di pressure (l | fferential M.O.P.D.) | Coil type | Weight | Notes |
|-----------------|---------------|-------------------|------------------------|---------------------|-----------------------|-------------------------|--------------|--------|-------|
| ["] | [] | [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.

DIMENSIONS



| Fittings Ø G | A | В | С | D |
|--------------|------|------|------|------|
| ["] | [mm] | [mm] | [mm] | [mm] |
| 1/8 | 40 | 75 | 18 | 37,5 |
| 1/4 | 40 | 75 | 18 | 37,5 |



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

