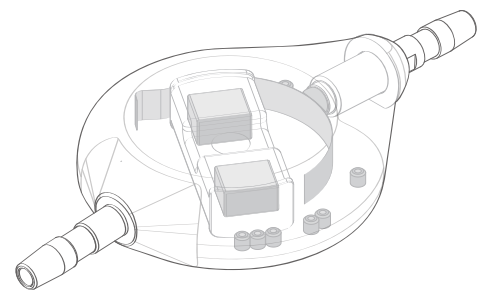


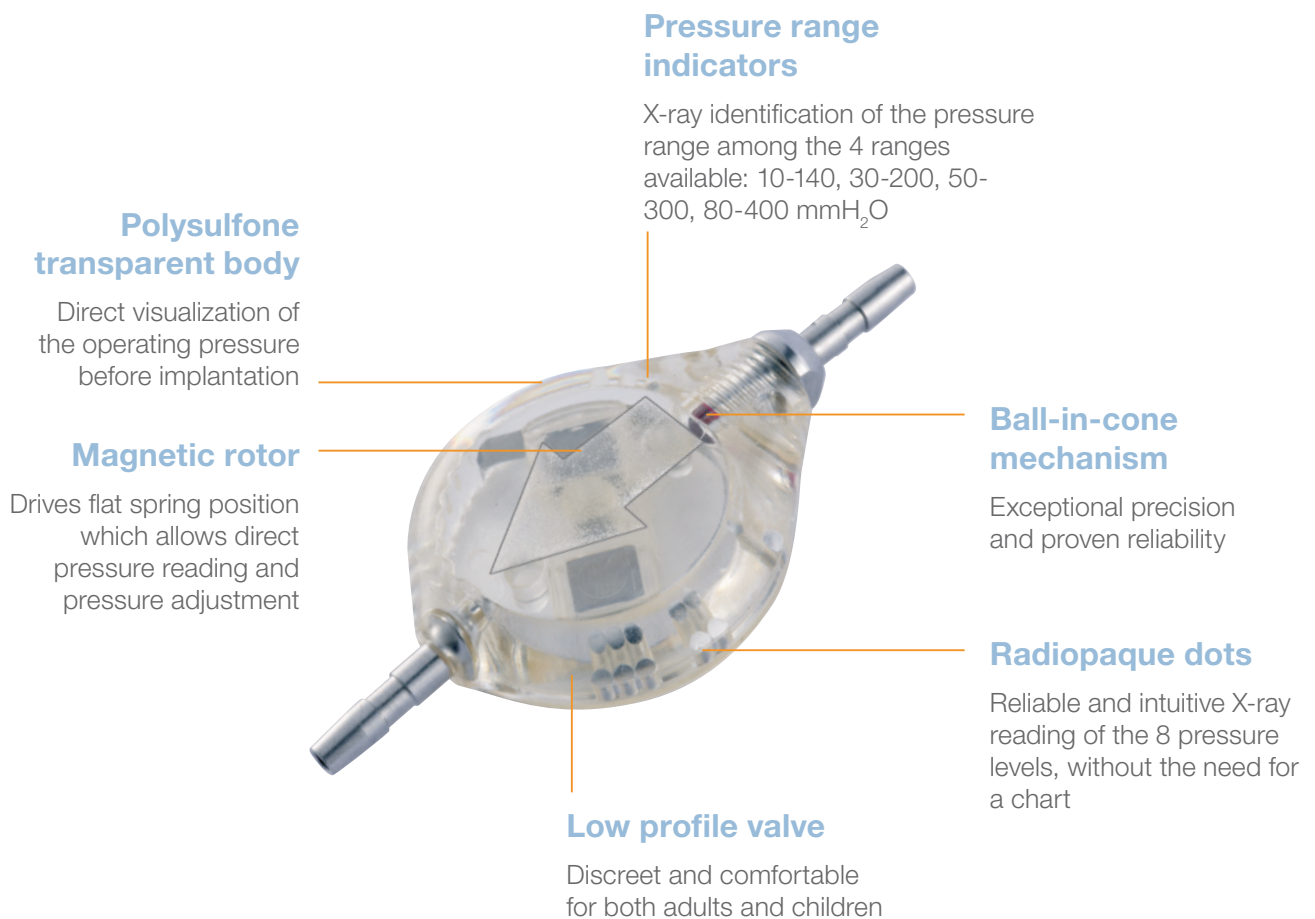
# Sophy® Mini SM8

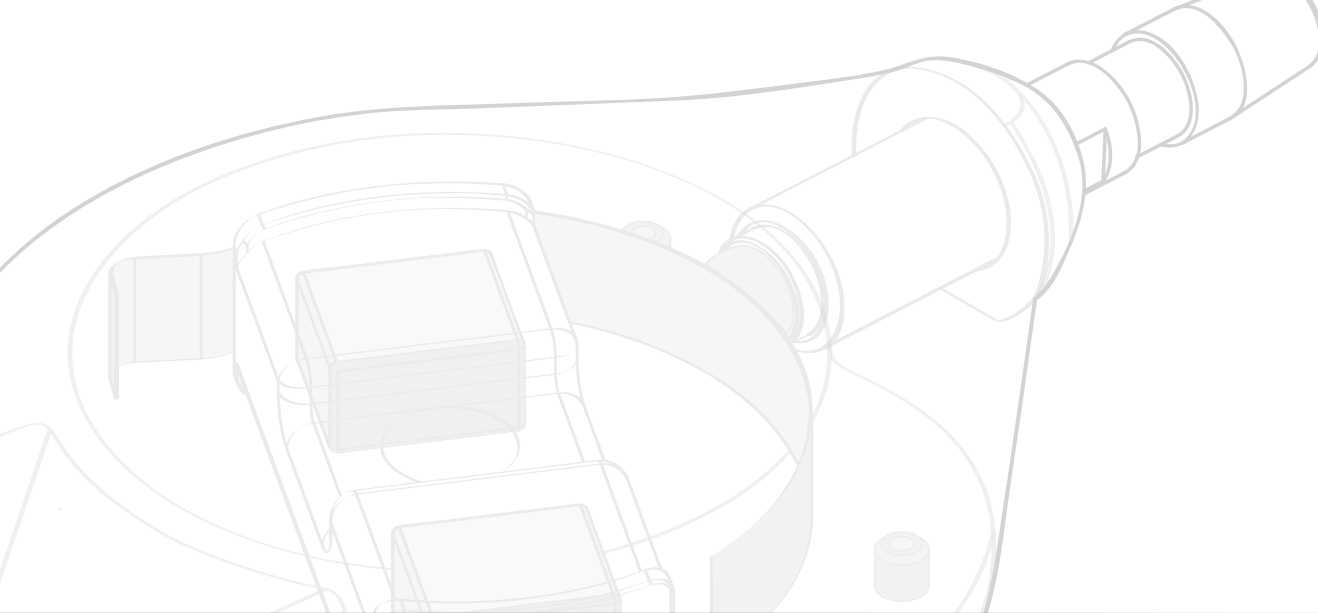
The Sophy® Mini adjustable pressure valve



# Sophy<sup>®</sup> Mini SM8 Valve

The Sophy<sup>®</sup> Mini Adjustable valve is a low-profile high precision ball-in-cone valve, with a magnetic rotor. Its operating pressure can be adjusted percutaneously, with a dedicated non-invasive adjustment kit, to match an individual patient's changing clinical needs.





In addition to the standard model (30-200 mmH<sub>2</sub>O), Sophy® Mini SM8 also offers a **unique special pressure range**: one low pressure valve and two high pressure valves. Thus a choice is provided, depending on the experience of the practitioner, to meet very special needs<sup>(1,2)</sup>.

