MIETHKE

B|BRAUN
SHARING EXPERTISE

WE UNDERSTAND.

NEUROSURGERY

ACCESSORIES FOR MIETHKE SHUNT SYSTEMS

ACCESSORIES

CATHETERS

- All catheters are made of radio-paque silicone

d_i = 1.2 mm
d_o = 2.5 mm

PERITONEAL CATHETERS, BARIUM-IMPREGNATED

Art. no.	Length
FV070P	600 mm
FV071P	900 mm
FV072P	1200 mm

PERITONEAL CATHETER WITH INTEGRATED BARIUM STRIP

Art. no.	Length
FV091P	900 mm
FV090P	1200 mm

VENTRICULAR CATHETER WITH INTRODUCING STYLET, GRADUATED, BARIUM-IMPREGNATED, 8 BORES (16 HOLES)

Art. no.	Length
FV074P	180 mm
FV077P	250 mm

- All catheters are made of radiopaque silicone

  d_i = 1.2 mm
  d_o = 2.5 mm

- Design acc. Dr. Thomale

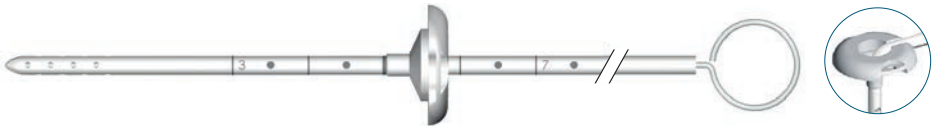
THOMALE KATHETER WITH STYLET, GRADUATED, BARIUM-IMPREGNATED, 3 BORES (6 HOLES)

Art. no.	Length
FV093P	180 mm

Deflector:

- With suture fixation hole
- Made of titanium
- Radiopaque
- Allows 90° deflection of the ventricular catheter in the burrhole without kinking the catheter
- Adjustable on catheter
- Allows precise setting of the penetration depth of the ventricular catheter prior to implantation

VENTRICULAR CATHETER WITH DEFLECTOR



Art. no.	Set
FV075P	▪ Ventricular catheter, 180 mm, with stylet, graduated ▪ Deflector, large, 16 mm
FV078P	▪ Ventricular catheter, 250 mm, with stylet, graduated ▪ Deflector, large, 16 mm

Art. no.	Set
FV076P	▪ Ventricular catheter, 180 mm, with stylet, graduated ▪ Deflector, small, 13 mm

ACCESSORIES

DEFLECTORS

- With suture fixation hole
- Made of titanium
- Radiopaque
- Allows 90° deflection of the ventricular catheter in the burrhole without kinking the catheter
- Adjustable on catheter

DEFLECTORS

Art. no.	Deflector
FV010T	large, 16 mm

Art. no.	Pediatric deflector
FV011T	small, 13 mm

PORTS

- Made of titanium
- Radiopaque
- Low overall height for easy and reliable positioning and fixation of the ventricular catheter
- Allows CSF extraction and drug injection by inserting a syringe through the silicone dome
- Solid titanium base preventing penetration with a syringe needle

Connector: d_o = 1.9 mm
Catheter: d_i = 1.2 mm, d_o = 2.5 mm

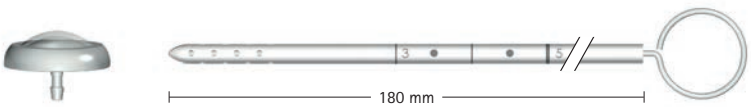
BURRHOLE PORTS

FV030T:

FV040T:

Art. no.	Ports
FV030T	large, 20 mm
FV040T	small, 14 mm

PORT SET



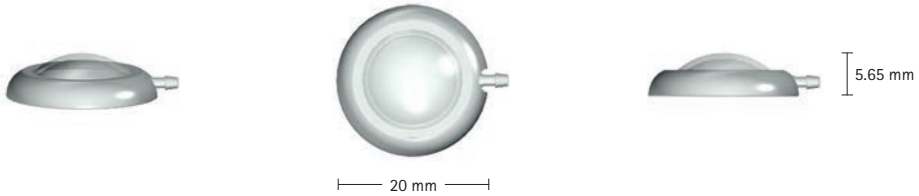
Art. no.	Set
FV042T	▪ Port, small, 14 mm ▪ Ventricular catheter, 180 mm, with stylet, graduated

