



M.flow®

EXPAND FLEXIBILITY

AND MANAGE THE FLOW.















TOGETHER FOR A BETTER LIFE WITH HYDROCEPHALUS

MARY, 22

We share a common vision: to improve the lives of hydrocephalus patients around the world with innovative solutions. What drives us every day is our responsibility for people. With quality, responsibility, scientific and meticulous work, proximity, diversity and mutual respect, we want to meet this responsibility together and worldwide every day.

This is not just a promise but a self-conception of who we are.

Our Strong Partner in Neurosurgery:



www.bbraun.com

ONCE UPON A TIME...





EXPAND EXISTING TREATMENT OPTIONS



The *M.flow* is an adjustable flow-reducing device that can be implanted in addition to gravitational or differential pressure valves.

With the *M.flow* it is possible to manage the flow resistance and thus the flow rate in the shunt system. The various flow-reduction levels can be used to influence the drainage volume and speed when the gravitational or differential pressure valve opens.

- + Expanded flexibility: minimum to maximum adjustable flow reduction.
- Innovative shunt closure: Real Off Setting for an adjustable closure of the shunt system.
- + Pumping function: The *M.flow* allows distal pumping.
- Protected against unintentional adjustment by means of exposure to magnets found in daily life.
- The *M.flow* allows intuitive, secure and comfortable adjustment with proven adjustment technology.
- MRI-compatible up to 3 Tesla: no X-ray control after
 MRI necessary, no additional radiation exposure for the patient.



MANAGE THE FLOW

MIETHKE

of the flow rate in the shunt system from 0 to 10. The length of the flow channel, which is adjusted by the position of the inlet, determines the flow reduction effect. The M.flow Instruments can be used to check, adjust and control the flow reduction level of the *M.flow*.

In combination with gravitational or differential pressure valves, the M.flow expands the possibilities for individualising hydrocephalus treatment. Therefore, a second scale on the

The flow reduction levels of the *M.flow* allow flexible control *M.flow* Instruments also allows the same instruments to be used for the adjustment of the M.blue. The proven technology of the instruments is the foundation for intuitive, secure and non-invasive adjustment.

> The 'Active-Lock' mechanism protects the *M.flow* from unintentional adjustment by external magnetic fields. The M.flow is MRI compatible up to 3 Tesla. X-ray control after MRI imaging is therefore not necessary and patients are spared additional radiation exposure.





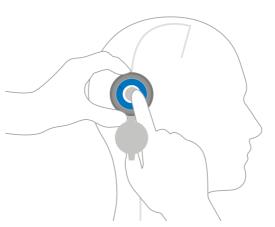
LOCATE

The *M.flow* compass can be used to locate the *M.flow*. The compass should be aligned so that the float is centred in the round mark.



VERIFY

The set flow reduction level can be read using the outer scale. The line marking on the float indicates the current flow reduction level.

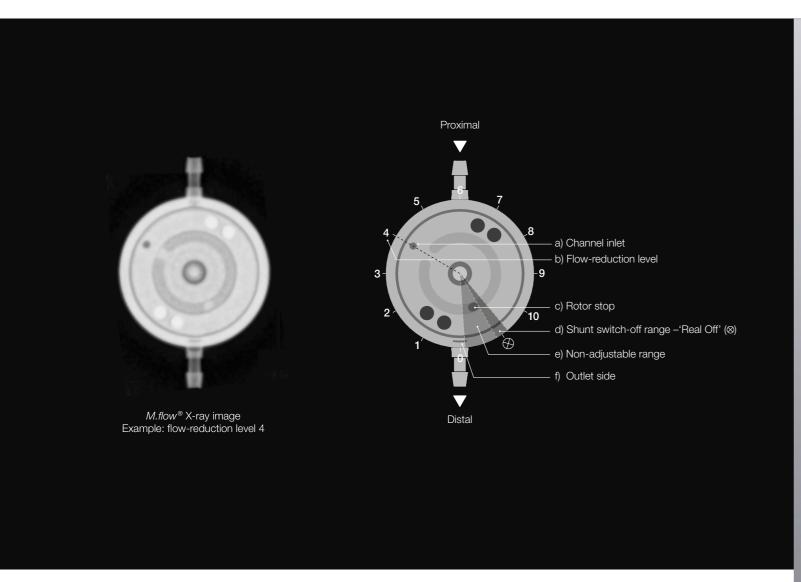


ADJUST

To adjust, place the adjustment ring in the open compass so that the marking points to the desired flow reduction level. Pressing the M.flow releases the 'Active Lock' mechanism and the flow reduction level is adjusted. After adjustment, it is recommended to verify the set flow reduction level.

PRESSURE LEVEL DETECTION





PRESSURE LEVEL DETECTION IN X-RAY IMAGE

The set flow reduction level of the *M.flow* can be checked at any time with the *M.flow* compass without an additional X-ray examination.

For detection in the X-ray image, we recommend the use of the X-ray template.

The direction of flow and therefore the orientation of the *M.flow* can be determined using the rotor stop and the flow channel outlet. The position of the flow channel inlet indicates the set flow reduction level (example: flow reduction level 4).



M.flow® Instruments



+ M.flow®



Diameter connector: 1.9 mm Recommended catheter diameters: Inner diameter: 1.2 mm Outer diameter: 2.5 mm

M.flow®

Art. nr.	Flow-reduction level
FX910T	0 - 10

- + M.flow® Instruments Set
- + M.flow® Compass
- + M.flow® Checkmate
- + M.blue plus® Adjustment Ring
- + M.blue plus® Adjustment Assistant



M.flow® Compass



M.flow® Checkmate



M.blue plus® Adjustment Ring



M.blue plus® Adjustment Assistant

M.flow®

Art. nr.	Instruments
FX900T	M.flow® Instruments Set (includes FX901T and FX892T)
FX901T	M.flow® Compass
FX904T	M.flow® Checkmate
FX892T	M.blue plus® Adjustment Ring
FX893T	M.blue plus® Adjustment Assistant

14 15





Manufacturer:

Christoph Miethke GmbH & Co. KG | Ulanenweg 2 | 14469 Potsdam | Germany Tel. +49 331 62 083-0 | Fax +49 331 62 083-40 | www.miethke.com

Distributor:

Aesculap AG | Am Aesculap-Platz | 78532 Tuttlingen | Germany Tel. +49 7461 95-0 | www.bbraun.com

Christoph Miethke GmbH & Co. KG points out that the reference to its trademark rights applies solely to jurisdictions in which it has trademark rights. Detailed information can be requested from info@miethke.com. Technical changes reserved. This brochure may be used exclusively for providing information about our products. Reprinting, even in excerpts, is prohibited.

Our Strong Partner in Neurosurgery:



www.bbraun.com PB_S18_EN_V01 (2025-01-29)