

Broad range of settings to meet the needs of most patients

- 8 discrete settings including a 'Virtual Off' setting
- MRI resistant up to 3 Tesla*

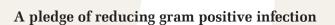


Allows for a non-invasive reading to assist in monitoring and adjusting valve pressure

- 2 Locator Tool options to choose from for optimal alignment
- Indicator Tool provides rapid reading of valve setting
- Lightweight design and portable carrying case

The CODMAN CERTAS Plus Programmable Valve integrated with the SIPHONGUARD Anti-Siphon Device reduces the risk of overdrainage

- Consistency and durability with a clinically proven mechanical design¹
- The SIPHONGUARD Anti-Siphon Device is position independent, allowing maximum treatment flexibility of the patient²
- Available in an integrated or stand-alone configuration



- First programmable valve that is available unitized with **BACTISEAL Antimicrobial Catheter**
- BACTISEAL Catheter is an impregnated antimicrobial shunt catheter system
- BACTISEAL catheters reduce gram positive bacterial colonization on the catheter surface for up to 50 days³

*Clinician should confirm the valve setting after a magnetic resonance imaging procedure (MRI)

- 1. IKurtom K, Magram G. Siphon Regulatory Devices: Their Role in the Treatment of Hydrocephalus. Neurosurg Focus. 2007; 22(4):E5.
- Using the Codman HAKIM Programmable Valve with SiphonGuard Hashimoto, Mukai and Tsukada. The Neurosurgery Bulletin, Sept. 2004
 Bayston R, Ashraf W, Bhundia C. Mode of action of an antimicrobial biomaterial for use in hydrocephalus shunts.

 Antimicrobial Chemotherapy. 2004; 53:778-782.

ORDERING INFORMATION



ONDERMING IN ORMAN MICH			Programmable valve
		Product Configurations – Valves	
828800		CODMAN CERTAS® Plus In-Line Valve o	only
828801		CODMAN CERTAS® Plus In-Line Valve v	vith catheters & accessories
828802	The state of the s	CODMAN CERTAS® Plus In-Line Valve v	vith unitized catheter & accessories
828803	The state of the s	CODMAN CERTAS® Plus In-Line Valve v Catheter & ac	vith unitized BACTISEAL® Antimicrobial cessories
828804		CODMAN CERTAS® Plus In-Line Valve-c SIPHONGUAR	only with D® Anti-Siphon Device
828805		CODMAN CERTAS® Plus In-Line Valve v catheters & ac	with SIPHONGUARD® Anti-Siphon Device cessories
828806	Tability of the state of the st		vith SIPHONGUARD® Anti-Siphon Device, eter & accessories
828807	To the state of th		with SIPHONGUARD® Anti-Siphon Device, ISEAL® Antimicrobial Catheter & accessories
828851		CODMAN CERTAS® Tool Kit	

CODMAN NEURO





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Products may be manufactured at one of the following:

Codman & Shurtleff, Inc. 325 Paramount Drive Raynham, MA 02767-0350

Medos International SARL Chemin-Blanc 38

CH-2400 LeLocle

Codman NeuroScience SARL

Rue Girardet 29 CH-2400 LeLocle witzerland

www.depuysynthes.com

Choose an implantation site for the valve where the tissue over the valve is not too thick (i.e. The CODMAN CERTAS® Plus Programmable Valve is an implantable device that provides constant intraventricular pressure and drainage of CSF for tissue thickness < 10mm). Otherwise locating reading, and adjusting the valve with the tool kit may be difficult (i.e.; multiple attempts may the management of hydrocephalus The CODMAN CERTAS® Tool Kit allows the be required) or impossible. If unable to adjust the valve, the valve will maintain a constant noninvasive reading or adjustment of the valve

CONTRAINDICATIONS

receiving anticoagulants or known to have a bleeding diathesis.

within the body. Delay the shunt procedure when infections such as meningitis, ventriculitis, peritonitis, bacteremia, and septicemia are present The CODMAN CERTAS® Plus Programmable Valve is contraindicated for drainage to the atrium.

The BACTISEAL® Catheters are contraindicated in patients with known hypersensitivity to rifampin or clindamycin hydrochloride.

- perating pressure and the patient should be • Testing shows that the valve mechanism is resistant to unintended changes in the setting in a 3 Tesla MRI. However, the clinician should

onfirm the valve setting after a magnetic

- resonance imaging (MRI) procedure. Read MRI Information before performing an MRI o not interchange the CODMAN CERTAS Tool Kit (82-8851) components with the CODMAN™ CERTAS® Therapy Management System TMS
- The Indicator Tool has a precise operating nechanism and is vulnerable to damage if mishandled. Store and carry all components of the Tool Kit in the storage case when not in use to prevent damage. Replace the Indicator Tool immediately if dropped (or suspected of being dropped) to ensure accurate performance Replacement Indicator Tools are available from your local Codman representative.

(82-8850) components.

- Jse only the CODMAN CERTAS Tool Kit to adjust the setting of the CODMAN CERTAS and CODMAN CERTAS Plus Programmable Valves.
- Excessive swelling may make it difficult to determine and/or adjust the performance
- Locator Tool in these instances.
- If difficulty correctly positioning both Locator Tools persists, wait until the swelling is reduced or confirm the valve setting with x-ray. Failure to accurately position the Locator too
- ould result in an inaccurate indication of the false reading (i.e. an incorrect number may appear in the window of the Indicator Tool).
 The Locator Tool must be precisely aligned with both the valve's direction of flow and the center ndication reading. Alignment can be more the valve. In these instances, verify the valve setting with x-ray or fluoroscopy.



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CODMAN CERTAS® Plus Programmable Valve and CODMAN CERTAS® Tool Kit

Provides the flexibility, versatility and confidence to manage the needs of the hydrocephalus patient.







Hydrocephalus is one of the most complex and debilitating disorders that neurosurgeons treat. That is why Codman Neuro has added yet another solution to the surgical management of hydrocephalus. With a rich clinical and technological heritage, CODMAN CERTAS Plus Programmable Valve provides a range of 8 settings that delivers an answer for the majority of patients.

CODMAN CERTAS® Plus Programmable Valve Flexibility

CODMAN CERTAS® Tool Kit

Versatility

