Fluid Control Solutions for Beverage Dispensing
Low Lead Brass Series
WARNING - USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH,
PERSONAL INJURY AND PROPERTY DAMAGE.

• This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further
investigation by users having technical expertise.

• The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance,
endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry
standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or
authorized distributors.

• To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the
user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the
components or systems.
Fluid Control Solutions for Healthy Beverage Dispense

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Parker Hannifin

Parker Hannifin is the world’s leading diversified manufacturer of motion and control technologies and systems, providing precision-engineered solutions for a wide variety of commercial, mobile, industrial, life science and aerospace markets. The company’s products are vital to virtually everything that moves or requires control, including the manufacture and processing of raw materials, durable goods, infrastructure development and all forms of transport.

Fluid Control Division Europe

The Fluid Control Division in Europe (FCDE) is a division of Parker Hannifin, the global leader in motion and control technologies. FCDE core competences are the development and manufacturing of an extremely diverse range of fluid control products, including solenoid valves and pressure regulators.

Parker Fluidic Solutions (PFS) is a global designer and manufacturer of bespoke integrated system solutions. Renowned globally for solutions in high technology, fluid and motion control utilising advanced design and manufacturing techniques. PFS is focused on incorporating the best of Parker products into solutions designed for you.

History

Parker FCDE has been a leading player in the manufacturing and development of solenoid valve technologies for over 60 years, with continuous research and development bringing innovative solutions to the marketplace, for example leading the way in the utilisation of synthetic ruby for critical water applications or the unsurpassed reliability and precision of our pressure regulators. The expertise accumulated and developed through the years is evident in the superior quality of FCDE solutions.

Markets

Our products and solutions are typically designed for markets including Industrial Equipment, Industrial Automation, Mobile, Transportation, Life Sciences, Beverage dispensing and for Fluid and Process Control.

Benefits

The modular concept of our products, having separate solenoid valves and electrical parts, provides the customer with increased flexibility by allowing numerous combinations. This additional flexibility can enable distributors to greater reduce valve inventory levels, whilst retaining the same number of capabilities. Parker also has unrivalled experience in developing customised product solutions complying with the highest technical, environmental, energy and service life requirements.
Introduction

Parker Fluid Control Division Europe is your ideal partner offering the broadest range of solutions for beverage dispensers.

Thanks to Parker's extensive expertise and our dedication to innovation we are today in the position to offer a broad range of robust and exclusive solutions.

In fact, all our products have been developed in order to achieve superior performance in high demanding professional equipment.

Market segments

- Professional coffee machines
- Vending distributors for hot drinks
- Semi-professional and domestic coffee machines
- Automatic water dispensers

Applications

Typical applications in beverage dispensers are:

- Water loading control of a boiler
- Steam control
- Cold, hot and superheated water shut-off
- Cold water and steam mixing
- Steam pressure control (pressure switch)

Benefits

Parker was the first company to develop the ruby sealing system for solenoid valves. Our expertise in this technology makes our products extremely efficient against limescale build-up.

High performance and low power consumption electrical components, with a wide range of configurations and approvals are available.

The strong and robust design provides you with high reliability, minimizing the risk of failures when your equipment is operating and avoiding downtime.
Technical vocabulary

The basic technical features of each solenoid valve model are indicated in the tables with the following headings:

Port size: Fitting dimensions are defined as threaded in inches (G) or sub-base, when a flat interface for ports is adopted.

Orifice: Main orifice diameter in millimetres (nominal diameter).

Flow factors: Defined as the quantity of water, temp. between +5°C and +30°C, which flows through the solenoid valve with a pressure drop of 1 bar (100 KPa-0.1 MPa), in m³/h (cubic metres per hour) and in l/min (liters per minute).

Minimum pressure: The lowest differential pressure required for operation, in bar.

Maximum differential pressure (MOPD): The highest working differential pressure with 90% of the rated voltage (-10% Vn).

Fluid maxi. temperature: Maximum admissible temperature for the media used. In °C.

Seat disc: Material used for the seat discs.

Pressure vessel: The mechanical part of a solenoid valve.

Electrical part: Compatible electrical part reference. Our tables are indicating the most standard solution. Please refer to "Coil group" column to identify alternative electrical parts.

Power consumption: Power consumption of a specific electrical part on selected pressure vessel, rated by AC and DC, in W. Power consumption must be considered in cold condition for the coil, at TAmb: +20°C. For 481865 series, power consumption indicated in the tables must be considered in warm conditions. See also details in each electrical part description (pages 16-20).

