



### WE UNDERSTAND.

NEUROSURGERY

# **M.blue®** The balanced way of life. Inspired by You.

MOURP

# TREATMENT OF HYDROCEPHALUS

NEED FOR ACTION

### WHY DO WE NEED BETTER SOLUTIONS FOR THE TREATMENT OF HYDROCEPHALUS?

Since the 1960s, the main surgical strategy in managing hydrocephalus is the placement of shunts. However, conventional shunts have very high failure rates, and nearly every fourth patient is affected by complications (1, 2) with no difference between different conventional valves and programmable valves (4, 5).

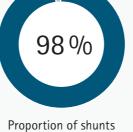
Overdrainage-related complications can necessitate a variety of different revisions, which are burdensome for patients and are accompanied by unavoidable perioperative risks.

We believe that the current treatment situation for hydrocephalus is not acceptable and better solutions have to be found.

# HIGH FAILURE RATES



Proportion of shunts failing within **2 years** 



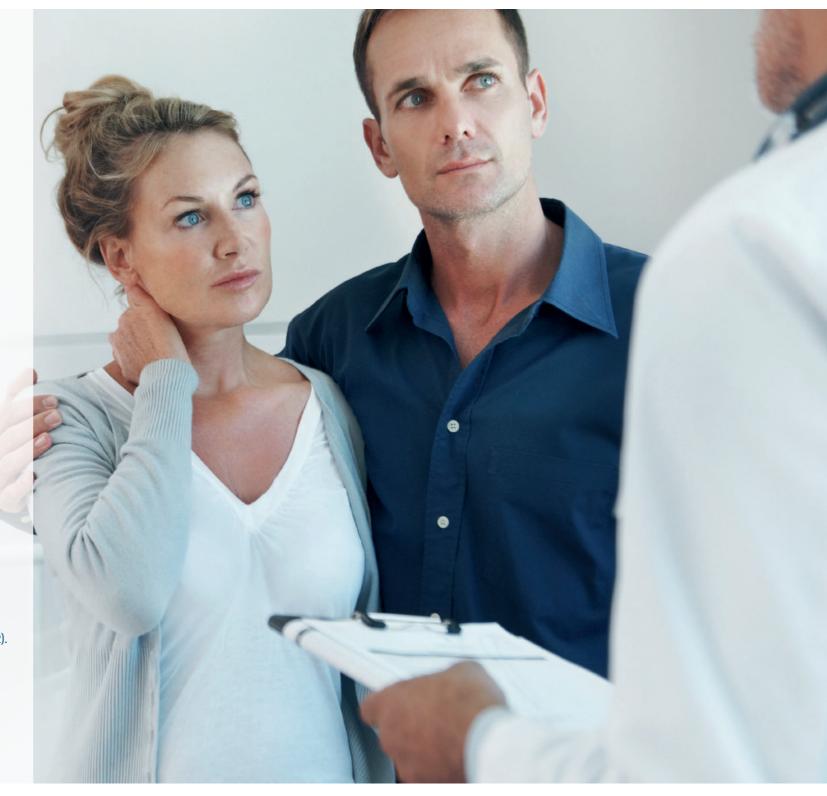
failing within **10 years** 

**»** High failure rates overshadow the effectiveness of shunts (1).

#### COMPLICATIONS (3)

- Obstruction (46.9%)
- Migration (14.0%)
- Fracture (11.8%)
- Improper placement (8.1%)
- Overdrainage (6.3%)
- Miscellaneous (4.0%)
- No evidence of malfunction (8.8%)

» About one in four patients experiences at least one complication (2).





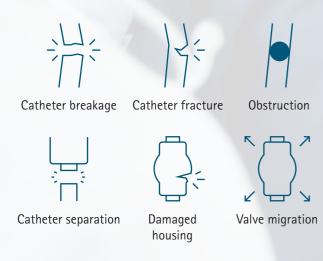
# TREATMENT OF HYDROCEPHALUS

NEED FOR ACTION



### MECHANICAL FAILURE

Mechanical failure is the most common cause of multiple shunt revisions (6), with catheter or valve obstruction being the predominant reason (3). However, failure of individual shunt components may also occur, e.g., at stress points or due to poor design (7).

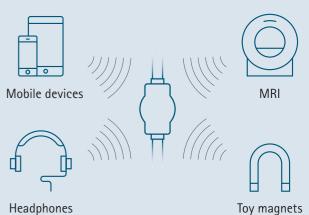






### ACCIDENTAL REPROGRAMMING

As the optimal pressure setting of adjustable valves is of great importance for the patient, the accidental reprogramming of adjustable valves by external magnetic fields, e.g., from smartphones, is a cause of concern and leads to great uncertainty among patients and doctors (8-12).



