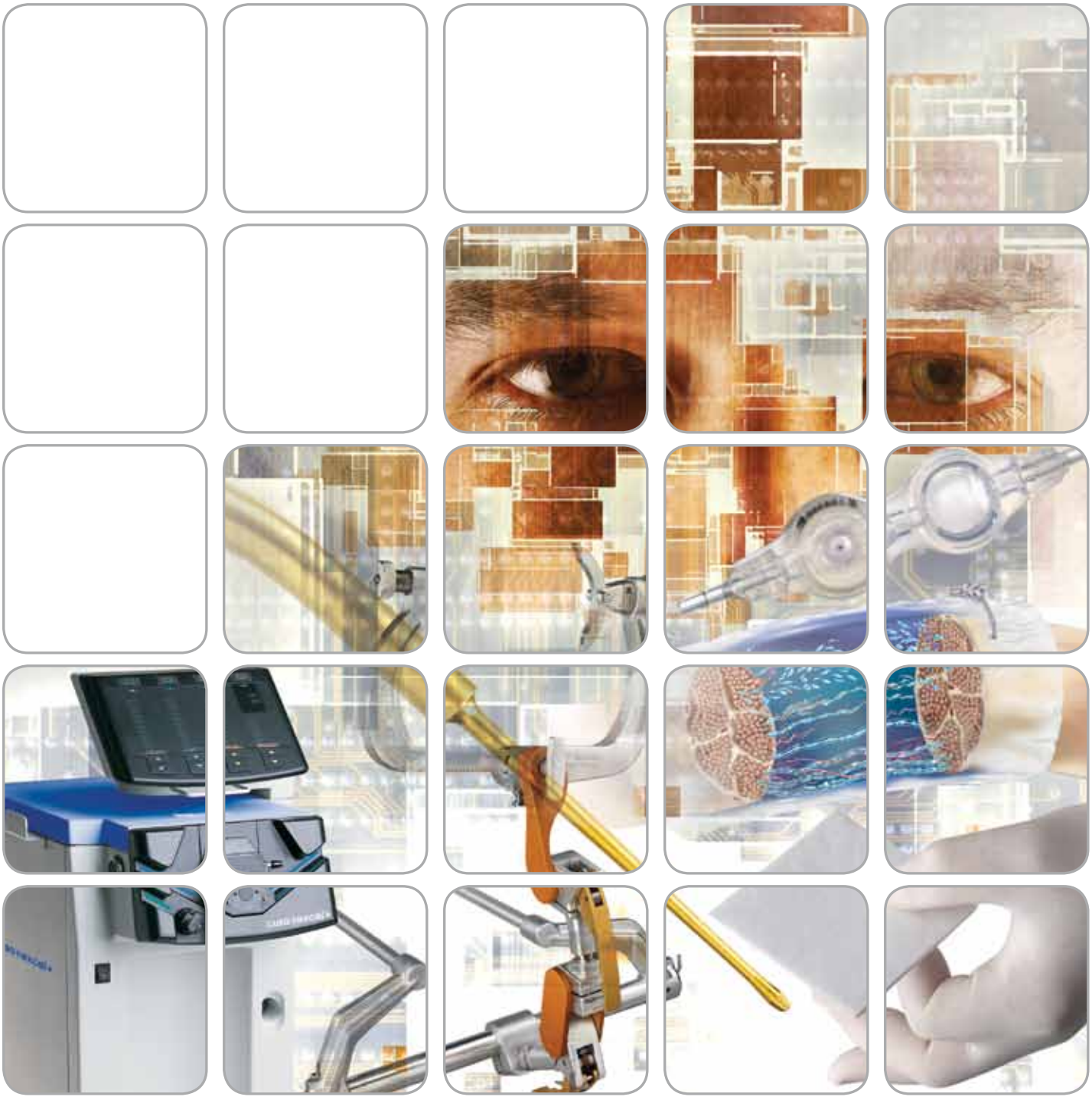
OPERATING ROOM
PRODUCT CATALOG



INTEGRA™

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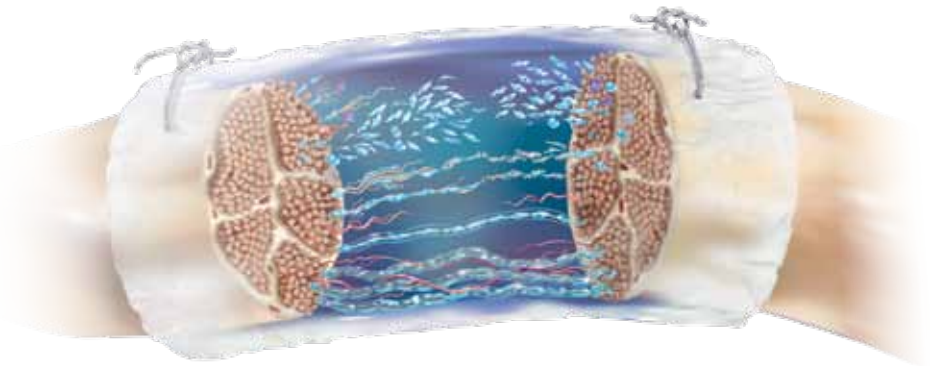
NeuraGen®
nerve guide



DuraGen Plus®
DURAL REGENERATION MATRIX

Advanced Biomaterials

Pricing:
Prices stated in specific written quotations are firm for thirty days from the date given, and are otherwise subject to change without prior notice. Pricing terms stated on written agreements are governed by such agreements.

Minimum Order Requirements:
Minimum order requirement is $100 (a $10 handling charge will be added to any order under $100). For partial case orders, contact the Customer Service Department for quotation.

Shipments:
F.O.B. Integra NeuroSciences point of shipment within the continental United States. Shipping costs (including freight and insurance), shall be prepaid by Integra and invoiced to customers.

Ordering Procedure:
A written purchase order on customer's form may be requested for purchases of Integra NeuroSciences products.

Acceptance of Orders:
Orders are accepted upon approval by Integra in Plainsboro, New Jersey.

Return Policy:

- Authorization, from customer service, must be obtained prior to returning product.
- Sterile product must be returned in unopened, undamaged cartons, packed to prevent damage.
- Non-sterile product must be returned in unused saleable condition in original package.
- Custom or special order products will not be accepted for credit.
- Credit will be issued for goods returned prior to ninety days from ship date with a 20% restocking charge. This assumes that the product returned is not damaged and can be verified to have not been used or opened.

Customer Service Contact Information
311 Enterprise Drive
Plainsboro, New Jersey 08536 USA

USA and Canada
800-997-4868
609-936-5400 (outside the USA)
888-980-7742 (Fax)

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+44 (0) 1264 332 113

France
+33 (0) 493 95 56 00
+33 (0) 493 95 56 60 (Fax)

Germany
0800 10 10 755
06995 775 477 (Fax)

Integra Limited Warranty

This warranty applies to INTEGRA LIFESCIENCES CORPORATION ("INTEGRA") advanced biomaterials products, including the DuraGen®, NeuraGen®, and NeuraWrap™ product lines. Integra warrants to the original purchaser only that each new INTEGRA product is free from manufacturing defects in material and workmanship under normal use and service for a period of six (6) months (except as otherwise expressly provided as to accessory items) from the date of delivery by INTEGRA to the first purchaser, but in no event beyond the expiration date stated on any product labeling.

- Surgical instruments are guaranteed to be free from defects in material and workmanship when maintained and cleaned properly and used normally for their intended purpose.
- Any covered product that is placed by INTEGRA under a lease, rental or installment purchase agreement and that requires repair service during the term of such placement agreement shall be repaired in accordance with the terms of such agreement.

If any covered defect occurs during the warranty period or term of such placement agreement, the purchaser should communicate directly with INTEGRA's home office. If purchaser seeks to invoke the terms of this warranty, the product must be returned to INTEGRA at its home office. The defective product should be returned promptly, properly packaged and postage prepaid. Loss or damage in return shipment to INTEGRA shall be at CUSTOMER's risk. INTEGRA's sole responsibility under this warranty shall be repair or replacement, at INTEGRA's sole discretion at INTEGRA's expense, subject to the terms of this warranty and applicable agreements.

IN NO EVENT SHALL INTEGRA BE LIABLE FOR ANY INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES IN CONNECTION WITH THE ACQUISITION OR USE OF ANY INTEGRA PRODUCT. Further, this warranty shall not apply to, and INTEGRA shall not be responsible for, any loss arising in connection with the purchase or use of any INTEGRA product that has been repaired by anyone other than an authorized INTEGRA service representative or altered in any way so as, in INTEGRA's judgment, to affect its stability or reliability, or which has been subject to misuse, negligence or accident, or which has been used otherwise than in accordance with the instructions furnished by INTEGRA. THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON INTEGRA'S PART, AND INTEGRA NEITHER ASSUMES NOR AUTHORIZES ANY REPRESENTATIVE OR OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH INTEGRA'S PRODUCTS.

INTEGRA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED INCLUDING, BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, COURSE OF DEALING, USAGE OR TRADE OR OTHERWISE, OR APPLICATION OR WARRANTY OF QUALITY AS WELL AS ANY EXPRESS OR IMPLIED WARRANTY TO PATIENTS. No warranty or guarantee may be created by any act or statement nor may this Standard Warranty be modified in any way, except as a result of a writing signed by an officer of INTEGRA. These limitations on the creation or modification of this warranty may not be waived or modified orally or by any conduct.

DuraGen XS™ Dural Regeneration Matrix

DuraGen XS™ Dural Regeneration Matrix is Integra's most advanced onlay graft. DuraGen XS Dural Regeneration Matrix is an absorbable implant that is indicated as a dural substitute for repair of dura mater. DuraGen XS benefits from 30% more collagen, which provides increased tensile strength and more robust handling over DuraGen Plus. After implantation, DuraGen XS is infiltrated by fibroblasts and is fully resorbed and replaced with endogenous tissue. DuraGen XS is manufactured from Ultra Pure Collagen™, handles and conforms similar to normal soft tissue, and has an excellent safety profile.

Catalog No.	Size	Unit of Measure
DXM1013	1" x 3"	Single Unit
DXM1022	2" x 2"	Single Unit
DXM1033	3" x 3"	Single Unit
DXM1045	4" x 5"	Single Unit
DXM1057	5" x 7"	Single Unit

DuraGen Plus® Dural Regeneration Matrix

DuraGen Plus® Dural Regeneration Matrix is Integra's most optimized onlay graft. DuraGen Plus Dural Regeneration Matrix is an absorbable implant that is indicated as a dural substitute for repair of dura mater. DuraGen Plus has a more consistent collagen structure for superior handling over original DuraGen. After implantation, DuraGen Plus is infiltrated by fibroblasts and is fully resorbed and replaced with endogenous tissue. DuraGen Plus is manufactured from Ultra Pure Collagen™, handles and conforms similar to normal soft tissue, and has an excellent safety profile.

