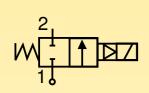
Solenoid Valves for Automation

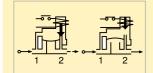
2/2 way - Normally Closed - Diaphragm pilot operated

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 -10°C minimum

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 air and inert gases they can be used for low operating frequencies.

Coils:

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:



· Coil certification:

ZB 09 24V/50-60Hz, 115V/50-60Hz, 220-230V/50-60Hz, 240V/50-60Hz

ZB 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

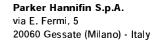


Models are 133IN,133AN

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

Series 133





for: water - light oils (2°E)

MATERIALS	Valve body:Seals:Enclosing tube:Plunger:Spring:	OT58 UNI 5705 brass stamping NBR (Buna N) - Viton AISI 304 stainless steel AISI 430 F stainless steel AISI 302 stainless steel				
Ξ		AISI 302 stainless steel				
	Shading ring:	Copper				

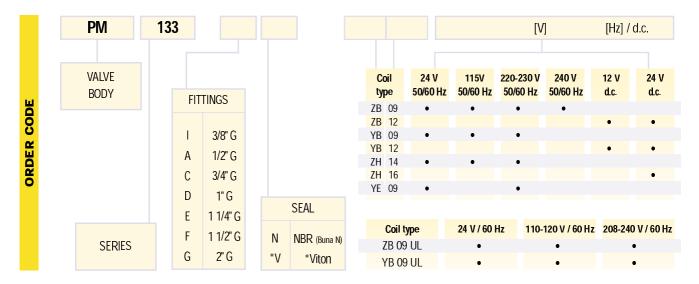
ICAL RES		Coil t		Pol	Insulat. class	
CTRIC/	1	4.C.(~)	D.C.(=)	A.C.(~)	D.C.(=)	
LEC		ZB 09	ZB 12	9	12	F
급드		YB 09	YB 12	9	12	F
_		ZH 14	ZH 16	14	16	Н
		YE 09	-	9	-	E

2	Fittings Ø G	Valve type	Nominal orifice Ø	Flow coefficient Kv	Minimum pressure	Max dit pressure (N	fferential M.O.P.D.)	Coil type	Weight	Notes
ATIO	["]	[]	[mm]	[m³/h]	[bar]	in A.C.(~) [bar]	in D.C.(=) [bar]	[]	[Kg]	[]
SPECIFICA	3/8	133	13	3,00	0,1	20	20	Z - Y	0,550	1
	1/2	133 A	13	3,00	0,1	20	20	Z - Y	0,580	1
	3/4	133 C	20	8,40	0,1	20	20	Z - Y	1,020	1
	1	133 D	25	9,60	0,1	20	20	Z - Y	1,080	1
	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.

NS		Fittings Ø G - NPT	A	В	С	D
		["]	[mm]	[mm]	[mm]	[mm]
6		3/8 G	69,0	92,5	40,0	37,5
DIMENSI		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
	A					
	A Ψ C					



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