CERTAS™ Plus
Programmable Valves
CERTAS™ Plus Programmable Valves

The CERTAS™ Plus Programmable Valve offers the ability to optimize the opening pressure of a shunt system before and after implantation. A shunted patient’s condition will often change over the course of their treatment making pressure changes necessary. The CERTAS Plus Programmable Valve allows a surgeon to non-invasively change the opening pressure to one of eight performance settings, which range from 1 (low pressure) to 7 (high pressure), plus performance setting 8, which is a “Virtual Off.” This programmability may negate the need for revision surgery to alter the valve pressure. Testing shows that the valve mechanism is resistant to unintended changes in the setting in a 3 Tesla MRI.

The setting of the CERTAS Plus Programmable Valve is changed through the use of an externally applied magnetic field. Applying a specific magnetic field to the adjustable valve mechanism will permit the cam to turn slightly, increasing or decreasing the tension on the spring, and changing the setting of the valve. The CERTAS Plus Programmable Valve is available in eight basic configurations in three different housing options (regular, small, and right angle). Configuration options include CERTAS Plus with SiphonGuard® anti-siphon device and unitized BACTISEAL® an antimicrobial catheter impregnated with clindamycin and rifampin.

Shape and Dimensions (Scale: 100% / Measurements in Millimeters)

Performance Setting Guide

<table>
<thead>
<tr>
<th>Flow rate (mL/hr)</th>
<th>Average Pressure settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>16.5</td>
</tr>
<tr>
<td>2</td>
<td>21.5</td>
</tr>
<tr>
<td>3</td>
<td>26.5</td>
</tr>
<tr>
<td>4</td>
<td>31.5</td>
</tr>
<tr>
<td>5</td>
<td>36.5</td>
</tr>
<tr>
<td>6</td>
<td>41.5</td>
</tr>
<tr>
<td>7</td>
<td>46.5</td>
</tr>
</tbody>
</table>

The valves perform within a tolerance range of the average pressure as shown here, regardless of gravitational orientation:

- Settings 1, 2, 3: ±20 mm H₂O
- Setting 4: ±25 mm H₂O
- Settings 5, 6, 7: ±30 mm H₂O
- Setting 8: is intended to limit flow through the valve and has a minimum pressure of 420 mm H₂O

CERTAS Plus Programmable Valve offers the ability to optimize the opening pressure of a shunt system before and after implantation. The valves perform within a tolerance range of the average pressure as shown here, regardless of gravitational orientation.
Codman CERTAS Tool Kit
Allows for non-invasive monitoring and adjusting of the valve pressure setting

Includes:
- Indicator Tool
- Adjustment Tool
- Adjustable Height Locator Tool
- Low Profile Locator Tool
- Instructions for Use

Indicator Tool
Provides rapid reading of the valve’s performance setting. The position of the number in the window helps confirm that the tools are properly aligned with the valve.

Adjustment Tool
Changes the valve’s performance setting. It provides an audible click and tactile response as you turn to each setting. Features a safety stop between settings 1 and 8.

Adjustable Height Locator Tool
The Adjustable Height Locator Tool provides freedom to select the optimal height so that the skin is just below the valve cut-out. This allows the Indicator and Adjustment Tools to sit as closely to the valve mechanism as possible without touching the skin, facilitating correct indication and adjustment. This Locator Tool is also used to program the valve in the package.

Low Profile Locator Tool
The Low Profile Locator Tool is for use when tissue thickness above the valve is greater than 10 mm or when edema is present. This tool has a flat bottom so it can sit flush against the skin.

X-Ray Overlay Tool
Use this tool when viewing the x-ray film or screen to confirm the valve setting.

Please refer to the Instructions for Use (in pocket of carrying case) for step-by-step instructions of pre- and post-implantation procedures for indicating and programming the CERTAS Plus Programmable Valve.

Codman CERTAS Plus Electronic Tool Kit
A digital tool kit that reduces post-operative reprogramming time

Includes:
- Locator Tool
- Adjustment Tool
- Quick Reference Card
- Instructions for Use
- X Ray Overlay Tool
- Spare Batteries (CR123A)
- Screw Driver

Simple Steps with Visual Guidance
- Provides clear and easy-to-follow visual guidance to locate the valve.
- Locating dot provides instant feedback and shortens procedure time.

Accurate and Reliable Setting Change
- Offers tactile feedback during adjustment for more confidence in setting changes.
- Number and checkmark indicator gives assurance of proper setting.
- Features a safety stop between settings 1 and 8.

Ergonomic Design
- The soft concave section of the locator tool reduces patient discomfort. The handle design improves ease and comfort of handling the Tool Kit.

Includes:
- Locator Tool
- Adjustment Tool
- Quick Reference Card
- Instructions for Use
- X Ray Overlay Tool
- Spare Batteries (CR123A)
- Screw Driver

877-468-5572 USA    800-275-7192 Fax    integralife.com
Without SiphonGuard® Anti-Siphon Device

**Regular**
- 82-8800PL

**Small**
- 82-8810PL

**Right Angle**
- 82-8820PL

**INCLUDES:**
- Valve with integrated plastic connectors
- Priming adaptor, plastic

**VALVE ONLY**
- Valve with integrated plastic connectors
- 14 cm ventricular catheter (ref. 82-3041)
- Stainless Steel Stylet
- 120 cm distal catheter (ref. 82-3045)
- Priming adaptor, plastic
- Right angle adaptor, plastic*

**VALVE SYSTEM**
- Valve with integrated plastic connectors
- 14 cm ventricular catheter (ref. 82-3041)
- Stainless Steel Stylet
- 120 cm distal catheter (ref. 82-3045)
- Priming adaptor, plastic
- Right angle adaptor, plastic*

**VALVE SYSTEM (Unitized)**
- Valve with integrated plastic connectors
- 14 cm BACTISEAL® ventricular catheter (ref. 82-3073)
- Stainless Steel Stylet
- 120 cm BACTISEAL® distal catheter, unitized (ref. 82-3074)
- Priming adaptor, plastic
- Right angle adaptor, plastic*

**VALVE SYSTEM (Unitized)**
- Valve with integrated plastic connectors
- 14 cm ventricular catheter (ref. 82-3041)
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- 120 cm distal catheter, unitized (ref. 82-3045)
- Priming adaptor, plastic
- Right angle adaptor, plastic*

**Configuration not available**

With SiphonGuard® Anti-Siphon Device

**Regular**
- 82-8804PL

**Small**
- 82-8814PL

**Right Angle**
- 82-8824PL

**INCLUDES:**
- Valve with integrated plastic connectors and SiphonGuard Device
- Priming adaptor, plastic

**VALVE ONLY**
- Valve with integrated plastic connectors and SiphonGuard Device
- 14 cm ventricular catheter (ref. 82-3041)
- Stainless Steel Stylet
- 120 cm distal catheter (ref. 82-3045)
- Priming adaptor, plastic
- Right angle adaptor, plastic*

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**Configuration not available**

* Not included with the right angle housing option
Availability of these products might vary from a given country or region to another, as a result of specific local regulatory approval or clearance requirements for sale in such country or region.

- Non contractual document. The manufacturer reserves the right, without prior notice, to modify the products in order to improve their quality.
- Warning: Applicable laws restrict these products to sale by or on the order of a physician.
- Consult product labels and inserts for any indication, contraindications, hazards, warnings, precautions, and instructions for use.

For more information or to place an order, please contact:

United States, Canada, Asia, Pacific, Latin America
USA 800-654-2873 • 888-980-7742 fax
International +1 609-936-5400 • +1 609-750-4259 fax
integralife.com