Catalog No.	Size	Unit of Measure
DP1011	1" x 1"	Single Unit
DP5011	1" x 1"	5 Units
DP1013	1" x 3"	Single Unit
DP5013	1" x 3"	5 Units
DP1022	2" x 2"	Single Unit
DP5022	2" x 2"	5 Units
DP1033	3" x 3"	Single Unit
DP5033	3" x 3"	5 Units
DP1045	4" x 5"	Single Unit
DP1057	5" x 7"	Single Unit

Suturable DuraGen™ Dural Regeneration Matrix

Suturable DuraGen™ Dural Regeneration Matrix is Integra's reinforced onlay graft. It is a suturable, resorbable, onlay graft indicated as a dural substitute for the repair of dura mater. The stronger integrated-matrix design combines suturability while maintaining the biological activity of DuraGen Plus. After implantation, Suturable DuraGen is infiltrated by fibroblasts and is fully resorbed and replaced with endogenous tissue. Suturable DuraGen conforms similar to normal soft tissue and has an excellent safety profile.

Catalog No.	Size	Unit of Measure
DURS1391	1" x 3"	Single Unit
DURS2291	2" x 2"	Single Unit
DURS3391	3" x 3"	Single Unit
DURS4591	4" x 5"	Single Unit

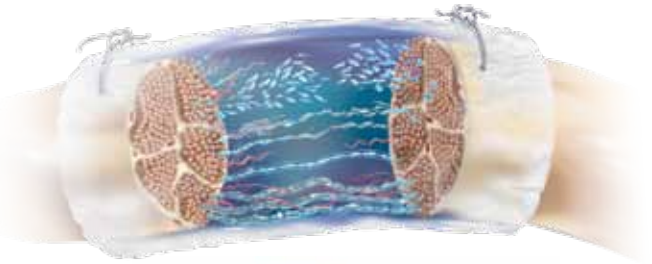
DuraGen® Dural Graft Matrix

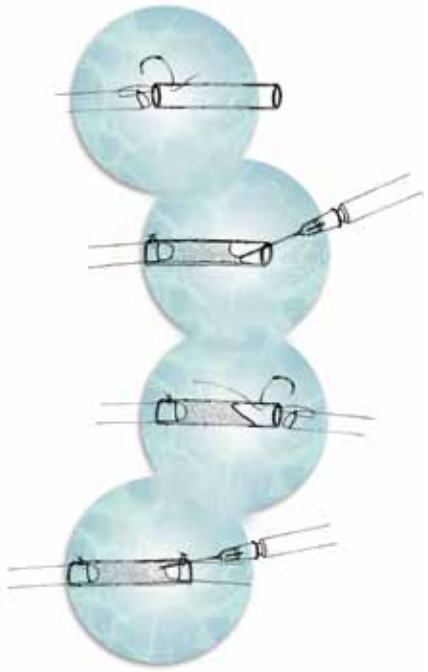
DuraGen® Dural Graft Matrix is a resorbable implant indicated as a dural substitute for the repair of dura mater. After implantation, DuraGen is infiltrated by fibroblasts and is fully resorbed and replaced with endogenous tissue. DuraGen is manufactured from Ultra Pure Collagen™, handles and conforms similar to normal soft tissue, and has an excellent safety profile.

Catalog No.	Size	Unit of Measure
ID1101	1" x 1"	Single Unit
ID1105	1" x 1"	5 Units
ID1301	1" x 3"	Single Unit
ID1305	1" x 3"	5 Units
ID2201	2" x 2"	Single Unit
ID2205	2" x 2"	5 Units
ID3301	3" x 3"	Single Unit
ID3305	3" x 3"	5 Units
ID4501	4" x 5"	Single Unit

NeuraGen® Nerve Guide

NeuraGen® Nerve Guide is for the repair of peripheral nerves which have been completely severed. NeuraGen Nerve Guide is a semi-permeable collagen tube that isolates and provides an environment for the extension of axons and growth of Schwann cells that are the elements responsible for functional recovery following nerve injury.





Catalog No.	Size	Unit of Measure
PNG220	2.0mm ID x 2cm length	Single Unit
PNG320	3.0mm ID x 2cm length	Single Unit
PNG420	4.0mm ID x 2cm length	Single Unit
PNG520	5.0mm ID x 2cm length	Single Unit
PNG620	6.0mm ID x 2cm length	Single Unit
PNG720	7.0mm ID x 2cm length	Single Unit
PNG130	1.5mm ID x 3cm length	Single Unit
PNG230	2.0mm ID x 3cm length	Single Unit
PNG330	3.0mm ID x 3cm length	Single Unit
PNG430	4.0mm ID x 3cm length	Single Unit
PNG530	5.0mm ID x 3cm length	Single Unit
PNG630	6.0mm ID x 3cm length	Single Unit
PNG730	7.0mm ID x 3cm length	Single Unit

NeuraWrap™ Nerve Protector

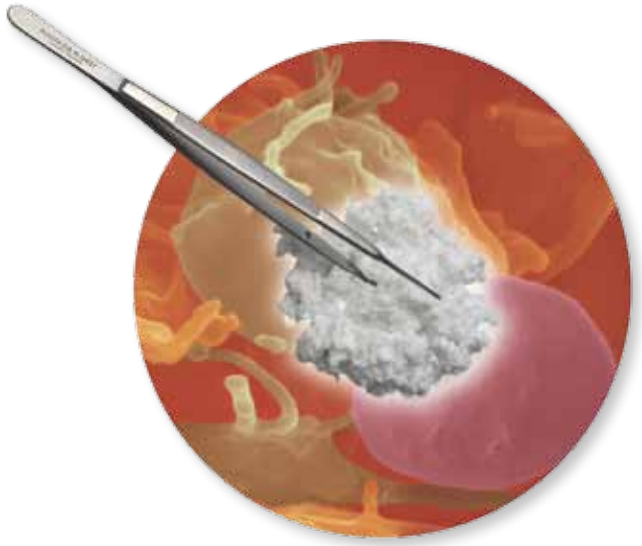
NeuraWrap™ Nerve Protector is for the protection of peripheral nerves which have been compressed, scarred or partially injured. NeuraWrap™ Nerve Protector provides a protective environment for nerve healing with minimal potential for scar formation, encapsulation and nerve entrapment.

Catalog No.	Size	Unit of Measure
NW320	3.0mm ID x 2cm length	Single Unit
NW520	5.0mm ID x 2cm length	Single Unit
NW720	7.0mm ID x 2cm length	Single Unit
NW1020	10.0mm ID x 2cm length	Single Unit
NW340	3.0mm ID x 4cm length	Single Unit
NW540	5.0mm ID x 4cm length	Single Unit
NW740	7.0mm ID x 4cm length	Single Unit
NW1040	10.0mm ID x 4cm length	Single Unit

Helitene® Absorbable Collagen Hemostatic Agent-Fibrillar Form

Helitene® Absorbable Collagen Hemostatic Agent is a soft, white, pliable, absorbent fibrillar hemostatic agent. Helitene is indicated in surgical procedures (other than ophthalmological and urological surgery) as an adjunct to hemostasis when control of bleeding by ligature or conventional procedures is ineffective or impractical.

Catalog No.	Size	Unit of Measure
1692ZK	1 gram	5 Units
1692ZL	0.5 gram	5 Units



MAYFIELD®

BUDDE®

Cranial Stabilization and Brain Retraction

Pricing:
Prices are as listed in the Integra LifeSciences Corporation current price list and are subject to change without notice. Prices stated in specific written quotations are firm for 60 days from the date given, and are otherwise subject to change without prior notice. Pricing terms stated on written agreements are governed by such agreements.

Minimum Order Requirements:
Minimum order requirement is one unit unless otherwise noted.

Shipments:
F.O.B. Integra point of shipment within the continental United States. Shipping costs (including freight and insurance), shall be prepaid by Integra and invoiced to customers.

Ordering Procedure:
A written purchase order on customer's form may be requested for purchases of Integra products.

Acceptance of Orders:
Orders are accepted upon approval by Integra LifeSciences Corporation.

Terms:
All prices are net 30 days. F.O.B. origin.

Return Policy:

- Authorization, from customer service, must be obtained prior to returning product. A Return Good Authorization order will be issued.
- Sterile product must be returned in unopened, undamaged cartons, packed to prevent damage.
- Non-sterile product must be returned in unused saleable condition in original package.
- Custom or special order products will not be accepted for credit.
- Credit will be issued for goods returned prior to thirty days from ship date with a 25% restocking charge plus all freight charges. This assumes that the product returned is not damaged and can be verified to have not been used or opened.

Customer Service Contact Information
Integra LifeSciences Corporation
4900 Charlemar Drive, Building A
Cincinnati, OH 45227
877-444-1114
513-533-7979
513-271-1915 (fax)

Integra Limited Warranty

INTEGRA LIFESCIENCES CORPORATION warrants to the original purchaser only that each new MAYFIELD® product is free from manufacturing defects in material and workmanship under normal use and service for a period of one (1) years (except as otherwise expressly provided as to accessory items) from the date of delivery by INTEGRA to the first purchaser, but in no event beyond the expiration date stated on any product labeling.

- Surgical instruments are guaranteed to be free from defects in material and workmanship when maintained and cleaned properly and used normally for their intended purpose.
- Any covered product that is placed by INTEGRA under a lease, rental or installment purchase agreement and that requires repair service during the term of such placement agreement shall be repaired in accordance with the terms of such agreement.

If any covered defect occurs during the warranty period or term of such placement agreement, the purchaser should communicate directly with INTEGRA's home office. If purchaser seeks to invoke the terms of this warranty, the product must be returned to INTEGRA at its home office. The defective product should be returned promptly, properly packaged and postage prepaid. Loss or damage in return shipment to INTEGRA shall be at CUSTOMER's risk. INTEGRA's sole responsibility under this warranty shall be repair or replacement, at INTEGRA's sole discretion at INTEGRA's expense, subject to the terms of this warranty and applicable agreements.

IN NO EVENT SHALL INTEGRA BE LIABLE FOR ANY INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES IN CONNECTION WITH THE ACQUISITION OR USE OF ANY INTEGRA PRODUCT. Further, this warranty shall not apply to, and INTEGRA shall not be responsible for, any loss arising in connection with the purchase or use of any INTEGRA product that has been repaired by anyone other than an authorized INTEGRA service representative or altered in any way so as, in INTEGRA's judgment, to affect its stability or reliability, or which has been subject to misuse, negligence or accident, or which has been used otherwise than in accordance with the instructions furnished by INTEGRA. THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON INTEGRA'S PART, AND INTEGRA NEITHER ASSUMES NOR AUTHORIZES ANY REPRESENTATIVE OR OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH INTEGRA'S PRODUCTS.

INTEGRA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTY ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, USAGE OR TRADE OR OTHERWISE, OR APPLICATION OR WARRANTY OF QUALITY AS WELL AS ANY EXPRESS OR IMPLIED WARRANTY TO PATIENTS. No warranty or guarantee may be created by any act or statement nor may this Standard Warranty be modified in any way, except as a result of a writing signed by an officer of INTEGRA. These limitations on the creation or modification of this warranty may not be waived or modified orally or by any conduct.

MAYFIELD® Infinity Skull Clamp

Provides 3-point rigid cranial fixation.

- Added length and curved contours of the skull clamp uprights
- Multiple rocker arm options-Standard, Triad, Pediatric, Single-Pin
- 80lb and 18lb Torque Screw Options

Catalog No.

A1114

MAYFIELD® Modified Skull Clamp

Provides 3-point rigid cranial fixation.

- Flexibility and safety in positioning of skull pins around critical areas
- Quick-release lock

Catalog No.

A1059

MAYFIELD® 2000 Skull Clamp

Provides 3-point rigid cranial fixation.

- Streamlined body design and low profile single pin side facilitates greater exposure to the operative site
- Unique swivel rocker arm mechanism permits greater flexibility in patient positioning

Catalog No.

