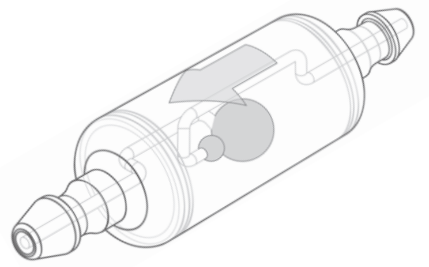


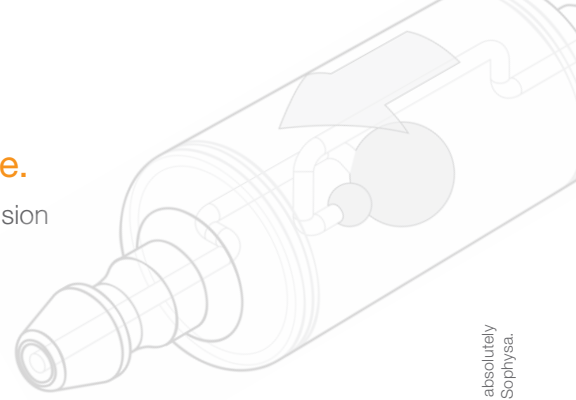
SiphonX[®]

Gravitational
anti-siphon device



SiphonX[®] is a valve accessory designed to limit the siphon effect during cerebro-spinal fluid drainage.

The device incorporates a ball-in-cone mechanism, well known for its precision and reliability. SiphonX[®] is placed downstream of a CSF shunting valve for the treatment of hydrocephalus, giving it additional resistance depending on the position of the patient. This makes it possible to limit the siphon effect during CSF drainage when the patient stands up.



Arrow

Shows the direction of CSF flow through the device. This helps to orientate the SiphonX[®] correctly during implantation.



Rigid body

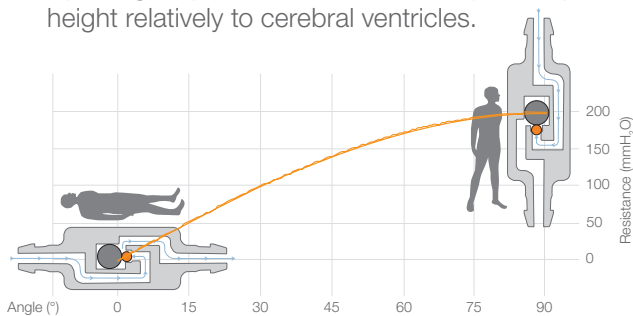
The device is not affected by the pressure exerted by the sub-cutaneous tissues.

Tantalum weight ball

Calibrated to add 200 mmH₂O in the vertical position. Radiopaque for easy location of the device.

Operating principle

A tantalum weight ball presses on a ruby ball, which occludes the aperture for the passage of the CSF. When SiphonX[®] is in the vertical position, the ruby ball is subjected to the full weight of the tantalum ball, occludes the anti-siphon aperture and the device adds 200 mmH₂O to the operating pressure of the valve. When SiphonX[®] is in the horizontal position, the ruby ball is not subjected to the weight of the tantalum ball and so does not occlude the aperture of the anti-siphon device. The device is therefore open and does not add any additional resistance to the operating pressure of the valve. For all intermediate positions, SiphonX[®] adds a resistance which depends on the angle of inclination. By design SiphonX[®] is not affected by the implantation height relatively to cerebral ventricles.



Reference Designation

Image	Reference	Designation
	SX-200	Gravitational anti-siphon device SiphonX [®]
	SPV-SX	Polaris [®] Adjustable Valve, 30-200 with SiphonX [®]
	SPV140-SX	Polaris [®] Adjustable Valve, 10-140 with SiphonX [®]
	SPVA-SX	Polaris [®] Adjustable Valve, 30-200, Antechamber and SiphonX [®]
	SPVA140-SX	Polaris [®] Adjustable Valve, 10-140, Antechamber and SiphonX [®]



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