ACCESSORIES

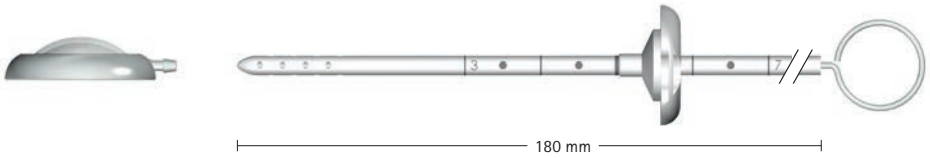
PORTS

- Made of titanium
- Radiopaque
- Low overall height for easy and reliable positioning and fixation of the ventricular catheter
- Allows CSF extraction and drug injection by inserting a syringe through the silicone dome
- Solid titanium base preventing penetration with a syringe needle

CSF-PORT



Art. no.	CSF-Port
FV060T	large, 20 mm



Art. no.	Set
FV062T	▪ CSF-Port, large, 20 mm ▪ Ventricular catheter, 180 mm, with stylet, graduated ▪ Deflector, large, 16 mm

Connector: d_o = 1.9 mm
Catheter: d_i = 1.2 mm, d_o = 2.5 mm

BURRHOLE RESERVOIR

- Made of titanium
- Radiopaque
- Low overall height for easy and reliable positioning and fixation of the ventricular catheter
- Allows CSF extraction and drug injection by inserting a syringe through the silicone dome
- Solid titanium base preventing penetration with a syringe needle
- A pediatric Burrhole Reservoir is also available, it is adapted to the size of a child's skull

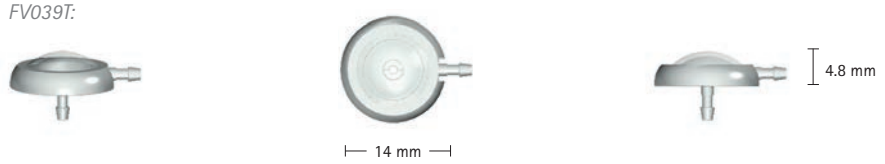
Connector: d_o = 1.9 mm
Catheter: d_i = 1.2 mm, d_o = 2.5 mm

BURRHOLE RESERVOIR

FV028T:

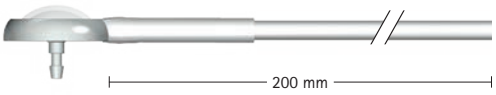
FV029T:

FV039T:



FV027T:

FV054T:



Art. no.	Burrhole Reservoir
FV028T	large, 20 mm
FV029T	ETOU Reservoir, large, 20 mm, with adjustable connector
FV039T	small, 14 mm
FV027T	large, 20 mm, with catheter, 600 mm
FV054T	small, 14 mm, with catheter, 200 mm

ACCESSORIES

BURRHOLE RESERVOIR

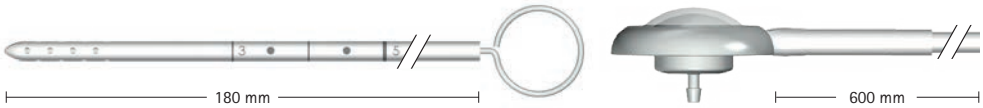
- Made of titanium
- Radiopaque
- Low overall height for easy and reliable positioning and fixation of the ventricular catheter
- Allows CSF extraction and drug injection by inserting a syringe through the silicone dome
- Solid titanium base preventing penetration with a syringe needle

