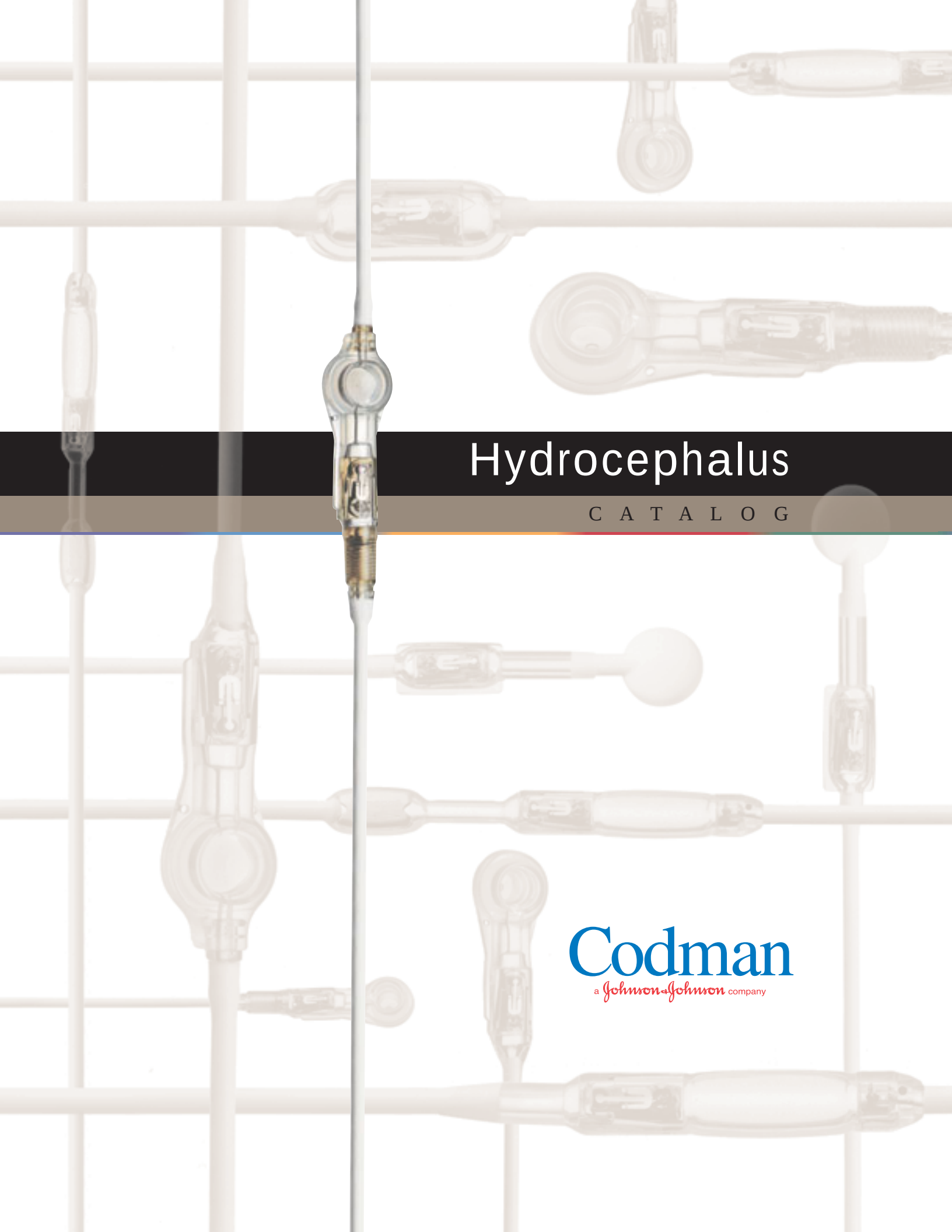
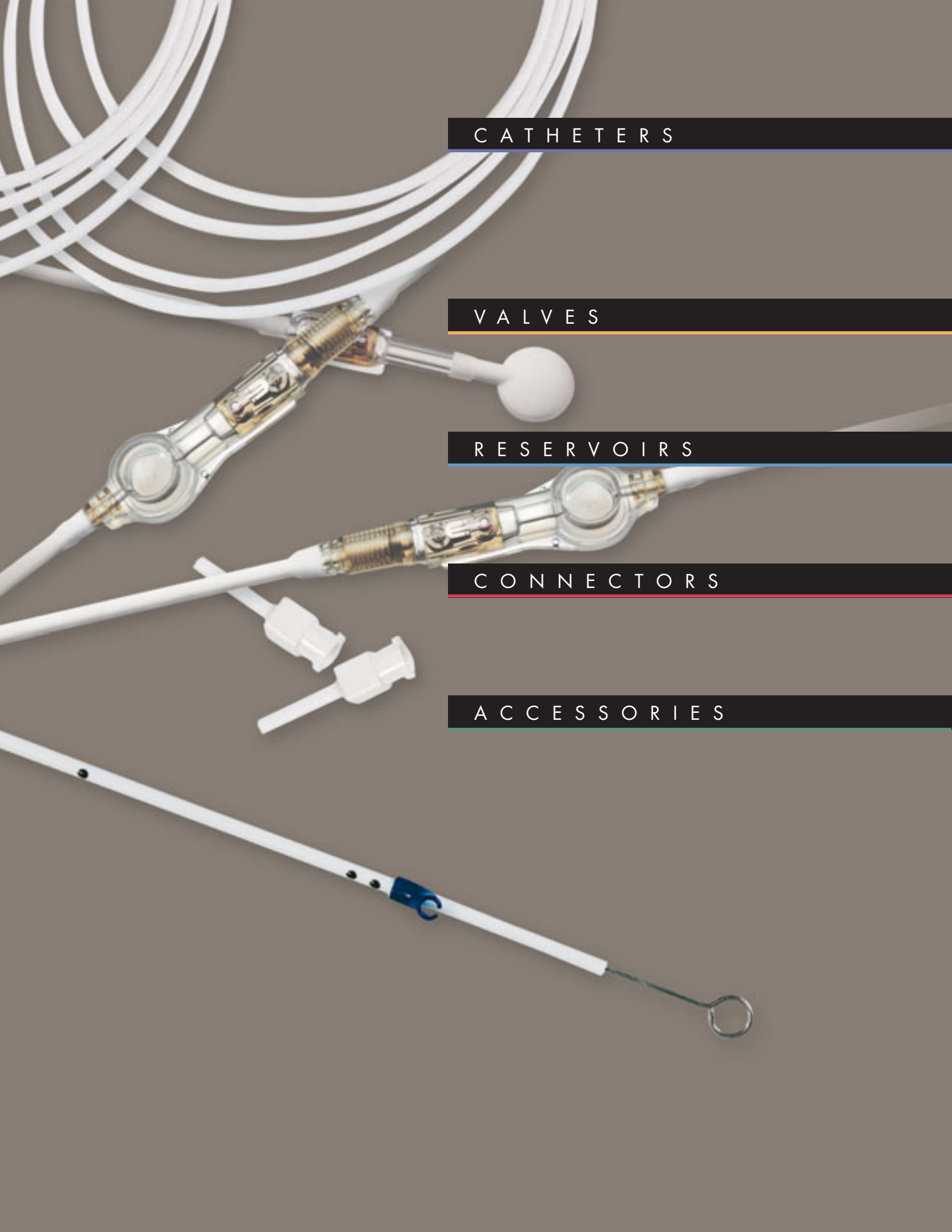


The background of the entire page is a light beige color with a grid of thin, light-colored lines. Overlaid on this grid are numerous medical shunt tubes and valves, which are the primary focus of the catalog. These devices are shown in various orientations and positions, some in sharp focus and others blurred, creating a sense of depth and variety. The tubes are typically white or light grey, while the valves are more complex, often featuring clear plastic housings and internal mechanisms. Some valves have circular ports, while others have more intricate, multi-part designs. The overall aesthetic is clean and professional, typical of a medical product catalog.

Hydrocephalus

C A T A L O G

Codman
a *Johnson & Johnson* company

The image displays various medical components against a dark grey background. At the top left, a coiled white tube is visible. Below it, a complex assembly of metal and plastic parts, including a valve and a reservoir, is shown. Further down, another similar assembly is visible. In the center, two white plastic connectors are shown. At the bottom, a long white tube with a blue clip and a metal loop at the end is displayed.

CATHETERS

VALVES

RESERVOIRS

CONNECTORS

ACCESSORIES

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Codman & Shurtleff, Inc., is dedicated to supporting the neurosurgical community in managing hydrocephalus. Our line of CODMAN® HAKIM® Precision and Programmable Valves allow the neurosurgeon a wide range of options to suite their individual patient needs.

