External CSF Drainage

FREE FLOW

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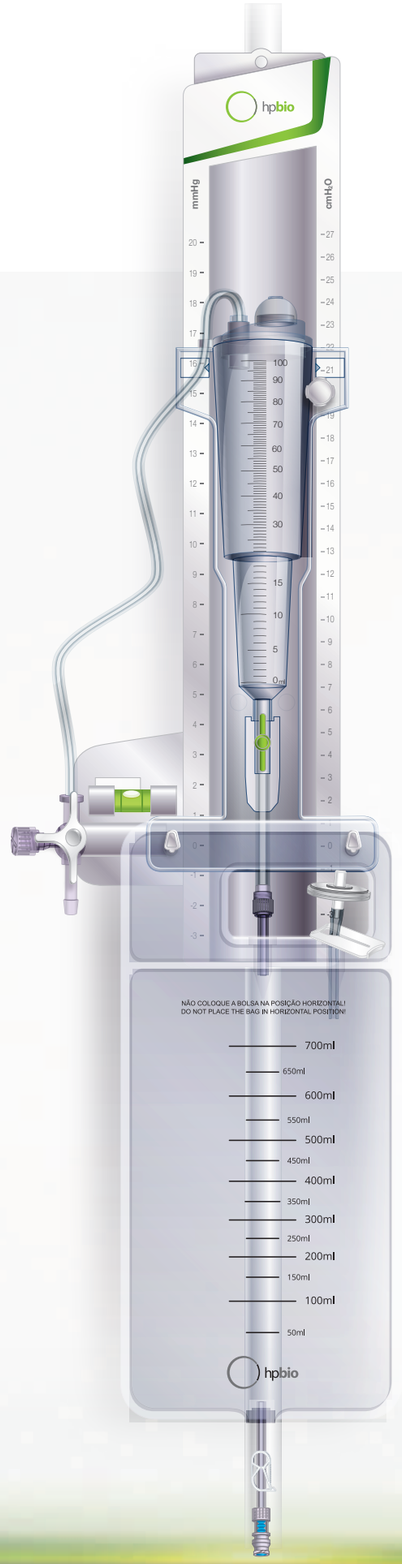
EVD / ELD

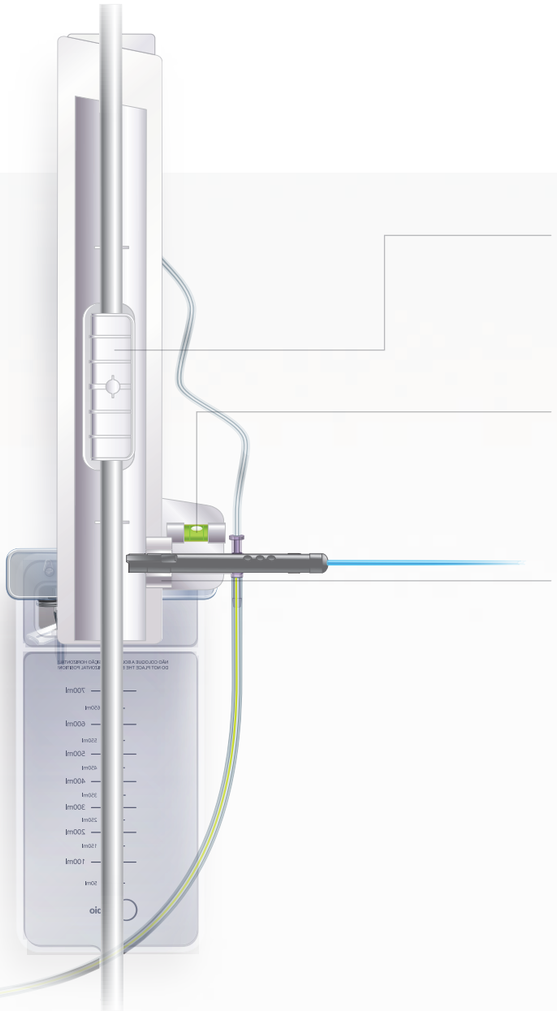
FREE FLOW

The External CSF Drainage is indicated to reduce and temporarily control the intracranial pressure by draining the accumulated CSF to an external collecting bag.

The system brings together all the necessary components for a safe and efficient drainage.