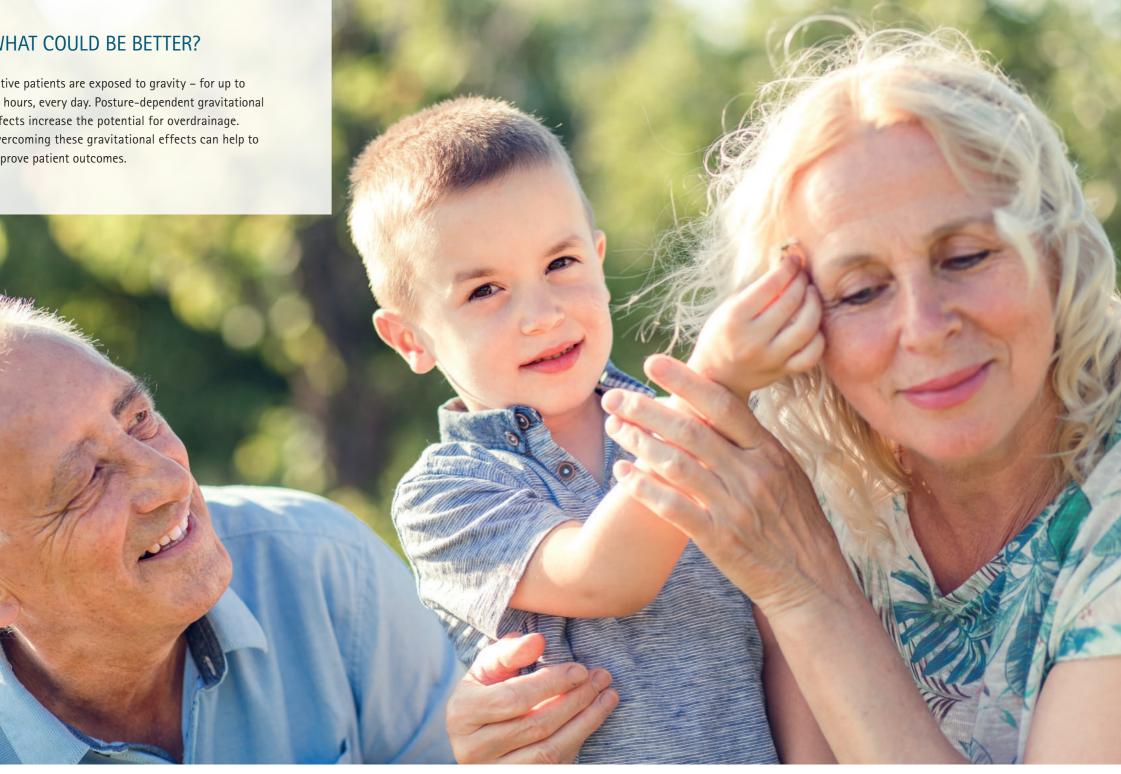
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# TREATMENT OF HYDROCEPHALUS

**NEED FOR ACTION** 

### WHAT COULD BE BETTER?

Active patients are exposed to gravity - for up to 16 hours, every day. Posture-dependent gravitational effects increase the potential for overdrainage. Overcoming these gravitational effects can help to improve patient outcomes.





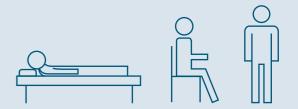
### NO TWO PATIENTS ARE ALIKE!

Every patient with hydrocephalus is unique and requires customized setting of the valve opening pressure.



#### ARE PATIENTS GETTING OPTIMAL INDIVIDUAL TREATMENT?

Determining the patient-individual setting of the valve opening pressure can be complex. Non-ideal pressure settings can lead to follow-up examinations and revisions, which are burdensome for patients and put an additional strain on physicians and surgeons with limited time and high workload (13, 14).



#### ARE ADJUSTABLE DIFFERENTIAL PRESSURE VALVES THE BEST AVAILABLE THERAPY?

The pressure setting of conventional adjustable valves is always a compromise between the pressure requirements of the upright position and the supine position. Therefore, patients can never benefit from optimal opening pressures for both positions.

# GRAVITATIONAL VALVES BY MIETHKE

DEVELOPED TO ENSURE SAFETY

#### **BE CONFIDENT!**

Gravitational shunts provide neurosurgeons with a possibility to address the posture-dependent effects of gravity, with positive clinical outcomes for the patient and a significant reduction of overdrainage events (15).

#### GRAVITATIONAL VALVES (GV) IMPROVE PATIENT OUTCOMES COMPARED TO DIFFERENTIAL PRESSURE VALVES (DP) (16).

Symptom improvement >2 points on Kiefer-Scale.

GV		71%
DP	18%	

Daily improvement rated good/very good on Black-Scale.

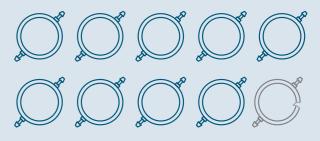
GV		62 %
DP	25%	

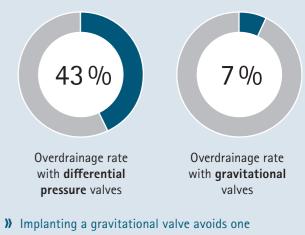




### REDUCE COMPLICATIONS! REDUCE REVISIONS!

Clinical studies have shown that MIETHKE gravitational devices reduce the risk of revisions (17-21) and overdrainage complications (18).





Implanting a gravitational valve avoids one additional overdrainage complication in about every third patient (18).

