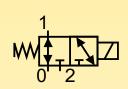
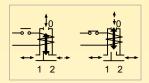
# Solenoid Valves for Automation

3/2 way - Universal - Direct operated

Series 139



Universal Solenoid valve



### **General description:**

PARKER series 139 solenoid valves are universal and may be used as normally closed, normally open and for bypass and mixer applications depending on the flow pattern chosen.

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.

Since they are direct-acting valves, they do not require a minimum differential pressure and function within the maximum differential pressure values (MOPD) indicated in the specification table.

The series 139 seal bubble tight.

## 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 139 solenoid valves are used in applications which require actuation and automatic discharge of moving systems. They enable the flow to be diverted towards a single outlet or to select one flow from two.

Some typical application examples:

- Pneumatic systems;
- Air compressors:
- •Pilot valves:
- Batch systems:
- Paper and board manufacturing machines;
- Hydrocleaners:
- Hygiene-health systems;
- Instruments;
- •Automatic dispensers.



#### Coils:

For series 139 valves class "F" coils (155°C) are available encapsulated in thermoplastic containing 30% glass fiber (types: ZB, YB).

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" 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. The valve body has a M4 x 8 mounting hole.

## **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



• 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** 24V/60Hz, 110-120V/60Hz, 208-240V/60Hz

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



Series 139



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

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

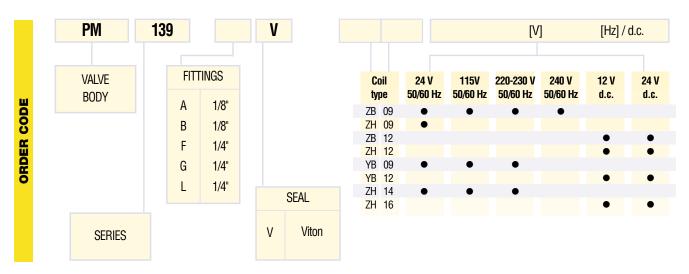
AL is	Coil t	• •	Pov [ \	Insulat. class	
ELECTRICAL FEATURES	A.C.( ~ )	D.C.( = )	A.C.( ~ )	D.C.( = )	
<b>5</b> E	ZB 09	ZB 12	9	12	F
ш —	YB 09	YB 12	9	12	F
	ZH 09	ZH 12	9	12	Н
	ZH 14	ZH 16	14	16	Н

z	Fittings Ø G	Valve type	Nominal orifice Ø	Flow coefficient Kv	Minimum pressure	Max dii pressure (I	fferential M.O.P.D.)	Coil type	Weight	Notes
CATIO	["]	[]	[mm]	[m³/h]	[bar]	in A.C.( ~ ) [bar]	in D.C.( = ) [bar]	[ ]	[Kg]	[ ]
3	1/8	139 A	1,5 (1,5)*	0,07	0	10	10	Z-Y	0,360	1
匝	1/8	139 B	2,0 (2,0)*	0,12	0	7	7	Z - Y	0,360	1
	1/4	139 F	2,0 (2,0)*	0,12	0	7	7	Z - Y	0,360	1
<u> </u>	1/4	139 G	2,5 (2,5)*	0,17	0	4	4	Z - Y	0,360	1
S	1/4	139 L	3,5 (2,5)*	0,30	0	1	1	Z - Y	0,360	1

Note: 1) NP (nominal pressure): 64 bar. 2) \* Discharge diameter.

4MAx8 A 4MAx8
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Fittings Ø G	A	В	С	D
["]	[mm]	[mm]	[mm]	[mm]
1/8	40,0	82,5	18	45,5
1/4	40,0	82,5	18	45,5



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



**DIMENSIONS**