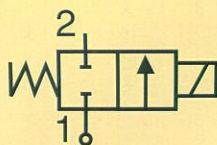


Solenoid valves for heating

2/2 way - Normally Closed - Direct Operated

Fittings: G = 3/8" - 1/2"

Series **153**

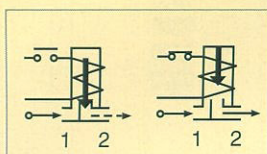


N.C.

Normally closed

Coil energised - open

Coil de-energised - closed



General description:

PARKER series 153 solenoid valves are direct operated and do not require a minimum differential pressure to operate.

They are used for general applications with media such as **fuel oils up to 2°E**.

Series 153 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 153 solenoid valves are ideal for automatic control of fuel oils up to 2°E.

Some typical application examples:

- Heating systems;
- Diesel oil distribution systems;
- Tank level control.

Coils:

For series 153 valves class "F" (155°C) coils are available encapsulated in thermoplastic containing 30% glass fiber (types: ZB, YB) and class "H" coils (180°C) are available encapsulated in thermoplastic containing 40% of 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% in D.C.**

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

The "Z" coils have Faston terminals for **DIN 43650A** connector 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:



•Coil certification:

ZB 14 24V/50-60Hz, 115V/50-60Hz
220-230V/50-60Hz

ZB 16 12V-DC, 24V-DC

YB 14 220V/50-60Hz

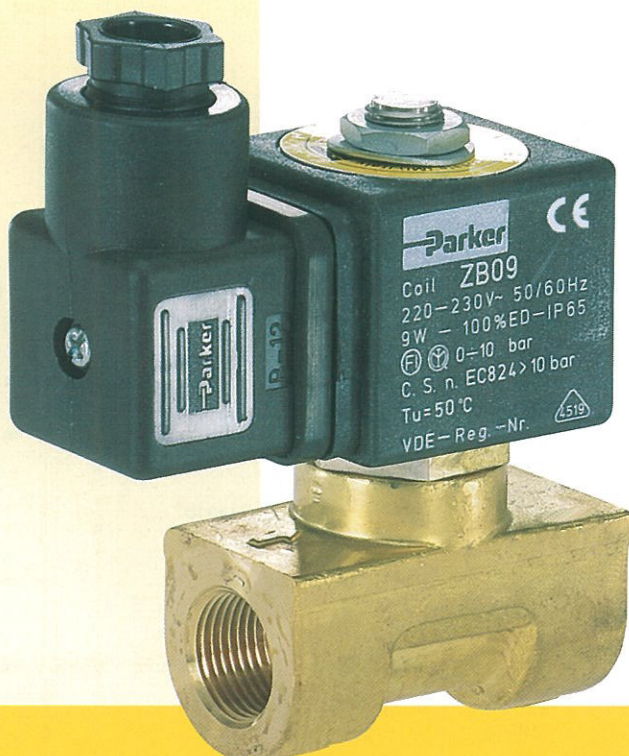
YB 16 24V-DC



•For the coil:

ZB 14 220-230V/50-60Hz

•Fire brigade approval, Home Ministry,
Fire-Fighting Research Centre.



Series **153**

MATERIALS

- Valve body: OT58 UNI 5705 brass stamping
- Seals: Viton
- Enclosing tube: AISI 304 stainless steel
- Plunger: AISI 430F stainless steel
- Spring: AISI 302 stainless steel
- Shading ring: Copper

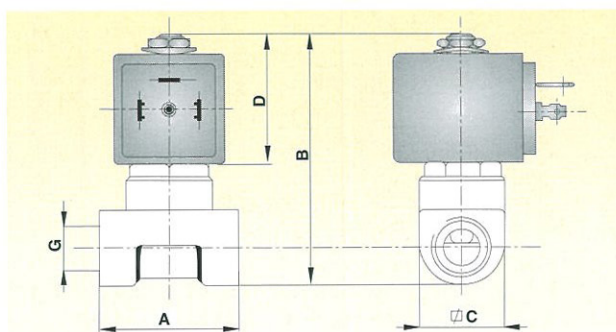
ELECTRICAL FEATURES

Coil type []		Power [W]		Insulat. class
A.C.(~)	D.C.(=)	A.C.(~)	D.C.(=)	
ZB 14	ZB 16	14	16	F
YB 14	YB 16	14	16	F
ZH 14	ZH 16	14	16	H
KP 07	-	7	-	F

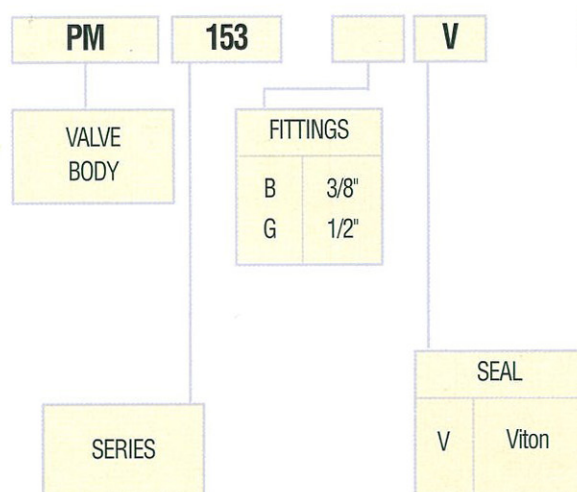
SPECIFICATION

Fittings Ø G	Valve type	Nominal orifice Ø	Flow coefficient Kv	Minimum pressure	Max differential pressure (M.O.P.D.)		Coil type	Weight	Notes
					in A.C.(~) [bar]	in D.C.(=) [bar]			
["]	[]	[mm]	[m³/h]	[bar]			[]	[Kg]	[]
3/8	153 B	5	0,612	0	2	-	K	0,390	1
1/2	153 G	5	0,612	0	2	-	K	0,350	1
3/8	153 B	5	0,612	0	5	1,5	Z-Y	0,390	1
1/2	153 G	5	0,612	0	5	1,5	Z-Y	0,350	1

Note: 1) NP (nominal pressure): 10 bar.

DIMENSIONS

Fittings Ø G	A	B	C	D
["]	[mm]	[mm]	[mm]	[mm]
3/8	53	77,5	26	37,5
1/2	53	77,5	26	37,5

ORDER CODE

Coil type	[V]					[Hz]/d.c.
	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 14	•	•	•	•		
ZB 16					•	•
YB 14			•			
YB 16					•	•
ZH 14	•	•	•			
ZH 16						•
220 V / 50 Hz						
KP 07			•			

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