Solenoid valves for heating

2/2 way - Normally Closed - Direct Operated

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



Series 153

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

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

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 .

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

Coil [type]	Pov [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	(24)	F

Fittings Ø G Valve type	Ø	Flow coefficient Kv	Minimum pressure	Max. differential pressure (M.O.P.D.)		Coil type	Weight	Notes	
		[m³/h]	[bar]	in A.C.(~) [bar]	in D.C.(=) [bar]	[]	[Kg]	[]	
/8	153 B	5	0.612	0	2	2.00	K	0.390	1
/2	153 G	5	0.612	0	2	1.5	K	0.350	1
/8	153 B	5	0.612	0	5	1.5	Z - Y	0.390	1
/2	153 G	5	0.612	0	5	1.5	Z - Y	0.350	1
/2	153 G	5	0.612	0	5	1.5	Z - Y	0.350	

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1) NP (nominal pressure): 10 bar.

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.

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

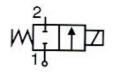
YB 16 24V-DC

•For the coil:

ZB 14 220-230V/50-60Hz

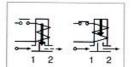
•Fire brigade approval, Home Ministry, Fire-Fighting Research Centre.

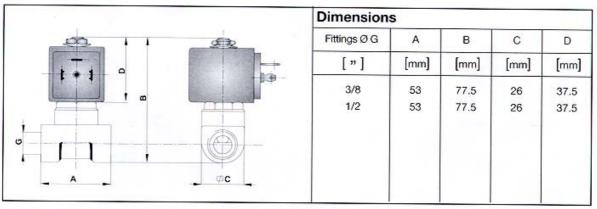
Series 153

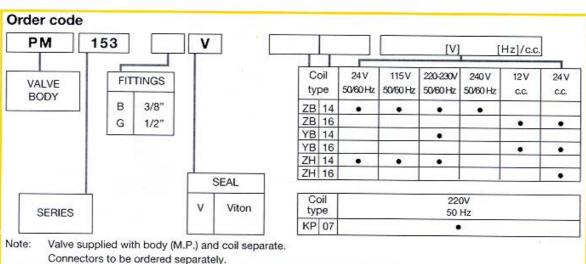


N.C. Normally Closed Coil energised - open

Coil de-energised - closed







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