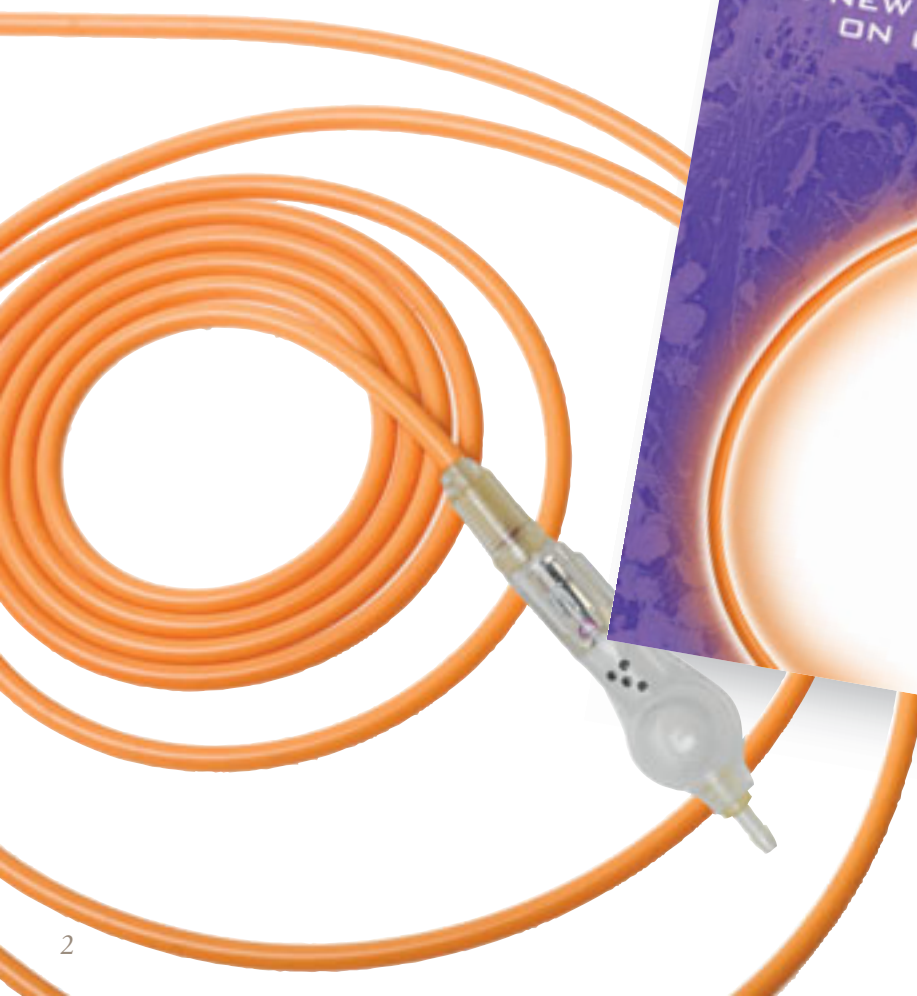
Please contact your local Codman Sales Representative for other hydrocephalus products tailored to your specific needs.

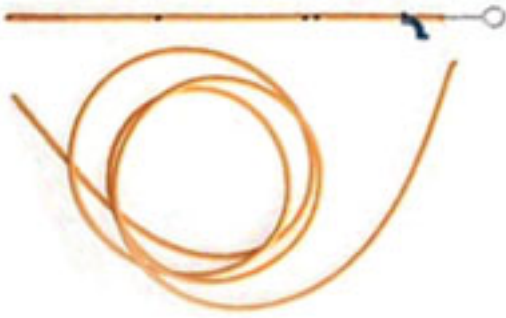
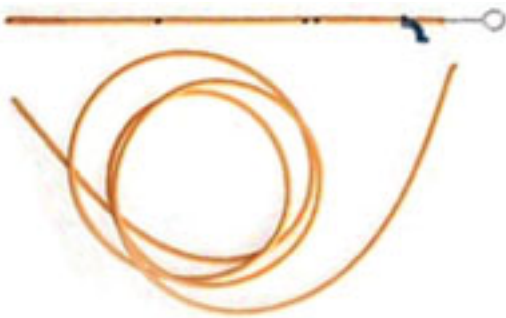
CODMAN BACTISEAL ANTIMICROBIAL IMPREGNATED CATHETER SYSTEM

BACTISEAL Antibiotic Impregnated Silicone Matrix

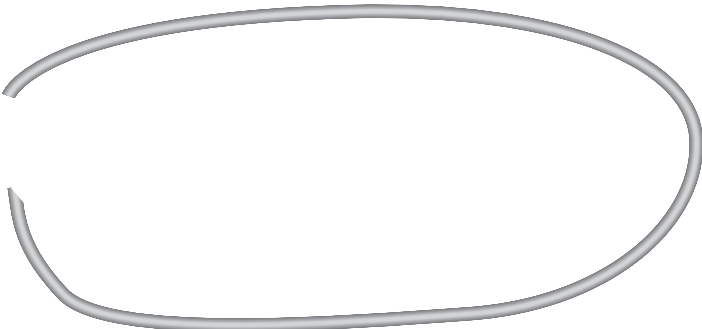
Creating a unique and effective barrier to bacterial colonization on all catheter surfaces.

- Maintaining the critical first month shunt implant vigil with two, slow release antibiotics.
- Reducing the potential for bacterial colonization both in the catheter lumen and on its outer surface.

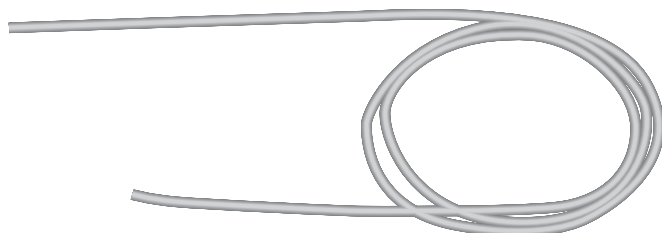


	Product Code	Length /Description
	82-3072	CODMAN BACTISEAL Barium Silicone Catheter Kit contains one each: 14cm Ventricular Catheter with barium, 120cm Peritoneal Catheter.
	82-3073	CODMAN BACTISEAL Barium Silicone Ventricular Catheter
	82-3074	CODMAN BACTISEAL Barium Silicone Peritoneal Catheter
	NS-0343	CODMAN BACTISEAL Barium Silicone Ventricular Catheter Catheter L. 23cm, .050" x .100" 1.3mm x 2.5mm, length of burr hole 1.5cm, ACCU-FLO style holes and tip.
	NS-0338	CODMAN BACTISEAL Clear Silicone with barium stripe Ventricular Catheter, Catheter L. 15cm, Clear w/strip .050" x .100" 1.3 mm x 2.5mm, length of burr hole 1.5cm, ACCU-FLO style holes and tip.
	NS-0339	CODMAN BACTISEAL Clear Silicone with barium stripe Peritoneal (distal) Catheter, Catheter L. 120cm, .050" x .100" 1.3mm x 2.5mm
	NS-0340	CODMAN BACTISEAL Clear Silicone with barium stripe Ventricular & Peritoneal Catheters. Kit contains one each: 15cm Ventricular Catheter, 120cm Peritoneal Catheter

ATRIAL CATHETERS, HAKIM

	Product Code	Length /Description
	82-3044	CODMAN HAKIM Atrial Catheter, 46cm (1mm I.D. x 2.2mm O.D.)

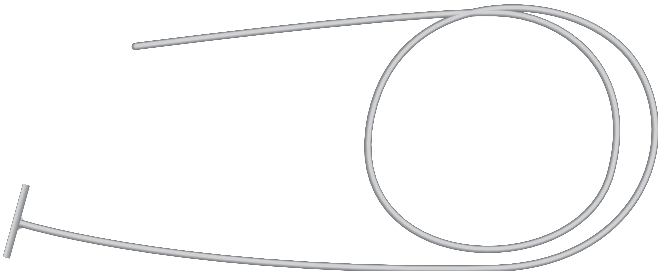
ATRIAL CATHETERS, HOLTER

	Product Code	Length /Description
	82-1670	HOLTER Distal Atrial Catheter, Type A, sterile, barium impregnated with two lumen configurations to meet various shunting needs. I.D. of 1.2mm and an O.D. of 2.5mm. The small, or stepped down portion lumen have an I.D. of .8mm and an O.D. of 1.3mm. Total length 45cm Supplied with two sterile (82-1694) HOLTER Type A connectors.

	Product Code	Length /Description
	82-1676	HOLTER Distal Atrial Catheter, Type E, barium, sterile. Small Catheter Length 24cm Large Catheter Length 24cm Total length 48cm Supplied with one sterile (82-1694) HOLTER Type A Connector.

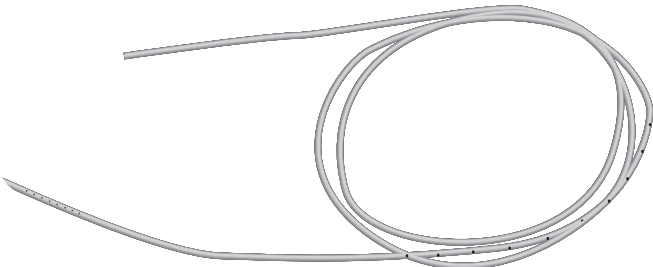
LUMBOPERITONEAL CATHETERS, HOLTER

Lumboperitoneal Catheters are designed for shunting from the subarachnoid space to the peritoneal cavity. This method provides a simple means of treating communicating hydrocephalus, and is an effective alternative to standard V.A. or V.P. shunts in the treatment of pseudotumor cerebri, cranial and spinal CSF fistula (non-infected), and recurrent bulging craniotomy sites. HOLTER Lumboperitoneal Catheters manufactured as a one-piece silicone tubing with an I.D. of 1.2mm and an O.D. of 2.5mm. The 3cm T-portion has four sets of three proximal holes, and has 1.0mm I.D. and 1.8mm O.D. The peritoneal catheter end has three longitudinal slits (120° apart) to regulate flow and prevent reflux.

