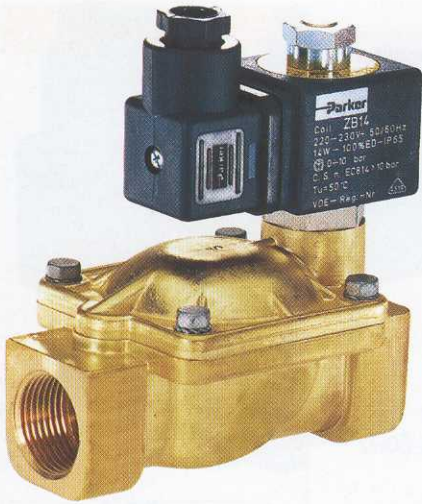


Solenoid Valves for Automation

2/2 way - Normally Open - Diaphragm pilot operated

Fittings: G = 3/8" - 2"



Series **143**

General description:

PARKER series **143** solenoid valves are diaphragm pilot operated and require a minimum differential pressure to operate.

They are used for general applications with high flow rates and media such as **water, light oils (2°E) and others**, provided they are compatible with the construction materials used.

Series **143** valves are **normally open**.

Temperatures:

The working temperature for media is:
 maximum **+90°C**
 minimum **-10°C**

with NBR seals (Buna N).

On request seals in Viton are available for fittings \leq **G 1"** and maximum working temperature **+140°C**.

The maximum ambient temperature is;

- with class "F" coils **+50°C**
- with class "H" coils **+80°C**

Coils:

For series **143** valves class "F" coils (**155°C**) are available encapsulated in thermoplastic containing 30% glass fiber (types: ZB, YB).

Class "H" coils (**180°C**) are also available encapsulated in thermoplastic containing 40% 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% for D.C.**

The "Z" and "Y" coils can be used on a.c. with frequency of 50/60Hz (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: NBR (Buna N) - Viton
- Enclosing tube: AISI 304 stainless steel
- Plunger: AISI 430 F 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

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	143 I	13	3.00	0.1	20	20	Z - Y	0.560	1
1/2	143 A	13	3.00	0.1	20	20	Z - Y	0.590	1
3/4	143 C	20	8.40	0.1	20	20	Z - Y	1.050	1
1	143 D	25	9.60	0.1	20	20	Z - Y	1.110	1
1 1/4	143.2 E	35	25.20	0.1	10	10	Z - Y	3.120	1
1 1/2	143.2 F	40	30.00	0.1	10	10	Z - Y	2.870	1
2	143 G	50	37.20	0.1	10	10	Z - Y	4.260	1

Note: 1) NP (nominal pressure): 25 bar (from 1 1/4" to 2" PN 16 bar).