Weight: Weight of the complete valve without accessories, in grams.

Safe body working pressure: Ref. EN 1333:2007 (PN) the maximum admissible pressure at 20°C which can be applied to the solenoid valve to check the tightness of the mechanical seals (threads, welds) and the mechanical resistance of the materials.

Coil group: Alternative electrical parts to the main one listed in the chart, having particular features (approvals, insulation classes). Please refer to electrical parts description (pages 16-20) to select alternative coils.
General description

Material specifications: A description of the materials used for each solenoid valve family.

Installation: The valves can be mounted in any position. It is however recommended to install them with the coil in vertical position above the body.

Media: These valves have been developed to achieve the best performances with cold and hot water, superheated water and steam. Within the main description of the family you will be able to find out the recommended media and application.

Electrical parts: Electrical parts compatible with each solenoid has been indicated directly in the main datasheets you will find at pages 8 to 20. Details about electrical parts specifications are available at pages 16-20. Please consult also the "How to order" section at page 22 on how to select the product configuration which fits your application requirements.

Product selection

This catalogue has been designed to make selection as easy as possible. The structure allows you to find your valve step by step, beginning with the most basic features and gradually focusing on more precise details.

To make the selection easier we have included in each valve description an indication about typical applications, like water loading and cold water control, superheated water and steam control.

In the first column you will be able to identify the port size, and proceeding you will meet all the available product solution.
Our Parker range of low lead brass solutions provides you with top-class performance as a result of the entire stainless steel structure of the valve pilots. Forged body is made in CW510L Low Lead Brass. The references listed in this page are NSF169 certified.

Compact and robust at the same time, the stainless steel nozzle included in all 32mm operated range improves valve life, endurance and resistance to lime-scale build up effect. A wide range of electrical parts can be used with this valve, including IP65 VDE and UL solutions. Typical applications include cold water loading function or hot water-steam on/off control.

Valve body: moulded brass, CW510L UNI EN 12165
Seals: FDA FKM, Ruby
Sleeve, plungers and nozzle: stainless steel

### CW510L brass body

#### Pipe mounting/flanged (SB)

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<th>Flow Factors (kV)</th>
<th>Operating Pressure Differential (Max. (MOPD) AC Bar/DC Bar)</th>
<th>Fluid Temperature (Min. °C/Max. °C)</th>
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Dimensional drawing N° 1

Dimensional drawing N° 2

Dimensional drawing N° 3

Dimensional drawing N° 4

All dimensions are in mm
The Parker range of low lead brass valves provides superior performance, resulting from the entire stainless steel structure of the valve pilots. Forged body is made of CW510L. The references listed in this page are NSF169 certified.

Compact and robust at the same time, the stainless steel nozzle included in all 32mm operated range improves valve life, endurance and resistance to lime-scale build up effect. A wide range of electrical parts can be used with this valve, including IP65 VDE and UL solutions. Typical applications include cold water loading function or hot water-steam on/off control.

**Valve body:** moulded brass, CW510L UNI EN 12165  
**Seals:** FDA FKM, Ruby  
**Sleeve, plungers and nozzle:** stainless steel

### CW510L brass body

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All dimensions are in mm
121KH series provides superior performance, resulting from the entire stainless steel structure of the valve pilots. The structure of the manual regulator is made by stainless steel, which improves reliability and offers a repetitive precision in calibration also after many regulations. A wide range of electrical parts might be used with this valve, including IP65 VDE and UL solutions.

**Fluids:** cold and hot water, within the media temperature limits  
**Valve body:** CW510L UNI EN 12165  
**Seals:** FDA FKM  
**Sleeve and plungers:** stainless steel  
**Regulation screw to adjust flow rate:** stainless steel

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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/8</td>
<td>1.5</td>
<td>0.83</td>
<td>0.05</td>
<td>15</td>
<td>15</td>
<td>FKM</td>
<td>121KH1465</td>
<td>2995</td>
<td>481865</td>
</tr>
</tbody>
</table>

**Fluids:** cold and hot water, within the media temperature limits  
**Valve body:** CW510L UNI EN 12165  
**Seals:** FDA FKM  
**Sleeve and plungers:** stainless steel  
**Regulation screw to adjust flow rate:** stainless steel

All dimensions are in mm
121WH Series - Compact
2 way valves, normally closed

121WH series is a small, compact and flexible 2/2 solution, with a robust stainless steel operator. 1/8” ports and wide range of valve orifices are available. IP65 electrical parts as well as UL/CSA recognized electrical parts may be used with this valve. The references listed in this page are NSF169 certified.

