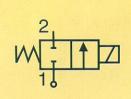
Solenoid Valves for Automation

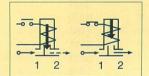
2/2 way - Normally Closed - Direct operated

Series 146



N.C. Normally closed

Coil energised - open Coil de-energised - closed



General description:

PARKER series **146** 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 water, air, light oils (2°E) and inert gases, provided they are compatible with the construction materials used. Series 146 valves are normally closed.

Temperatures:

The working temperature for media is:

maximum

+140°C -10°C

minimum

The maximum ambient temperature is:

with class "F" coils

+50°C

•with class "H" coils

+80°C

Application:

Series **146** solenoid valves are ideal for the automatic control of media in a wide range of applications such as:

- · Burglar alarm systems;
- ·Sterilisers;
- •Espresso coffee machines;
- ·Diesel oil burners;
- Shoe manufacturing machinery;
- ·Ceramic plants;
- Air dryers;
- Automatic dispensers;
- Industrial washing machines;
- ·Water massage systems;
- •Floor washing machines;
- •Welding systems;
- Machines for plastics;
- •Humidifiers.

For use with air the maximum differential pressure (MOPD) may be increased by 25%.

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Coils:

For series 146 valves class "F" coils (155°C), encapsulated in thermoplastic containing 30% glass fiber (type ZB, YB), and class "H" coils (180°C), encapsulated in thermoplastic containing 40% glass fiber (type: ZH), are available.

All the coils are for continuous service, 100% E.D.

The rated voltage tolerance is:

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

±10% for A.C. power supply and

+10% -5% for D.C.

The "Z" and "Y" coils can be used on a.c. with frequency of 50/60Hz (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:



- · Coil certification:
- **ZB 09** 24V/50-60Hz, 115V/50-60Hz, 220-230V/50-60Hz, 240V/50-60Hz
- **ZB 12** 12V DC, 24V DC
- **ZB 14** 24V/50-60Hz, 115V/50-60Hz,

220-230V/50-60Hz,

ZB 16 24V DC **YB 09** 220-230V/50-60Hz

YB 14 only voltage 220/50-60Hz

YB 16 24V DC



- For the coils:
- **ZB 09** 220-230V/50-60Hz, 240V/50-60Hz
- **ZB 14** 220-230V/50-60Hz
- YB 09 220-230V/50-60Hz



- For the model VE 146.3 ABV with coil
- **ZH 14** with voltage 220-230V/50-60Hz
- UL Recognized Comp. Mark for coils:
- **ZB 09** 24V/60Hz, 110-120V/60Hz, 208-240V/60Hz
- **YB 09** 24V/60Hz, 110-120V/60Hz, 208-240V/60Hz

Special versions:

On request and for large orders, the series **146** valves can be fitted with quick connect fittings such as **Prestolock** cartridge.

Series 146



for: water - air - light oils (2°E) - inert gases

MATERIALS

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

S	Coil t		Pow [W	Insulat.	
ECTRIC	A.C.(~)	D.C.(=)	A.C.(~)	D.C.(=)	
EE	ZB 09	ZB 12	9	12	F
EA	ZB*14	ZB*16	14	16	F
급도	YB 09	YB 12	9	12	F
	YB*14	YB*16	14	16	F
	ZH*14	ZH*16	14	16	Н

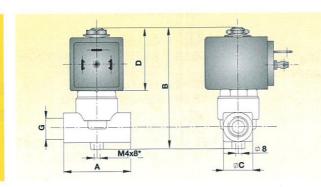
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z	Fittings Ø G	Valve type	Nominal orifice Ø	Flow coefficient Kv	Minimum pressure	Max diff pressure (M		Coil type	Weight	Notes
ICATION	["]	[]	[mm]	[m³/h]	[bar]	in A.C.(~) [bar]	in D.C.(=) [bar]	[]	[Kg]	[]
3	1/8	146 F	2,5	0,197	0	15	12	Z-Y	0,340	1
I	1/8	146 H	3,0	0,270	0	. 10	8	Z-Y	0,340	1
3	1/4	146 W	2,5	0,197	0	15	12	Z-Y	0,340	1
SPECI	1/4	146 Y	3,0	0,270	0	10	8	Z-Y	0,340	1
S	1/4	146.3 K	4,5	0,527	0	10	3	Z *- Y*	0,340	1
	1/4	146.3 AB	6,0	0,750	0	8	1	Z* - Y*	0,340	1

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

See specification table.

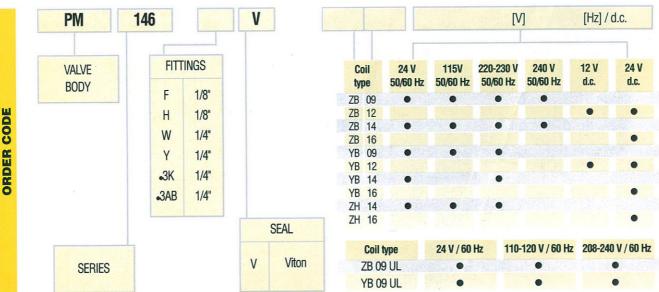
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Fittings Ø G	A	В	C	D
["]	[mm]	[mm]	[mm]	[mm]
*1/8	40,0	74,5	18	37,5
1/4	40,0	74,5	18	37,5
*1/4	40,0	74,5	18	37,5

* excluded mod. 146.3K - 146.3AB

ORDER CODE



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