A2000

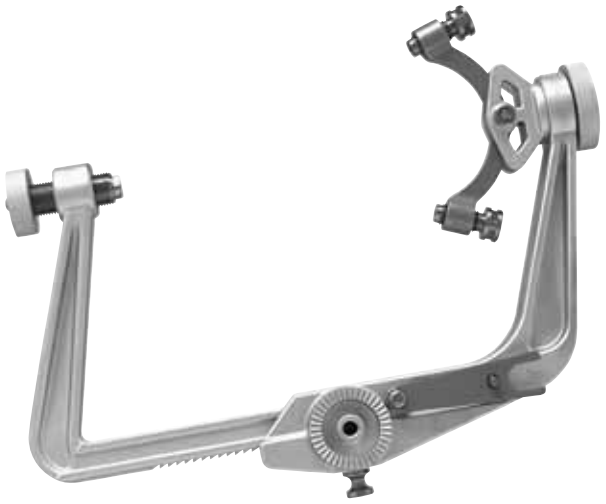
MAYFIELD Triad™ Skull Clamp

Provides 3-point rigid cranial fixation.

- Provides visual indication of clamping force on ALL THREE skull pins
- Ability to adjust the force on ALL THREE skull pins
- Equal impingement of pins ensures firm skull positioning and fixation

Catalog No.

A1108



MAYFIELD® Adult Horseshoe Headrest

Horseshoe shaped headrest provides cranial support in the prone or supine position for adults and older children.

- Vertical and lateral adjustments allow flexibility in patient positioning
- Connects directly to the Transitional member for chin-to-chest positioning
- Adjustable pad base accommodates various head sizes
- Fluid resistant gel pads provide comfort and reduce the incidence of pressure necrosis
- Easily cleaned
- Pulley Rod attachment for skeletal traction

Catalog No.

A1011

MAYFIELD® Adult Horseshoe Headrest

Horseshoe shaped headrest provides cranial support in the prone or supine position for adults and older children.

- Vertical and lateral adjustments allow flexibility in patient positioning
- Adjustable pad base accommodates various head sizes
- Fluid resistant gel pads provide comfort and reduce the incidence of pressure necrosis
- Easily cleaned
- Pulley Rod attachment for skeletal traction

Catalog No.

A1012

MAYFIELD® Pediatric Horseshoe Headrest

Horseshoe shaped headrest provides cranial support in the prone or supine position for infants and young children.

- Vertical and lateral adjustments allow flexibility in patient positioning
- Adjustable pad base accommodates various head sizes
- Fluid resistant gel pads provide comfort and reduce the incidence of pressure necrosis
- Easily cleaned

Catalog No.

A1051

MAYFIELD® General Purpose Headrest

Provides cranial support and positioning when rigid fixation is not needed.

- Headrest pads easily contour to a patient's head

Catalog No.

A1008

Papadopoulos Posterior Cervical Spine (PCS) Support

Supports the cervical spine in an anatomical position.

- Firm posterior cervical spine support for anterior approaches
- Ratcheting System allows for easy intraoperative cervical extension
- Base is radiolucent to facilitate intraoperative imaging

Catalog No.

A1073

MAYFIELD® Infinity Support System

Provides multiple headrests for cranial support in the prone or supine position for pediatric patients (ages 5+) and adults. Attaches to any MAYFIELD® Base Unit.

Catalog No.
A1112

MAYFIELD® Ultra 360™ Patient Positioning System

Support/Mounting device that facilitates attachment of MAYFIELD® Skull Clamps and Headrest Systems to the OR table.

- Independent rotating and self-locking handles provide more fluid and flexible movement allowing better connection to the desired skull clamp
- Set-up time is reduced because of the quick action handles
- Self- locking levers for added security

Catalog No.

A2009

MAYFIELD® Ultra Base Unit

Support/Mounting device that facilitates attachment of MAYFIELD® Skull Clamps and Headrest Systems to the OR table.

- 33% more weight and force bearing capacity
- Specifically designed for use with the MAYFIELD® Tri-Star Swivel Adaptor (A-2008)
- Patent pending

Catalog No.

A2101

MAYFIELD® NeuroGen Adaptor

Support/Mounting device that allows attachment of base units to the OR table when receptacle holes are absent or inappropriate.

- Easily attaches to OR table side rails
- Adjustable end bracket to fit a variety of table widths

Catalog No.

A1113

MAYFIELD® Tri-Star Swivel Adaptor

Attaches to MAYFIELD® Ultra Base Unit (A-2101) to provide optimal flexibility in positioning via 360-degree rotation. (Tri-Star must be used with the Ultra Base Unit or a MAYFIELD® Base Unit upgraded to include the Ultra locking handle.)

- Provides two additional starbursts to facilitate attachment of ancillary components such as IGS dynamic reference frames and articulating arms
- Starburst can rotate 360-degrees independent of skull clamp
- Adapts headrests and skull clamps to MAYFIELD® Base Units
- Patent pending

Catalog No.

A2008

MAYFIELD® Swivel Adaptor

Attaches to MAYFIELD® Base Unit to provide optimal flexibility in positioning via 360-degree rotation.

- Adapts headrests and skull clamps to MAYFIELD® Base Units

Catalog No.

A1018

MAYFIELD® Ball Socket Swivel Adaptor

Attaches to MAYFIELD® Base Unit to provide optimal flexibility in positioning via 360-degree rotation with tilt in any axis.

- Unique locking pivot permits precise patient positioning
- Exclusive spring-loaded mechanism provides assured stability and secure lock
- Adapts headrests and skull clamps to MAYFIELD® Base Units

Catalog No.

A1064

MAYFIELD® Crossbar Adaptor

- For seated position procedures, easily mounts to the OR table side rails to adapt all MAYFIELD® Skull Clamps for posterior fossa craniotomy procedures or posterior cervical laminectomies
- Allows for unobstructed viewing to the posterior cervical spine and occipital areas
- Compatible with most currently available OR tables

Catalog No.

A1015

MAYFIELD® Universal Side Rail Fitting

- For attaching the MAYFIELD® Crossbar Adaptor (A-1015) and other products to the OR table
- Compatible with most currently available OR tables

Catalog No.

A1060

MAYFIELD® Horseshoe Conversion Adaptor

Allows an A1011 Horseshoe Headrest to attach to a MAYFIELD® swivel Adaptor.

- Provides the means of attaching an A1011 or A1051 to a MAYFIELD® Ultra 360™ Patient Positioning System

Catalog No.

A1109

MAYFIELD® Triad Horseshoe Conversion Adaptor w/Knobs

Allows an A1012 Horseshoe Headrest to attach to standard Transitional Members.

- Provides the means of obtaining chin-to-chest positioning

Catalog No.

A1110

MAYFIELD® Modified Swivel Adaptor

Attaches to MAYFIELD® Base Units (except for A2009) to provide optimal flexibility in positioning via 360-degree rotation.

- Spring loaded pin contacts ratchet arm of skull clamp to minimize movement of the skull clamp components
- Ideal for use with Image-Guided Surgery (IGS) procedures

Catalog No.

A1115

MAYFIELD® Modified Tri-Star Swivel Adaptor

Attaches to MAYFIELD® Base Unit A2101 to provide optimal flexibility in positioning via 360-degree rotation.

- Spring loaded pin contacts ratchet arm of skull clamp to minimize movement of the skull clamp components
- Ideal for use with Image-Guided Surgery (IGS) procedures with additional starbursts for ancillary IGS components

Catalog No.

A1116

MAYFIELD® Adult Disposable Skull Pins

Fit all MAYFIELD® Skull Clamps to allow rigid cranial fixation.

- Patented "Wings" design of the pin body improves the fit into receptacle holes of all MAYFIELD® Skull Clamps
- Unique finger grooves molded into the pin body facilitate sure grip and easy removal from pin holders

Catalog No.

A1072

MAYFIELD® Adult Disposable Skull Pins (Steel)

Fit all MAYFIELD® Skull Clamps to allow rigid cranial fixation.

- Red O-ring connotes a disposable product; ensures a secure fit

Catalog No.

A1083

MAYFIELD® Child Disposable Skull Pins (Steel)

Fit all MAYFIELD® Skull Clamps to allow rigid cranial fixation.

- Pinpoint reduced to control penetration
- Red O-ring connotes a disposable product; ensures a secure fit

Catalog No.

A1084

MAYFIELD® Radiolucent Skull Pins

Fit all MAYFIELD® Skull Clamps to allow rigid cranial fixation.

- Engineered from synthetic Sapphire material to significantly reduce or limit artifact during CT and MR imaging
- Patented "Wings" design of the pin body improves the fit into receptacle holes of all MAYFIELD® Skull Clamps
- Unique finger grooves molded into the pin body facilitate sure grip and easy removal from pin holders

Catalog No.

A2020

MAYFIELD® Adult Reusable Skull Pins (Steel)

Fit all MAYFIELD® Skull Clamps to allow rigid cranial fixation.

- Black O-ring connotes a reusable product; secure fit

Catalog No.

A1047

MAYFIELD® Child Reusable Skull Pins (Steel)

Fit all MAYFIELD® Skull allow rigid cranial fixation.

- Pinpoint reduced to control penetration
- Black O-ring connotes reusable product; secure fit

Catalog No.

A1048

MAYFIELD® Child Disposable Titanium Skull Pins

Fits all MAYFIELD® Skull Clamps to allow rigid cranial fixation.

- Designed and tested for use in MR Systems up to 3.0 Tesla (T)*
- Pinpoint reduced to control penetration
- Patented "Wings" that improve fit into pin receptacles of skull clamps
- Unique finger grooves that provide a sure grip for easy removal
- Supplied sterile packaged

Catalog No.
A1119

MAYFIELD® Adult Disposable Titanium Skull Pins

Fits all MAYFIELD® Skull Clamps to allow rigid cranial fixation.

- Designed and tested for use in MR Systems up to 3.0 Tesla (T)*
- Patented "Wings" that improve fit into pin receptacles of skull clamps
- Unique finger grooves that provide a sure grip for easy removal
- Supplied sterile packaged

Catalog No.
A1120

* These skull Pins are MR Conditional according to terminology specified in the American Society for Testing and Materials (ASTM). International, Designation: F2503-05. See Product *Indications for Use* for conditions.

MAYFIELD® Adult Reusable Titanium Skull Pins

Fits all MAYFIELD® Skull Clamps to allow rigid cranial fixation.

- Designed and tested for use in MR Systems up to 3.0 Tesla (T)*
- Black o-ring designates it as a reusable skull pin

Catalog No.

A1121

MAYFIELD® Child Reusable Titanium Skull Pins

Fits all MAYFIELD® Skull Clamps to allow rigid cranial fixation.

- Designed and tested for use in MR Systems up to 3.0 Tesla (T)*
- Black o-ring designates it as a reusable skull pin
- Pinpoint reduced to control penetration

Catalog No.

A1122

* These skull Pins are MR Conditional according to terminology specified in the American Society for Testing and Materials (ASTM). International, Designation: F2503-05. See Product *Indications for Use* for conditions.

MAYFIELD® Infinity XR2 Radiolucent Base Unit

Radiolucent Base unit with excellent rigidity and a new level of enhanced stability for the attachment of MAYFIELD Radiolucent Skull Clamps (A2002, A2114) and Headrests (A2010, A2011) to the OR table.

