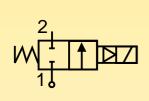
Solenoid Valves for Automation

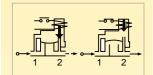
2/2 way - Normally Closed - Diaphragm pilot operated

Series 133



N.C. **Normally closed**

Coil energised - open Coil de-energised - closed



General description:

PARKER series 133 solenoid valves are diaphragm pilot operated and require a minimum differential pressure to operate. They are used for applications with high flow rates and media such as water, light oils (2°E) and others, provided they are compatible with the construction materials

Series 133 valves are normally closed.

Temperatures:

The working temperature for media is:

+90°C maximum minimum -10°C

with NBR seals (Buna N).

On request seals in Viton are available, for fittings ≤ G 1" for maximum working temperature +140°C.

The maximum ambient temperature is:

- with class "F" coils +50°C
- with class "H" coils +80°C

Application:

Series 133 solenoid valves are ideal for the automatic control of media in a wide range of applications such as:

- thermohydraulic systems;
- · autoclaves;
- cooling of machine tools;
- industrial washing plants;
- evaporation towers;
- hospital equipment;
- irrigation systems;
- fire-fighting systems;
- wood-working machines;
- marble-working machines;
- · molding machines;
- hygiene-health equipment.



For series 133 valves class "F" coils (155°C), encapsulated in thermoplastic containing 30% glass fiber (types: ZB, YB), are available.

Class "H" Coils are also available (180°C), encapsulated in thermoplastic containing 40% glass fiber (type: ZH).

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

The rated voltage tolerance is:

Fittings: G = 3/8" - 2"

±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 50/60 Hz (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.

Series 133 solenoid valves are also available in a watertight version for applications where the conditions of humidity are particularly critical (type: YE

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 12VDC, 24VDC

YB 09 220-230V/50-60Hz



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 133



for: water - light oils (2°E)

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• Valve body: CW617N UNI EN 12165:98 brass stamping

• Seals: NBR (Buna N) - Viton

Enclosing tube: AISI 304 stainless steel
Plunger: AISI 430F stainless steel
Spring: AISI 302 stainless steel

· Shading ring: Copper

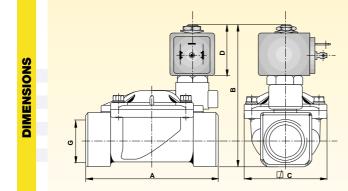
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Coil type		Pow [W	Insulat. class	
A.C.(~)	D.C.(=)	A.C.(~)	D.C.(=)	
ZB 09	ZB 12	9	12	F
YB 09	YB 12	9	12	F
ZH 09	ZH 12	9	12	Н
ZH 14	ZH 16	14	16	Н
YE 09	-	9	-	Е

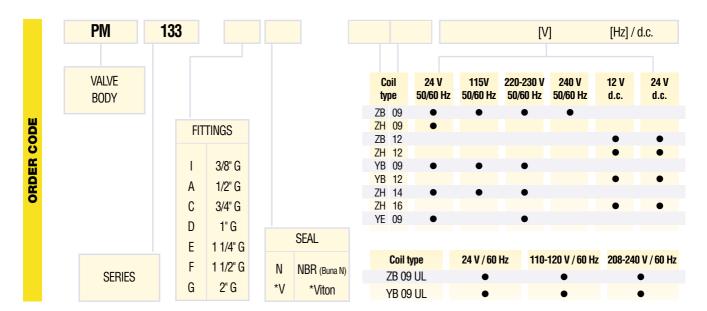
_	Fittings Ø G	Valve type	Nominal orifice Ø	Flow coefficient Kv	Minimum pressure	Max dit pressure (F	fferential M.O.P.D.)	Coil type	Weight	Notes
FICATION	["]	[]	[mm]	[m³/h]	[bar]	in A.C.(~) [bar]	in D.C.(=) [bar]	[]	[Kg]	[]
<u>3</u>	3/8	133 I	13	3,00	0,1	20	20	Z - Y	0,550	1
ഥ	1/2	133 A	13	3,00	0,1	20	20	Z - Y	0,580	1
SPEC	3/4	133 C	20	8,40	0,1	20	20	Z - Y	1,020	1
<u>a</u>	1	133 D	25	9,60	0,1	20	20	Z - Y	1,080	1
S	1 1/4	133.2 E	35	25,20	0,1	10	10	Z - Y	3,150	1 - 2
	1 1/2	133.2 F	40	30,00	0,1	10	10	Z - Y	2,900	1 - 2
	2	133 G	50	37,20	0,1	10	10	Z - Y	4,300	1-2

Note: 1) NP (nominal pressure): 25 bar (from 1 1/4 to 3" PN 16 bar).

2) Slow closure version.



Fittings Ø G - NPT	A	В	С	D
["]	[mm]	[mm]	[mm]	[mm]
3/8 G	69,0	92,5	40,0	37,5
1/2 G	72,0	94,5	40,0	37,5
3/4 G	100,0	100,0	65,0	37,5
1 G	104,0	105,5	65,0	37,5
1 1/4 G	145,0	127,0	102,0	37,5
1 1/2 G	145,0	127,0	102,0	37,5
2 G	173,0	141,0	118,0	37,5



Note: Valve supplied with body (PM) and coil separate. Connector to be ordered separately. * Optional Viton for fittings up to 1".

