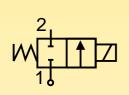
# Solenoid valves for heating

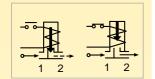
2/2 way - Normally Closed - Direct Operated

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 (dualfrequency).

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:**



For the coils:

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

**ZH 14** 24V/50-60Hz **ZH 16** 12V-DC, 24V-DC **YB 14** 220V/50-60Hz



For the coil:

**ZB 14** 220-230V/50-60Hz



Series 153



## for: fuel oils (2°E)

**MATERIALS** 

• 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

ELECTRICAL FEATURES

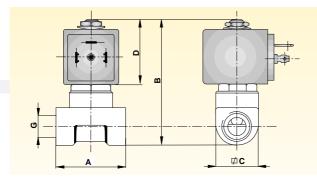
Coil type		Pow [ V	Insulat. class	
A.C.( ~ )	D.C.( = )	A.C.( ~ )	D.C.( = )	
ZB 14	ZB 16	14	16	F
YB 14	YB 16	14	16	F
ZH 14	ZH 16	14	16	Н
KP 07	-	7	-	F

SPECIFICATION

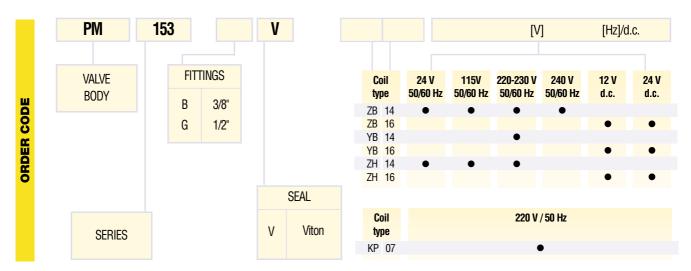
Fittings Ø G	Valve type	Nominal orifice Ø	Flow coefficient Kv	Minimum pressure	Max di pressure (I	fferential M.O.P.D.)	Coil type	Weight	Notes
["]	[ ]	[mm]	[m³/h]	[bar]	in A.C.( ~ ) [bar]	in D.C.( = ) [bar]	[ ]	[Kg]	[ ]
3/8	153 B	5	0,612	0	2	-	K	0,390	1
1/2	153 G	5	0,612	0	2	-	K	0,350	1
3/8	153 B	5	0,612	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	В	С	D
["]	[mm]	[mm]	[mm]	[mm]
3/8	53	77,5	26	37,5
1/2	53	77,5	26	37,5



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