	Product Code	Length/Description
	82-1698	HOLTER Lumboperitoneal Catheter, T-shaped, one-piece, sterile, with 3.5mm slit valves. Length 65cm
	82-1699	HOLTER Lumboperitoneal Catheter, T-shaped, one-piece, sterile, with 4.0mm slit valves. Length 65cm

LUMBOPERITONEAL CATHETERS, JAMES

Lumboperitoneal Catheters, JAMES design, one-piece, sterile. Pressure is controlled through distal slit valves (5–9cm H₂O Medium Pressure), four slits 90° apart. The proximal tip is perforated, open ended and angled cut for easy insertion. I.D.=.76mm. O.D.=1.65mm.

	Product Code	Length /Description
	82-6200	25cm
	82-6201	50cm
	82-6202	80cm Use the 45-1020 Touhy Needle for the insertion of the James Lumboperitoneal Shunt into the spinal subarachnoid space.

PERITONEAL, ACCU-FLO Open End

	Product Code	Length /Description
	82-1380	ACCU-FLO Barium Distal Open End Catheter, sterile. Made of barium impregnated silicone tubing. 1.3mm I.D. x 2.5mm O.D. x-ray detectable. Each catheter has 24 drainage holes, four rows of six holes, 90° apart. X-ray detectable tantalum markings are at the distal 10cm, 20cm, and 30cm. Length 91cm

PERITONEAL, ACCU-FLO Distal Slit Valve Catheters are made of silicone tubing, 1.3mm I.D. x 2.5mm O.D. Each catheter has a rounded x-ray detectable tantalum tip. The slit valves in CODMAN's distal valve catheters are 90° apart, and are precisely cut to achieve more consistent closing pressures. The pressure of each valve catheter is tested before it is packaged. The dots on each valve catheter indicate the pressure:

- One dot = Low Pressure
2–5cm H₂O closing pressure
- Two dots = High Pressure
5–9cm H₂O closing pressure
- Three dots = High Pressure
9–14cm H₂O closing pressure

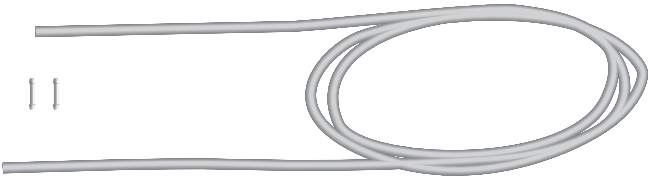
		Closing Pressure (Measured in cm of Water)
	82-1301	2-5cm H ₂ O Low Pressure
	82-1302	5-9cm H ₂ O Medium Pressure
	82-1303	9-14cm H ₂ O High Pressure

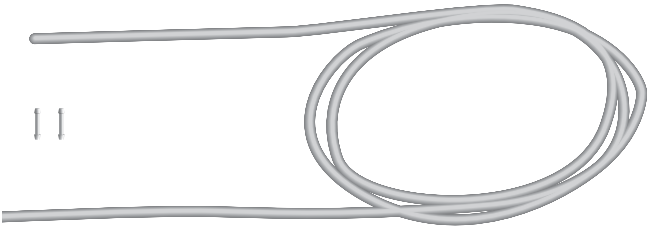
PERITONEAL, HAKIM

	Product Code	Length /Description
	82-3045	CODMAN HAKIM Peritoneal Catheter, 120cm (1mm I.D. x 2.2mm O.D.)

PERITONEAL CATHETERS, HOLTER

HOLTER Distal Peritoneal Catheters, barium, sterile. Barium impregnated with an I.D. of 1.2mm and an O.D. of 2.5mm. Supplied with two sterile 82-1694 HOLTER Type A connectors. Length 90cm

	Product Code	Length /Description
	82-1682	Open end

	Product Code	Length /Description
	82-1684	Salmon style, closed distal tip with four side slits 90° apart. The tip is solid silicone and is more heavily opacified for positive x-ray identification.

VENTRICULAR CATHETER, ACCU-FLO

	Product Code	Length/Description
	82-1221	ACCU-FLO Dotted Ventricular Catheter, sterile. Rounded x-ray detectable tantalum tip. Clear silicone tubing with x-ray detectable tantalum markings every 1cm. With 40 inlet holes, four rows of ten holes, 90° apart. Includes sterile stainless steel stylet. Length 15cm

	Product Code	Length	Description
	82-1231	5cm	ACCU-FLO Barium Right Angle Ventricular Catheters, sterile. X-ray detectable throughout. Rounded x-ray detectable tantalum tip. With 40 holes, four rows of ten holes, 90° apart. Includes sterile stainless steel stylet.
	82-1232	7cm	
	82-1233	9cm	
	82-1234	11cm	

	Product Code	Length/Description
	82-1201	Catheters are packaged sterile and are made from silicone tubing, 1.3mm I.D. x 2.5mm O.D. ACCU-FLO Barium Ventricular Catheter, sterile. X-ray detectable throughout. Rounded x-ray detectable tantalum tip. X-ray detectable tantalum markings, 5cm and 10cm. With 40 inlet holes, four rows of ten holes, 90° apart. Includes sterile stainless steel stylet. Length 15cm

	82-1203	ACCU-FLO Clear Ventricular Catheter, sterile. Rounded x-ray detectable tantalum tip. X-ray detectable tantalum mark at 15cm. With 40 inlet holes, four rows of ten holes, 90° apart. Length 30cm
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VENTRICULAR CATHETER, HAKIM

	Product Code	Length/Description
	82-3041	HAKIM Ventricular Catheter, 14cm Supplied with stylet, introducer, and right angle adapter. (1.4mm I.D. x 2.7mm O.D.)

HOLTER VENTRICULAR CATHETER

	Product Code	Length	
	82-1630	3cm	The Ventricular Catheter has a height of 6.0mm. The catheter segment and distal end of the catheter-reservoir has a 1.5mm inside diameter and a 3.1mm outside diameter
	82-1632	4cm	
	82-1634	5cm	
	82-1636	6cm	
	82-1638	7cm	
	82-1640	8cm	
	82-1642	9cm	

	Product Code	Length/Description
	83-1371	Slit Ventricular Catheter Preslit HOLTER design ventricular catheter for endoscopic shunt placement. Barium impregnated radiopaque silicone tubing with multiple tip perforations. I.D. 1.5mm, O.D. 3mm, length 15cm. X-ray detectable dots: one dot at 5cm from the tip, two dots at 10cm from the tip. Packaged sterile.

HOLTER SYSTEM

The CODMAN HOLTER Barium Impregnated System provides both straight and right angle ventricular catheters. The right angle catheters are designed for use when a reservoir is not required. All ventricular catheters have a 3.1mm O.D. and a 1.5mm I.D. All ventricular tips have multiple perforations.

	Product Code	Length /Description
	82-1652	3cm
	82-1654	4cm
	82-1658	6cm
	82-1660	7cm
	82-1662	8cm
	82-1650	15cm HOLTER Ventricular Catheter, barium, straight, sterile.

CODMAN HAKIM PROGRAMMABLE VALVE SYSTEM

With the advent of the CODMAN Programmable Valve System, neurosurgeons can pre-select one of 18 different pressure settings. After implantation, the valve can be adjusted non-invasively to adapt to changes in patient condition. That means surgeons are able to make precise pressure adjustments to help control intracranial pressure and ventricle size at any time.



CODMAN HAKIM Programmer



Non-invasive programming technique

VALVES are marked with X-RAY DETECTABLE DIRECTION OF FLOW INDICATOR ().

CYLINDRICAL VALVE WITH PRECHAMBER



Product Code	Description
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82-3110	CODMAN HAKIM Programmable Valve Cylindrical Valve with Prechamber Includes: Programmable Valve, Information Manual, Straight Connector(s)*, Introducer.**
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82-3111	CODMAN HAKIM Programmable Valve Cylindrical Valve with Prechamber and Unitized Distal Catheter. Includes: Programmable Valve, 14cm Ventricular Catheter, 120cm Unitized Peritoneal Catheter, Information Manual, Straight Connector(s),* Introducer,** and Right Angle Adapter.
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CYLINDRICAL VALVE



Product Code	Description
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82-3115	CODMAN HAKIM Programmable Valve Cylindrical Valve. Includes: Programmable Valve, Information Manual, Straight Connector(s),* Introducer.**
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MICRO VALVE WITH RICKHAM RESERVOIR



Product Code	Description
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82-3113	CODMAN HAKIM Programmable Valve Micro Valve with Rickham Reservoir, and Unitized Distal Catheter. Includes: Programmable Valve, 14cm Ventricular Catheter, 120cm Unitized Peritoneal Catheter, Information Manual, and Priming Adapter.***
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82-3116	CODMAN HAKIM Programmable Valve Micro Valve with Rickham Reservoir. Includes: Programmable Valve, Information Manual, Straight Connector(s),* and Priming Adapter.***
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* Straight Connectors provided with Cylindrical and Micro versions only

** Introducers provided with Cylindrical versions only

*** Priming Adapter provided with In-Line, Right Angle and Micro versions only

VALVES are marked with X-RAY DETECTABLE DIRECTION OF FLOW INDICATOR ().