The mobile burette allows better precision in pressure control and measurement of drained volume.





Highlights

Rear attachment

A type "C" rear attachment with fixing screw for the IV pole ensures total stability and safety to the EVD system

Level marker

Together with the laser point, allows to precisely level the "zero point" to the patient's ear canal

Laser point attachment

Allows the insertion of a class II laser point pen (not included in the product packaging) to perfectly level the "zero point" of the graduated scale with the line of the patient's ear canal

Burette filter quick clearing dome

The clogging of the filter by wetting may occur when the system is temporarily positioned horizontally or when the burette is completely filled, beyond its capacity.

The wetting of the filter may interrupt the entry of air through the burette's vent, compromising the flow of the drained liquor into the collection bag.

With this innovative system, simply press the quick-release dome to immediately unblock the filter and resume drainage.

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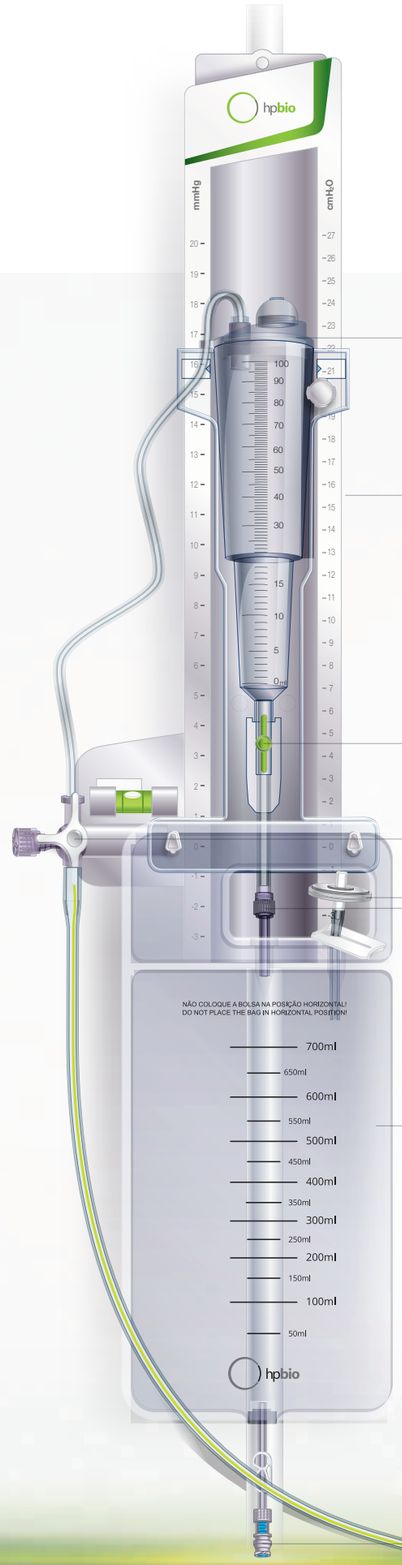
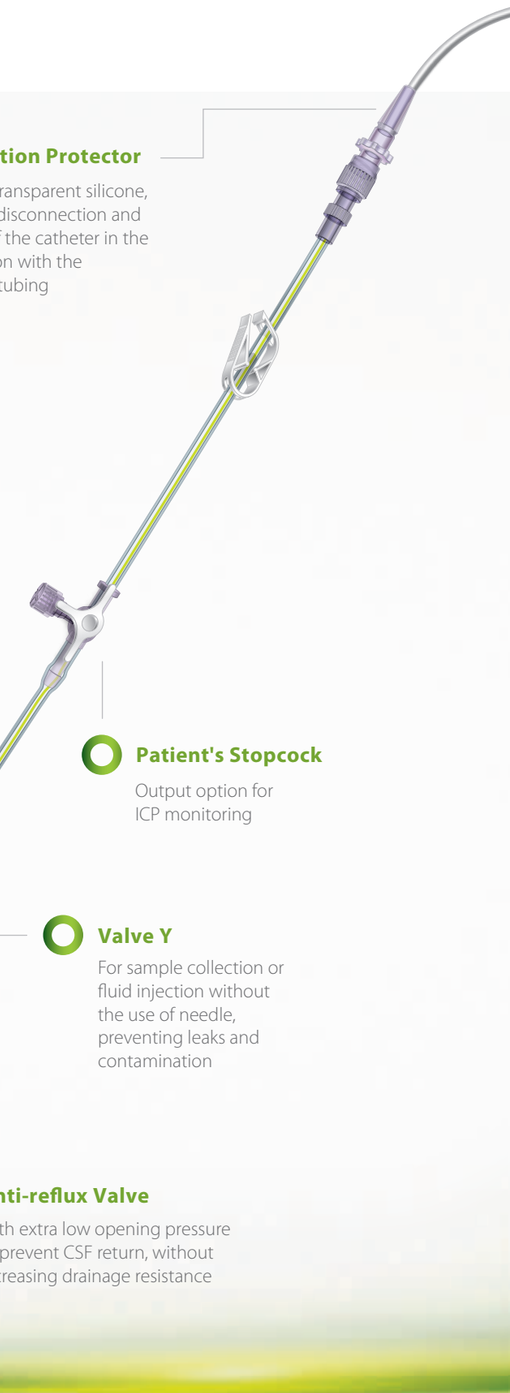
System