Valve	SM8-140	SM8	SM8-300	SM8-400
Identification of the pressure range	0 dot	1 dot	2 dots	3 dots
X-ray identification of the pressure range				
mmH <sub>2</sub> O	10-140	30-200	50-300	80-400

The Sophy® Mini SM8-140 and SM8 can be associated with SiphonX®, an anti-siphon device, which adds 200 mmH<sub>2</sub>O in vertical position.

1. Bergsneider, M., Miller, C. *et al.*, 2008. Surgical Management of Adult Hydrocephalus - Neurosurgery - 62, 643-660.

2. Takahashi, Y., 2001 - Withdrawal of shunt systems - clinical use of the programmable shunt system and its effect on hydrocephalus in children. Child's Nervous Syst. 17(8), 472-477.

# Sophy® Mini Adjustment Kit

The Sophy® Mini Adjustment Kit:

- allows easy, precise and fast procedure
- enables a painless adjustment
- offers direct pressure reading with the compass
- is provided in a shielded case
- includes a Sophy® Mini SM8 demo valve

## Locator

Choice of the pressure range

Able to display the 4 pressure ranges available thanks to a rotating ring graduated in mmH<sub>2</sub>O.

Localization of the valve under the skin



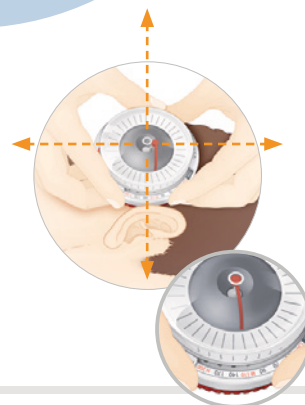
## Compass

Localization of the valve center (for locator centering)

Thanks to its patented mechanism, it is possible to locate the valve center through the skin and thus fine-tune the positioning of the Locator.