MICRO VALVE



Product Code	Description
82-3112	CODMAN HAKIM Programmable Valve Micro Valve and Unitized Distal Catheter. Includes: Programmable Valve, Information Manual, Straight Connector(s),* and Priming Adapter.**
82-3114	CODMAN HAKIM Programmable Valve Micro Valve. Includes: Programmable Valve, 14cm Ventricular Catheter, 120cm Unitized Peritoneal Catheter, Information Manual, Straight Connector(s),* Right Angle Adapter,** and Priming Adapter.**

IN-LINE VALVE WITH SIPHONGUARD DEVICE



Product Code	Description
82-3162	CODMAN HAKIM Programmable Valve In-Line Valve with SIPHONGUARD Device. Includes: Programmable Valve, Information Manual, and Priming Adapter.**
82-3832	CODMAN HAKIM Programmable Valve In-Line Valve with SIPHONGUARD Device. Includes: Programmable Valve, 14cm Ventricular Catheter, 120cm Peritoneal Catheter, Information Manual, Right Angle Adapter, and Priming Adapter.**
82-3842	CODMAN HAKIM Programmable Valve In-Line Valve with SIPHONGUARD Device and Unitized Distal Catheter. Includes: Programmable Valve, 14cm Ventricular Catheter, 120cm Unitized Peritoneal Catheter, Information Manual, Right Angle Adapter, and Priming Adapter.**

* Straight Connectors provided with Cylindrical and Micro versions only
 ** Introducers provided with Cylindrical versions only
 *** Priming Adapter provided with In-Line, Right Angle and Micro versions only

VALVES are marked with X-RAY DETECTABLE DIRECTION OF FLOW INDICATOR (→).

IN-LINE VALVE



Product Code	Description
82-3164	CODMAN HAKIM Programmable Valve In-Line Valve. Includes: Programmable Valves Information Manual, and Priming Adapter.***
82-3834	CODMAN HAKIM Programmable Valve In-Line Valve. Includes: Programmable Valve, 14cm Ventricular Catheter, 120cm Peritoneal Catheter, Information Manual, Right Angle Adapter, and Priming Adapter.***
82-3844	CODMAN HAKIM Programmable Valve In-Line Valve and Unitized Distal Catheter. Includes: Programmable Valve, 14cm Ventricular Catheter, 120cm Unitized Peritoneal Catheter, Information Manual, Right Angle Adapter, and Priming Adapter.***

RIGHT ANGLE VALVE



Product Code	Description
82-3148	CODMAN HAKIM Programmable Valve Right Angle Valve and Unitized Distal Catheter. Includes: Programmable Valve, 14cm Ventricular Catheter, 120cm Unitized Peritoneal Catheter, Information Manual, and Priming Adapter . ***
82-3184	CODMAN HAKIM Programmable Valve Right Angle Valve. Includes: Programmable Valve, Information Manual, and Priming Adapter.***
82-3838	CODMAN HAKIM Programmable Valve Right Angle Valve. Includes: Programmable Valve, 14cm Ventricular Catheter, 120cm Peritoneal Catheter, Information Manual, and Priming Adapter.***

* Straight Connectors provided with Cylindrical and Micro versions only
** Introducers provided with Cylindrical versions only
*** Priming Adapter provided with In-Line, Right Angle and Micro versions only

VALVES are marked with X-RAY DETECTABLE DIRECTION OF FLOW INDICATOR ().

RIGHT ANGLE VALVE WITH SIPHONGUARD DEVICE

	Product Code	Description
	82-3136	CODMAN HAKIM Programmable Valve Right Angle Valve with SIPHONGUARD Device. Includes: Programmable Valve, 14cm Ventricular Catheter, 120cm Peritoneal Catheter, Information Manual, and Priming Adapter.***
	82-3146	CODMAN HAKIM Programmable Valve Right Angle Valve with SIPHONGUARD Device and Unitized Distal Catheter. Includes: Programmable Valve, 6'14cm Ventricular Catheter, 120cm Unitized Peritoneal Catheter, Information Manual, and Priming Adapter.***
	82-3182	CODMAN HAKIM Programmable Valve Right Angle Valve with SIPHONGUARD Device. Includes: Programmable Valve, Information Manual, and Priming Adapter.***

PROGRAMMERS

	Product Code	Description
 	82-3190	CODMAN HAKIM Valve Programmer
	82-3192	CODMAN Valve Positioning Verification (VPV™) System

* Straight Connectors provided with Cylindrical and Micro versions only

** Introducers provided with Cylindrical versions only

*** Priming Adapter provided with In-Line, Right Angle and Micro versions only

VALVES are marked with X-RAY DETECTABLE DIRECTION OF FLOW INDICATOR ().

UNI-SHUNT

The UNI-SHUNT with Reservoir incorporates a double dome access port to facilitate injections and aspirations of CSF samples. It is a continuous length of barium impregnated silicone tubing with an access reservoir made of self sealing silicone which can be punctured with a 25 gauge or smaller Huber type needle. The catheter has rounded x-ray detectable tantalum ventricular and distal tips, x-ray detectable pressure markings at the distal tip, and x-ray detectable markings on the ventricular and peritoneal ends. The UNI-SHUNT catheter with Reservoir Kit is supplied sterile with the following: Blunt Tip Needle, 17 gauge, disposable, for flushing and testing purposes. Disposable Malleable Catheter Passer, short. Each 90cm and 102cm length kits also include one disposable Malleable Catheter Passer, long. UNI-SHUNT with Reservoir Anchoring Clips, two UNI-SHUNT with Reservoir Introducer. Marking Pen, sterile. Measuring Tape, non-sterile.



**Note: The 53cm and 62cm length Reservoir Catheters have a distance of 11 cm's from the ventricular tip to the reservoir, the 78cm, 90cm, and 102cm length Reservoir Catheters have a distance of 13 cm's from the ventricular tip to the reservoir.*

UNI-SHUNT WITH RESERVOIR KIT

	Product Code	Length	Closing Pressure (Measure in cm of water)
	82-8501	53cm	2–5cm H ₂ O Low
	82-8502	53cm	5–9cm H ₂ O Medium
	82-8511	62cm	2–5cm H ₂ O Low
	82-8512	62cm	5–9cm H ₂ O Medium
	82-8521	78cm	2–5cm H ₂ O Low
	82-8522	78cm	5–9cm H ₂ O Medium
	82-8531	90cm	2–5cm H ₂ O Low
	82-8532	90cm	5–9cm H ₂ O Medium
	82-8533	90cm	9–14cm H ₂ O High
	82-8541	102cm	2–5cm H ₂ O Low
	82-8542	102cm	5–9cm H ₂ O Medium
	82-8543	102cm	9–14cm H ₂ O High

PRECISION FIXED PRESSURE VALVES

Proven Ball & Spring Construction

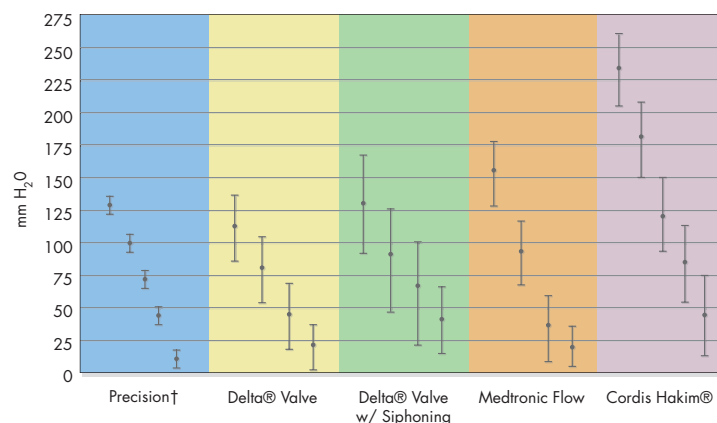
Five Distinct Operating Pressures

Multiple Configurations

Integrated SIPHONGUARD™

Technology Customized to Your

Patients Specific Needs



Performance characteristics of competitive systems vs. the CODMAN Precision Valve. The CODMAN Precision Valve offers very refined operating bands without overlap.

Data on file. Precision valve testing per ISO 7197.

† Operating pressure on the CODMAN HAKIM Precision Fixed Pressure Valves are +/- 10mm H₂O.

- * Straight Connectors provided with Cylindrical and Micro versions only
- ** Introducers provided with Cylindrical versions only
- *** Priming Adapter provided with In-Line, Right Angle and Micro versions only

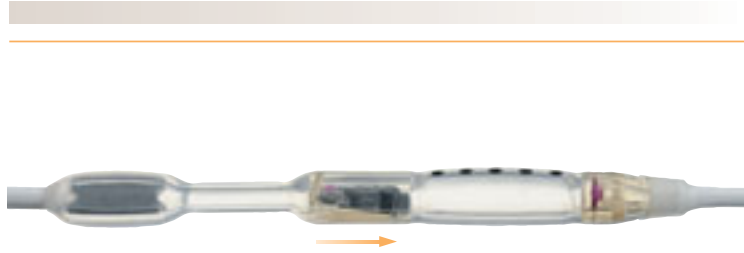
VALVES are marked with X-RAY DETECTABLE DIRECTION OF FLOW INDICATOR (→).

CYLINDRICAL VALVES WITH PRE-CHAMBER

Valve Systems (Unitized)

CODMAN HAKIM Precision Fixed Pressure Valve, Cylindrical Valve with Pre-Chamber and Unitized Distal Catheter.

Includes: Precision Fixed Pressure Valve, 14cm Ventricular Catheter, 120cm Unitized Peritoneal Catheter, Information Manual, Straight Connector(s),* Introducer,** and Right Angle Adapter.