- Indicated for X-ray imaging compatibility, CT, Fluoroscopy and Digital Subtraction Angiography (DSA)
- Improved strength and durability using composite materials that preserve target visualization during fluorography imaging
- Set-up and positioning is easy with the simplified linkage components that are secured by color-coded dual-action knobs, saving operating room time
- Horizontal bar provides a wide imaging window-full, side-to-side lateral positioning (21.5 inches/54.6cm)

Catalog No.

A2079

MAYFIELD® Infinity XR2 Radiolucent Skull Clamp

Provides trusted 3-Point Fixation, Minimal Artifact-attaches to the MAYFIELD® Radiolucent Base Units (A1079, A2079)

- Provides rigid 3-point skeletal fixation for all cranial and cervical procedures involving x-ray imaging, including Digital Subtraction Angiography (DSA)
- Composite materials provide strength, durability and reduced artifact
- Force knob is on the single-pin side of the clamp, the same as other MAYFIELD® skull clamps
- Ratchet extension is guided and fixed in place by a double-pawl feature to allow better control of the extension, requiring less force to apply the clamp to the patient

Catalog No.

A2114

MAYFIELD® Infinity XR2 Optional Accessories

Completing the MAYFIELD® Infinity XR2 Radiolucent Products are the following optional accessories:

- XR2 Tri-Star Swivel Adaptor (A2111)-provides two additional starbursts for when image-guided surgery systems are required. The dual starburst bar can be independently rotated 360-degrees for optimal positioning.
- Child's Rocker Arm (439A1091) is available as an accessory
- Metal-Free Conversion Accessory (439A1092) allows for the use of the Removable Force Applicator (439A1093) to further limit artifact during the x-ray imaging process.

A2111

439A1091

439A1092

439A1093

Catalog No's.

439A1091
439A1093
439A1092
A2111

MAYFIELD® Radiolucent Horseshoe Headrest

Provides cranial support in the prone or supine position for adults and older children where DSA is utilized.

- Constructed of radiolucent materials to minimize artifact during imaging
- Compatible with both adaptors on the MAYFIELD® Radiolucent Base Units
- Includes pulley rod attachment for skeletal retraction (easily removed)

Catalog No.

A2010

MAYFIELD® Pediatric Radiolucent Horseshoe Headrest

Provides cranial support in the prone or supine position for pediatric patients where DSA is utilized.

- Constructed of radiolucent materials to minimize artifact during imaging
- Compatible with both adaptors on the MAYFIELD® Radiolucent Base Units

Catalog No.

A2011

MAYFIELD® Instrument Wall Storage Unit

Wall board used to organize and store MAYFIELD® products.

- Printed silhouettes allow quick and easy storage

Catalog No.

A1023

Integra™ Cranial Stabilization Covers

Non-sterile, Disposable Equipment Covers designed to protect your MAYFIELD® systems.

- Quick, easy set-up and removal
- Conveniently packaged in cartons of 24 covers
- For use with all MAYFIELD® skull clamps, swivel adaptors, and base units

Catalog No.

A1118

BUDDE® Halo Radiolucent Retractor System

Attaches to MAYFIELD® Skull Clamps. Provides a sturdy platform for retraction and a ready support or hand rest for the surgeon.

- Radiolucent components allow the frame to remain in place during intraoperative imaging for optimal efficiency
- Compatible with the MAYFIELD® Radiolucent Headrest System (A-2004)

Catalog No.

A1096

BUDDE® Halo Retractor System

Attaches to MAYFIELD® Skull Clamps or to the side rails of the OR table to provide a sturdy platform for retraction and a ready support or hand rest for the surgeon.

- Double-Hinged ContinuTrac™ halo ring provides 360-degrees of uninterrupted retractor arm placement for ultimate flexibility
- Low profile design allows for ease of instrument passage within the surgical field

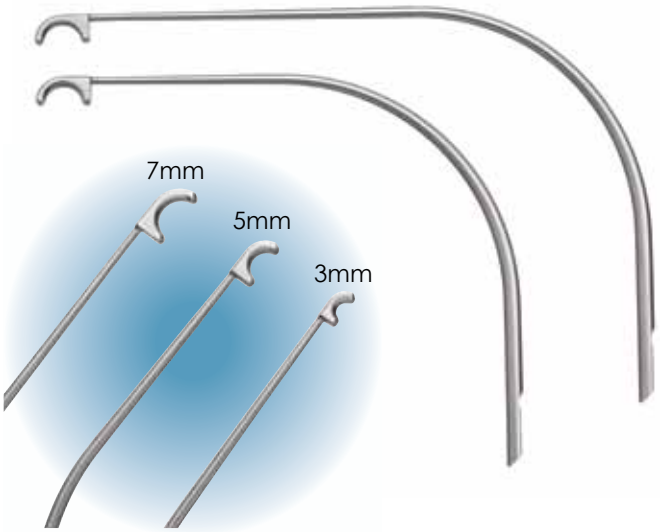
Catalog No.

A1040

SAMY Vascular Retractors

Specifically designed for retraction of blood vessels with BUDDE® Halo Retractor Systems, or other retractor systems.

- Curved retractor tips fit the circumference of the vessel, spreading distribution of retractor forces onto more surface area of the vessel
- Enables the Neurosurgeon to elevate, retract, and/or depress the vessel, providing movement in three dimensions
- Exceptional retractor design helps prevent compression of the vessel



Catalog No.

438A1200A – Short

438A1200B – Long

Integra™ Brain Retractor System

Attaches to MAYFIELD® Skull Clamps to provide a sturdy platform for retraction and a ready support or hand rest for the surgeon.

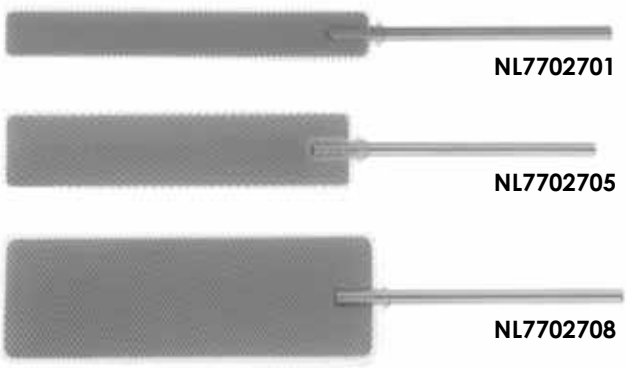
- Modular self-retaining components allow for a variety of configurations to surround the surgical field
- Allows for a low profile set-up for ease of instrument passage within the surgical field
- Compatible with MAYFIELD® Skull Clamps; can be brought into the surgical field at any stage during the procedure

Catalog No.
A2012

Ruggles™ Silicone Retractor

Clear Reinforced

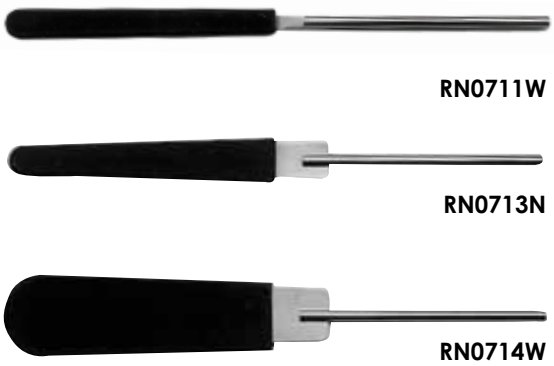
Catalog No.	Post	Body
NL7702701	5cm x 3mm	76 x 9mm
NL7702702	5cm x 3mm	76 x 13mm
NL7702703	5cm x 3mm	76 x 11mm
NL7702704	5cm x 3mm	76 x 22mm
NL7702705	5cm x 3mm	70 x 15mm
NL7702707	5cm x 3mm	95 x 20mm
NL7702708	5cm x 3mm	75 x 25mm



Ruggles™ Silicone Retractor

Black

Catalog No.	Style	Tip	Length
RN0711N	Narrow	4mm	6" (152mm)
RN0711W	Wide	8mm	6" (152mm)
RN0712N	Narrow	6mm	6" (152mm)
RN0712W	Wide	13mm	6" (152mm)
RN0713N	Narrow	9mm	6" (152mm)
RN0713W	Wide	18mm	6" (152mm)
RN0714N	Narrow	11mm	6" (152mm)
RN0714W	Wide	23mm	6" (152mm)



Integra™ Leyla Retraction System

Catalog No.	Description	
R2390	Two Arms include:	one (1) R2397 two (2) R2400
R2391	Single Arm includes:	one (1) R2396 two (2) R2400

Flexible Snake Arm*

Catalog No.	Description	Length
R2400	Stainless Steel	17" (432mm)

***Note: Snake Arm does not include Spatula Support**

R2400

Reichert Fixation Base

For mounting to the skull

Catalog No.	Description
R2396	For Mounting 1 Snake Arm
R2397	For Mounting 2 Snake Arms

R2396

R2397

Overhead Bar Fixation Base

Catalog No.	Description
R2389	For Mounting 1 Snake Arm

R2389

Spatula Support

Catalog No.	Description
R2398	Flat
R2399	Tubular

R2398

R2399

Integra™ Leyla Retraction System

Table Mounting Hardware

Catalog No.	Description
R2381	Rigid Holding Rod
R2382	Coupling Head
R2383	Ball Joint Clamp
R2384	Coupling Head Turn Table

R2381

Integra™ Leyla Retraction System

Table Mounting Hardware

Catalog No.	Description	
R2385	**Includes:**	one (1) R2381
		two (2) R2382
		one (1) R2383

R2382

R2383

R2384

Integra™ Fukushima-Day Retraction System
with Sterilization Case

Catalog No.	Description	
R9100	**Set Includes:**	two (1) R9101 Table Clamps
		four (4) R9102 C-Clamps
		four (4) R9103 U-Bars
		four (4) R9104 Extension Arms, Adjustable
		four (4) R9105 Universal Snake Arms
		one (1) Instrument Tray

R9100

Integra™ Fukushima-Day Retraction System

Continued from previous page

Components

Catalog No.	Description
R9101	Table Clamp

R9101

Catalog No.	Description
R9104	Extension Arm, Adjustable

R9104

Catalog No.	Description
R9102	C-Clamp

R9102

Catalog No.	Description
R9106	Replacement Springs for C-Clamp

R9106

Catalog No.	Description
R9103	U-Bar

R9103

Catalog No.	Description
R9105	Fukushima-Day Universal Retraction System Tray

R9105

Star Clamp

Catalog No.	Description
R8978	2 Point
R8974	3 Point

R8978

R8974

Universal Snake

Titanium Sections, Universal Support

Catalog No.	Description
R8975	14" (356mm)

R8975

KraniOS™

Cranial Closure

Pricing:
Prices stated in specific written quotations are firm for thirty days from the date given, and are otherwise subject to change without prior notice. Pricing terms stated on written agreements are governed by such agreements.

Minimum Order Requirements:
Minimum order requirement is $100 (a $10 handling charge will be added to any order under $100). For partial case orders, contact the Customer Service Department for quotation.

Shipments:
F.O.B. Integra NeuroSciences point of shipment within the continental United States. Shipping costs (including freight and insurance), shall be prepaid by Integra and invoiced to customers.

Ordering Procedure:
A written purchase order on customer's form may be requested for purchases of Integra NeuroSciences products.

Acceptance of Orders:
Orders are accepted upon approval by Integra in Plainsboro, New Jersey.