Typical applications: cold water, hot water and steam on/off control.

**Fluids:** cold and hot water, within the media temperature limits

**Valve body:** moulded brass, CW510L UNI EN 12165

**Seals:** FDA FKM

**Sleeve, plungers:** stainless steel

### CW510L brass body

#### Pipe mounting/flanged

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Orifice Ø mm</th>
<th>Flow Factors</th>
<th>Operating Pressure Differential</th>
<th>Fluid Temperature</th>
<th>Valve</th>
<th>Housing</th>
<th>Coil</th>
<th>Power</th>
<th>Coi1 Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>0.5</td>
<td>0.03</td>
<td>0</td>
<td>20</td>
<td>20</td>
<td>-10</td>
<td>140</td>
<td>FDA FKM</td>
<td></td>
</tr>
<tr>
<td>1.2</td>
<td>0.7</td>
<td>0.04</td>
<td>0</td>
<td>20</td>
<td>12</td>
<td>-10</td>
<td>140</td>
<td>FDA FKM</td>
<td></td>
</tr>
<tr>
<td>1.5</td>
<td>1</td>
<td>0.06</td>
<td>0</td>
<td>20</td>
<td>10</td>
<td>-10</td>
<td>140</td>
<td>FDA FKM</td>
<td></td>
</tr>
<tr>
<td>1.8</td>
<td>0.9</td>
<td>0.05</td>
<td>0</td>
<td>19</td>
<td>7.5</td>
<td>-10</td>
<td>140</td>
<td>FDA FKM</td>
<td></td>
</tr>
<tr>
<td>2.0</td>
<td>1.8</td>
<td>0.11</td>
<td>0</td>
<td>15</td>
<td>7</td>
<td>-10</td>
<td>140</td>
<td>FDA FKM</td>
<td></td>
</tr>
<tr>
<td>2.5</td>
<td>2.3</td>
<td>0.14</td>
<td>0</td>
<td>10</td>
<td>4</td>
<td>-10</td>
<td>140</td>
<td>FDA FKM</td>
<td></td>
</tr>
</tbody>
</table>

121WH1010 8993 481180 4 5 1.1, 1.3
121WH1012 8993 481180 4 5 1.1, 1.3
121WH1015 8993 481180 4 5 1.1, 1.3
121WH1018 8993 481180 4 5 1.1, 1.3
121WH1020 8993 481180 4 5 1.1, 1.3
121WH1025 8993 481180 4 5 1.1, 1.3

All dimensions are in mm
131WH series is a small, compact and flexible 3/2 solution, with a robust stainless steel operator. 1/8" ports and wide range of valve orifices are available. IP65 electrical parts as well as UL/CSA recognized electrical parts may be used with this valve. The references listed in this page are NSF169 certified.

Typical application: cold water, hot water and steam on/off control.

**Fluids:** cold and hot water, within the media temperature limits  
**Valve body:** moulded brass, CW510L UNI EN 12165  
**Seals:** FDA FKM  
**Sleeve, plungers:** stainless steel

## CW510L brass body

### Pipe mounting/flanged

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Orifice Ø mm</th>
<th>Flow Factors</th>
<th>Operating Pressure Differential</th>
<th>Fluid Temperature</th>
<th>Seat Seal</th>
<th>Parker Valves</th>
<th>Power</th>
<th>Coil Group</th>
<th>Dwg N°</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/8</td>
<td>1.0</td>
<td>0.5</td>
<td>0.03</td>
<td>0</td>
<td>15</td>
<td>15</td>
<td>-10</td>
<td>140</td>
<td>FDA FKM</td>
</tr>
<tr>
<td></td>
<td>1.2</td>
<td>0.7</td>
<td>0.04</td>
<td>0</td>
<td>14</td>
<td>14</td>
<td>-10</td>
<td>140</td>
<td>FDA FKM</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>1.0</td>
<td>0.06</td>
<td>0</td>
<td>8</td>
<td>8</td>
<td>-10</td>
<td>140</td>
<td>FDA FKM</td>
</tr>
<tr>
<td></td>
<td>1.8</td>
<td>1.2</td>
<td>0.07</td>
<td>0</td>
<td>6</td>
<td>6</td>
<td>-10</td>
<td>140</td>
<td>FDA FKM</td>
</tr>
<tr>
<td></td>
<td>2.0</td>
<td>1.5</td>
<td>0.09</td>
<td>0</td>
<td>5</td>
<td>5</td>
<td>-10</td>
<td>140</td>
<td>FDA FKM</td>
</tr>
<tr>
<td></td>
<td>2.5</td>
<td>2.3</td>
<td>0.14</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>-10</td>
<td>140</td>
<td>FDA FKM</td>
</tr>
</tbody>
</table>