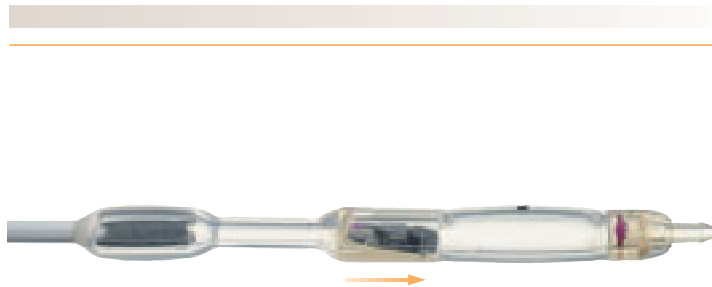


Product Code	Description
82-3006	Cylindrical with pre-chamber Very Low, 10mm H ₂ O
82-3007	Cylindrical with pre-chamber Low, 40mm H ₂ O
82-3008	Cylindrical with pre-chamber Medium Low, 70mm H ₂ O
82-3009	Cylindrical with pre-chamber Medium High, 100mm H ₂ O
82-3010	Cylindrical with pre-chamber High, 130mm H ₂ O

Valves Only

CODMAN HAKIM Precision Fixed Pressure Valve, Cylindrical Valve with Pre-Chamber.

Includes: Precision Fixed Pressure Valve, Information Manual, Straight Connector(s),* Introducer.**



Product Code	Description
82-3011	Cylindrical with pre-chamber Very Low, 10mm H ₂ O
82-3012	Cylindrical with pre-chamber Low, 40mm H ₂ O
82-3013	Cylindrical with pre-chamber Medium Low, 70mm H ₂ O
82-3014	Cylindrical with pre-chamber Medium High, 100mm H ₂ O
82-3015	Cylindrical with pre-chamber High, 130mm H ₂ O

CYLINDRICAL VALVE WITHOUT PRE-CHAMBER

Valves Only

CODMAN HAKIM Precision Fixed Pressure Valve, Cylindrical Valve without Pre-Chamber.

Includes: Precision Fixed Pressure Valve, Information Manual, Straight Connector(s),* Introducer.**



Product Code	Description
82-3082	Cylindrical Very Low, 10mm H ₂ O
82-3083	Cylindrical Low, 40mm H ₂ O
82-3084	Cylindrical Medium Low, 70mm H ₂ O
82-3085	Cylindrical Medium High, 100mm H ₂ O
82-3086	Cylindrical High, 130mm H ₂ O

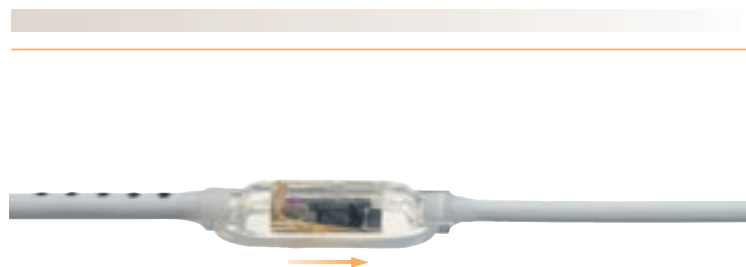
VALVES are marked with X-RAY DETECTABLE DIRECTION OF FLOW INDICATOR (→).

MICRO-VALVES

Valve Systems (Unitized)

CODMAN HAKIM Precision Fixed Pressure Valve, Micro Valve and Unitized Distal Catheter.

Includes: Precision Fixed Pressure Valve, 14cm Ventricular Catheter, 120cm Unitized Peritoneal Catheter, Information Manual, Straight Connector(s),* Right Angle Adapter, and Priming Adapter.***

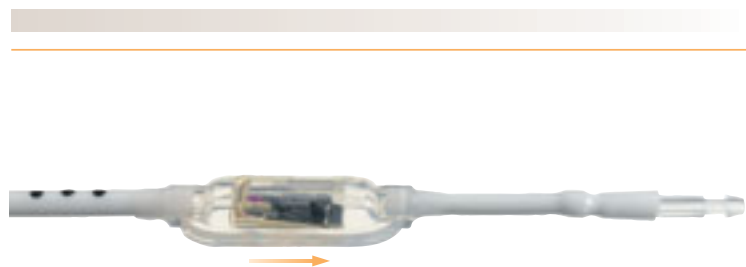


Product Code	Description
82-3035	Micro Very Low, 10mm H ₂ O
82-3036	Micro Low, 40mm H ₂ O
82-3037	Micro Medium Low, 70mm H ₂ O
82-3038	Micro Medium High, 100mm H ₂ O
82-3039	Micro High, 130mm H ₂ O

Valves Only

CODMAN HAKIM Precision Fixed Pressure Valve.

Includes: Precision Fixed Pressure Valve, Information Manual, Straight Connector(s),* and Priming Adapter.***



Product Code	Description
82-3026	Micro Very Low, 10mm H ₂ O
82-3027	Micro Low, 40mm H ₂ O
82-3028	Micro Medium Low, 70mm H ₂ O
82-3029	Micro Medium High, 100mm H ₂ O
82-3030	Micro High, 130mm H ₂ O

* Straight Connectors provided with Cylindrical and Micro versions only

** Introducers provided with Cylindrical versions only

*** Priming Adapter provided with In-Line, Right Angle and Micro versions only

VALVES are marked with X-RAY DETECTABLE DIRECTION OF FLOW INDICATOR ().

MICRO VALVES WITH RICKHAM RESERVOIR

Valve Systems (Unitized)

CODMAN HAKIM Precision Fixed Pressure Valve, Micro Valve with RICKHAM Reservoir and Unitized Distal Catheter.

Includes: Precision Fixed Pressure Valve, 14cm Ventricular Catheter, 120cm Unitized Peritoneal Catheter, Information Manual, Straight Connector(s),* Introducer,** and Priming Adapter.***



<i>Product Code</i>	<i>Description</i>
82-3021	Micro with RICKHAM Reservoir Very Low, 10mm H ₂ O
82-3022	Micro with RICKHAM Reservoir Low, 40mm H ₂ O
82-3023	Micro with RICKHAM Reservoir Medium Low, 70mm H ₂ O
82-3024	Micro with RICKHAM Reservoir Medium High, 100mm H ₂ O
82-3025	Micro with RICKHAM Reservoir High, 130mm H ₂ O

Valves Only

CODMAN HAKIM Precision Fixed Pressure Valve, Micro Valve with RICKHAM Reservoir.

Includes: Precision Pressure Valve, Information Manual, Straight Connector(s),* and Priming Adapter.***



<i>Product Code</i>	<i>Description</i>
82-3095	Micro with RICKHAM Reservoir Very Low, 10mm H ₂ O
82-3096	Micro with RICKHAM Reservoir Low, 40mm H ₂ O
82-3097	Micro with RICKHAM Reservoir Medium Low, 70mm H ₂ O
82-3098	Micro with RICKHAM Reservoir Medium High, 100mm H ₂ O
82-3099	Micro with RICKHAM Reservoir High, 130mm H ₂ O

* Straight Connectors provided with Cylindrical and Micro versions only

** Introducers provided with Cylindrical versions only

*** Priming Adapter provided with In-Line, Right Angle and Micro versions only

VALVES are marked with X-RAY DETECTABLE DIRECTION OF FLOW INDICATOR ().

IN-LINE VALVES

Valve Systems (Unitized)

CODMAN HAKIM Precision Fixed Pressure Valve, In-Line Valve and Unitized Distal Catheters.

Includes: Precision Pressure Valve, 14cm Ventricular Catheter, 120cm Unitized Peritoneal Catheter, Information Manual, Right Angle Adapter, and Priming Adapter.***

	Product Code	Description
	82-3806	In-Line Very Low, 10mm H ₂ O
	82-3807	In-Line Low, 40mm H ₂ O
	82-3808	In-Line Medium Low, 70mm H ₂ O
	82-3809	In-Line Medium High, 100mm H ₂ O
	82-3810	In-Line High, 130mm H ₂ O

Valves Only

CODMAN HAKIM Precision Fixed Pressure Valve, In-Line Valve.

Includes: Precision Pressure Valves, Information Manual, and Priming Adapter.***

	Product Code	Description
	82-5471	In-Line Very Low, 10mm H ₂ O
	82-5472	In-Line Low, 40mm H ₂ O
	82-5473	In-Line Medium Low, 70mm H ₂ O
	82-5474	In-Line Medium High, 100mm H ₂ O
	82-5475	In-Line High, 130mm H ₂ O

* Straight Connectors provided with Cylindrical and Micro versions only

** Introducers provided with Cylindrical versions only

*** Priming Adapter provided with In-Line, Right Angle and Micro versions only

VALVES are marked with X-RAY DETECTABLE DIRECTION OF FLOW INDICATOR ().

