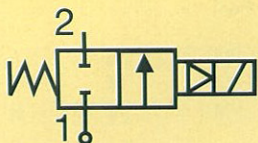


# Solenoid Valves for Automation

2/2 way - Normally Closed - Diaphragm pilot operated

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

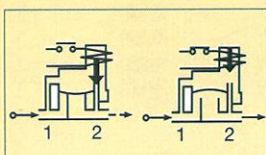
Series **173**



**N.C.**

**Normally closed**

Coil energised - open  
Coil de-energised - closed



## General description:

PARKER series 173 solenoid valves are diaphragm pilot operated and therefore require a minimum differential pressure to operate.

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

Series 173 valves are **normally closed**. They are compact, with high flow rates and low power consumption.

## Temperatures:

The working temperature for media is:

maximum **+90°C**

minimum **-10°C**

The maximum ambient temperature is:  
**+50°C**

## Application:

Series 173 solenoid valves are ideal for the automatic control of media in a wide range of applications such as:

- Computerised controls;
- Cooling systems for machine tools;
- Dry-cleaning machines;
- Autoclaves;
- Compressed air systems;
- Car wash systems;
- Hygiene-health systems;
- Tanning industry.

## Coils:

Series 173 valves are available with class "F" coils (**155°C**) with thermoplastic insulation, reinforced with 30% glassofibre.

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 "W" coil can be used on a.c. with frequency of 50/60Hz (dualfrequency) and has Faston terminals for **DIN 43650B** connectors with protection to **IP65**.

## 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:  
**WB 4,5** 115V/50-60Hz, 220-230V/50-60Hz



• For the coil:  
**WB 4,5** 115V/50-60Hz, 220-230V/50-60Hz



• UL Recognized Comp. Mark for the coil:  
**WB 4,5** 24V/60Hz, 110-120V/60Hz, 208-240V/60Hz



Series **173**

for: water - air - light oils (2°E) - inert gases

**MATERIALS**

- Valve body: OT58 UNI 5705 brass stamping
- Seals: NBR (Buna N)
- Enclosing tube: AISI 304 stainless steel
- Plunger: AISI 430 F stainless steel
- Spring: AISI 302 stainless steel
- Shading ring: Copper

**ELECTRICAL FEATURES**

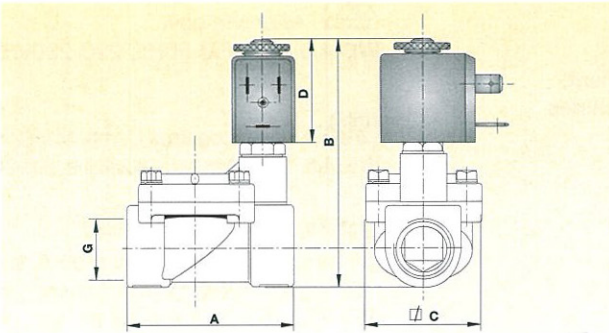
Coil type [ ]		Power [ W ]		Insulat. class
A.C.(~)	D.C.(=)	A.C.(~)	D.C.(=)	
WB 4,5	WB 5,0	4,5	5,0	F

**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
[ " ]	[ ]	[mm]	[m³/h]	[bar]	in A.C.(~) [bar]	in D.C.(=) [bar]	[ ]	[Kg]	[ ]
3/8	173 I	13	3,00	0,35	15	15	W	0,435	1
1/2	173 A	13	3,50	0,35	15	15	W	0,410	1

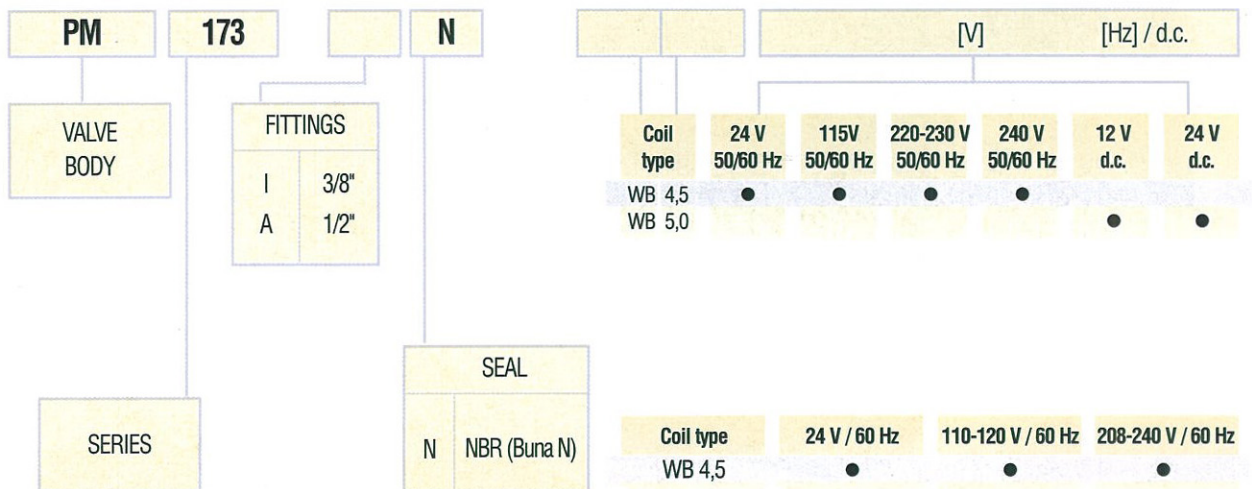
Note: 1) NP (nominal pressure): 25 bar.

**DIMENSIONS**



Fittings Ø G	A	B	C	D
[ " ]	[mm]	[mm]	[mm]	[mm]
3/8	60	86	40	36
1/2	60	86	40	36

**ORDER CODE**



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