* 1.3 Coil group solution applicable in AC voltages only

---

131WH Series - Compact  
3 ways, normally closed

Parker Hannifin Corporation  
Fluid Control Division Europe  
Low Lead Brass Catalogue FCDE/5502/UK/V1.0
Housing

Housing for 22 mm coil

Composed of a nameplate with the details of the valve type, a washer and a nut to secure the 22 mm coil to the valve.

<table>
<thead>
<tr>
<th>Reference</th>
<th>Specification</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>8993</td>
<td>Standard - aluminium nameplate - passivated washer and nut - pressure indication in [bar]</td>
<td>Compact valves 121WH/131WH Series</td>
</tr>
</tbody>
</table>

Housing for 32 mm coil

Composed of a nameplate giving details of the valve type, a round washer and a nut to ensure the fixing between 32 mm coil and the valve.

<table>
<thead>
<tr>
<th>Reference</th>
<th>Specification</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>2995</td>
<td>Standard - aluminium nameplate - passivated iron washer and nut - pressure indication in [bar]</td>
<td>ZH, FH and KH valve families</td>
</tr>
</tbody>
</table>
**Electrical parts**

**481865/483510 Series**

These coils can be mounted with every Parker solenoid valves corresponding to the specified coil group. See column "Coil Group" valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc. Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive 2014/35/EU.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Standard</th>
<th>Double frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference (without DIN plug)</td>
<td>481865</td>
<td>483510</td>
</tr>
<tr>
<td>Coil group</td>
<td>2.0 / 2.1</td>
<td></td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP65</td>
<td></td>
</tr>
<tr>
<td>Class of insulation</td>
<td>F 155°C</td>
<td></td>
</tr>
<tr>
<td>Electrical connection</td>
<td>The coil is connected with a 2 P + E plug according to EN 175301-803 type A</td>
<td></td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>The application is limited also by the temperature range of the valve</td>
<td></td>
</tr>
<tr>
<td>Elect. Power</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC Pn (hot)</td>
<td>9 W</td>
<td></td>
</tr>
<tr>
<td>P (cold) 20°C</td>
<td>12 W</td>
<td></td>
</tr>
<tr>
<td>AC Pn (holding)</td>
<td>8 W</td>
<td>9 W</td>
</tr>
<tr>
<td>Attraction cold</td>
<td>26 VA (9 W)</td>
<td>32 VA (10 W)</td>
</tr>
<tr>
<td>Weight</td>
<td>130 g (without plug)</td>
<td></td>
</tr>
<tr>
<td>Voltages &quot;Un&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-10% to +10% of the Un</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VAC/Hz Code</td>
<td>24/50</td>
<td>P0</td>
</tr>
<tr>
<td></td>
<td>110/50</td>
<td>S5</td>
</tr>
<tr>
<td></td>
<td>220-230/50</td>
<td>S6</td>
</tr>
<tr>
<td>VDC Code</td>
<td>A2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3D</td>
<td></td>
</tr>
<tr>
<td>VAC/Hz Code</td>
<td>24/50, 24/60</td>
<td></td>
</tr>
<tr>
<td></td>
<td>110-115/50, 120/60</td>
<td></td>
</tr>
<tr>
<td></td>
<td>220-240/50, 240/60</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>C2</td>
<td>P0</td>
</tr>
</tbody>
</table>

To order a coil choose Coil Ref + Voltage Code, example: 481865 for 24 VDC = 481865C2

These coils must be used with suitable housing 2995.
491514 Series - UL recognized

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group. See column "Coil Group" valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive 2014/35/EU.

DIN plug connector to be ordered separately (see coil accessories section).