IN-LINE WITH SIPHONGUARD DEVICE

Valve Systems (Unitized)

CODMAN HAKIM Precision Fixed Pressure Valve, In-Line Valve with SIPHONGUARD Device and Unitized Distal Catheter. Includes: Precision Pressure Valve, 14cm Ventricular Catheter, 120cm Unitized Peritoneal Catheter, Information Manual, Right Angle Adapter and Priming Adapter.***



Product Code	Description
82-3821	In-Line with SIPHONGUARD Very Low, 10mm H ₂ O
82-3822	In-Line with SIPHONGUARD Low, 40mm H ₂ O
82-3823	In-Line with SIPHONGUARD Medium Low, 70mm H ₂ O
82-3824	In-Line with SIPHONGUARD Medium High, 100mm H ₂ O
82-3825	In-Line with SIPHONGUARD High, 130mm H ₂ O

Valves Only

CODMAN HAKIM Precision Fixed Pressure Valve, In-Line Valve with SIPHONGUARD Device. Includes: Precision Pressure Valve, Information Manual, and Priming Adapter.***



Product Code	Description
82-5461	In-Line with SIPHONGUARD Very Low, 10mm H ₂ O
82-5462	In-Line with SIPHONGUARD Low, 40mm H ₂ O
82-5463	In-Line with SIPHONGUARD Medium Low, 70mm H ₂ O
82-5464	In-Line with SIPHONGUARD Medium High, 100mm H ₂ O
82-5465	In-Line with SIPHONGUARD High, 130mm H ₂ O

* Straight Connectors provided with Cylindrical and Micro versions only

** Introducers provided with Cylindrical versions only

*** Priming Adapter provided with In-Line, Right Angle and Micro versions only

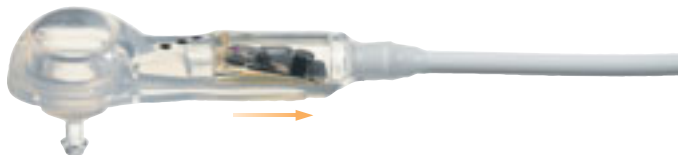
VALVES are marked with X-RAY DETECTABLE DIRECTION OF FLOW INDICATOR (→).

RIGHT ANGLE VALVES

Valve Systems (Unitized)

CODMAN HAKIM Precision Fixed Pressure Valve, Right Angle Valve and Unitized Distal Catheter.

Includes: Precision Pressure Valve, 14cm Ventricular Catheter, 120cm Unitized Peritoneal Catheter, Information Manual, and Priming Adapter.***

	Product Code	Description
	82-3281	Right Angle Very Low, 10mm H ₂ O
	82-3282	Right Angle Low, 40mm H ₂ O
	82-3283	Right Angle Medium Low, 70mm H ₂ O
	82-3284	Right Angle Medium High, 100mm H ₂ O
	82-3285	Right Angle High, 130mm H ₂ O

Valves Only

CODMAN HAKIM Precision Fixed Pressure Valve, Right Angle Valve.

Includes: Precision Pressure Valves, Information Manual, and Priming Adapter.***

	Product Code	Description
	82-5491	Right Angle Very Low, 10mm H ₂ O
	82-5492	Right Angle Low, 40mm H ₂ O
	82-5493	Right Angle Medium Low, 70mm H ₂ O
	82-5494	Right Angle Medium High, 100mm H ₂ O
	82-5495	Right Angle High, 130mm H ₂ O

* Straight Connectors provided with Cylindrical and Micro versions only

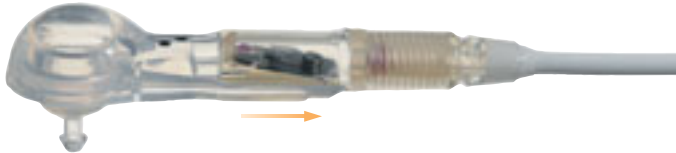
** Introducers provided with Cylindrical versions only

*** Priming Adapter provided with In-Line, Right Angle and Micro versions only

VALVES are marked with X-RAY DETECTABLE DIRECTION OF FLOW INDICATOR ().

RIGHT ANGLE WITH SIPHONGUARD DEVICE
Valve Systems (Unitized)

CODMAN HAKIM Precision Fixed Pressure Valve, Right Angle Valve with SIPHONGUARD Device and Unitized Distal Catheter. Includes: Precision Pressure Valve, 14cm Ventricular Catheter, 120cm Unitized Peritoneal Catheter, Information Manual, and Priming Adapter.***

	Product Code	Description
	82-3261	Right Angle with SIPHONGUARD Very Low, 10mm H ₂ O
	82-3262	Right Angle with SIPHONGUARD Low, 40mm H ₂ O
	82-3263	Right Angle with SIPHONGUARD Medium Low, 70mm H ₂ O
	82-3264	Right Angle with SIPHONGUARD Medium High, 100mm H ₂ O
	82-3265	Right Angle with SIPHONGUARD High, 130mm H ₂ O

Valves Only

CODMAN HAKIM Precision Fixed Pressure Valve, Right Angle Valve with SIPHONGUARD Device. Includes: Precision Pressure Valve, Information Manual, and Priming Adapter.***

	Product Code	Description
	82-5481	Right Angle with SIPHONGUARD Very Low, 10mm H ₂ O
	82-5482	Right Angle with SIPHONGUARD Low, 40mm H ₂ O
	82-5483	Right Angle with SIPHONGUARD Medium Low, 70mm H ₂ O
	82-5484	Right Angle with SIPHONGUARD Medium High, 100mm H ₂ O
	82-5485	Right Angle with SIPHONGUARD High, 130mm H ₂ O

* Straight Connectors provided with Cylindrical and Micro versions only
** Introducers provided with Cylindrical versions only
*** Priming Adapter provided with In-Line, Right Angle and Micro versions only

VALVES are marked with X-RAY DETECTABLE DIRECTION OF FLOW INDICATOR ().

RESERVOIRS, ACCU-FLO

ACCU-FLO CSF Reservoirs are made from one-piece puncturable silicone with an embedded plastic base, with suture holes for anchoring. Each reservoir has been pre-tested for pressure leaks and is packaged sterile.

Note: A 25 gauge, or smaller, "Huber" type needle should be used to puncture the ACCU-FLO Reservoirs. ACCU-FLO Reservoirs are used for ventricular medication or aspiration.



82-6100

ACCU-FLO CSF Reservoir, 14mm, sterile, fits 14mm burr hole.

82-6101

ACCU-FLO CSF Reservoir, 24mm, sterile, fits 24mm burr hole.



82-1401

ACCU-FLO Reservoirs, used in line in the ACCU-FLO System, between the ventricular portion and distal catheter portion. Each reservoir has suture holes for anchoring purposes.

ACCU-FLO Burr Hole Reservoir, 14mm, sterile



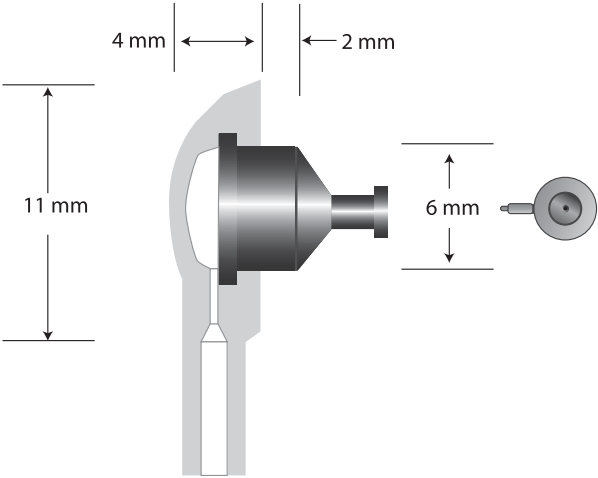
82-1411

ACCU-FLO Single Dome Flat Bottom Reservoir, sterile, with reinforced backing.

VENTRICULOSTOMY RESERVOIRS, HOLTER

The HOLTER Reservoirs have a stainless steel or plastic base; removable, puncturable silicone rubber cap for convenience. Each is supplied with: (82-1650) Ventricular Catheter, 15cm straight, Ventricular Catheter stylet, sterile.

HOLTER, RICKHAM *standard, sterile*

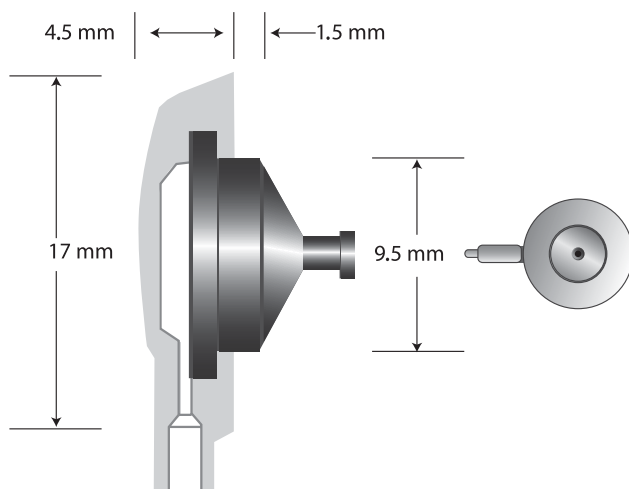


82-1615 Plastic Base
Requires a 6mm burr hole or skull recess.
Supplied with one (82-1650) Ventricular Catheter, 15cm straight, and stylet, both sterile.

82-1621 Stainless-steel Base
Requires a 6mm burr hole or skull recess.
Supplied with one (82-1650) Ventricular Catheter, 15cm straight, and stylet, both sterile.

