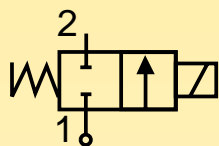


Solenoid Valves for Automation

2/2 way - Normally Closed - Direct operated

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

Series 146

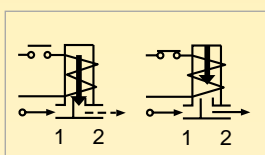


N.C.

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°C) 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**

minimum **-10°C**

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%.

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:

±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 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 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.

Parker Hannifin S.p.A.
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MATERIALS	Coil type []		Power [W]		Insulat. class
	A.C.(~)	D.C.(=)	A.C.(~)	D.C.(=)	
	ZB 09	ZB 12	9	12	
• Valve body:	OT58 UNI 5705 brass stamping				F
• Seals:	Viton				F
• Enclosing tube:	AISI 304 stainless steel				F
• Plunger:	AISI 430 F stainless steel				F
• Spring:	AISI 302 stainless steel				F
• Shading ring:	Copper				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
	["]	[]	[mm]	[m³/h]	[bar]	in A.C.(~)	in D.C.(=)	[]	[Kg]	[]
						[bar]	[bar]			
	1/8	146 F	2,5	0,197	0	15	12	Z - Y	0,340	1
	1/8	146 H	3,0	0,270	0	10	8	Z - Y	0,340	1
	1/4	146 W	2,5	0,197	0	15	12	Z - Y	0,340	1
	1/4	146 Y	3,0	0,270	0	10	8	Z - Y	0,340	1
	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.

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

* excluded mod. 146.3K - 146.3AB

ORDER CODE

PM	146		V			[V]		[Hz] / d.c.			
VALVE BODY	FITTINGS				Coil type	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.
	F	1/8"			ZB 09	•	•	•	•		
	H	1/8"			ZB 12					•	•
	W	1/4"			ZB 14	•	•	•	•		
					ZB 16						•
	Y	1/4"			YB 09	•	•	•			
					YB 12					•	•
	.3K	1/4"			YB 14	•		•			
					YB 16						•
	.3AB	1/4"			ZH 14	•	•	•			
					ZH 16						•
			SEAL		Coil type	24 V / 60 Hz		110-120 V / 60 Hz		208-240 V / 60 Hz	
SERIES			V	Viton	ZB 09 UL	•		•		•	
					YB 09 UL	•		•		•	

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