# GRAVITATIONAL VALVES BY MIETHKE

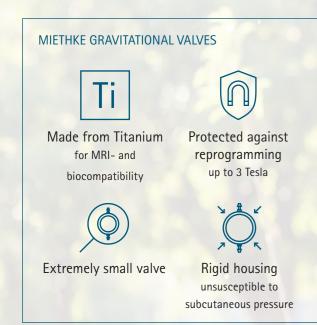
DEVELOPED TO ENSURE SAFETY

### AVOID MECHANICAL FAILURE!

All MIETHKE valves are manufactured with high precision from titanium. The extremely small valves have aligned flow paths, rigid housing unsusceptible to subcutaneous pressure and high MRI- and biocompatibility.

#### DON'T LET MAGNETIC FIELDS BOTHER YOU!

The "Active-Lock mechanism" protects programmable MIETHKE valves against reprogramming by magnetic fields of up to 3 Tesla (22).







### BENEFIT FROM PRIMARY IMPLANTATION (23)!



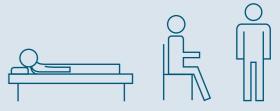
### 22%

higher survival of gravitational valves after **primary** vs secondary implantation

Early treatment with the optimal therapy is important for patients with hydrocephalus (23, 24) and can also help to avoid shunt replacements and associated perioperative risks.

#### OPTIMIZE – DON'T COMPROMISE!

Gravitational shunts allow for the prevention of overdrainage in the standing position without compromising the pressure setting for the supine position. The optimal opening pressure for each patient can be set both for the upright and the supine position – without needing to compromise.



With gravitational valves the optimal pressure for both supine and upright position can be set.

### M.blue<sup>®</sup> OUR LATEST GENERATION OF VALVE TECHNOLOGY

- ONE valve for the special requirements of a life with hydrocephalus: mobility, growth, changes in the course of disease
- 2 in 1 technology: adjustable gravitational unit combined with fixed differential pressure unit in one valve
- Unique uncompromising pressure adaption to fulfill individual patient needs
- Smallest adjustable gravitational valve worldwide
- Protection against overdrainage through individually and continuously adjustable opening pressure from 0-40 cmH<sub>2</sub>0
- MRI-compatible up to 3 Tesla no X-ray verification after MRI necessary, no additional radiation exposure for the patient
- Safe from unintentional adjustment by everyday magnets such as smartphones, toys, induction cookers and safety barriers at the airports
- M.blue plus<sup>®</sup> Instruments for M.blue<sup>®</sup> and proGAV<sup>®</sup> 2.0
- Intuitive and comfortable adjustment
- Precision engineering
- Made of titanium







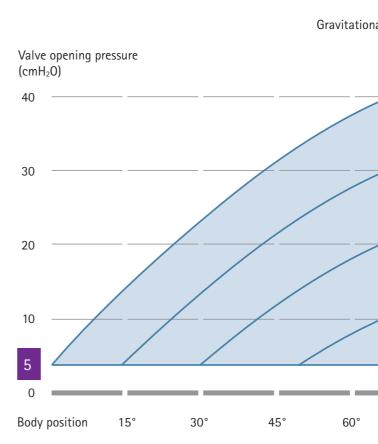
*M.blue*<sup>®</sup> is the essence of 26 years of experience with hydrocephalus and valve technology and the feedback of numerous physicians and patients worldwide.

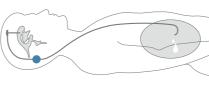
*M.blue*<sup>®</sup> is a valve for all forms of hydrocephalus with a particularly high flexibility in therapy.

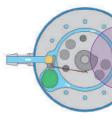
#### FUNCTIONALITY OF VALVE AND POSITION OF THE BODY



#### EXAMPLE OF THE ADJUSTABLE GRADUATED PRESSURE RANGE OF A M.blue<sup>®</sup> WITH A DIFFERENTIAL PRESSURE UNIT OF 5 CMH<sub>2</sub>O







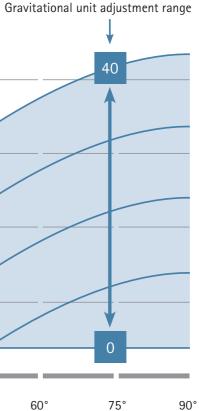
M.blue<sup>®</sup> is a hydrocephalus valve operating in a position-dependent manner. It consists of an adjustable gravitational unit and a fixed differential pressure unit. The combination of these two units adjusts the opening pressure

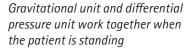
#### The functionality of *M.blue*<sup>®</sup> is illustrated interactively in the MIETHKE app.

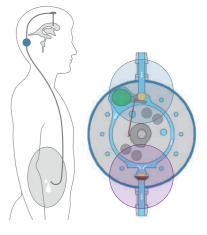
APP DOWNLOAD https://apps.apple.com/de/app/miethke/id450290015 https://play.google.com/store/apps/details?id=com.miethke.graviton













Only the differential pressure unit is active when the patient is supine

automatically depending on what position the patient is in, thus countering the risk of possible overdrainage complications, particularly when the patient is in an upright and active position.

