Waterblock Series WB
Designed for Welding Applications

Waterblock is an integrated manifold made from brass that supplies and monitors water to the weld cell. Utilizing a highly sensitive Vortex Flow Sensor to detect leakage or improper supply to the cell, the Parker WBB will provide the essential protection for expensive welding equipment. The system includes both an integrated electronic shut-off along with an internal check valve to assure proper shutdown, should an event occur. System balance is maintained with the input flow restrictor, which allows repeatable setup. Welding control circuit is included into the package to allow cooling control from ONE location. Maintenance is simple due to the unique manifold design allowing removal of all major components without the need to remove the connections to the manifold. Assembled options are available on request.

Model Number Index

<table>
<thead>
<tr>
<th>Series</th>
<th>Material</th>
<th>Porting</th>
<th>Flow</th>
<th>Shutoff</th>
<th>Sensor</th>
<th>Level</th>
<th>Specials</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>B</td>
<td>1</td>
<td>C</td>
<td>2</td>
<td>*</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

Note: Part number WBB1C2, supercedes part numbers WBB-1666-C1/C2, WBB112/4, 3554800. Refer to dimensions on page 18 for current model.

Technical Data

Water Service Unit
Supply Return Connection ...................3/4" BSPP / NPT
Robot Connections ..............................3/4" BSPP / NPT
Pressure .................................................. 6 bar (87 PSI)
Operation Temperature .........................-25°C to + 80°C
Voltage ................................................. 20 to 30VDC
Check Valve .................................................Return Path
Flow.......................................................40 L/min (10.6 G/min)

Performance
Leak Detection .........................................................< 1s
Shut-off..............................................................< 100ms
Outputs.................................................... 2 PNP or NPN
Flow Restrictor ...................................5 – 100% (Approx)

Materials
Housing.................................Plastic, Brass
Fittings................................................Brass
Weight ............Plastic: 1 kg (2.2lb), Brass: 3.5 kg (7.8lb)

* Male JIC uses adapter CDN12F40MXB
** NPT uses adapter 3/4x3/4F4OHGB

Catalog PCD2005-3
WB Series – Weldblock
Parker Pneumatics
Welding Products
Spare Parts

- **CDN12F4OMXB** Water Fittings - Brass
- **3/4 x 3/4F4OHGB** Water Fittings - Brass
- **5554851** Check Valve
- **7321BAN00** Skinner Valve N/C
- **7321BAN01** Skinner Valve N/C with Manual override
- **481865C2** Coil

Fittings

- **CDN12F4OMXB**
  - Male Connector - BSPP
  - Brass Body / Nitrile O-ring
- **3/4x3/4F4OHGB**
  - Conversion Adapter
  - Brass Body / Nitrile O-ring

**Dimensions**

```
<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>G 3/4</td>
<td>2.83</td>
</tr>
<tr>
<td>3.15 (80)</td>
<td></td>
</tr>
<tr>
<td>079 (20)</td>
<td></td>
</tr>
<tr>
<td>6.87 (174.5)</td>
<td></td>
</tr>
<tr>
<td>G 3/4</td>
<td>6.46 (164)</td>
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<tr>
<td>3.94 (100)</td>
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</tr>
<tr>
<td>G 3/4</td>
<td>1.85 (47)</td>
</tr>
<tr>
<td>2.76 (70)</td>
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</tr>
<tr>
<td>G 3/4</td>
<td>1.97 (50)</td>
</tr>
</tbody>
</table>
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**Schematic**

```
Return → From Welding Gun
         Water
         Supply
         To Welding Gun
```

**WP Series – Weldblock**