# Solenoid valves for heating

2/2 way - Normally Open - Direct Operated





Series 120.4

### General description:

PARKER series 120.4 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, diesel oil or naphtha up to 7°E, provided they are compatible with the construction materials used.

Series 120.4 valves are normally open with inlet and outlet in line.

### Temperatures:

The working temperature for media is: +160°C maximum minimum -30°C

The maximum ambient temperature is: +60°C

#### Coils:

For series 120.4 valves class "F" coils (155°C) 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% glass fiber (type

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

The rated voltage tolerance is: ±10% for A.C. power supply

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 connectors with protection to IP65.

The "Y" coil has terminals with 2 x 1,000 mm cables with protection to IP67.

## Materials: · Valve body: · Seals:

OT58 UNI 5705 brass stamping

· 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	1-	14	:# E	F
YB 14	- 2	14	121	F
ZH 14	-	14	-	Н

Fittings  Valve type	Valve type	Ø	Flow coefficient Kv [m³/h]	Minimum pressure [bar]	Max. differential pressure (M.O.P.D.)		Coil type	Weight	Notes
	[ ]				in A.C.(~) [bar]	in D.C.(=) [bar]	[ ]	[Kg]	[ ]
1/8	120.41	3.0	0.24	0	30		Z - Y	0.350	1
1/4	120.4 A	3.0	0.24	0	30	7/2	Z - Y	0.320	1

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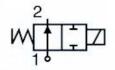
### Application:

Series 120.4 solenoid valves are ideal for automatic control of fuel oils up to 7°E on pressurised burners.

### 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.

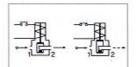
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N.O.

### Normally Open

Coil energised - closed Coil de-energised - open



Approvals:



•Coil certification:

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

220-230V/50-60Hz

YB 14 220V/50-60Hz (IMQ pnly for 220V)



ZB 14 220-230V/50-60Hz



ZH 14 220-230V/50-60Hz