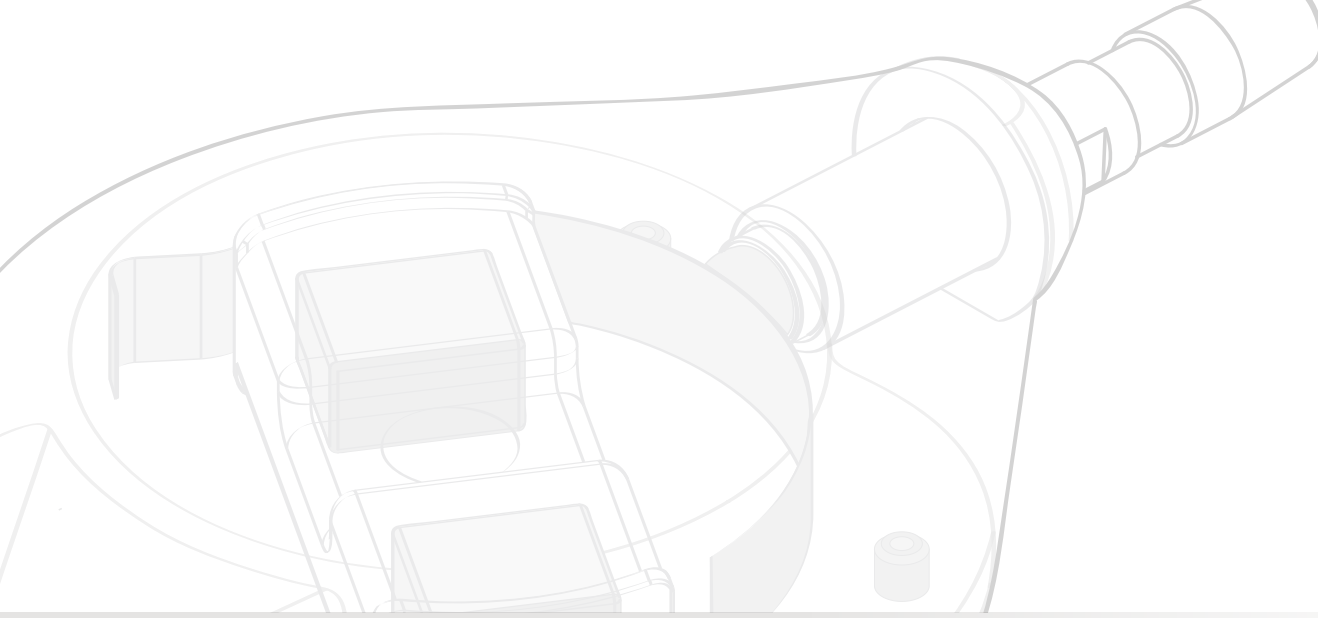
Pressure reading

Allows a precise and reliable reading of the selected pressure.

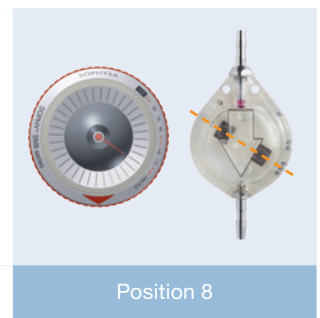
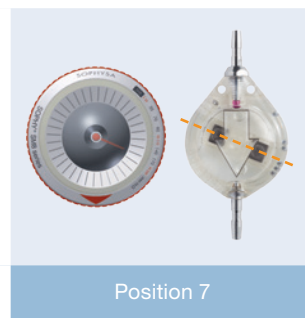
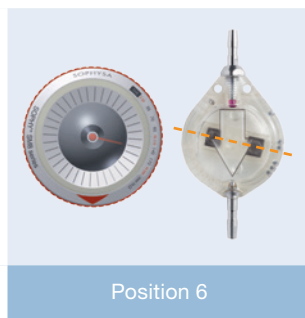
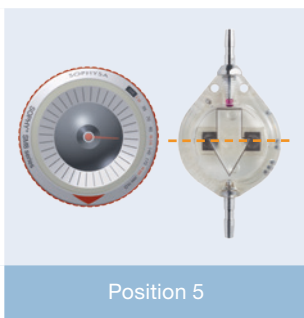
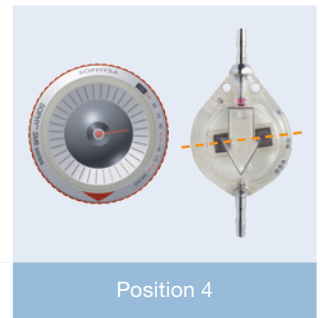
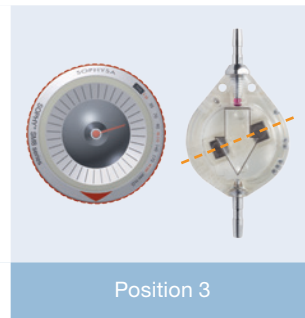
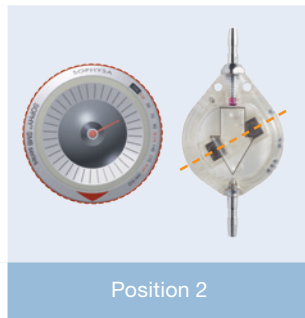
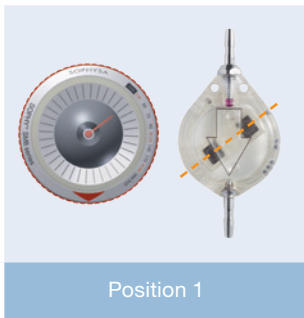


## Magnet

Allows the rotation of the magnetic rotor to adjust the valve pressure



**Direct pressure reading** is obtained using the adjustment kit compass: the compass needle is aligned with the position of the magnetic rotor.



# Sophy<sup>®</sup> Mini SM8 Kits

The Sophy<sup>®</sup> Mini SM8 Adjustable valve is available in kits for intracranial, pectoral or lumbo-peritoneal shunting.