New burette with conical two-stage system

Allows you to easily monitor the drained volume, for both adult, infantile and neonatal patients in a single system

Pressure scale with modern design

The pressure scale in mmHg on one side and cmH_2O on the other, with a movable burette in the center, allows easy and safe control of the ICP and offers the possibility of performing drainage with negative pressure

Flow Stopcock

For accurate measurement of the CSF drained volume by elapsed time

ICP Monitoring Stopcock

With output for monitoring the ICP at the "zero point"

Vent

Large hydrophobic antimicrobial filter with clamp to avoid wetting and obstruction of drainage

Luer Connection

Male and female connectors enable the replacement of the drainage bag

Drainage Bag

With a capacity of 700 ml and graduated every 50 ml

Sampling Site

For emptying the bag without the use of needle, preventing leaks and contamination. It has a security clamp

Connection Protector

Made of transparent silicone, prevents disconnection and kinking of the catheter in the connection with the drainage tubing

Patient's Stopcock

Output option for ICP monitoring

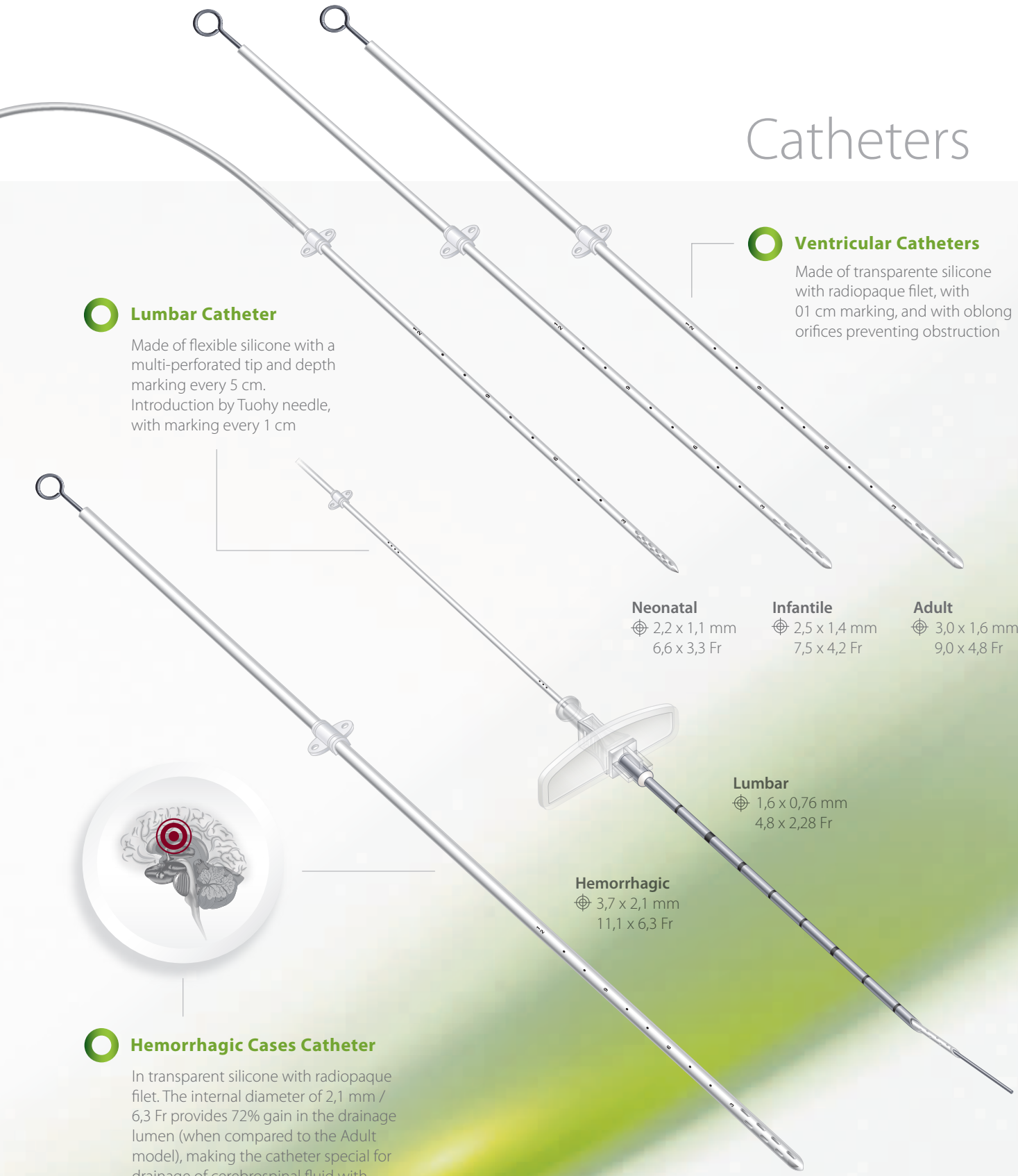
Valve Y

For sample collection or fluid injection without the use of needle, preventing leaks and contamination

Anti-reflux Valve

With extra low opening pressure to prevent CSF return, without increasing drainage resistance

Catheters



Ventricular Catheters

Made of transparente silicone with radiopaque filet, with 01 cm marking, and with oblong orifices preventing obstruction

Lumbar Catheter

Made of flexible silicone with a multi-perforated tip and depth marking every 5 cm.
Introduction by Tuohy needle, with marking every 1 cm

Neonatal
2,2 x 1,1 mm
6,6 x 3,3 Fr

Infantile
2,5 x 1,4 mm
7,5 x 4,2 Fr

Adult
3,0 x 1,6 mm
9,0 x 4,8 Fr

Lumbar
1,6 x 0,76 mm
4,8 x 2,28 Fr

Hemorrhagic
3,7 x 2,1 mm
11,1 x 6,3 Fr

Hemorrhagic Cases Catheter

In transparent silicone with radiopaque filet. The internal diameter of 2,1 mm / 6,3 Fr provides 72% gain in the drainage lumen (when compared to the Adult model), making the catheter special for drainage of cerebrospinal fluid with hemorrhagic content

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Models / Catheter Dimensions				
Code	Application	Total Lenght	External Diameter	Internal Diameter
DVEAF25 DVEAF35	Ventricular Adult	250 mm 350 mm	3,0 mm / 9,0 Fr 3,0 mm / 9,0 Fr	1,6 mm / 4,8 Fr 1,6 mm / 4,8 Fr
DVEIF22 DVEIF35	Ventricular Infantil	220 mm 350 mm	2,5 mm / 7,5 Fr 2,5 mm / 7,5 Fr	1,4 mm / 4,2 Fr 1,4 mm / 4,2 Fr
DVENF22	Ventricular Neonatal	220 mm	2,2 mm / 6,6 Fr	1,1 mm / 3,3 Fr
DVEHF25 DVEHF35	Ventricular Hemorrhagic	250 mm 350 mm	3,7 mm / 11,1 Fr 3,7 mm / 11,1 Fr	2,1 mm / 6,3 Fr 2,1 mm / 6,3 Fr
DLEFF	Lumbar	400 mm	1,6 mm / 4,8 Fr	0,76 mm / 2,28 Fr

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The technical information for these products is not limited to the characteristics presented in this catalog. For complete information, request the Instructions for Use at info@hpbio.com.br