# M.blue plus® INSTRUMENTS

SOFT TOUCH INSTRUMENT FUNCTIONALITY

USER-FRIENDLY ADJUSTMENT AND VERIFICATION

*M.blue plus*<sup>®</sup> instruments allow users to measure, verify, and adjust the pressure level on *M.blue*<sup>®</sup>'s adjustable gravitational unit (0-40 cmH<sub>2</sub>0) as well as the pressure level on the adjustable differential pressure unit (*proGAV*<sup>®</sup> 2.0) of *M.blue plus*<sup>®</sup>. The instruments offer simple steps for the physician and make the adjustment process comfortable for patients.

> M. blue pluss ADJUSTMENT RING

COMPASS





#### LOCATE

Locate valve by palpating the area with your finger through the open *M.blue plus*<sup>°</sup> compass.

#### VERIFY

Close *M.blue plus*<sup>®</sup> compass and use the floater to lock location and read current valve opening pressure setting.

#### ADJUST

With the help of the inserted adjustment ring the valve opening pressure can easily be set to the desired level. After setting the valve opening pressure, it is advisable to double-check the pressure level settings.

PRESSURE LEVEL RECOMMENDATIONS AND RADIOGRAPHIC IDENTIFICATION

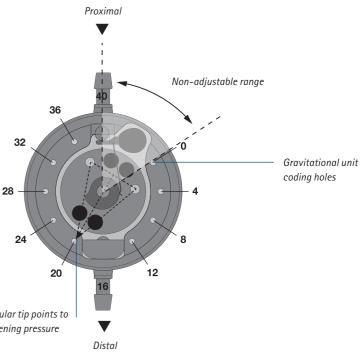
Patient	Selection of pressure	levels	Combined opening pro	essure
	0-	_2		
	1 Differential pressure unit	2 Adjustable gravitational unit		
Newborns and O children under 5		20		25
Children ages 5 and up		25		30
Adults < 1.60 m > 1.80 m	5	25 20 30	5	30 25 35
Adults > 65 years < 1.60 m > 1.80 m		20 15 25		25 20 30

All of the pressure levels shown here are given in cmH<sub>2</sub>0. These recommendations are non-binding. The treating physician will need to decide each case individually.

#### PRESSURE LEVEL RECOMMENDATION

The choice of the appropriate pressure level of *M.blue*<sup>®</sup> depends on several other factors, including age, degree of activity, size and stature of the patient. The values given apply to mobile patients. For patients with little mobility or a high BMI, the pressure of the gravitational unit should be chosen lower than recommended above.





Triangular tip points to set opening pressure

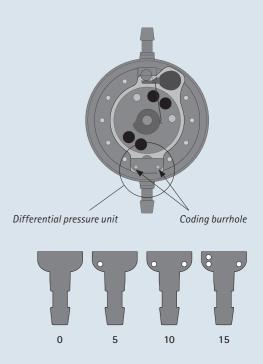
#### USING RADIOGRAPHIC IMAGING TO DETERMINE PRESSURE LEVELS

Pressure settings on *M.blue*<sup>®</sup> should always be checked using *M.blue plus*<sup>®</sup> compass, but radiographic imaging can be used for verification as well.

All of the pressure levels shown here are given in  $cmH_20$ .

X-ray recognition and product information can be found in the free MIETHKE App.







# M.blue plus® VALVE COMBINATION

#### M.blue<sup>®</sup> valve

▶== ] 4.2 mm 1222

> ⊣ 16.6 mm └──── 25 mm ────

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

M.blue®	
Art. no.	Differential pressure unit
FX800T	0 cmH <sub>2</sub> 0

FX800T	$0 \text{ cmH}_20$	0 - 40 cmH <sub>2</sub> 0
FX801T	5 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
FX802T	10 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
FX803T	15 cmH₂0	0 - 40 cmH <sub>2</sub> 0

Adjustable gravitational unit

<ul> <li>M.blue plus<sup>®</sup> valve</li> </ul>	proGAV 2.0
	⊢ 17 mm -+
Diameter connector: 1.9 mm Recommended catheter diameters: Internal diameter: 1.2 mm	
Outer diameter: 2.5 mm	

M.blue plus®		
Art. no.	Adj. differential pressure unit	Adjustable gravitational unit
FX804T	0 - 20 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0



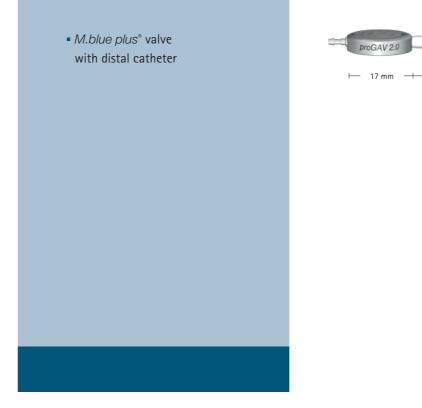




# M.blue plus® VALVE COMBINATION

*M.blue*<sup>®</sup> valve with distal catheter





M.blue®		
Art. no.	Differential pressure unit	Adjustable gravitational unit
FX805T	0 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
FX806T	5 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
FX807T	10 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
FX808T	15 cmH₂0	0 - 40 cmH <sub>2</sub> 0