Connector: d_o = 1.9 mm
Catheter: d_i = 1.2 mm, d_o = 2.5 mm

BURRHOLE RESERVOIR SET

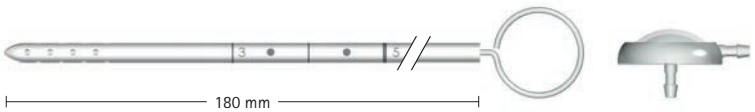
FV032T:

FV031T:

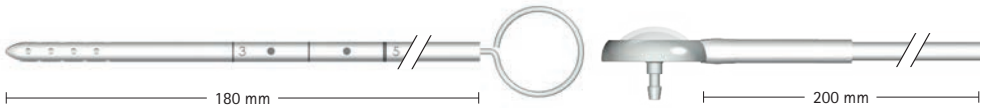


Art. no.	Set
FV032T	▪ Burrhole Reservoir, large, 20 mm ▪ Ventricular catheter, 180 mm, with stylet, graduated
FV031T	▪ Burrhole Reservoir, large, 20 mm, with catheter, 600 mm ▪ Ventricular catheter, 180 mm, with stylet, graduated

FV041T:



FV055T:



Art. no.	Set
FV041T	▪ Burrhole Reservoir, small, 14 mm ▪ Ventricular catheter, 180 mm, with stylet, graduated
FV055T	▪ Burrhole Reservoir, small, 14 mm, with catheter, 200 mm ▪ Ventricular catheter, 180 mm, with stylet, graduated

McLANAHAN RESERVOIR

- Made of titanium
- Radiopaque
- Allows checking the patency of both the ventricular catheter and the distal catheter
- Allows for CSF extraction and controlled drug injection into the ventricles
- Integrated mechanism shutting off the proximal connection to the ventricular catheter during pumping
- Integrated mechanism shutting off the distal connection during injection with syringe needle
- Design acc. to Dr. McLanahan

Connector: d_o = 1.9 mm

McLANAHAN RESERVOIR

FV082T:

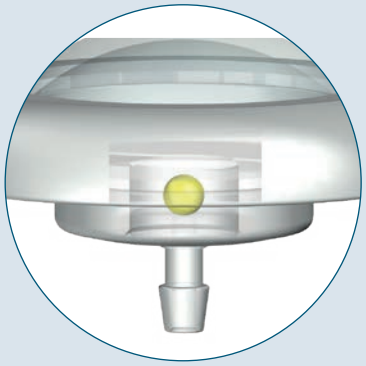
Art. no.	McLANAHAN RESERVOIR
FV082T	large, 20 mm

ACCESSORIES

SPRUNG RESERVOIR

- Made of titanium
- Radiopaque
- Allows checking the patency of both the ventricular catheter and the distal catheter
- Solid titanium base preventing penetration with a syringe needle
- Integrated mechanism shutting off the proximal connection to the ventricular catheter during pumping
- Design acc. to Dr. Sprung

Mechanism:



Connector: d_o = 1.9 mm
Catheter: d_i = 1.2 mm, d_o = 2.5 mm

SPRUNG RESERVOIR

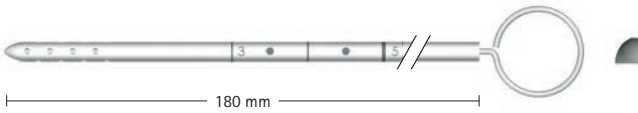
FV043T:

FV044T:

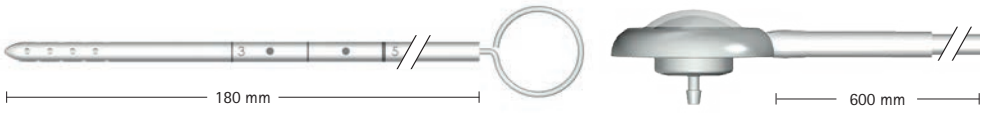
Art. no.	*SPRUNG RESERVOIR*
FV043T	large, 20 mm
FV044T	large, 20 mm, with catheter, 600 mm

SPRUNG RESERVOIR SET

FV045T:



FV046T:

