



บริษัท เอดีดี เฟอร์เนส จำกัด

ADD FURNACE CO.,LTD.

44 ซอยบรมราชชนนี 70 ถนนบรมราชชนนี แขวงศาลาธรรมสพน์ เขตทวีวัฒนา กรุงเทพฯ 10170

โทร: 02-888-3472 โทร: ออกแบบ:08-08-170-170 แฟกซ์: 02-888-3258

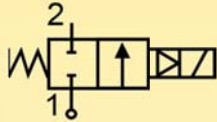
https://www.add-furnace.com E-mail: sales@add-furnace.com

Solenoid Valves for Automation

2/2 way - Normally Closed - Diaphragm assisted lift

Fittings: G = 3/8" - 1"

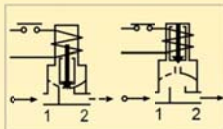
Series **123**



N.C.

Normally closed

Coil energised - open
Coil de-energised - closed



General description:

PARKER series 123 solenoid valves are diaphragm assisted lift 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 123 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 123 solenoid valves are ideal for automatic control of media for a wide range of uses which require zero or very low differential pressures.

Some examples of applications are:

- thermohydraulic systems;
- industrial dishwashers;
- hydrocleaners;
- instruments;
- metal smelting plants;
- polyurethane systems;
- closed circuits;
- environmentally-friendly systems;
- suction pad manipulators.

In vacuum applications series 123 valves can be used in a range **from 10⁻³ to 10⁻⁹ torr**.

They may be used with gases with pressures over **2,000 mm of water column**.



Coils:

For series 123 valves class "F" coils (**155°C**) are available, encapsulated in thermoplastic containing 30% glass fiber (types: ZB, YB, JB).

For models I and A, class "H" coils (**180°C**) are also 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 and
+ 10% -5% for D.C.

The "Z", "Y", "J" coils can be used on a.c. with frequency 50/60 Hz (dual frequency).

The "Z" and "J" 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:

- For the coils:

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

ZH 09 24V/50-60Hz

ZH 12 12V DC, 24V DC

YB 09 220-230V/50-60Hz

JB 14 220-230V/50-60Hz

- For the coils:

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

YB 09 220-230V/50-60Hz

- UL Recognized Comp. coils mark

ZB 09 coil, voltages:
24V/60Hz, 110-120V/60Hz, 208-240V/60Hz

YB 09 24V/60Hz, 110-120V/60Hz, 208-240V/60Hz

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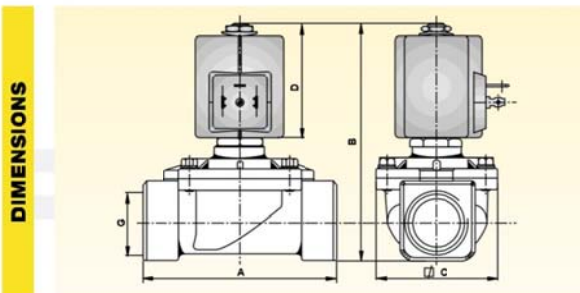
for: water - air - light oils (2°E) - inert gases

MATERIALS	• Valve body:	CW617N UN EN 12165:98 brass stamping
	• Seals:	Viton
	• Enclosing tube:	A S 304 stainless steel
	• Plunger:	A S 430F stainless steel
	• Spring:	A S 302 stainless steel
	• Shading ring:	Copper

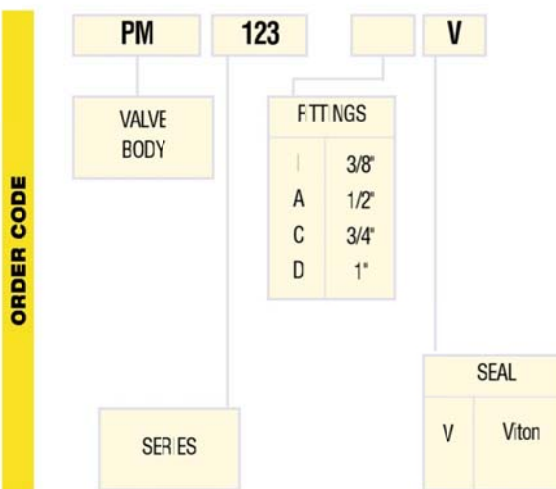
ELECTRICAL FEATURES	Coil type []		Power [W]		Insulat. class
	AC.(~)	D.C.(=)	AC.(~)	D.C.(=)	
	ZB 09	ZB 12	9	12	F
	YB 09	YB 12	9	12	F
	ZH 09	ZH 12	9	12	H
	ZH 14	ZH 16	14	16	H
	JB 14	JB 16	14	16	F

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 AC.(~) [bar]	in D.C.(=) [bar]	[]	[Kg]	[]
	3/8	123 I	13	2.40	0	5	1	Z-Y	0.510	1
	1/2	123 A	13	2.40	0	5	1	Z-Y	0.540	1
	3/4	123 C	20	6.00	0	3	1	J	1.230	1
1	123 D	25	7.00	0	3	1	J	1.300	1	

Note: 1) NP (Nominal pressure): 16 bar.



Fittings Ø G	A	B	C	D
["]	[mm]	[mm]	[mm]	[mm]
3/8	69	83	40	37.5
1/2	72	85	40	37.5
3/4	100	120	65	59
1	104	125	65	59



		[V]				[Hz] / d.c.	
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.	
ZB 09	•	•	•	•			
ZH 09	•						
ZB 12					•	•	
ZH 12					•	•	
YB 09	•	•	•				
YB 12					•	•	
ZH 14	•	•	•				
ZH 16					•	•	
JB 14	•	•	•				
JB 16					•	•	
Coil type	24 V / 60 Hz	110-120 V / 60 Hz	208-240 V / 60 Hz				
ZB 09 UL	•		•	•			
YB 09 UL	•		•	•			

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

