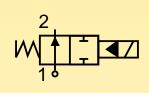
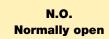
Solenoid Valves for Automation

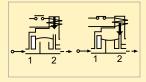
2/2 way - Normally Open - Diaphragm pilot operated

Series 143





Coil energised - closed Coil de-energised - open



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 < 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

Application:

Series 143 solenoid valves are ideal for the automatic control of media in a wide range of applications such as:

- •Thermohydraulic systems;
- •Air compressors;
- •Washing plants;
- Hvdrocleaners.

For air and inert gases they can be used for low operating frequencies.

Fittings: G = 3/8" - 3"

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.

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
 - 15V/50-60Hz, 220-230V/50-60Hz 12V DC. 24V DC
- ZH 16 220-230V/50-60Hz
- YB 14 **ZH 14** 24V/50-60Hz



For the coil: 220-230V/50-60Hz





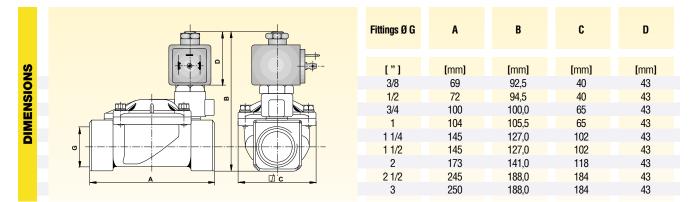


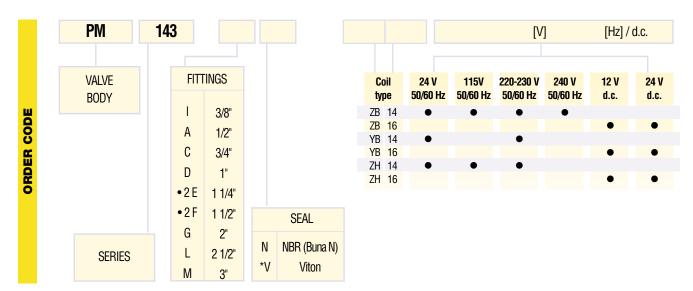
for: water - light oils (2°E)

MATERIALS	• Valve body: • Seals:	CW617N UNI EN 12165:98 brass stamping NBR (Buna N) - Viton	ECTRICAL EATURES	Coil type []		Power [W]		insulat. class
		AISI 304 stainless steel AISI 430F stainless steel		A.C.(~)	D.C.(=)	A.C.(~)	D.C.(=)	
ž	Spring:	AISI 302 stainless steel		ZB 14	ZB 16	14	16	F
	 Shading ring: 	Copper		YB 14	YB 16	14	16	F
				ZH 14	ZH 16	14	16	H

	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
NO	["]	[]	[mm]	[m³/h]	[bar]	in A.C.(~) [bar]	in D.C.(=) [bar]	[]	[Kg]	[]
	3/8	143 I	13	3,00	0,1	20	20	Z - Y	0,560	1
FICATI	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
Ö	1	143 D	25	9,60	0,1	20	20	Z - Y	1,110	1
SPE	1 1/4	143.2 E	35	25,20	0,1	10	10	Z - Y	3,120	1
S	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
	2 1/2	143 L	65	66,00	0,2	10	10	Z - Y	13,64	1
	3	143 M	75	80,00	0,2	10	10	Z - Y	11,75	1

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





Note: Valve supplied with body (PM) and coil separate. Connector to be ordered separately. * Optional Viton for fitting up to 1".