Return Policy:

- Authorization, from customer service, must be obtained prior to returning product.
- Sterile product must be returned in unopened, undamaged cartons, packed to prevent damage.
- Non-sterile product must be returned in unused saleable condition in original package.
- Custom or special order products will not be accepted for credit.
- Credit will be issued for goods returned prior to ninety days from ship date with a 20% restocking charge. This assumes that the product returned is not damaged and can be verified to have not been used or opened.

Customer Service Contact Information
311 Enterprise Drive
Plainsboro, New Jersey 08536 USA

USA and Canada
800-997-4868
609-936-5400 (outside the USA)
888-980-7742 (Fax)

England
+44 (0) 1264 345 700
+44 (0) 1264 332 113

France
+33 (0) 493 95 56 00
+33 (0) 493 95 56 60 (Fax)

Germany
0800 10 10 755
06995 775 477 (Fax)

Integra Limited Warranty

INTEGRA LIFESCIENCES CORPORATION ("INTEGRA") warrants to the original purchaser only that each new INTEGRA product is free from manufacturing defects in material and workmanship under normal use and service for a period of two (2) years (except as otherwise expressly provided as to accessory items) from the date of delivery by INTEGRA to the first purchaser, but in no event beyond the expiration date stated on any product labeling.

- Surgical instruments are guaranteed to be free from defects in material and workmanship when maintained and cleaned properly and used normally for their intended purpose.
- Any covered product that is placed by INTEGRA under a lease, rental or installment purchase agreement and that requires repair service during the term of such placement agreement shall be repaired in accordance with the terms of such agreement.

If any covered defect occurs during the warranty period or term of such placement agreement, the purchaser should communicate directly with INTEGRA's home office. If purchaser seeks to invoke the terms of this warranty, the product must be returned to INTEGRA at its home office. The defective product should be returned promptly, properly packaged and postage prepaid. Loss or damage in return shipment to INTEGRA shall be at CUSTOMER's risk. INTEGRA's sole responsibility under this warranty shall be repair or replacement, at INTEGRA's sole discretion at INTEGRA's expense, subject to the terms of this warranty and applicable agreements.

IN NO EVENT SHALL INTEGRA BE LIABLE FOR ANY INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES IN CONNECTION WITH THE ACQUISITION OR USE OF ANY INTEGRA PRODUCT. Further, this warranty shall not apply to, and INTEGRA shall not be responsible for, any loss arising in connection with the purchase or use of any INTEGRA product that has been repaired by anyone other than an authorized INTEGRA service representative or altered in any way so as, in INTEGRA's judgment, to affect its stability or reliability, or which has been subject to misuse, negligence or accident, or which has been used otherwise than in accordance with the instructions furnished by INTEGRA. THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON INTEGRA'S PART, AND INTEGRA NEITHER ASSUMES NOR AUTHORIZES ANY REPRESENTATIVE OR OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH INTEGRA'S PRODUCTS.

INTEGRA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTY ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, USAGE OR TRADE OR OTHERWISE, OR APPLICATION OR WARRANTY OF QUALITY AS WELL AS ANY EXPRESS OR IMPLIED WARRANTY TO PATIENTS. No warranty or guarantee may be created by any act or statement nor may this Standard Warranty be modified in any way, except as a result of a writing signed by an officer of INTEGRA. These limitations on the creation or modification of this warranty may not be waived or modified orally or by any conduct.

KraniOS™ 1.6mm Cranial Closure System

Titanium 1.6mm screws with a characteristic head design have high strength that help reduce stripping while maintaining a low profile. The ergonomically designed screwdriver ensures easy and secure loading, and a comprehensive selection of plates, mesh, instruments and screws provide convenient cranial closure.

(Partial system shown on left)

IC515031

IC515032

IC515033

IC515044

Straight Plates

Catalog No.	Specification
IC515031	1 x 1 Small
IC515032	1 x 1 Medium
IC515033	1 x 1 Large
IC515044	2 x 2 X-Large

IC515706

Curved Plate

Catalog No.	Specification
IC515706	6 Hole

IC515901

IC515902

IC515903

IC515932

Burr Hole Covers

Catalog No.	Specification
IC515901	Small (13mm)
IC515902	Medium (18mm)
IC515903	Large (22mm)
IC515932	Shunt Access (18mm)

(Sample Illustrations–Not Actual Size)

X-Plate

Catalog No.	Specification
IC515912	Medium

IC515912

Y-Plate

Catalog No.	Specification
IC515304	3 x 2

IC515304

Y-Y Plates

Catalog No.	Specification
IC515402	2 x 2 Medium
IC515413	3 x 3 Large
IC515414	3 x 3 X-Large

IC515402

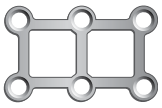
IC515413

IC515414

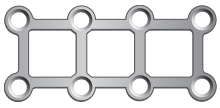
Matrix Plates

Catalog No.	Specification
IC515622	2 x 2 Small
IC515623	2 x 3 Small
IC515624	2 x 4 Small

IC515622



IC515623



IC51624

Straight Plates

Catalog No.	Specification
IC515008	8 Hole
IC515016	16 Hole

IC515008

IC515016

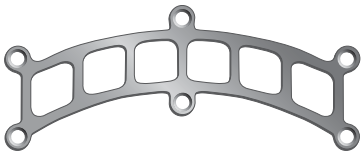
(Sample Illustrations–Not Actual Size)

Gap Plates

Catalog No.	Specification
IC515631	Small
IC515632	Medium
IC515633	Large

IC515631

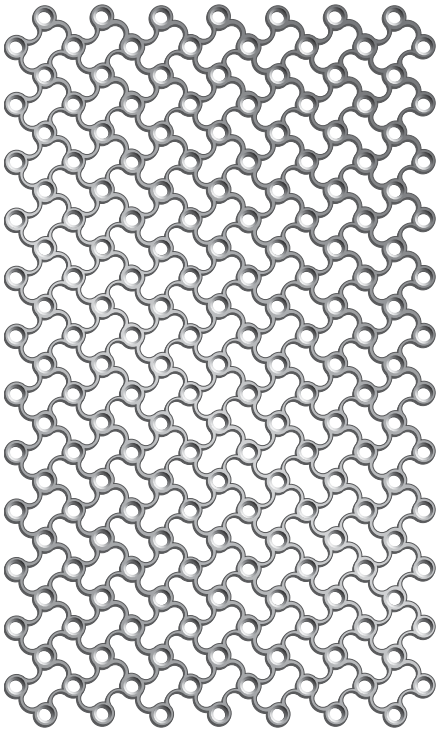
IC515632



IC515633

Mesh

Catalog No.	Specification
IC515941	Malleable, 50mm x 50mm
IC515942	Malleable, 60mm x 100mm
IC515951	Rigid, 50mm x 50mm
IC515952	Rigid, 60mm x 100mm



IC515952

(Sample Illustrations–Not Actual Size)

1.6mm Ti Self-Drilling Screws

Catalog No.	Specification
IC616003	3.5mm Single
IC616004	4.0mm Single
IC616005	5.0mm Single
IC916003	3.5mm 10-Pack
IC916004	4.0mm 10-Pack
IC916005	5.0mm 10-Pack

IC616003
Single

IC916003
Cartridge

IC916004
Cartridge

IC916005
Cartridge

1.8mm Ti Self-Tapping Rescue Screws

Catalog No.	Specification
IC618003	3.5mm Single
IC618004	4.0mm Single
IC618005	5.0mm Single

IC618003
Single

Hardware

Catalog No.	Specification
IC700219	Sterilization Case
IC700217	Module Case–Burr Hole Cover/Str. Plates
IC700218	Module Case–Matrix/Y Plates
IC700001	Screwdriver Handle
IC700116	Screwdriver Blade
IC700010	Plate Holder
IC700030	Plate/Mesh Cutter
IC700040	Plate Bender
IC811004	Drill Bit, 1.12mm Dia. x 4mm Long
IC811005	Drill Bit, 1.12mm Dia. x 5mm Long

IC700001

IC700116

(Sample Illustrations–Not Actual Size)

cusa nxt™

Ultrasonic Tissue Ablation System

cusa selector®

Ultrasonic Surgical Aspirator

Ultrasonic Aspiration

Pricing:
Prices stated in specific written quotations are firm for thirty days from the date given, and are otherwise subject to change without prior notice. Pricing terms stated on written agreements are governed by such agreements.

Minimum Order Requirements:
Minimum order requirement is $250 (a $20 handling charge will be added to any order under $250).
For partial case orders, contact the Customer Service Department for a quotation.

Ordering Procedure:
A written purchase order on the customer's form may be requested for purchases of Integra LifeSciences products.

Acceptance of Orders:
Orders are accepted upon approval by Integra Customer Service.

Return Policy:
- Authorization from customer service must be obtained prior to returning product.
- Sterile product must be returned in unopened, undamaged cartons, packed to prevent damage.
- Non-sterile product must be returned in unused saleable condition in original package.
- Custom or special order products will not be accepted for credit.
- Credit will be issued for goods returned prior to ninety days from ship date with a 20% restocking charge. This assumes that the product returned is not damaged and can be verified to have not been used or opened.

Customer Service Contact Information

311 Enterprise Drive
Plainsboro, New Jersey 08536 USA

USA and Canada
800-997-4868
609-936-5400 (outside the USA)
888-980-7742 (Fax)
custsvcNJ@integra-ls.com

USA Technical Support
888-772-7378
cusa.service@integra-ls.com

Integra Warranty for CUSA Selector® **Ultrasonic Surgical Aspirator and CUSA** NXT™ **Ultrasonic Tissue Ablation System**

1. Warranty.

INTEGRA LIFESCIENCES CORPORATION and its wholly owned subsidiaries ("Integra") warrant to Integra authorized distributors and the original purchaser only that each new Integra Cusa Selector® Ultrasonic Surgical Aspirator (hereinafter the Equipment or the product) is free from manufacturing defects in material and workmanship under normal use and service for a period of one (1) year (except as otherwise expressly provided as to accessory items) from the date of invoice by Integra (or its authorized distributor) to the original purchaser, but in no event beyond the expiration date stated on any product labeling (hereinafter the Warranty Period). For purposes of products sold by Integra through an authorized distributor of Integra, "original purchaser" shall include the purchaser of Integra products to whom the distributor first sells the product. The original purchaser is hereinafter referred to as Customer.

1.1. Coverage. During the Warranty Period, Integra shall provide free-of-charge service and maintenance consistent with the provisions of Section 3 of this Warranty, so that the Equipment conforms to the specifications defined in the Cusa Selector® Ultrasonic Surgical Aspirator Operator's Manual, as such Operator's Manual may be modified by Integra from time to time (the "Specifications").

1.2. Exclusions. The Warranty shall not apply in any manner to service or maintenance of the Equipment, or to replacement of its parts, with respect to:

(i) use of Equipment with any tips, flues, and manifold tubing sets and accessories other than those manufactured by Integra LifeSciences;

(ii) defects arising out of materials or parts provided, modified or designed by anyone other than an authorized Integra service agent (the Integra "Service Agent");

(iii) defects emanating from improper or negligent installation, storage or use of the Equipment or any component thereof, including but not limited to operating the Equipment not in accordance with instructions provided in the Operator's Manual;

(iv) defects arising from improper or negligent cleaning or sterilization methods or improper maintenance of the Equipment;

(v) defects resulting from repairs or service of the Equipment provided other than by Integra or its authorized representatives;

(vi) defects arising from accidental damage to the Equipment, acts of God, electrical power damage, equipment malfunction, unusual stress, unreasonable operating procedures or abnormal or extreme operating conditions; and

(vii) normal wear and tear.

