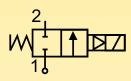
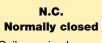
Solenoid valves for steam and high temperatures

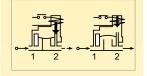
2/2 way - Normally Closed - Diaphragm pilot operated

Series 133 ... H





Coil energised - open Coil de-energised - closed



General description:

PARKER series 133H solenoid valves are diaphragm pilot operated and require a minimum differential pressure to operate. They are used for steam and superheated water where high flow rates are required. Series 133H valves are normally closed.

Temperatures:

| The working temperature for | r media is: |
|-----------------------------|--------------|
| maximum | +140°C |
| minimum | -10°C |
| The maximum ambient temp | perature is: |

• with coils in class "F" +50°C

• with coils in class "H" +80°C

Application:

Series 133 H solenoid valves are ideal for the automatic control of high temperature water and steam.

Some typical application examples:

- Steam generators;
- Sterilisation systems;
- Industrial washing machines;
- Washing systems;
- Furnaces;
- · Boiling systems;

Jarke

Autoclaves.

Fittings: G = 3/8" - 2"

Coils:

For series 133H 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% of glass fiber (ZH type). 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 (dualfrequency).

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:

| Ŋ | • | For | the | coils: |
|---|---|-----|-----|--------|
| | | | | |

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

ZH 09 24V/50-60Hz

- 12V DC, 24V DC ZH 12 YB 09 220-230V/50-60Hz



For the coils: 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





for: steam - superheated water

| LS LS | Valve body: Seals: | CW617N UNI EN 12165:98 brass stamping EPDM | AL | Coil type [] | | Power [W] | | insulat. class | |
|-----------|---|---|-----------------------|------------------|-----------|--------------|-----------|-------------------|--|
| MATERIALS | Enclosing tube: Plunger: | AISI 304 stainless steel AISI 430F stainless steel | LECTRICAL FEATURES | A.C.(~) | D.C.(=) | A.C.(~) | D.C.(=) | | |
| A | Spring: | AISI 302 stainless steel | L H | ZB 09 | ZB 12 | 9 | 12 | F | |
| 2 | Shading ring: | Copper | ᆸᄟ | YB 09 | YB 12 | 9 | 12 | F | |
| | 0 0 | | | ZH 09 | ZH 12 | 9 | 12 | Н | |
| | | | | ZH 14 | ZH 16 | 14 | 16 | Н | |

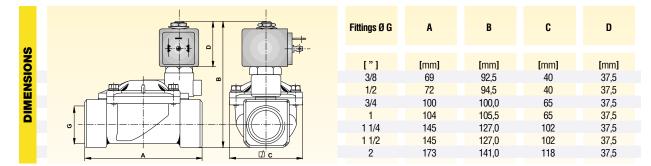
| | Fittings Ø G | Valve type | Nominal orifice Ø | Flow coefficient Kv | Minimum pressure | Max differential pressure (M.O.P.D.) | | Coil type | Weight | Notes |
|----------|-----------------|---------------|----------------------|------------------------|---------------------|--------------------------------------|-----------------------|--------------|--------|-------|
| VTION | ["] | [] | [mm] | [m³/h] | [bar] | in A.C.(~) [bar] | in D.C.(=) [bar] | [] | [Kg] | [] |
| CA | 3/8 | 133 I | 13 | 3,00 | 0,1 | 20 | 20 | Z - Y | 0,550 | 1-2 |
| FIC | 1/2 | 133 A | 13 | 3,00 | 0,1 | 20 | 20 | Z - Y | 0,580 | 1-2 |
| U | 3/4 | 133 C | 20 | 8,40 | 0,1 | 20 | 20 | Z - Y | 1,020 | 1 - 2 |
| E C | 1 | 133 D | 25 | 9,60 | 0,1 | 20 | 20 | Z - Y | 1,080 | 1-2 |
| SP | 1 1/4 | 133.2 E | 35 | 25,20 | 0,1 | 10 | 10 | Z - Y | 3,150 | 1-2 |
| | 1 1/2 | 133.2 F | 40 | 30,00 | 0,1 | 10 | 10 | Z - Y | 2,900 | 1-2 |
| | 2 | 133 G | 50 | 37,20 | 0,1 | 10 | 10 | Z-Y | 4,300 | 1 - 2 |

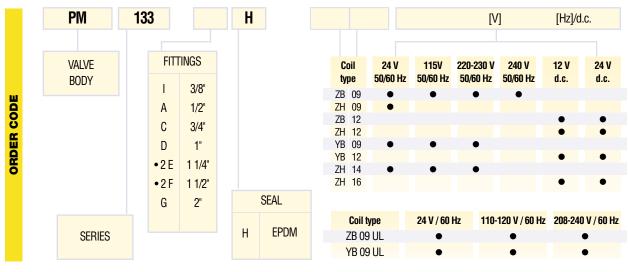
Note:

S IVIGE

1) NP (nominal pressure): 25 bar.

2) Maximum pressure for steam: 4 bar (140°C).





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