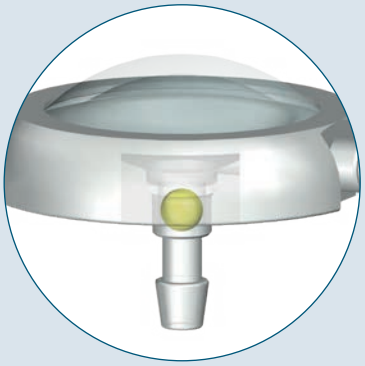


Art. no.	Set
FV045T	▪ *SPRUNG RESERVOIR*, large, 20 mm ▪ Ventricular catheter, 180 mm, with stylet, graduated
FV046T	▪ *SPRUNG RESERVOIR*, large, 20 mm, with catheter, 600 mm ▪ Ventricular catheter, 180 mm, with stylet, graduated

PEDIATRIC *SPRUNG RESERVOIR*

- Made of titanium
- Radiopaque
- Allows checking the patency of both the ventricular catheter and the distal catheter
- Solid titanium base preventing penetration with a syringe needle
- Integrated mechanism shutting off the proximal connection to the ventricular catheter during pumping
- Design acc. to Dr. Sprung
- Adapted to the size of a child's skull

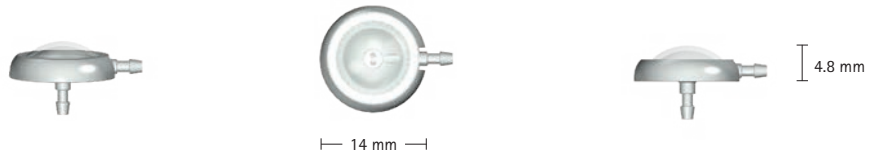
Mechanism:



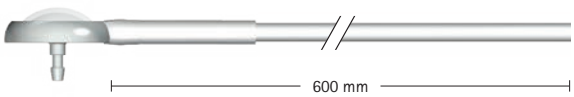
Connector: d_o = 1.9 mm
Catheter: d_i = 1.2 mm, d_o = 2.5 mm

PEDIATRIC *SPRUNG RESERVOIR*

FV063T:



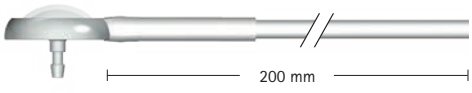
FV064T:

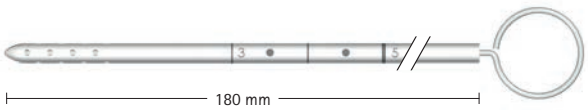


Art. no.	Pediatric *SPRUNG RESERVOIR*
FV063T	small, 14 mm
FV064T	small, 14 mm, with catheter, 600 mm

PEDIATRIC *SPRUNG RESERVOIR* SET

FV065T:





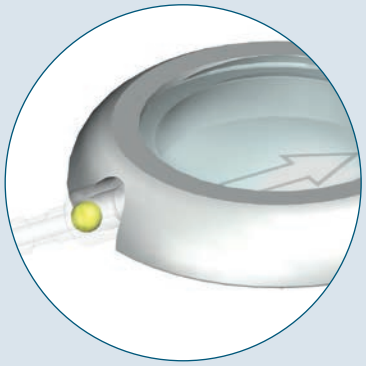
Art. no	Set
FV065T	▪ pediatric *SPRUNG RESERVOIR*, small, 14 mm, with catheter, 200 mm ▪ Ventricular catheter, 180 mm, with stylet, graduated

ACCESSORIES

CONTROL RESERVOIR

- Made of titanium
- Radiopaque
- Allows CSF extraction and drug injection by inserting a syringe through the silicone dome
- Allows checking the patency of both the ventricular catheter and the distal catheter
- Solid titanium base preventing penetration with a syringe needle
- Integrated valve mechanism shutting off the proximal connection to the ventricular catheter during pumping

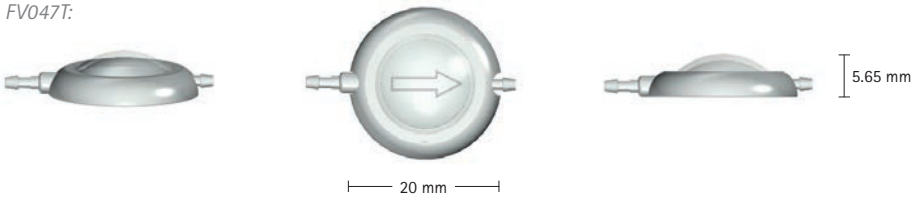
Mechanism:



Connector: d_o = 1.9 mm
Catheter: d_i = 1.2 mm, d_o = 2.5 mm

CONTROL RESERVOIR

FV047T:

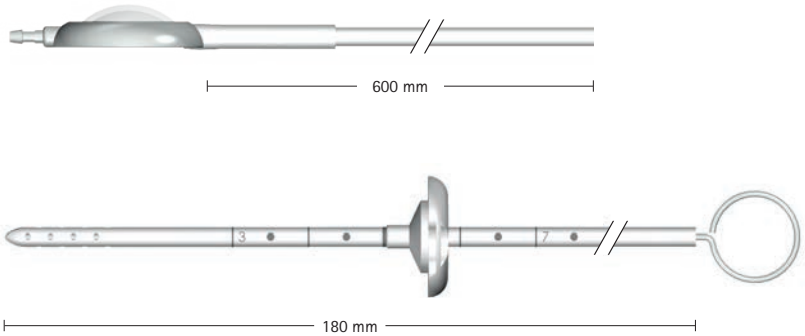


FV048T:

Art. no.	*CONTROL RESERVOIR*
FV047T	large, 20 mm
FV048T	large, 20 mm, with catheter, 600 mm

CONTROL RESERVOIR SET

FV049T:

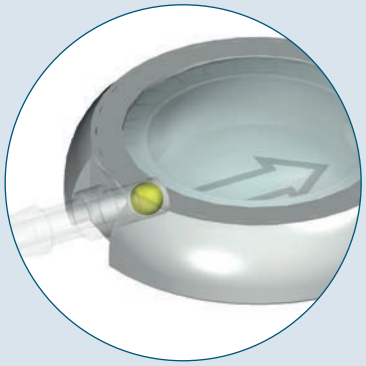


Art. no.	Set
FV049T	▪ *CONTROL RESERVOIR*, large, 20 mm, with catheter, 600 mm ▪ Ventricular catheter, 180 mm, with stylet, graduated, deflector, large, 16 mm

PEDIATRIC *CONTROL RESERVOIR*

- Made of titanium
- Radiopaque
- Allows CSF extraction and drug injection by inserting a syringe through the silicone dome
- Allows checking the patency of both the ventricular catheter and the distal catheter
- Solid titanium base preventing penetration with a syringe needle
- Integrated valve mechanism shutting off the proximal connection to the ventricular catheter during pumping
- Adapted to the size of a child's skull

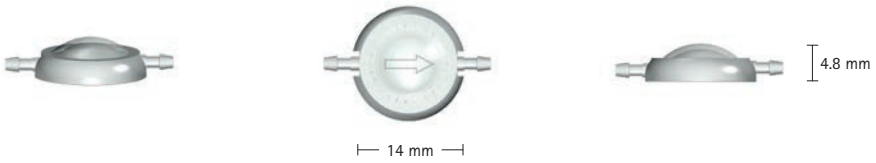
Mechanism:



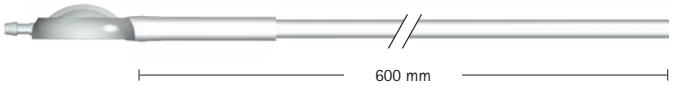
Connector: d_o = 1.9 mm
Catheter: d_i = 1.2 mm, d_o = 2.5 mm

PEDIATRIC *CONTROL RESERVOIR*

FV066T:



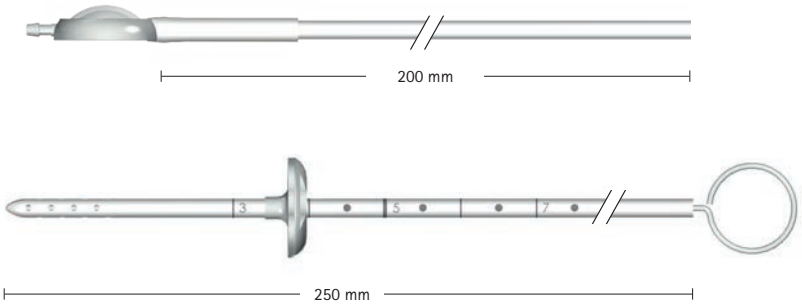
FV067T:



Art. no.	Pediatric *CONTROL RESERVOIR*
FV066T	small, 14 mm
FV067T	small, 14 mm, with catheter, 600 mm

PEDIATRIC *CONTROL RESERVOIR* SET

FV068T:



Art. no.	Set
FV068T	▪ pediatric *CONTROL RESERVOIR*, small, 14 mm, with catheter, 200 mm ▪ Ventricular catheter, 250 mm, with stylet, graduated with pediatric deflector, small, 13 mm

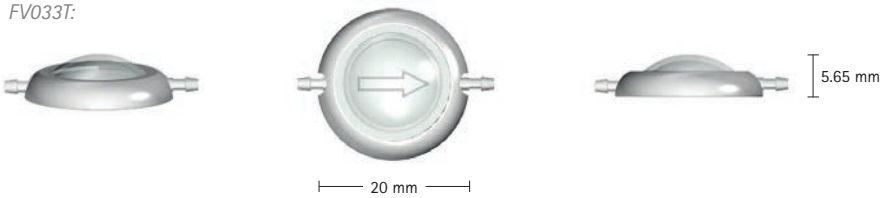
ACCESSORIES

PRECHAMBER

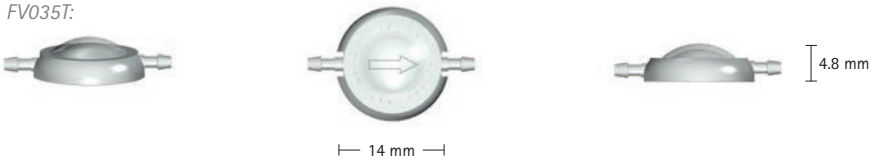
- Made of titanium
- Radiopaque
- Allows CSF extraction and drug injection by inserting a syringe through the silicone dome
- Solid titanium base preventing penetration with a syringe needle

PRECHAMBER

FV033T:



FV035T:



FV034T:

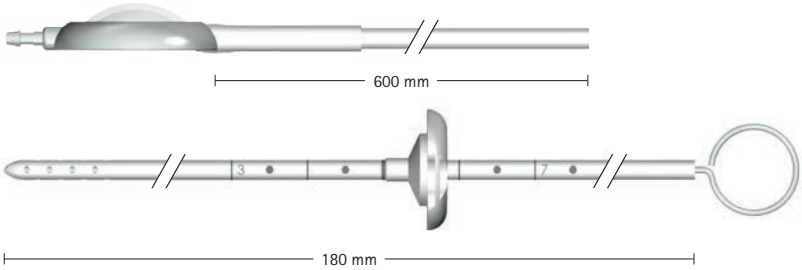
Art. no.	Prechamber
FV033T	large, 20 mm
FV035T	small, 14 mm
FV034T	large, 20 mm, with catheter, 600 mm

Connector: d_o = 1.9 mm
Catheter: d_i = 1.2 mm, d_o = 2.5 mm

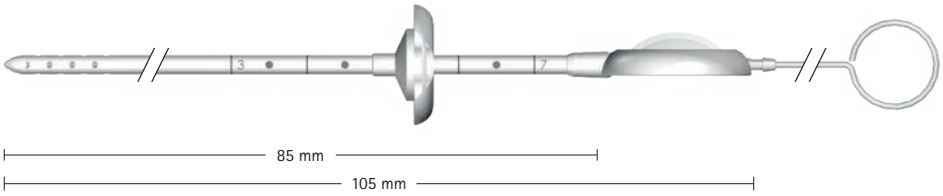
- Made of titanium
- Radiopaque
- Allows CSF extraction and drug injection by inserting a syringe through the silicone dome
- Solid titanium base preventing penetration with a syringe needle