2. Service, Repairs and Replacement.

2.1. Service and Repairs. All service and repairs covered by this Warranty may be referred to hereinafter as "in-warranty repairs," and all service and repairs not covered by this Warranty may be referred to as "out-of-warranty repairs." Integra's sole obligation for in-warranty repairs shall be to make all necessary adjustments and repairs in accordance with this Warranty. Integra shall charge Customer at Integra standard rates for any out-of-warranty repair performed by Integra.

2.2. Equipment Replacement. The defective Equipment or part thereof that is replaced in accordance with the Warranty shall be the property of Integra. Integra reserves the right to fill spare parts requests using refurbished sub-assemblies provided that such sub-assemblies are functionally equivalent to new sub-assemblies and carry the same warranty as the replaced sub-assemblies.

2.3. Notification. In order to avail itself of its rights under the Warranty, Customer or Integra authorized distributors, must immediately notify Integra of any defects and provide Integra every opportunity to inspect and remedy defects.

3. Repair Parts and Services.

3.1. Included under the Warranty are the following services:

3.1.1. Consoles. Integra or its distributor, when authorized for this purpose, shall, if possible, perform on-site repair of consoles and where not possible or otherwise decided at the sole discretion of Integra, Integra or its distributor shall arrange and pay to ship the affected Equipment to the designated repair facility. Integra or its distributor authorized for this purpose shall repair the affected Equipment or replace a console by a new or refurbished console (all of which at the discretion of Integra), that shall carry the same remaining warranty as the original equipment.

3.1.2. Handpieces. Integra shall repair or replace any defective handpieces covered by the Warranty by a new or refurbished handpiece (all of which at the discretion of Integra) that shall carry the same remaining warranty as the original equipment (an "Exchange Handpiece").

3.2. Modifications to Covered Equipment. From time to time, at its sole discretion, Integra may propose modifications to the covered Equipment and to the Specifications for the Equipment. Subject to Customer's approval and at its sole expense, the Customer may request Integra to make such modifications to the covered Equipment and to the Specifications. Integra shall make such modifications for the Customer, which modifications may include the installation of new parts in the Equipment, at a price equal to the then-current list price for such modifications, as such list price is established by Integra in its sole discretion.

4. Quality Control.

4.1. Customer shall maintain reasonable standards of quality control, operations, procedures, safety testing and inspection of Equipment to ensure that unnecessary service or maintenance is not required hereunder.

4.2. Customer shall provide a technical counterpart to Integra's Service Agent for assistance in Integra's telephonic diagnosis of the malfunction with the Equipment. Customer shall reasonably accept Integra's determination whether a repair or service is an in-warranty repair or an out-of-warranty repair.

5. Limitation of Liability.

5.1. INTEGRA's sole responsibility under the warranties described in Section 1 shall be repair or replacement, at INTEGRA's sole discretion at INTEGRA's expense, subject to the terms of this warranty and applicable agreements. THE WARRANTIES DESCRIBED IN SECTION 1 HEREOF ARE EXCLUSIVE AND ARE GIVEN AND ACCEPTED IN LIEU OF ALL OTHER WARRANTIES OF INTEGRA OR ITS SERVICE AGENTS WITH RESPECT TO THE QUALITY, PERFORMANCE AND OPERATION OF THE EQUIPMENT, WRITTEN OR ORAL, EXPRESS OR IMPLIED, AND WHETHER OR NOT ATTRIBUTABLE TO SERVICE PERFORMED PURSUANT TO THE WARRANTY. ALL OTHER REPRESENTATIONS OR WARRANTIES OF INTEGRA OR ITS REPRESENTATIVES, EXPRESS OR IMPLIED, WITH RESPECT TO THE EQUIPMENT OR THE SERVICES, DIAGNOSIS, ADVICE, ASSISTANCE OR PARTS TO BE TENDERED PURSUANT TO THE WARRANTY, INCLUDING, WITHOUT LIMITATION, THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXPRESSLY DISCLAIMED. IN NO EVENT SHALL INTEGRA, ITS ASSIGNEES OR SERVICE AGENTS BE LIABLE FOR LOSS OF USE, REVENUE OR PROFIT OR ANY OTHER INDIRECT, INCIDENTAL, EXEMPLARY, CONSEQUENTIAL, SPECIAL OR OTHER DAMAGES, WHETHER ARISING IN CONTRACT OR IN TORT, BY VIRTUE OF THE WARRANTY OR ANY PERFORMANCE OR BREACH BY INTEGRA, ITS ASSIGNEES OR SERVICE AGENTS HEREUNDER OR PURSUANT HERETO.

5.2. Customer agrees that, notwithstanding the technical assistance provided pursuant to the Warranty by Integra or its representatives, Customer shall be fully and solely responsible for all treatments performed or attempted with the Equipment. INTEGRA MAKES NO REPRESENTATION OR WARRANTY AS TO THE EFFICACY OF THE EQUIPMENT OR OF THE TECHNICAL ASSISTANCE TO BE RENDERED BY INTEGRA, ITS ASSIGNEES OR SERVICE AGENTS, FOR PURPOSES OF THE PARTICULAR TREATMENT THAT CUSTOMER INTENDS TO PERFORM FOR THIRD PARTIES. Moreover, Integra disclaims any liability with respect to the efficacy of the Equipment or of said technical assistance or with respect to any claims by third parties related to any treatment performed by Customer.

5.3. THIS INTEGRA LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON INTEGRA'S PART OR THE PART OF ITS DISTRIBUTORS, AND INTEGRA NEITHER ASSUMES NOR AUTHORIZES ANY REPRESENTATIVE OR OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH INTEGRA'S PRODUCTS.

INTEGRA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR APPLICATION OR WARRANTY OF QUALITY AS WELL AS ANY EXPRESS OR IMPLIED WARRANTY TO PATIENTS. No warranty or guarantee may be created by any act or statement nor may this Standard Warranty be modified in any way, except as a result of a writing signed by an officer of INTEGRA. These limitations on the creation or modification of this warranty may not be waived or modified orally or by any conduct.

5.4 IN NO EVENT SHALL INTEGRA AUTHORIZED DISTRIBUTORS BE LIABLE TOWARDS CUSTOMER FOR ANY INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES IN CONNECTION WITH THE ACQUISITION OR USE OF ANY INTEGRA PRODUCT. Further, this warranty shall not apply to, and INTEGRA authorized distributors shall not be responsible towards Customer for, any loss, arising in connection with the purchase or use of any INTEGRA product that has been repaired by anyone other than an authorized INTEGRA service representative or altered in any way so as to affect its stability or reliability, or which has been subject to misuse, negligence or accident, or which has been used otherwise than in accordance with the instructions furnished by INTEGRA. THIS INTEGRA DISTRIBUTOR LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES TOWARDS CUSTOMER, EXPRESS OR IMPLIED, AND OF ALL OTHER OBLIGATIONS OR LIABILITIES TOWARDS CUSTOMER ON INTEGRA AUTHORIZED DISTRIBUTOR'S PART.

INTEGRA AUTHORISED DISTRIBUTORS DISCLAIM ALL OTHER WARRANTIES TOWARDS CUSTOMER, EXPRESS OR IMPLIED INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR APPLICATION OR WARRANTY OF QUALITY AS WELL AS ANY EXPRESS OR IMPLIED WARRANTY TO PATIENTS OR OTHER THIRD PARTIES.

5.5 Force Majeure. Notwithstanding anything to the contrary herein contained, if the performance of the Warranty by Integra, Integra authorized distributors, or Customer or any obligation of Integra, Integra authorized distributors, or Customer hereunder is prevented, restricted or interfered with by reason of fire, explosion, act of God, labor disputes or accidents affecting performance under the Warranty, or war, mobilization, civil commotions, blockade or embargo, or any future law, regulation, ordinance or requirement of any government or regulatory agency or any other act, whatsoever similar to those above enumerated, or any other circumstance being beyond the reasonable control of Integra, Integra authorized distributors, or Customer, then and in that event Integra, Integra authorized distributors, or Customer, as the case may be, shall promptly notify the other party hereto of the difficulties resulting therefrom, and any of the foregoing events shall excuse any performance required under the Warranty.

cusa NXT™

Ultrasonic Tissue Ablation System

The CUSA NXT™ System is the newest member of the CUSA family. The CUSA NXT system features revolutionary NXT Digital Architecture™ and a touch-screen user interface.

The CUSA NXT System supports the current selection of the CUSA Selector® handpieces.

The CUSA NXT System is a compact and portable unit. The Console can be connected to the wall suction in the operating room, or used with the CUSA NXT Service Module for optimized aspiration performance.

The CUSA NXT System is designed for use in suites with intraoperative magnetic resonance imaging equipment. The Rapid Restore™ feature returns the CUSA NXT to its most recent system settings when powered on after imaging.

Catalog Number	Description	Quantity
CUSANXT	CUSA NXT Console, Footswitch, Power Cord, Operator's Manual	EACH 1
CUSANXT1	CUSA NXT Service Module	EACH 1

cusa selector®

Ultrasonic Surgical Aspirator System

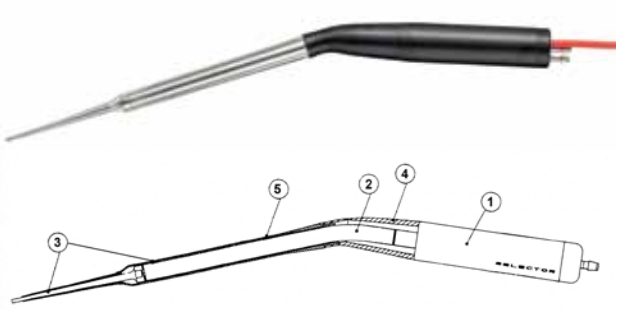
The CUSA Selector® Console is the power source for the CUSA Selector handpieces and provides aspiration and irrigation control. The latter is via an integral peristaltic pump, able to deliver a range of flow rates from 1-50 ml/min.

The CUSA Selector Service Module provides a source of aspiration and waste collection for the CUSA Selector Console. Alternatively, the CUSA Selector Console can be connected directly to the suction/ waste source within the operating room.

An MRI safe version of the CUSA Selector Console is available for use in intraoperative MRI suites.