**Note: A 25 gauge “Huber” type needle or smaller should be used to puncture HOLTER reservoirs.*

HOLTER, RICKHAM *large, sterile*



Product Code

Description

82-1616

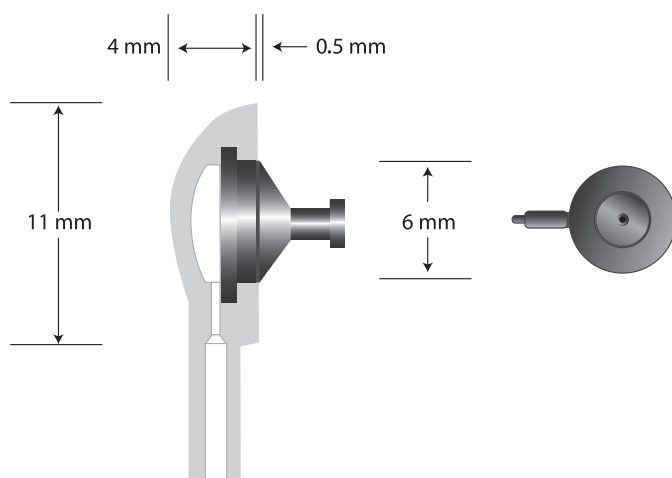
Plastic Base
Intended for older children and adults.
Requires a 9.5mm burr hole or skull recess. Supplied with one (82-1650) ventricular catheter, 15cm straight, and stylet, both sterile.

82-1623

Stainless-steel Base
Intended for older children and adults.
Requires a 9.5mm burr hole or skull recess.
Supplied with one (82-1650) ventricular catheter, 15cm straight, and stylet, both sterile.

**Note: A 25 gauge "Huber" type needle or smaller should be used to puncture HOLTER reservoirs.*

HOLTER, SALMON-RICKHAM *low profile, sterile*



Product Code

Description

82-1617

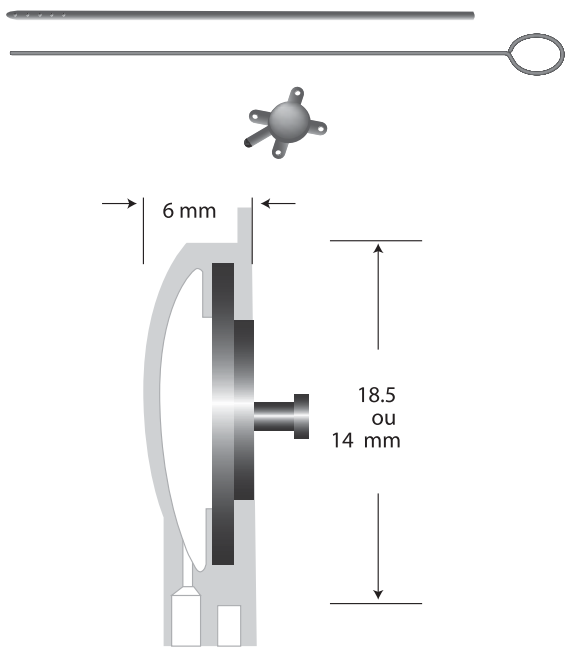
Plastic Base
Intended for pediatric use. Ideal for seating in very thin to medium thickness cranium.
Requires a 6mm burr hole or skull recess.
Supplied with one (82-1650) ventricular catheter, 15cm straight, and stylet, both sterile.

82-1625

Stainless Steel Base
Intended for pediatric use. Ideal for seating in very thin to medium thickness cranium.
Requires a 6mm burr hole or skull recess.
Supplied with one (82-1650) ventricular catheter, 15cm straight, and stylet, both sterile.

**Note: A 25 gauge "Huber" type needle or smaller should be used to puncture HOLTER reservoirs.*

HOLTER, SELKER *small, sterile*



Product Code	Description
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82-1618	Plastic Base Requires only a 4mm drilled hole to accommodate the ventricular catheter. This style reservoir provides a larger target area (14mm cap diameter) for puncturing and a low profile recommended for pediatric use. Supplied with one (82-1650) ventricular catheter, 15cm straight, and stylet, both sterile.
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82-1619	Plastic Base Requires only a 4mm drilled hole to accommodate the ventricular catheter. This style reservoir provides a larger target area (18.5mm cap diameter) for puncturing and a low profile recommended for pediatric use. Supplied with one (82-1650) ventricular catheter, 15cm straight, and stylet, both sterile.
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**Note: A 25 gauge “Huber” type needle or smaller should be used to puncture HOLTER reservoirs.*

CONNECTORS, ACCU-FLO

All ACCU-FLO Connectors are 316-L stainless steel or plastic, 1.0mm I.D. x 1.9mm O.D. with beveled ends. Each is x-ray detectable and packaged sterile. The connectors are grooved to hold sutures for preventing catheter disconnection.

	Product Code	Description
	82-1501	Metal ACCU-FLO Straight Connector, sterile. Metal Length 11mm
	82-1504	Plastic ACCU-FLO Straight Connector, sterile. Plastic Length 17mm
	82-1507	Plastic ACCU-FLO Right Angle Connector, sterile.
	82-1511	Metal ACCU-FLO Right Angle Connector, sterile
	82-1520	Plastic ACCU-FLO Three Way Connector, Y-shaped, sterile, with a straight plastic non-spring connector in each leg.
	82-1521	Metal ACCU-FLO Three Way Connector, Y-shaped, sterile, with a straight metal non-spring connector in each leg.

CONNECTORS, HAKIM

	<i>Product Code</i>	<i>Description</i>
	82-3048	HAKIM Straight Connector Stainless steel (1.07mm I.D. x 2.08mm O.D.) Sterile
	82-3049	HAKIM Right Angle Connector Stainless steel (1.02mm I.D. x 1.91mm O.D.) Sterile
	82-3053	BIOPLATE™ 1 package of 1 each Connector titanium Length 14cm Sterile

CONNECTORS, HOLTER

	<i>Product Code</i>	<i>Description</i>
	82-1694	HOLTER Type A Connector, stainless steel, five per pack, non-sterile. Length 10.4mm
	82-1695	HOLTER Type B Connector, stainless steel, five per pack, non-sterile. Length 8mm
	82-1696	HOLTER Type T Connector, one per pack, non-sterile. For bilateral drainage with one valve or for multiple connectors using ventricular catheters.

BURR HOLE BUTTONS, ACCU-FLO

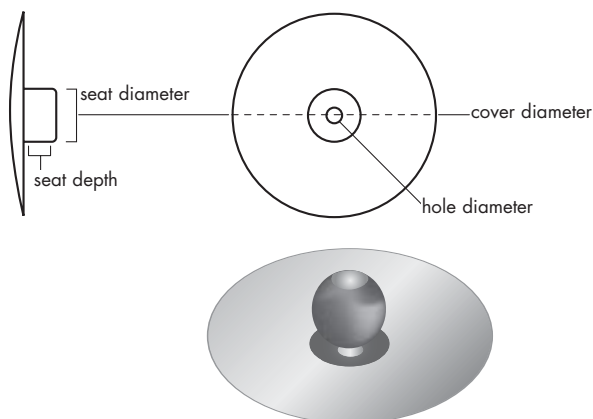


Product Code	Description
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82-6010

ACCU-FLO Burr Hole Buttons, sterile, 10 per package, individually wrapped. These buttons secure the bone flap into place, eliminating the need to wire the bone flap after a craniotomy. They allow slight flap movement in case of swelling after surgery.
Button length 35mm
Cover diameter 29mm
Stem thickness 4.1mm

BURR HOLE COVERS, ACCU-FLO



Product Code	Description
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82-6025

ACCU-FLO Burr Hole Covers, sterile, 10 per package individually wrapped. Each burr hole cover has a low profile design to fit into a burr hole after cranial surgery. There is a center hole for insertion of a ventricular needle, if needed postoperatively.
Hole diameter 3mm
Cover diameter 35mm
Silicone rubber
Seat diameter 10mm
Seat depth 6mm

ADAPTER



Product Code	Description
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82-3052

Right Angle Adapter, plastic
Sterile

ANCHORING CLIP, UNI-SHUNT

	Product Code	Description
	82-8591	UNI-SHUNT with Reservoir Anchoring Clip, sterile, two clips per package. A one-piece right angle clip, used to anchor the ventricular and distal ends of the UNI-SHUNT with reservoir catheter in position. Each UNI-SHUNT with reservoir catheter kit is supplied with two (82-8591) Anchoring Clips.

VENTRICULAR CANNULAS, ELSBERG

Silver, graduated in centimeters, closed end, three side holes

	Product Code	Diameter	Length
	16-1015	5 Fr.	4" (102mm)
	16-1016	7 Fr.	4" (102mm)
	16-1017	9 Fr.	4" (102mm)

VENTRICULAR CANNULAS, SCOTT

Scott Ventricular Cannulas, 8 Fr., disposable, sterile, five per box. One cap and one stylet provided in each package.

	Product Code	Length
	16-1055	3 1/8" (80mm)
	16-1056	3 7/8" (100mm)

CATHETER PASSERS, MALLEABLE (Disposable)

Malleable Catheter Passers, used to pass the distal catheter to the peritoneum. Each 90cm and 102cm UNI-SHUNT Catheter Kit is also supplied with one long catheter passer.