<table>
<thead>
<tr>
<th>Specification</th>
<th>UL-recognized coil - UL File E200N - designation AMIF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ref. (without DIN plug)</td>
<td>491514</td>
</tr>
<tr>
<td>Coil group</td>
<td>2.0 / 2.1</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP65 according to IEC / EN 60529 standards (with DIN plug)</td>
</tr>
<tr>
<td>Class of insulation</td>
<td>F 155°C</td>
</tr>
<tr>
<td>Electrical connection</td>
<td>The coil is connected with a 2 P + E plug according to EN 175301-803 type A</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>-40°C to +50°C</td>
</tr>
<tr>
<td>DC Pn (hot)</td>
<td>-</td>
</tr>
<tr>
<td>AC Pn (cold) 20°C</td>
<td>-</td>
</tr>
<tr>
<td>AC Pn (holding)</td>
<td>11 W</td>
</tr>
<tr>
<td>attraction cold</td>
<td>40 VA (13 W)</td>
</tr>
<tr>
<td>Weight</td>
<td>130 g (without plug)</td>
</tr>
<tr>
<td>Voltages “Un”</td>
<td>VAC/Hz Code</td>
</tr>
<tr>
<td>- 15% to +10% of the Un</td>
<td>P3 Q3 24 C</td>
</tr>
</tbody>
</table>

To order a coil choose Coil Ref + Voltage Code, example: 491514 for 24 VDC = 491514C2

These coils must be used with suitable housing 2995.
These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group. See column "Coil Group" valve pages.

This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive 2014/35/EU.

<table>
<thead>
<tr>
<th>Specification</th>
<th>High temperature</th>
<th>High temp. + high power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference (without DIN plug)</td>
<td>492453</td>
<td>492425</td>
</tr>
<tr>
<td>Coil Group</td>
<td>2.0 / 2.1</td>
<td>2.0 / 2.2</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP65 according to IEC / EN 60529 standards (with DIN plug)</td>
<td></td>
</tr>
<tr>
<td>Class of insulation</td>
<td>H 180°C</td>
<td></td>
</tr>
<tr>
<td>Electrical connection</td>
<td>The coil is connected with a 2 P + E plug according to EN 175301-803 type A</td>
<td></td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>-40°C to +50°C</td>
<td></td>
</tr>
<tr>
<td>Elect. Power</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pn (hot)</td>
<td>9 W</td>
<td>14 W</td>
</tr>
<tr>
<td>P (cold) 20°C</td>
<td>12 W</td>
<td>21 W</td>
</tr>
<tr>
<td>AC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pn (holding)</td>
<td>8 W</td>
<td>14 W</td>
</tr>
<tr>
<td>Attraction cold</td>
<td>26 VA (9 W)</td>
<td>55 VA (18 W)</td>
</tr>
<tr>
<td>Weight</td>
<td>130 g (without plug)</td>
<td></td>
</tr>
<tr>
<td>Voltages &quot;Un&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-10% to +10% of the Un</td>
<td>VAC/Hz Code VDC Code</td>
<td>VAC/Hz Code VDC Code</td>
</tr>
<tr>
<td>24/50</td>
<td>A2</td>
<td>24</td>
</tr>
<tr>
<td>110/50</td>
<td>A5</td>
<td>24</td>
</tr>
<tr>
<td>220/50-230/50</td>
<td>3D</td>
<td>24</td>
</tr>
</tbody>
</table>

To order a coil choose Coil Ref + Voltage Code, example: 492453 for 24 VDC = 492453C2

These coils must be used with suitable housing 2995.
481180 Series

These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group. See column "Coil Group" valve pages.

This coil is designed for valves equipped with a miniature tube assembly (2000 series valves). This is an encapsulated assembly comprising a coil, integral magnetic iron path and snap-on plug connection.