## Intracranial or pectoral valve implantation

The Sophy<sup>®</sup> Mini SM8 kits include:

- A pre-attached distal catheter (length = 110 cm)
- A separate proximal catheter

The proximal catheter can be selected depending on practitioner needs:

- Straight (length = 23 cm)
- Right angle with a reservoir (intracranial length = 6 or 7 cm)

### Kits with Straight Ventricular Catheter



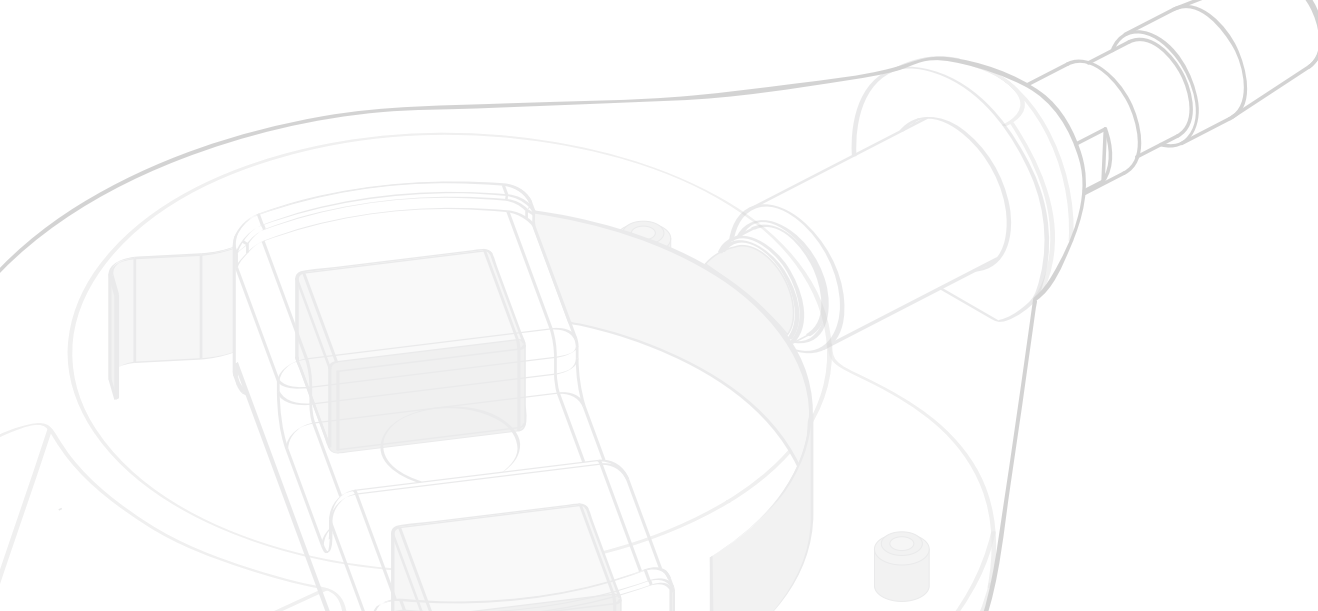
### Kits with Right Angle Ventricular Catheter