PRECHAMBER SET

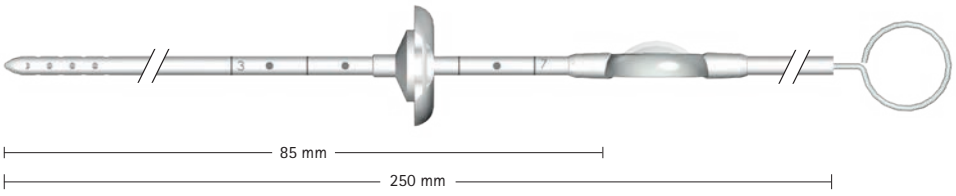
FV036T:



FV037T:



FV079T:



Art. no.	Set
FV036T	▪ Ventricular catheter, 180 mm, with stylet, graduated ▪ Prechamber, large, 20 mm, with catheter, 600 mm ▪ Deflector, large, 16 mm
FV037T	▪ Ventricular catheter, 85 mm, graduated, and integrated prechamber, large, 20 mm and stylet ▪ Deflector, large, 16 mm
FV079T	▪ Ventricular catheter, 85 mm, graduated, and integrated prechamber, small, 14 mm with distal catheter, 153 mm and stylet ▪ Deflector, large, 16 mm

Connector: d_o = 1.9 mm
Catheter: d_i = 1.2 mm, d_o = 2.5 mm

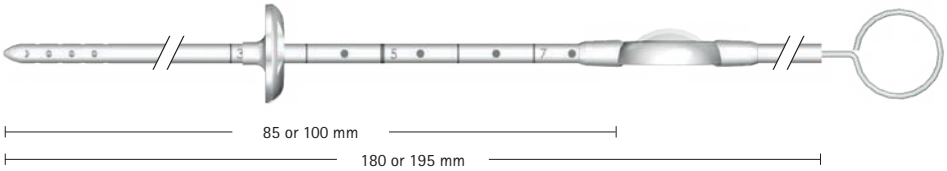
ACCESSORIES

PRECHAMBER

- Made of titanium
- Radiopaque
- Allows CSF extraction and drug injection by inserting a syringe through the silicone dome
- Solid titanium base preventing penetration with a syringe needle

PRECHAMBER SET

FV038T/FV080T:



Art. no.	Set
FV038T	▪ Ventricular catheter, 85 mm, graduated, and integrated prechamber, small, 14 mm with catheter, 80 mm and stylet ▪ Deflector, small, 13 mm
FV080T	▪ Ventricular catheter, 100 mm, graduated, and integrated prechamber, small, 14 mm with catheter, 80 mm and stylet ▪ Deflector, small, 13 mm

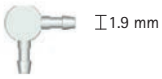
Connector: d_o = 1.9 mm
Catheter: d_i = 1.2 mm, d_o = 2.5 mm

TITANIUM CONNECTORS

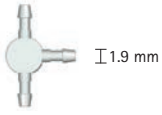
- Preferably for use with catheters of:
  - internal diameter d_i = 1.2 mm
  - external diameter d_o = 2.5 mm
- Connector diameter: d_o = 1.9 mm

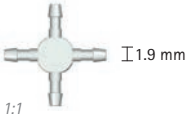
TITANIUM CONNECTORS

	Straight	Art. no.	Sales unit
	 1:1	FV012T	1 pc.
		FV013T	5 pcs.
		FV014T	10 pcs.

	L-shape	Art. no.	Sales unit
	 1:1	FV051T	1 pc.

	Y-shape	Art. no.	Sales unit
		FV015T	1 pc.
		FV016T	5 pcs.
		FV017T	10 pcs.

	T-shape	Art. no.	Sales unit
	 1:1	FV018T	1 pc.
		FV019T	5 pcs.
		FV020T	10 pcs.

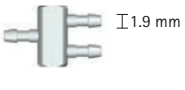
	X-shape	Art. no.	Sales unit
	 1:1	FV021T	1 pc.

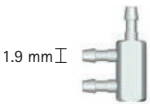
ACCESSORIES

MAGRAM CONNECTORS

- Preferably for use with catheters of:
  - internal diameter d_i = 1.2 mm
  - external diameter d_o = 2.5 mm
- Connector diameter: d_o = 1.9 mm
- Design acc. to Dr. Magram

MAGRAM CONNECTORS

	Y-shape	Art. no.	Sales unit
	 1:1	FV056T	1 pc.

	F-shape	Art. no.	Sales unit
	 1:1	FV058T	1 pc.

	L-shape	Art. no.	Sales unit
	 1:1	FV059T	1 pc.

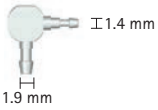
	Sealing plugs	Art. no.	Sales unit
	 1:1	FV024T	1 pc.
		FV025T	5 pcs.
		FV026T	10 pcs.

TITANIUM CONNECTORS

- Step-down connectors are designed for connecting standard catheters to lumbar catheters
- Step-down connector diameters: d_o = 1.9 mm to 1.4 mm

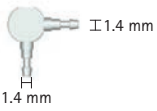
TITANIUM CONNECTORS, STEP-DOWN

	Straight	Art. no.	Sales unit
	 1:1	FV050T	1 pc.

	L-shape	Art. no.	Sales unit
	 1:1	FV052T	1 pc.

- L-P connectors are designed for connecting two lumbar catheters
- Connector diameters for L-P drainage: d_o = 1.4 mm

TITANIUM CONNECTOR, L-P DRAINAGE

	L-shape	Art. no.	Sales unit
	 1:1	FV053T	1 pc.

ACCESSORIES

TUNNELING INSTRUMENTS

- For percutaneous tunneling and inserting of catheters

REUSABLE TUNNELING INSTRUMENT, CURVED

Art. no.	Length
FV001R	working length 130 mm, 5 ⅛"

- For percutaneous tunneling and inserting of catheters

SINGLE USE TUNNELING INSTRUMENT, FLEXIBLE
SALES UNIT: PAK= PACKAGE OF 10 PIECES, EACH IN INDIVIDUAL STERILE PACKAGING

Art. no.	Length
FV002R	300 mm, 11 3/4"
FV003R	450 mm, 17 3/4"
FV004R	600 mm, 23 5/8"

OUR SHUNT SYSTEMS – YOUR CHOICE

	proSA®	*proGAV® 2.0*	*GAV® 2.0*	*SHUNT-ASSISTANT® 2.0*	*DUALSWITCH Valve*	*miniNAV®*	*Accessories*
							
Description							
	Adjustable gravitational unit with differential pressure valve	Adjustable differential pressure valve with gravitational unit	Gravitational valve for treating Hydrocephalus	Gravitational valve to prevent overdrainage complications	Gravitational valve with large flow volumes for CSF	Differential pressure valve, specifically for premature babies and newborns or bedridden or non-mobile patients	
Indication							
LP			✓	✓	✓		
NPH	✓	✓	✓	✓	✓		
Pediatric HC	✓	✓	✓	✓		✓	
Adult HC	✓	✓	✓	✓	✓	✓	
Patient							
Lying	✓	✓				✓	
Active	✓	✓	✓	✓	✓	*	
Feature							
3-Tesla MR Conditional	✓	✓	✓	✓	✓	✓	
Gravitational Unit	✓	✓	✓	✓	✓		
Adjustable	✓	✓					

* in combination with *SHUNTASSISTANT® 2.0* or *proSA®*

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TELEMETRIC SHUNT CONTROL – READING INNER VALUES

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Manufacturer acc. MDD 93/42/EEC

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