The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Ease of mounting in confined space - offers shock and corrosion protection - simplifies conversion of existing equipment to other requirements, etc.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive 2014/35/EU.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference (without DIN plug)</td>
<td>481180</td>
</tr>
<tr>
<td>Coil group</td>
<td>1.1</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP65 according to IEC / EN 60529 standards (with DIN plug)</td>
</tr>
<tr>
<td>Class of insulation</td>
<td>F 155°C</td>
</tr>
<tr>
<td>Electrical connection</td>
<td>The coil is connected with a 2 P + E plug according to EN 175301-803 type A</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>The application is limited also by the temperature range of the valve</td>
</tr>
<tr>
<td>Elect. Power</td>
<td></td>
</tr>
<tr>
<td>DC</td>
<td></td>
</tr>
<tr>
<td>Pn (hot) 5 W</td>
<td></td>
</tr>
<tr>
<td>P (cold) 20°C 6.5 W</td>
<td></td>
</tr>
<tr>
<td>AC</td>
<td></td>
</tr>
<tr>
<td>Pn (holding) 4 W</td>
<td></td>
</tr>
<tr>
<td>Attraction cold 8.9 VA (5W)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>100 g (with plug)</td>
</tr>
<tr>
<td>Voltages &quot;Un&quot;</td>
<td></td>
</tr>
<tr>
<td>VAC/Hz</td>
<td>Code</td>
</tr>
<tr>
<td>-15% to +10% of the Un</td>
<td></td>
</tr>
<tr>
<td>110/50-115/50</td>
<td>A2</td>
</tr>
<tr>
<td>220/50-230/50</td>
<td>0A</td>
</tr>
<tr>
<td></td>
<td>3D</td>
</tr>
</tbody>
</table>

To order a coil choose Coil Ref + Voltage Code, example: C2 for 24 VDC = 481180C2

These coils must be used with suitable housing 8993.
These coils can be mounted with every Parker solenoid valves corresponding to the specified Coil Group. See column "Coil Group" valve pages.

Coil manufactured with H class copper wire, moulded in thermoplastic material polyester with 30% glass fiber. IP65 protection rate with EN 175301-803 - Type A three pin connector and appropriate gasket. The synthetic material encapsulation provides an effective compact housing, offering full protection against dust, oil, water, etc.

Coils conform to the IEC/CENELEC safety standards and complies with European low-voltage directive 2014/35/EU.

For UL recognized version: UL file MH19410 DIN plug connector to be ordered separately (see coil accessories section).

<table>
<thead>
<tr>
<th>Specification</th>
<th>Standard</th>
<th>UL recognized version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference (without DIN plug)</td>
<td>WB4.5 for AC WB5.0 for DC</td>
<td>WB4.5 cULus WB5.0 cULus</td>
</tr>
<tr>
<td>Coil Group</td>
<td>1.3</td>
<td></td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP65 according to IEC / EN 60529 standards (with DIN plug + gasket)</td>
<td>F 155°C</td>
</tr>
<tr>
<td>Class of insulation</td>
<td>F 155°C</td>
<td>F 155°C</td>
</tr>
<tr>
<td>Electrical connection</td>
<td>The coil is connected with a 2 P + E plug according to EN 175301-803 type B</td>
<td></td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>-10°C to +50°C</td>
<td>-10°C to +50°C</td>
</tr>
<tr>
<td>Elect. Power DC P (cold) 20°C</td>
<td>5 W</td>
<td>-</td>
</tr>
<tr>
<td>Elect. Power AC Pn (holding)</td>
<td>4.5 W</td>
<td>4.5 W</td>
</tr>
<tr>
<td>Weight</td>
<td>90 g (without plug)</td>
<td></td>
</tr>
<tr>
<td>Voltages &quot;Un&quot;</td>
<td>WB4.5 VAC/Hz</td>
<td>WB4.5 UR VAC/Hz</td>
</tr>
<tr>
<td>-10% to +10% of Un for AC</td>
<td>24/50-60 115/50-60 230/50-60</td>
<td>115/60 208-240/60 24/60</td>
</tr>
<tr>
<td>- 5% to + 10 % for Un DC</td>
<td>22 16.3</td>
<td>22 32.5</td>
</tr>
</tbody>
</table>

This coil does not require housings if ordered together with the valve.
Accessories

Coil accessories

**DIN PLUG CONNECTOR ACCORDING TO EN 175301-803 -B**

Part number No. 600040

Max A: 16 A
Cable section: 6 - 8 mm²
Nominal voltage: 250-/300 V=
Dimensional drawing N°13

---

**DIN PLUG CONNECTOR ACCORDING TO EN 175301-803 - A**

Part number No. 600003PLUG

Max A: 16 A
Cable section: 6-10 mm²
Nominal voltage: 250-/300 V =
Dimensional drawing N°14

---

All dimensions are in mm

Parker Hannifin Corporation
Fluid Control Division Europe
Low Lead Brass Catalogue FCDE/5502/UK/V1.0
How to order

To order a complete solenoid valve, please select the 3 elements following the procedure below.

**Step 1**

Select the pressure vessel reference needed on pages 8-14.

**Step 2**

Select housing on page 15.

**Step 3**

Select coil on page 16.