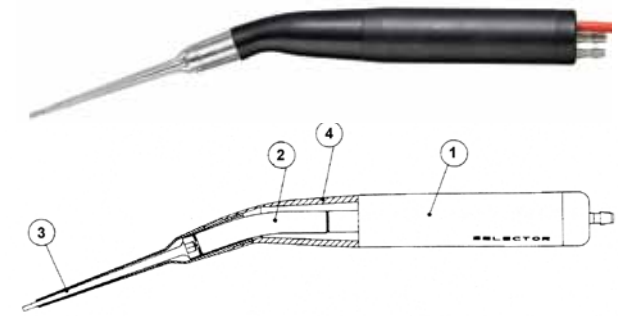
Catalog Number	Description	Quantity
1530000M3	CUSA Selector Console, Footswitch, Power Cord, Operator's Manual	EACH 1
1532000M3	CUSA Selector MRI Console, Footswitch, Power Cord, Operator's Manual	EACH 1

cusa selector® NEURO HANDPIECES



1-Transducer assembly, **2**-Angled extension, **3**-24 kHz Neuro Long Tip Set (single use) sterile, **4**-Angled shroud, **5**-Extension flue

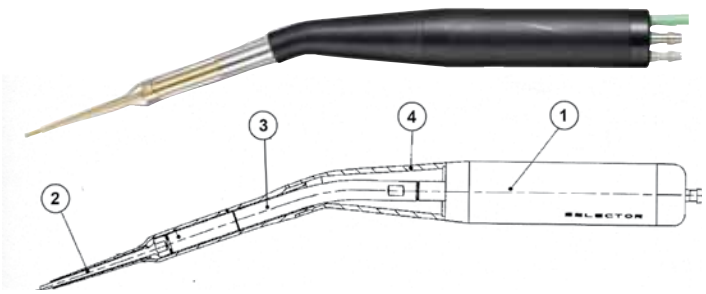
Catalog Number	Sterile	Description	Quantity
1523000M5	NO	24 kHz Neuro Long Handpiece	EACH 1
1523225	YES	24 kHz Neuro Long Sterile Tip Set And Flue	BOX 5
1523067	NO	24 kHz Neuro Non-Sterile Tip Set And Flue	BOX 5
1523049	NO	24 kHz Neuro Long Angled Shroud	EACH 1
1523045	NO	24 kHz Neuro Long Clear Extension Flue	BOX 5
1523052	NO	24 kHz Neuro Long Angled Extension	EACH 1



1-Transducer assembly, **2**-Angled extension, **3**-24 kHz Neuro Short Tip Set (single use) sterile, **4**-Angled shroud

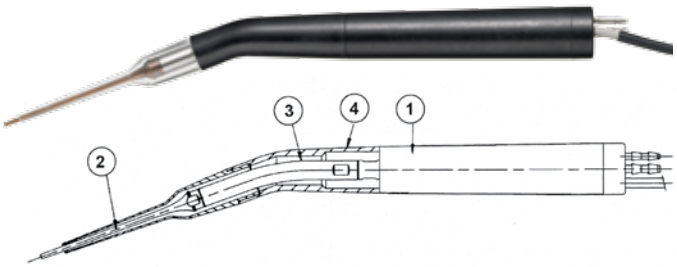
Catalog Number	Sterile	Description	Quantity
1523000M7	NO	24 kHz Neuro Short Handpiece	EACH 1
1528020M7	NO	24 kHz Neuro Short Handpiece For MRI	EACH 1
1523215	YES	24 kHz Neuro Short Sterile Tip Set and Flue	BOX 5
1523216	YES	24 kHz Neuro Short Sterile Selector SaberTip Set and Flue	BOX 5
1523067	NO	24 kHz Neuro Non-Sterile Tip Set and Flue	BOX 5
1523049	NO	24 kHz Neuro Short Angled Shroud	EACH 1
1523053	NO	24 kHz Neuro Short Angled Extension	EACH 1

CUSA selector® **NEURO HANDPIECES**



1-Transducer assembly, **2**-35 kHz Neuro Tip Set (single use) sterile, **3**-Angled extension, **4**-Angled shroud

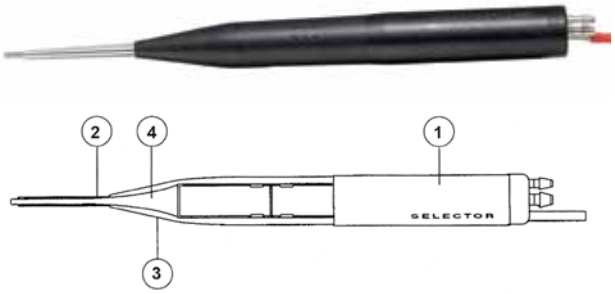
Catalog Number	Sterile	Description	Quantity
1523000M9	NO	35 kHz Neuro Handpiece	EACH 1
1528020M9	NO	35 kHz Neuro Handpiece For MRI	EACH 1
1523235	YES	35 kHz Neuro Sterile Tip Set and Flue	BOX 5
1523078	NO	35 kHz Neuro Non-Sterile Tip Set and Flue	BOX 5
1523060	NO	35 kHz Neuro Angled Shroud	EACH 1
1523058	NO	35 kHz Neuro Angled Extension	EACH 1



1-Transducer assembly, **2**-24 kHz Micro Tip Set (single use) sterile, **3**-Angled extension shroud, **4**-Angled shroud

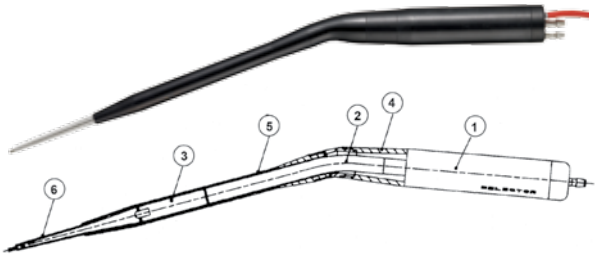
Catalog Number	Sterile	Description	Quantity
1529000M2	NO	24 kHz Micro Handpiece	EACH 1
1532020M2	NO	24 kHz Micro Handpiece For MRI	EACH 1
1529165	YES	24 kHz Micro Sterile Tip Set and Flue	BOX 5
1529066	NO	24 kHz Micro Non-Sterile Tip Set and Flue	BOX 5
1529024	NO	24 kHz Micro Angled Shroud	EACH 1
1529043	NO	24 kHz Micro Angled Extension	EACH 1

cusa selector® STANDARD HANDPIECES



1-Transducer assembly, **2**-Flue, disposable, **3**-Standard shroud, **4**-Standard tip

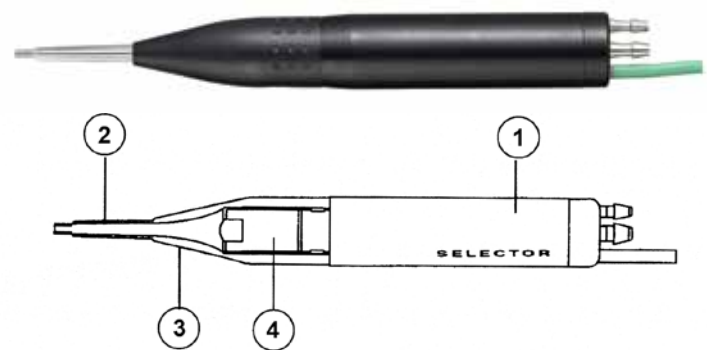
Catalog Number	Sterile	Description	Quantity
1523000M1	NO	24 kHz Straight Handpiece	EACH 1
1523013	NO	24 kHz Non-Sterile Standard Tip	EACH 1
1523042	NO	24 kHz Flue Pack	BOX 20
1523017	NO	24 kHz Straight Shroud	EACH 1



1-Transducer assembly, **2**-Angled extension, **3**-Standard tip, **4**-Angled shroud, **5**-Extension shroud, **6**-Flue, disposable

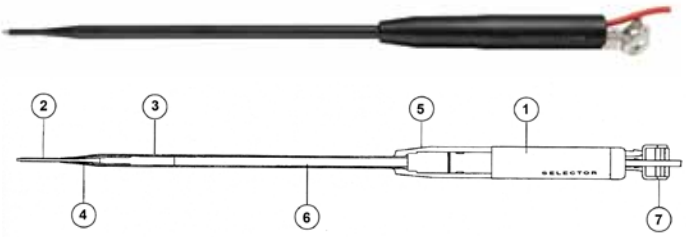
Catalog Number	Sterile	Description	Quantity
1523000M2	NO	24 kHz Angled Handpiece	EACH 1
1523015	NO	24 kHz Non-Sterile Standard Tip	EACH 1
1523042	NO	24 kHz Flue Pack	BOX 20
1523049	NO	24 kHz Angled Shroud	EACH 1
1523033	NO	24 kHz Angled Extension	EACH 1
1523035	NO	24 kHz Extension Shroud	EACH 1

CUSA selector® **STANDARD HANDPIECES**



1-Transducer assembly, **2**-Flue, disposable, **3**-Standard shroud, **4**-Standard tip

Catalog Number	Sterile	Description	Quantity
1523000M3	NO	35 kHz Straight Handpiece	EACH 1
1523014	NO	35 kHz Non-Sterile Standard Tip	EACH 1
1523043	NO	35 kHz Straight Clear Flue Pack	BOX 20
1523018	NO	35 kHz Straight Shroud	EACH 1



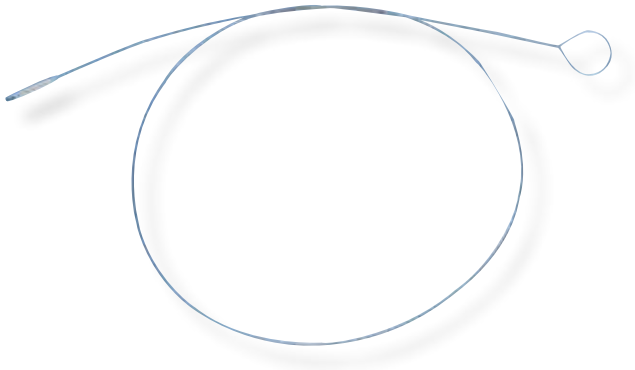
1-Transducer assembly, **2**-Flue, reusable, **3**-Shroud extension, **4**-Tip,
5-Shroud, **6**-Step amplifier, **7**-Tubing clamp

Catalog Number	Sterile	Description	Quantity
1523000M6	NO	24 kHz Laparoscopic Handpiece	EACH 1
1523029	NO	24 kHz Non-Sterile Laparoscopic Tip	EACH 1
1523032	NO	24 kHz Laparoscopic Flue Pack	BOX 10
1523028	NO	Step Amplifier	EACH 1
1523030	NO	24 kHz Laparoscopic Shroud	EACH 1
1523031	NO	24 kHz Laparoscopic Shroud Extension	EACH 1

CUSA selector® and **CUSA** NXT™ **Replacement Parts**

Catalog Number	Sterile	Description	Quantity
1523072M3	NO	Wrench Set Neuro Handpiece	EACH 1
1529056	NO	Wrench Set Micro Handpiece	EACH 1
1523072M1	NO	Wrench Set Standard Handpiece	EACH 1
1523072M2	NO	Wrench Set Laparoscopic Handpiece	EACH 1
NXT10001	NO	CUSA NXT Footswitch	EACH 1
1520000M1	NO	CUSA Selector Footswitch	EACH 1
1528030	NO	CUSA Selector MRI Footswitch	EACH 1
NXT90001		CUSA NXT Operator's Manual	EACH 1
OM1530000M3		CUSA Selector Operator's Manual	EACH 1
OM1532000M1		CUSA Selector MRI Operator's Manual	EACH 1

CUSA selector® and **CUSA** NXT™ **Accessories**



Catalog Number	Sterile	Description	Quantity
1517079	YES	CUSA Selector Sterile Tubing Kit, Single Use	BOX 10
1529036	YES	CUSA Selector Sterile Micro Tubing Kit Extension For Use With Microsurgical Handpiece, Single Use	BOX 10
1532024	YES	CUSA Selector Sterile MRI Tubing Kit Extension For Use With MRI Handpieces, Single Use	BOX 10
NXT00005	NO	CUSA NXT Contamination Guard	BOX 2
07289	NO	CUSA Selector Handpiece Sterilization Tray	EACH 1
07296	NO	CUSA Selector Laparoscopic Handpiece Sterilization Tray	EACH 1
1523101	NO	CUSA Selector Handpiece Aspiration Port Cleaning Brush	EACH 1

cusa excel+

Ultrasonic Surgical Aspirator

Ultrasonic Aspiration

Pricing:

Prices stated in specific written quotations are firm for thirty days from the date given, and are otherwise subject to change without prior notice. Pricing terms stated on written agreements are governed by such agreements.