M.blue plus®	
Art. no.	Adj. diff
FX809T	0 - 20 cn



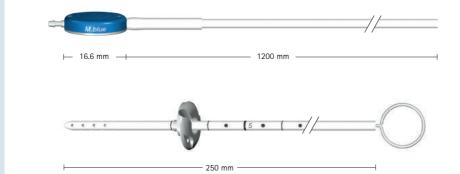
M.blue	
- 13 mm + 16.6 mm -+	1200 mm

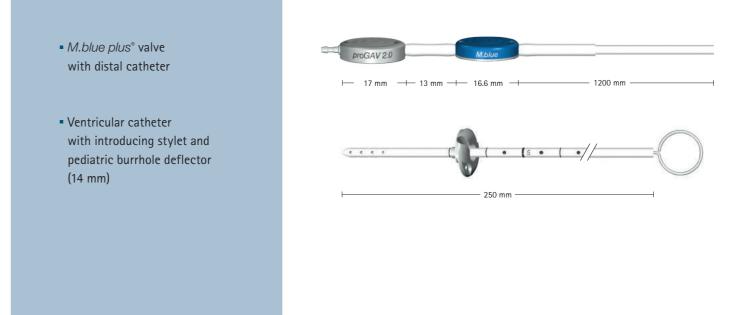
fferential pressure unit	Adjustable gravitational unit
cmH <sub>2</sub> O	0 - 40 cmH <sub>2</sub> 0

# M.blue® Shunt system

# M.blue plus® SHUNT SYSTEM

- *M.blue*<sup>®</sup> valve with distal catheter
- Ventricular catheter with introducing stylet and pediatric burrhole deflector (14 mm)





Differential pressure unit	Adjustable gravitational unit
0 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
5 cmH₂0	0 - 40 cmH <sub>2</sub> 0
10 cmH₂0	0 - 40 cmH <sub>2</sub> 0
15 cmH₂0	0 - 40 cmH <sub>2</sub> 0
	0 cmH <sub>2</sub> 0 5 cmH <sub>2</sub> 0 10 cmH <sub>2</sub> 0

M.blue plus®		
Art. no.	Adj. differential pressure unit	Adjustable gravitational unit
FX814T	0 - 20 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0

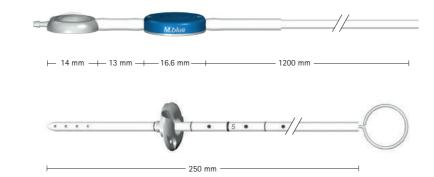


#### SHUNT SYSTEM WITH PEDIATRIC CONTROL RESERVOIR

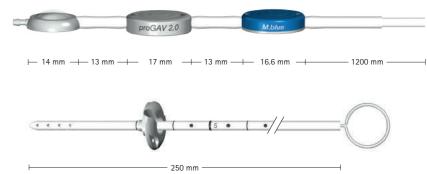
# M.blue plus®

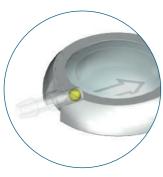
### SHUNT SYSTEM WITH PEDIATRIC CONTROL RESERVOIR

- M.blue<sup>®</sup> valve with integrated pediatric CONTROL RESERVOIR and distal catheter
- \* An additional valve in the inlet of the pediatric CONTROL RESERVOIR makes it possible to pump cerebrospinal fluid in the direction of drainage only, allowing inspection of both the distal drainage section as well as the ventricular catheter.
- Ventricular catheter with introducing stylet and pediatric burrhole deflector (14 mm)



- M.blue plus<sup>®</sup> valve with integrated pediatric CONTROL RESERVOIR and distal catheter
- \* An additional valve in the inlet of the possible to pump cerebrospinal fluid in the direction of drainage only, allowing inspecwell as the ventricular catheter.
- Ventricular catheter with introducing stylet and pediatric burrhole deflector (14 mm)





pediatric CONTROL RESERVOIR\*

M.blue®

Differential pressure unit	Adjustable gravitational unit
0 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
5 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
10 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
15 cmH₂0	0 - 40 cmH <sub>2</sub> 0
	0 cmH <sub>2</sub> 0 5 cmH <sub>2</sub> 0 10 cmH <sub>2</sub> 0



pediatric CONTROL RESERVOIR\*

M.blue plus® Art. no. Adj. dif FX819T 0 - 20 c

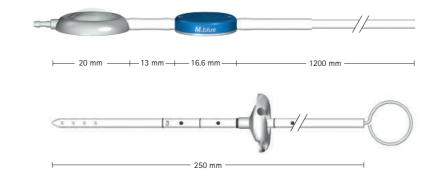


fferential pressure unit	Adjustable gravitational unit
cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0

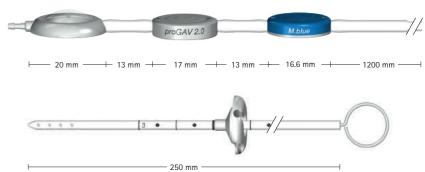
## M.blue<sup>®</sup> SHUNT SYSTEM WITH CONTROL RESERVOIR