Note: WB coil series does not require housing if ordered together with the valve.

**Step 4**

Select accessories on page 21.

Complete valve example:

121ZH1015-2995-481865C2

**Ordering a product or a configuration not listed in the catalogue.**

When an application demands a combination of features not listed in the catalogue, please feel free to contact the closest Parker office. Parker personnel will assist you in determining the applicability availability and price of the new product.
At Parker, we’re guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further information call 0800 27 27 5374.

Fluid & Gas Handling
Key Markets:
- Agriculture
- Food & beverage
- Power generation
- Nuclear Power
- Microelectronics
- Medical & dental
- Marine & shipbuilding
- Life science & medical
- General & business aviation
- Aerospace
- Industrial plant & equipment
- Chemical processing
- Consumer
- Oil & gas
- Power generation
- Renewables energy
- Telecommunications
- Transportation

Key Products:
- Tubing & plastic fittings
- Rubber & thermoplastic hose
- PTFE hose & tubing
- Power cables
- Industrial hose
- Hose couplings
- Deep sea umbilicals
- Check valves
- Fluid & gas handling

Hydraulics
Key Markets:
- Aerospace
- Agriculture
- Bulk chemical handling
- Construction machinery
- Food & beverage
- Fuel & gas delivery
- Marine
- Mining
- Mobile
- Oil & gas
- Renewable energy
- Transportation

Key Products:
- Check valves
- Connectors for low pressure fluid systems
- Fluid conveyance systems & components
- Fluid metering systems & components
- Fuel systems & components
- Fuel tank systems
- Hydraulic systems & components
- Thermal management
- Wheels & brakes

Aerospace
Key Markets:
- Aircraft services
- Commercial transports
- Engines
- General & business aviation
- Helicopters
- Launch vehicles
- Military aircraft
- Missiles
- Power generation
- Regional transports
- Unmanned aerial vehicles

Climate Control
Key Markets:
- Air conditioning
- Construction/Machinery
- Food & beverage
- Industrial machinery
- Life sciences
- Oil & gas
- Precision cooking
- Process
- Refrigeration
- Transportation

Electromechanical
Key Markets:
- Aerospace
- Factory automation
- Life science & medical
- Machine tools
- Packaging machinery
- Paper machinery
- Plastic machinery & converting
- Primary metals
- Semiconductor & electronics
- Textile
- Wire & cable

Filtration
Key Markets:
- Aerospace
- Food & beverage
- Industrial plant & equipment
- Life sciences
- Marine
- Mobile equipment
- Oil & gas
- Power generation & renewable energy
- Process
- Transportation
- Water Purification

Key Products:
- Analytical gas generators
- Compressed air filters & dryers
- Engine air, coolant & oil filtration systems
- Fluid condition monitoring systems
- Hydraulic & lubrication filters
- Hydrogen, nitrogen & zero air generators
- Instrumentation filters
- Membrane & bio filters
- Microfiltration
- Sterile air filtration
- Water desalination & purification filters & systems

Pneumatics
Key Markets:
- Aerospace
- Aircraft & material handling
- Factory automation
- Life science & medical
- Machine tools
- Packaging machinery
- Transportation & automotive

Key Products:
- Accumulators
- Advanced actuators
- CO2 controls
- Electronic controllers
- Filter driers
- Hand shut-off valves
- Heat exchangers
- Hose & fittings
- Pressure regulating valves
- Refrigeration distributors
- Safety relief valves
- Smart pumps
- Solenoid valves
- Thermo-electric expansion valves

Process Control
Key Markets:
- Alternative fuels
- Biopharmaceuticals
- Chemical & refining
- Food & beverage
- Nuclear Power
- Oil & gas
- Pharmaceuticals
- Power generation
- Pulp & paper
- Steel
- Water treatment

Sealing & Shielding
Key Markets:
- Aerospace
- Oil & gas
- Offshore oil exploration
- Power generation & renewable energy
- Transportation

Key Products:
- Dynamic seals
- Electric motor bearings
- Electric motor instrumentation design & assembly
- EMI shielding
- Exhausted & precision cut, fabricated elastomeric seals
- High temperature metal seals
- Homogeneous & inserted elastomeric shapes
- Medical device fabrication & assembly
- Metal & plastic retained composite seals
- Shielded optical windows
- Silicone tubing & extrusions
- Thermal management
- Vibration damping

Parker’s Motion & Control Technologies

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