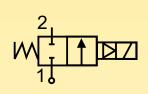
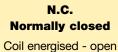
Solenoid Valves for Automation

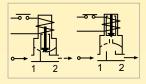
2/2 way - Normally Closed - Diaphragm assisted lift

Series 123





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:

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- •environmentally-friendly systems;
- •suction pad manipulators.

In vacuum applications series 123 valves can be used in a range from 10-3 to 10+3

torr.

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

Fittings: G = 3/8" - 1"

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 (dualfrequency).

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





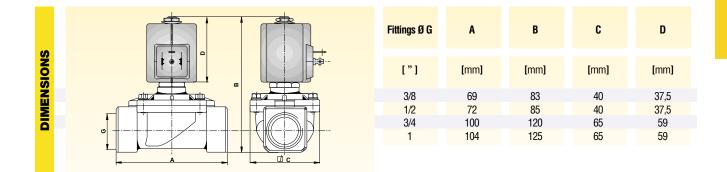
for: water - air - light oils (2°E) - inert gases

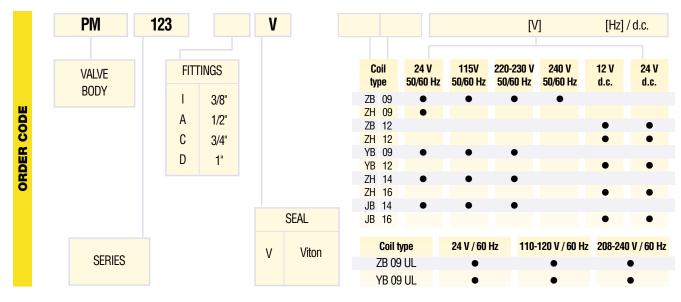
S	 Valve body: Seals: 	CW617N UNI EN 12165:98 brass stamping Viton	s IL	Coil type []		Power [W]		Insulat. class
IAL	Enclosing tube:		RICA URES	A.C.(~)	D.C.(=)	A.C.(~)	D.C.(=)	
MATER	Plunger:	AISI 430F stainless steel	ECTF	- ()	()	· · /	()	-
	Spring:	AISI 302 stainless steel	ШË	ZB 09 YB 09	ZB 12 YB 12	9	12	F
2	 Shading ring: 	Copper			ZH 12	9	12	H
				ZH 14	ZH 16	14	16	Н
				JB 14	JB 16	14	16	F

7	Fittings Ø G	Valve type	Nominal orifice Ø	Flow coefficient Kv	Minimum pressure	Max differential pressure (M.O.P.D.)		Coil type	Weight	Notes
CATION	["]	[]	[mm]	[m³/h]	[bar]	in A.C.(~) [bar]	in D.C.(=) [bar]	[]	[Kg]	[]
E	3/8	123	13	2,40	0	5	1	Z - Y	0,510	1
0	1/2	123 A	13	2,40	0	5	1	Z - Y	0,540	1
SPECI	3/4	123 C	20	6,00	0	3	1	J	1,230	1
S	1	123 D	25	7,00	0	3	1	J	1,300	1

Note:

1) NP (Nominal pressure): 16 bar.





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