# M.blue plus® SHUNT SYSTEM WITH CONTROL RESERVOIR

- M.blue<sup>®</sup> valve with integrated CONTROL RESERVOIR and distal catheter
- \* An additional valve in the inlet of the CONTROL RESERVOIR makes it possible to pump cerebrospinal fluid in the direction of drainage only, allowing inspection of both the distal drainage section as well as the ventricular catheter.
- Ventricular catheter with introducing stylet and burrhole deflector (20 mm)



- M.blue plus<sup>®</sup> valve with integrated CONTROL RESERVOIR and distal catheter
- \* An additional valve in the inlet of the pump cerebrospinal fluid in the direction of drainage only, allowing inspection of both ventricular catheter.
- Ventricular catheter with introducing stylet and burrhole deflector (20 mm)

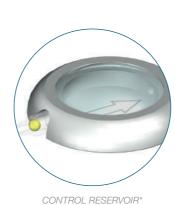




CONTROL RESERVOIR\*

M.blue <sup>®</sup>

INI.DIGO		
Art. no.	Differential pressure unit	Adjustable gravitational unit
FX820T	0 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
FX821T	5 cmH₂0	0 - 40 cmH <sub>2</sub> 0
FX822T	10 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
FX823T	15 cmH₂0	0 - 40 cmH <sub>2</sub> 0



M.blue plus <sup>®</sup>		
Art. no.	Adj. differential pressure unit	Adjustable gravitational unit
FX824T	0 - 20 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0

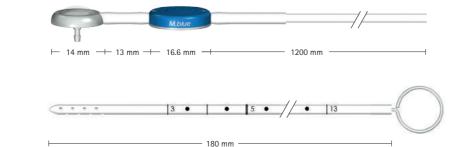


#### SHUNT SYSTEM WITH PEDIATRIC SPRUNG RESERVOIR

# M.blue plus®

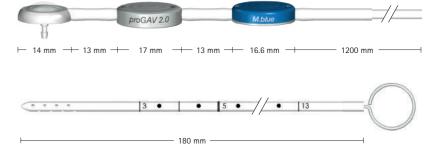
### SHUNT SYSTEM WITH PEDIATRIC SPRUNG RESERVOIR

- M.blue<sup>®</sup> valve with integrated pediatric SPRUNG RESERVOIR and distal catheter
- \* An additional valve in the inlet of the pediatric SPRUNG RESERVOIR makes it possible to pump cerebrospinal fluid in the direction of drainage, allowing inspection of both the distal drainage section as well as the ventricular catheter.
- Ventricular catheter with introducing stylet



 M.blue plus<sup>®</sup> valve with integrated pediatric SPRUNG RESERVOIR and distal catheter

- \* An additional valve in the inlet of the possible to pump cerebrospinal fluid in the direction of drainage only, allowing inspection of both the distal drainage section as well as the ventricular catheter.
- Ventricular catheter with introducing stylet



### **OCCIPITAL ONLY**



pediatric SPRUNG RESERVOIR\*

### M.blue®

111.0100		
Art. no.	Differential pressure unit	Adjustable gravitational unit
FX825T	$0 \text{ cmH}_20$	0 - 40 cmH <sub>2</sub> 0
FX826T	5 cmH₂O	0 - 40 cmH <sub>2</sub> 0
FX827T	10 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
FX828T	15 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0

**OCCIPITAL ONLY** 



pediatric SPRUNG RESERVOIR\*

M.blue plus® Art. no. Adj. dif FX829T 0 - 20 c

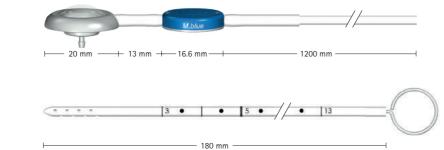


fferential pressure unit	Adjustable gravitational unit
cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0

### M.blue<sup>®</sup> SHUNT SYSTEM WITH SPRUNG RESERVOIR

# M.blue plus® SHUNT SYSTEM WITH SPRUNG RESERVOIR

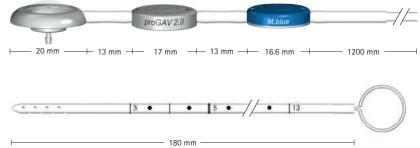
- M.blue<sup>®</sup> valve with integrated SPRUNG RESERVOIR and distal catheter
- \* An additional valve in the inlet of the SPRUNG RESERVOIR makes it possible to pump cerebrospinal fluid in the direction of drainage only, allowing inspection of both the distal drainage section as well as the ventricular catheter.
- Ventricular catheter with introducing stylet



 M.blue plus<sup>®</sup> valve with integrated SPRUNG RESERVOIR and distal catheter



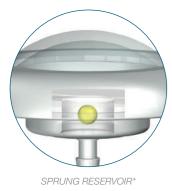
- \* An additional valve in the inlet of the pump cerebrospinal fluid in the direction of drainage only, allowing inspection of both ventricular catheter.
- Ventricular catheter with introducing stylet



### **OCCIPITAL ONLY**



M.blue plus <sup>®</sup>		
Art. no.	Adj. differential pressure unit	Adjustable gravitational unit
FX834T	0 - 20 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0