For intracranial implantation



For pectoral implantation

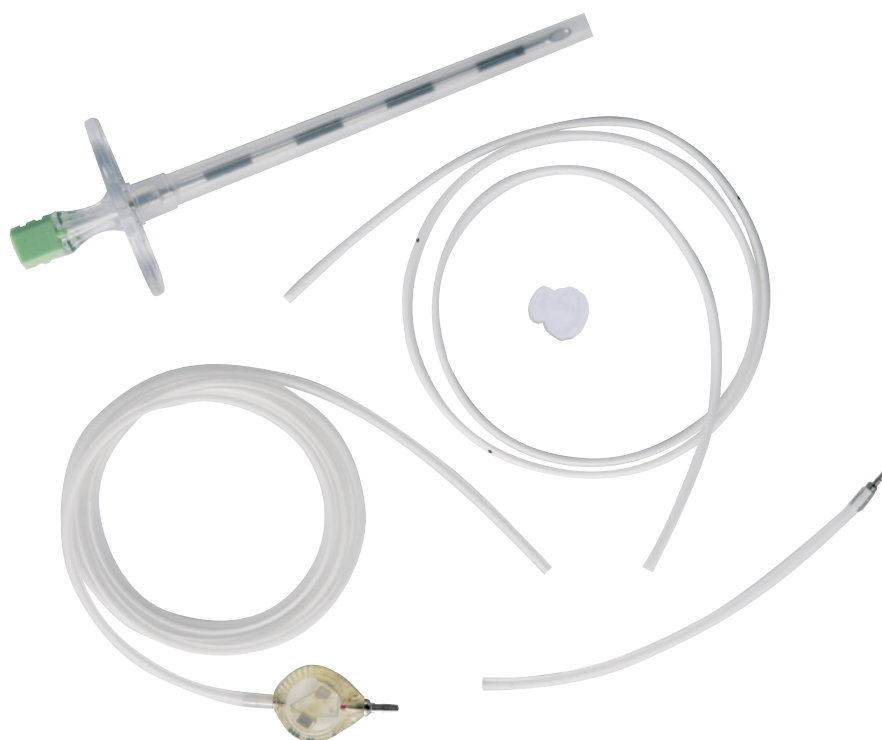




## Lumbo-peritoneal shunting

The Sophy® Mini SM8 lumbo-peritoneal shunting kit includes:

- A Sophy® Mini Adjustable Valve SM8 with a preconnected peritoneal catheter
- A female Luer-Lock connector to be connected to the peritoneal catheter should priming be necessary
- An open-end lumbar catheter
- An intermediary catheter with an integral asymmetric step-down connector to allow the connection between the valve and the lumbar catheter
- A Tuohy needle



SM8-2040

Reference		Designation							
<b>Valve only</b>		Position							
		1	2	3	4	5	6	7	8
	<b>SM8</b>	<b>Sophy® Mini Adjustable Valve, 30-200</b>							
	SM8-140	30	50	70	90	110	140	170	200
	SM8-300	10	25	40	60	80	100	120	140
	SM8-400	50	75	100	125	150	180	220	300
		80	120	150	190	230	270	330	400

Reference		Designation							
<b>Valve with antechamber / with burr-hole reservoir</b>		Position							
		1	2	3	4	5	6	7	8
	SM8A	<b>Sophy® Mini Adjustable Valve, 30-200, Antechamber</b>							
		30	50	70	90	110	140	170	200
	SM8B	<b>Sophy® Mini Adjustable Valve, 30-200, Burr-Hole Reservoir</b>							
		30	50	70	90	110	140	170	200

**SiphonX®, anti-siphon device** (+ 200 mmH<sub>2</sub>O in vertical position)



SX-200 Gravitational anti-siphon device SiphonX®

**Complete valve kits** Sophy® Mini valve kits include a separated ventricular catheter and a preconnected distal catheter

Straight ventricular catheter	SM8-2010	Sophy® Mini SM8 Kit
	SM8A-2010	Sophy® Mini SM8A Kit
	SM8B-2010	Sophy® Mini SM8B Kit
Right angle ventricular catheter for intracranial implantation	SM8-2020	Sophy® Mini SM8 Kit (Intracranial length = 6 cm)
	SM8-2021	Sophy® Mini SM8 Kit (Intracranial length = 7 cm)
Right angle ventricular catheter for pectoral implantation	SM8-2030	Sophy® Mini SM8 Kit (Intracranial length = 6 cm)
	SM8-2031	Sophy® Mini SM8 Kit (Intracranial length = 7 cm)
Lumbo-peritoneal shunting	SM8-2040	Sophy® Mini SM8 LP shunt kit

**Adjustment kit**



SAK Sophy® Adjustment Kit (includes Locator SAK-LI-1, Compass SAK-RI, Magnet SAK-SI and a Sophy® Mini SM8 Demo valve SM8-DEMO-00)

Distribution: