

Solenoid Valves for Automation

2/2 way - Normally Closed - Direct operated

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



Series **131.4**

General description:

PARKER series 131.4 solenoid valves are direct operated.

They are used for general applications with media such as **inert gases and light oils (2°E)**.

Series 131.4 valves are **normally closed**.

Temperatures:

The working temperature for media is:

maximum **+140°C**

minimum **-10°C**

The maximum ambient temperature is:

+50°C

Coils:

For series 131.4 valves class "F" coils (**155°C**), encapsulated in thermoplastic containing 30% glass fiber (type KT), are available.

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 "K" coil can be used on a.c. with frequency 50 Hz or 60 Hz (single frequency) and has Faston terminals for **DIN 43650A** connector with protection to **IP65**.

Materials:

- Valve body: OT58 UNI 5705 brass stamping
- Seals: Viton
- Enclosing tube: AISI 304 stainless steel
- Plunger: AISI 430 F 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.(=) | |
| KT 09 | KT 10 | 9 | 10 | F |

Specification:

| Fittings Ø R | 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 | 131.4 BV | 2.8 | 0.174 | 0 | 8 | 6 | K | 0.200 | 1 |
| 1/4 | 131.4 FV | 2.8 | 0.174 | 0 | 8 | 6 | K | 0.220 | 1 |
| 1/4 | 131.4 GV | 4.0 | 0.318 | 0 | 2 | 1 | K | 0.220 | 1 |

Note: 1) NP (nominal pressure): 10 bar

Application:

Series 131.4 solenoid valves are used for the automatic control of media where low flow rates are required.

Some examples of applications are:

- welding machines with controlled atmosphere;
- diesel oil burners;
- gas analysers;
- fumes analysers;
- distribution of light oils;
- measurement and control instruments;
- lubrication systems.

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. The valve body has 2 attachment holes diam. M4 x 7 with centre distance 13 x 13.

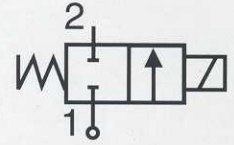
Approvals:



•Coil certification:

- KH 09** 24V/50Hz
115V/50Hz
230V/50Hz
- KT 09** 115V/50Hz
220-230V/50Hz

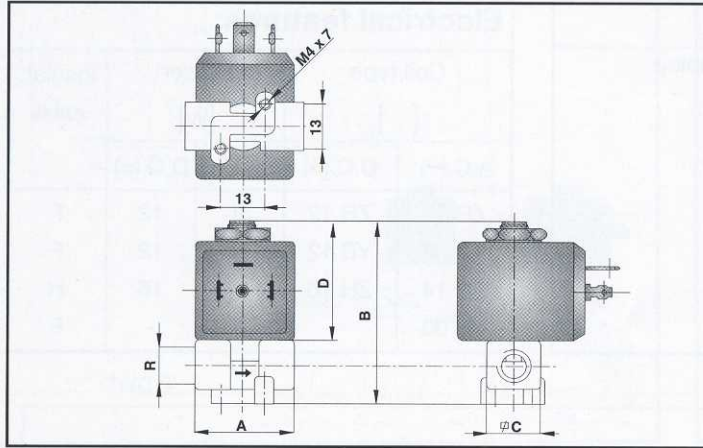
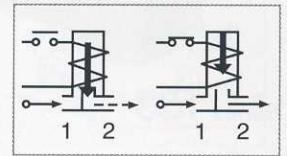
series **131.4**



N.C.

Normally closed

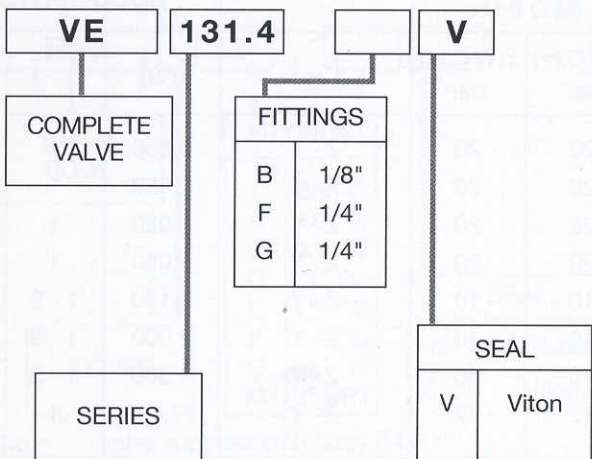
Coil energised - open
Coil de-energised - closed



Dimensions

| Fittings Ø R | A | B | C | D |
|--------------|------|------|------|------|
| ["] | [mm] | [mm] | [mm] | [mm] |
| 1/8 | 32 | 56.5 | 14 | 35.5 |
| 1/4 | 38 | 60 | 16 | 35.5 |

Order code



| Coil type | 24V | | 115V | | 220-230V | | 240V | | 12V | | 24V | |
|-----------|------|------|------|------|----------|------|------|------|------|------|------|------|
| | 50Hz | 50Hz | 50Hz | 50Hz | 50Hz | 50Hz | 50Hz | 50Hz | c.c. | c.c. | c.c. | c.c. |
| KT 09 | • | • | • | • | • | • | • | • | | | | |
| KT 10 | | | | | | | | | • | | | • |
| KH 09 | • | • | • | • | • | • | • | • | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
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Note: Valve supplied with coil in a multipack.
Connector to be ordered separately.