**OCCIPITAL ONLY** 

M.blue®

111.0100		
Art. no.	Differential pressure unit	Adjustable gravitational unit
FX830T	0 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
FX831T	5 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
FX832T	10 cmH₂0	0 - 40 cmH <sub>2</sub> 0
FX833T	15 cmH₂0	0 - 40 cmH <sub>2</sub> 0

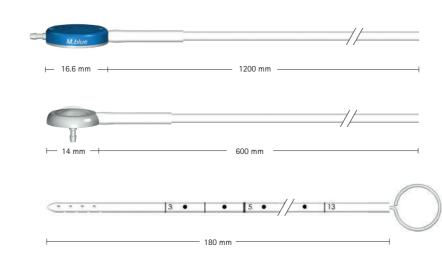


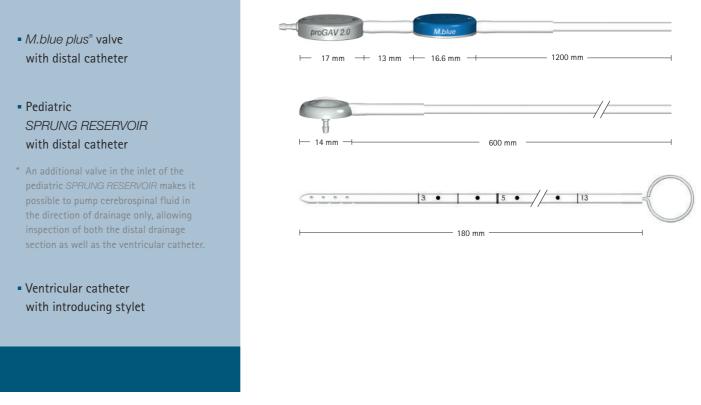
#### SHUNT SYSTEM WITH PEDIATRIC SPRUNG RESERVOIR

# M.blue plus®

### SHUNT SYSTEM WITH PEDIATRIC SPRUNG RESERVOIR

- M.blue<sup>®</sup> valve with distal catheter
- Pediatric SPRUNG RESERVOIR with distal catheter
- \* An additional valve in the inlet of the pediatric SPRUNG RESERVOIR makes it possible to pump cerebrospinal fluid in the direction of drainage only, allowing inspection of both the distal drainage section as well as the ventricular catheter.
- Ventricular catheter with introducing stylet







pediatric SPRUNG RESERVOIR\*

M.blue®		
Art. no.	Differential pressure unit	Adjustable gravitational unit
FX835T	0 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
FX836T	5 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
FX837T	10 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
FX838T	15 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0



#### M.blue plus® Art. no. Adj. dif FX839T 0 - 20 0



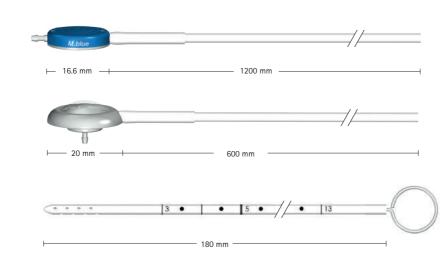


fferential pressure unit	Adjustable gravitational unit
cmH₂0	0 - 40 cmH <sub>2</sub> 0

## M.blue<sup>®</sup> SHUNT SYSTEM WITH SPRUNG RESERVOIR

# M.blue plus® SHUNT SYSTEM WITH SPRUNG RESERVOIR

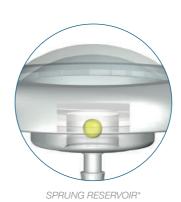
- M.blue<sup>®</sup> valve with distal catheter
- SPRUNG RESERVOIR with distal catheter
- \* An additional valve in the inlet of the SPRUNG RESERVOIR makes it possible to pump cerebrospinal fluid in the direction of drainage only, allowing inspection of both the distal drainage section as well as the ventricular catheter.
- Ventricular catheter with introducing stylet



*M.blue plus*<sup>®</sup> valve with distal catheter *SPRUNG RESERVOIR* with distal catheter
An additional valve in the inlet of the *SPRUNG RESERVOIR* makes it possible to pump cerebrospinal fluid in the direction of drainage only, allowing inspection of both the distal drainage section as well as the ventricular catheter.
Ventricular catheter



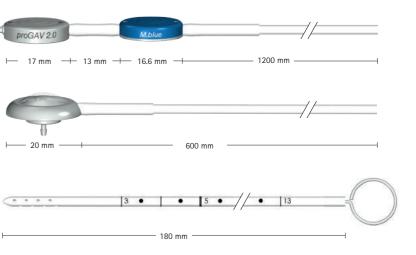
M.blue®		
Art. no.	Differential pressure unit	Adjustable gravitational unit
FX840T	0 cmH₂0	0 - 40 cmH <sub>2</sub> 0
FX841T	5 cmH₂0	0 - 40 cmH <sub>2</sub> 0
FX842T	10 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
FX843T	15 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0



with introducing stylet

M.blue plus <sup>®</sup>		
Art. no.	Adj. differential pressure unit	Adjustable gravitational unit
FX844T	0 - 20 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0