	Product Code	Description
	82-1515	Malleable Catheter Passer, short, sterile, disposable. Packaged individually, six per case. Length 36cm
	82-1516	Malleable Catheter Passer, long, sterile, disposable. Packaged individually, six per case. Length 55cm
	82-1517	Malleable Catheter Passer, x-long, sterile, disposable. Packaged individually, six per case. Length 65cm

CATHETER PASSER (Reusable)

	Product Code	Description
	82-1692	HOLTER Distal Catheter Passer, Salmon style, stainless steel, non-sterile. Used for subcutaneous passage and placement of an atrial or peritoneal catheter. The catheter is passed through the tubular body of the instrument. Tube I.D. 3.2mm Tube O.D. 4.2mm Total length 35.5cm

HOLTER

	Product Code	Description
	82-1693	HOLTER Distal Catheter Placement Instrument, stainless steel, non-sterile. For the subcutaneous passage and placement of the distal peritoneal catheter. Rod O.D. 3.2mm Tip 7mm Hole Diameter 2.75mm Total length 56cm

HOFFMAN SHUNT PASSER

	Product Code	Description
	82-1715	Hoffman Shunt Passer, short, stainless steel, non-sterile Tube I.D. 3.2mm Tube O.D. 4.2mm Total length 45.7cm
	82-1716	Hoffman Shunt Passer, long, stainless steel, non-sterile Tube I.D. 3.2mm Tube O.D. 4.2mm Total length 61.0cm

SPLIT TROCAR

	Product Code	Description
	82-4095	Split Trocar, sterile, disposable. For the placement of the UNI-SHUNT Catheter in both the ventricle and peritoneum. The unique open/close obturator prevents excessive loss of CSF in the ventricle. Packaged in one each. Length 10cm

TOUHY NEEDLE

	Product Code	Description
	45-1020	Touhy Needle, 14 Gauge, non-sterile, used for the insertion of the JAMES Lumboperitoneal Catheter. Length 3 1/2" (90mm) I.D. .063 inches O.D. .083 inches Needle length given is exclusive of hub and stylet.

CRANIAL CLIPS

	Product Code	Description
	82-4092	Right angle Cranial Clip with tabs, sterile, two clips per package.

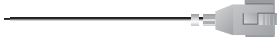
HOLTER SHUNT FILTER

	Product Code	Description
	82-1697	HOLTER In-Line Shunt Filter, sterile. A 3.9 micron cellulosic filter designed specifically for use with the HOLTER Shunt System to prevent the transfer of cells larger than 3.9 microns through the system. The filter has a surface area of 68 square millimeters supported in a stainless steel mesh and totally encased in silicone. The silicone casing contains an inlet and outlet port, both with an I.D. of 1.5mm, for connection to the shunt system. The filter can be implanted just behind the mastoid air cells so it is exposed to the radiotherapy field, if radiotherapy is used. The HOLTER In-Line Shunt Filter is packaged sterile. Each package contains one filter and two sterile (82-1694) HOLTER Type A connectors.

ICP LUER-LOCK

	Product Code	Description
	16-1057	CODMAN Disposable ICP Luer Lock Connector, sterile, consists of a female luer lock connector and a male luer lock cap. Designed to connect a silicone ventricular catheter (I.D. from 1.3mm to 1.5mm) to a CSF drainage or monitoring device. May be used to occlude ventricular catheter by utilizing male luer lock cap.

INTRODUCER, UNI-SHUNT

	<i>Product Code</i>	<i>Description</i>
	82-8594	UNI-SHUNT with Reservoir Introducer, sterile, disposable. Used to place the proximal end of the UNI-SHUNT with Reservoir Catheter into the ventricle. Each UNI-SHUNT with Reservoir Catheter Kit is supplied with one (82-8594) Introducer.

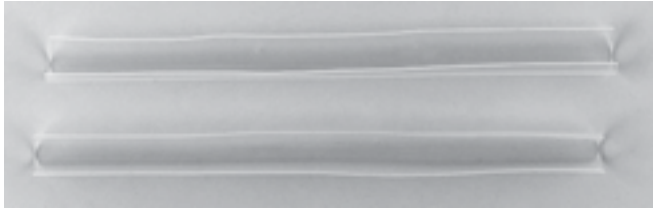
INTRODUCER, HAKIM

	<i>Product Code</i>	<i>Description</i>
	82-3055	HAKIM Valve Introducer

SIPHONGUARD ANTI-SIPHON DEVICE

	<i>Product Code</i>	<i>Description</i>
	82-3090	SIPHONGUARD CSF Flow Control Device

U-CHANNEL STRIPPING

	<i>Product Code</i>	<i>Description</i>
	82-6001	U-CHANNEL Stripping, sterile. A preformed U-shaped silicone rubber used in the treatment of cranial stenosis. Packaged two strippings per box. Thickness .5mm Width 10mm Length 150mm

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82-1625	26	82-3022	19	82-3115	11	82-5464	21	NS-0038	3
82-1630	9	82-3023	19	82-3116	11	82-5465	21	NS-0339	3
82-1632	9	82-3024	19	82-3136	14	82-5471	20	NS-0340	3
		82-3025	19	82-3146	14	82-5472	20	NS-0343	3
		82-3026	18	82-3148	13				

Product Information Indications

CATHETERS

- For use in the treatment of hydrocephalus as a component of a shunt system when draining or shunting cerebrospinal fluid (CSF) is indicated.

RESERVOIRS

- The ACCU-FLO CSF Reservoir, when attached to a ventricular catheter, is designed to provide direct access to the lateral cerebral ventricles for aspiration and the injection of medication, and to cystic tumors for chronic drainage or the injection of chemotherapeutic agents and/or radioisotopes via a syringe fitted with a 25-gauge, or smaller, HUBER-point needle through the reservoir dome.
- The Ventriculostomy Reservoir Set (Rickham and SALMON-Rickham Designs) is indicated for use to gain access to the cerebral ventricles or other intracranial cavities for the purpose of diagnostic studies or therapeutic drug administration with or without a shunting device. When used with the shunting device, the ventriculostomy reservoir is also indicated for the use as the proximal fluid pathway.
- The UNI-SHUNT with Reservoir Catheter is intended for use as a one-piece ventriculo-peritoneal shunt system for the palliative treatment of hydrocephalus. No other use is recommended.

VALVES

- The CODMAN HAKIM Precision and Fixed Pressure Valves and Systems are implantable devices that provide constant intraventricular pressure and drainage of CSF for the management of hydrocephalus.

CONNECTORS

- The ACCU-FLO Connectors can be utilized as a component in systems designed to shunt cerebrospinal fluid from the lateral ventricles into the right atrium of the heart or the peritoneal cavity, providing they are used in the joining and fixation of approximately 1.3 mm nominal I.D. silicone rubber tubing with nonabsorbable sutures in a surgical application.
- The HAKIM Connectors are for use in the treatment of hydrocephalus as a component of a shunt system when draining or shunting of cerebrospinal fluid (CSF) is indicated.
- The BIOPLATE Titanium Shunt Connector (Sterile) is indicated for use in the joining and fixation of silicone catheters, valves, and other components of a system for ventriculoatrial or ventriculoperitoneal shunting of cerebrospinal fluid (CSF). The use of nonabsorbable sutures is required.
- The HOLTER Type T Fixation and Joining Connector is indicated for use in the joining and fixation of 1.5 mm normal I.D. silicone rubber tubing with non-absorbable sutures in a surgical application.
- The HOLTER Type A Fixation and Joining Connector is indicated for use in the joining and fixation of 1.2 mm normal I.D. silicone rubber tubing with non-absorbable sutures in a surgical application.
- The HOLTER Type B Fixation and Joining Connector is indicated for use in the joining and fixation of 0.8 mm normal I.D. silicone rubber tubing to 1.2 mm nominal I.D. silicone rubber tubing, and specifically, catalog no. 82-1672, with nonabsorbable sutures in a surgical application.

ACCESSORIES

- The ACCU-FLO Burr Hole Button is indicated for use as a means to secure the bone flap after a craniotomy procedure, eliminating the need to wire the bone flap in place. The Burr Hole Button is designed to permit slight movement of the flap due to swelling after surgery.
- The Silicone ACCU-FLO Burr Hole Cover is intended for use as a protective fill in a burr hole after cranial surgery. The Silicone Burr Hole Cover also provides temporary access to the ventricles if required postoperatively.
- The CODMAN Right Angle Adapter is for use in the treatment of hydrocephalus as a component of a shunt system when draining or shunting of cerebrospinal fluid (CSF) is indicated to secure the ventricular catheter.
- The UNI-SHUNT with Reservoir Anchoring Clips are designed for use with the UNI-SHUNT with Reservoir Catheter. They are used to secure the ventricular and distal ends of the catheter. Use of the anchoring clips on the cranium and on the peritoneum is strongly recommended to maintain the position of the catheter.
- The Disposable Scott Cannula provides a means to monitor ventricular pressure, to inject drugs and chemotherapeutic agents into the ventricular cavities, to allow x-ray analyses to be performed, and to extract CSF.
- The Disposable Catheter Passer is indicated for use as a subcutaneous guide in the placement of a hydrocephalic catheter for ventriculo-peritoneal shunting of CSF.
- The Salmon Tube Passer is indicated for use in the subcutaneous passage and placement of an atrial or peritoneal catheter in the treatment of hydrocephalus.
- The HOLTER Peritoneal Catheter Placement Instrument is indicated for subcutaneous passage and placement of the peritoneal catheter in the treatment of hydrocephalus.
- The In-Line Shunt Filter is indicated for use to filter particles that are larger than approximately 3.9 microns when neoplasm is suspected and when shunting is the procedure of choice in the treatment of hydrocephalus.
- The SIPHONGUARD device can be used as a component of hydrocephalus shunt systems designed to shunt CSF from the lateral ventricles of the brain into the peritoneal cavity or right atrium of the heart. The SIPHONGUARD device is designed to reduce the potential hazards of excessive lowering of intraventricular pressure (with respect to atmospheric pressure) when a patient is in an erect position.
- U-Channel Stripping is indicated for the use in the treatment of cranial stenosis.



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