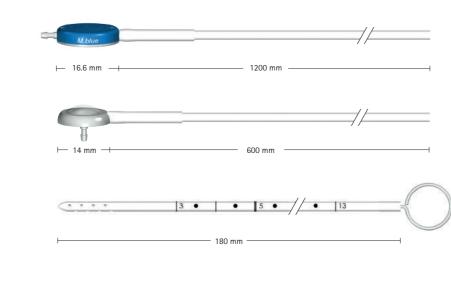


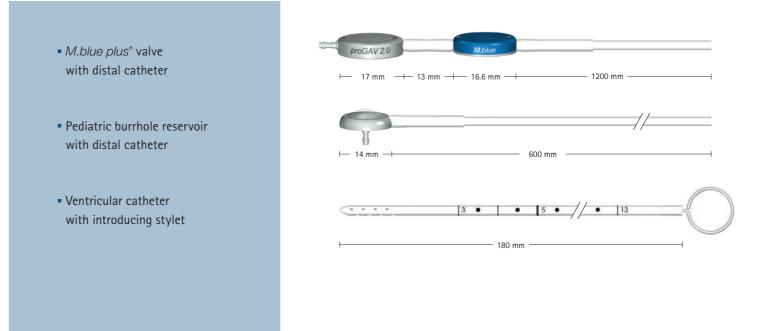
#### SHUNT SYSTEM WITH PEDIATRIC BURRHOLE RESERVOIR

## M.blue plus® SHUNT SYSTEM WITH PEDIATRIC BURRHOLE RESERVOIR



- Pediatric burrhole reservoir with distal catheter
- Ventricular catheter with introducing stylet





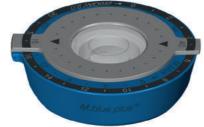
Differential pressure unit	Adjustable gravitational unit
0 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
5 cmH₂0	0 - 40 cmH <sub>2</sub> 0
10 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
15 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0
	0 cmH <sub>2</sub> 0 5 cmH <sub>2</sub> 0 10 cmH <sub>2</sub> 0

M.blue plus®		
Art. no.	Adj. differential pressure unit	Adjustable gravitational unit
FX849T	0 - 20 cmH <sub>2</sub> 0	0 - 40 cmH <sub>2</sub> 0



## M.blue plus® INSTRUMENTS SOFT TOUCH INSTRUMENTS

- *M.blue plus*<sup>®</sup> instrument set
- *M.blue plus*<sup>®</sup> compass
- M.blue plus<sup>®</sup> adjustment ring
- M.blue plus<sup>®</sup> adjustment assistant
- *M.blue*<sup>®</sup> adjustment check-mate



M.blue plus<sup>®</sup> compass





*M.blue plus*<sup>®</sup> adjustment assistant

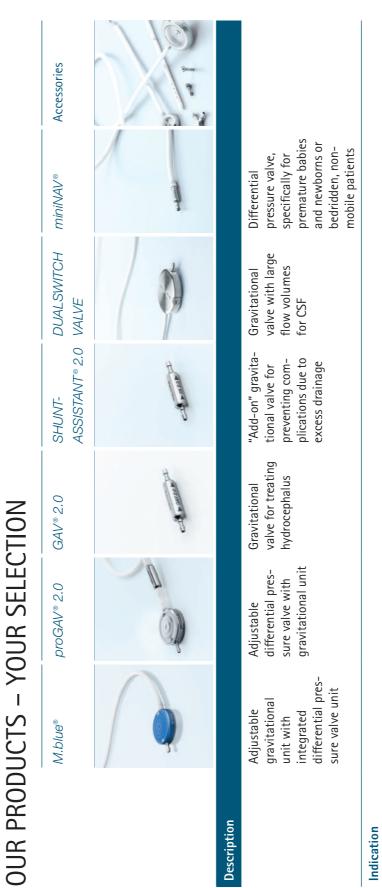


M.blue plus® adjustment ring

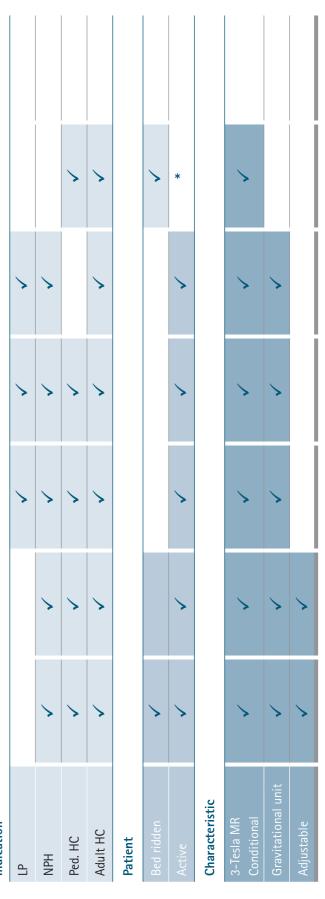


*M.blue*<sup>®</sup> adjustment check-mate

Art. no.	Instruments
FX890T	M.blue plus <sup>®</sup> instrument set (includes FX891T and FX892T)
FX891T	M.blue plus <sup>®</sup> compass
FX892T	M.blue plus® adjustment ring
FX893T	M.blue plus <sup>®</sup> adjustment assistant
FX894T	M.blue <sup>®</sup> adjustment check-mate







SSISTANT® 2.0 or M.Blue SHUNTAS with ction



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