Minimum Order Requirements:
Minimum order requirement is $250 (a $20 handling charge will be added to any order under $250).
For partial case orders, contact the Customer Service Department for a quotation.

Ordering Procedure:
A written purchase order on the customer's form may be requested for purchases of Integra LifeSciences products.

Acceptance of Orders:
Orders are accepted upon approval by Integra Customer Service.

Return Policy:

- Authorization from customer service must be obtained prior to returning product.
- Sterile product must be returned in unopened, undamaged cartons, packed to prevent damage.
- Non-sterile product must be returned in unused saleable condition in original package.
- Custom or special order products will not be accepted for credit.
- Credit will be issued for goods returned prior to ninety days from ship date with a 20% restocking charge. This assumes that the product returned is not damaged and can be verified to have not been used or opened.

Customer Service Contact Information
311 Enterprise Drive
Plainsboro, New Jersey 08536 USA

USA and Canada
800-997-4868
609-936-5400 (outside the USA)
888-980-7742 (Fax)
custsvcNJ@integra-ls.com

USA Technical Support
888-772-7378
cusa.service@integra-ls.com

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Integra Warranty for CUSA EXcel ® and CUSA EXcel+ ® Ultrasonic Surgical Aspiration System

1. Warranty.

INTEGRA LIFESCIENCES CORPORATION and its wholly owned subsidiaries ("Integra") warrant to Integra authorized distributors and the original purchaser only that each new Integra Cusa EXcel® Ultrasonic Surgical Aspirator (hereinafter the Equipment or the product) is free from manufacturing defects in material and workmanship under normal use and service for a period of one (1) year (except as otherwise expressly provided as to accessory items) from the date of invoice by Integra (or its authorized distributor) to the original purchaser, but in no event beyond the expiration date stated on any product labeling (hereinafter the Warranty Period). For purposes of products sold by Integra through an authorized distributor of Integra, "original purchaser" shall include the purchaser of Integra products to whom the distributor first sells the product. The original purchaser is hereinafter referred to as Customer.

1.1. Coverage. During the Warranty Period, Integra shall provide free-of-charge service and maintenance consistent with the provisions of Section 3 of this Warranty, so that the Equipment conforms to the specifications defined in the Cusa EXcel® Ultrasonic Surgical Aspirator Operator's Manual, as such Operator's Manual may be modified by Integra from time to time (the "Specifications").

1.2. Exclusions. The Warranty shall not apply in any manner to service or maintenance of the Equipment, or to replacement of its parts, with respect to:

(i) use of Equipment with any tips, flues, and manifold tubing sets and accessories other than those manufactured by Integra LifeSciences;

(ii) defects arising out of materials or parts provided, modified or designed by anyone other than an authorized Integra service agent (the Integra "Service Agent");

(iii) defects emanating from improper or negligent installation, storage or use of the Equipment or any component thereof, including but not limited to operating the Equipment not in accordance with instructions provided in the Operator's Manual;

(iv) defects arising from improper or negligent cleaning or sterilization methods or improper maintenance of the Equipment;

(v) defects resulting from repairs or service of the Equipment provided other than by Integra or its authorized representatives;

(vi) defects arising from accidental damage to the Equipment, acts of God, electrical power damage, equipment malfunction, unusual stress, unreasonable operating procedures or abnormal or extreme operating conditions; and

(vii) normal wear and tear.

2. Service, Repairs and Replacement.

2.1. Service and Repairs. All service and repairs covered by this Warranty may be referred to hereinafter as "in-warranty repairs," and all service and repairs not covered by this Warranty may be referred to as "out-of-warranty repairs." Integra's sole obligation for in-warranty repairs shall be to make all necessary adjustments and repairs in accordance with this Warranty. Integra shall charge Customer at Integra standard rates for any out-of-warranty repair performed by Integra.

2.2. Equipment Replacement. The defective Equipment or part thereof that is replaced in accordance with the Warranty shall be the property of Integra. Integra reserves the right to fill spare parts requests using refurbished sub-assemblies provided that such sub-assemblies are functionally equivalent to new sub-assemblies and carry the same warranty as the replaced sub-assemblies.

2.3. Notification. In order to avail itself of its rights under the Warranty, Customer or Integra authorized distributors, must immediately notify Integra of any defects and provide Integra every opportunity to inspect and remedy defects.

3. Repair Parts and Services.

3.1. Included under the Warranty are the following services:

3.1.1. Consoles. Integra or its distributor, when authorized for this purpose, shall, if possible, perform on-site repair of consoles and where not possible or otherwise decided at the sole discretion of Integra, Integra or its distributor shall arrange and pay to ship the affected Equipment to the designated repair facility. Integra or its distributor authorized for this purpose shall repair the affected Equipment or replace a console by a new or refurbished console (all of which at the discretion of Integra), that shall carry the same remaining warranty as the original equipment.

3.1.2. Handpieces. Integra shall repair or replace any defective handpieces covered by the Warranty by a new or refurbished handpiece (all of which at the discretion of Integra) that shall carry the same remaining warranty as the original equipment (an "Exchange Handpiece").

3.2. Modifications to Covered Equipment. From time to time, at its sole discretion, Integra may propose modifications to the covered Equipment and to the Specifications for the Equipment. Subject to Customer's approval and at its sole expense, the Customer may request Integra to make such modifications to the covered Equipment and to the Specifications. Integra shall make such modifications for the Customer, which modifications may include the installation of new parts in the Equipment, at a price equal to the then-current list price for such modifications, as such list price is established by Integra in its sole discretion.

4. Quality Control.

4.1. Customer shall maintain reasonable standards of quality control, operations, procedures, safety testing and inspection of Equipment to ensure that unnecessary service or maintenance is not required hereunder.

4.2. Customer shall provide a technical counterpart to Integra's Service Agent for assistance in Integra's telephonic diagnosis of the malfunction with the Equipment. Customer shall reasonably accept Integra's determination whether a repair or service is an in-warranty repair or an out-of-warranty repair.

5. Limitation of Liability.

5.1. INTEGRA's sole responsibility under the warranties described in Section 1 shall be repair or replacement, at INTEGRA's sole discretion at INTEGRA's expense, subject to the terms of this warranty and applicable agreements. THE WARRANTIES DESCRIBED IN SECTION 1 HEREOF ARE EXCLUSIVE AND ARE GIVEN AND ACCEPTED IN LIEU OF ALL OTHER WARRANTIES OF INTEGRA OR ITS SERVICE AGENTS WITH RESPECT TO THE QUALITY, PERFORMANCE AND OPERATION OF THE EQUIPMENT, WRITTEN OR ORAL, EXPRESS OR IMPLIED, AND WHETHER OR NOT ATTRIBUTABLE TO SERVICE PERFORMED PURSUANT TO THE WARRANTY. ALL OTHER REPRESENTATIONS OR WARRANTIES OF INTEGRA OR ITS REPRESENTATIVES, EXPRESS OR IMPLIED, WITH RESPECT TO THE EQUIPMENT OR THE SERVICES, DIAGNOSIS, ADVICE, ASSISTANCE OR PARTS TO BE TENDERED PURSUANT TO THE WARRANTY, INCLUDING, WITHOUT LIMITATION, THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXPRESSLY DISCLAIMED. IN NO EVENT SHALL INTEGRA, ITS ASSIGNEES OR SERVICE AGENTS BE LIABLE FOR LOSS OF USE, REVENUE OR PROFIT OR ANY OTHER INDIRECT, INCIDENTAL, EXEMPLARY, CONSEQUENTIAL, SPECIAL OR OTHER DAMAGES, WHETHER ARISING IN CONTRACT OR IN TORT, BY VIRTUE OF THE WARRANTY OR ANY PERFORMANCE OR BREACH BY INTEGRA, ITS ASSIGNEES OR SERVICE AGENTS HEREUNDER OR PURSUANT HERETO.

5.2. Customer agrees that, notwithstanding the technical assistance provided pursuant to the Warranty by Integra or its representatives, Customer shall be fully and solely responsible for all treatments performed or attempted with the Equipment. INTEGRA MAKES NO REPRESENTATION OR WARRANTY AS TO THE EFFICACY OF THE EQUIPMENT OR OF THE TECHNICAL ASSISTANCE TO BE RENDERED BY INTEGRA, ITS ASSIGNEES OR SERVICE AGENTS, FOR PURPOSES OF THE PARTICULAR TREATMENT THAT CUSTOMER INTENDS TO PERFORM FOR THIRD PARTIES. Moreover, Integra disclaims any liability with respect to the efficacy of the Equipment or of said technical assistance or with respect to any claims by third parties related to any treatment performed by Customer.

5.3. THIS INTEGRA LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON INTEGRA'S PART OR THE PART OF ITS DISTRIBUTORS, AND INTEGRA NEITHER ASSUMES NOR AUTHORIZES ANY REPRESENTATIVE OR OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH INTEGRA'S PRODUCTS.

INTEGRA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR APPLICATION OR WARRANTY OF QUALITY AS WELL AS ANY EXPRESS OR IMPLIED WARRANTY TO PATIENTS. No warranty or guarantee may be created by any act or statement nor may this Standard Warranty be modified in any way, except as a result of a writing signed by an officer of INTEGRA. These limitations on the creation or modification of this warranty may not be waived or modified orally or by any conduct.

5.4 IN NO EVENT SHALL INTEGRA AUTHORIZED DISTRIBUTORS BE LIABLE TOWARDS CUSTOMER FOR ANY INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES IN CONNECTION WITH THE ACQUISITION OR USE OF ANY INTEGRA PRODUCT. Further, this warranty shall not apply to, and INTEGRA authorized distributors shall not be responsible towards Customer for, any loss, arising in connection with the purchase or use of any INTEGRA product that has been repaired by anyone other than an authorized INTEGRA service representative or altered in any way so as to affect its stability or reliability, or which has been subject to misuse, negligence or accident, or which has been used otherwise than in accordance with the instructions furnished by INTEGRA. THIS INTEGRA DISTRIBUTOR LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES TOWARDS CUSTOMER, EXPRESS OR IMPLIED, AND OF ALL OTHER OBLIGATIONS OR LIABILITIES TOWARDS CUSTOMER ON INTEGRA AUTHORIZED DISTRIBUTOR'S PART.

INTEGRA AUTHORISED DISTRIBUTORS DISCLAIM ALL OTHER WARRANTIES TOWARDS CUSTOMER, EXPRESS OR IMPLIED INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR APPLICATION OR WARRANTY OF QUALITY AS WELL AS ANY EXPRESS OR IMPLIED WARRANTY TO PATIENTS OR OTHER THIRD PARTIES.

5.5 Force Majeure. Notwithstanding anything to the contrary herein contained, if the performance of the Warranty by Integra, Integra authorized distributors, or Customer or any obligation of Integra, Integra authorized distributors, or Customer hereunder is prevented, restricted or interfered with by reason of fire, explosion, act of God, labor disputes or accidents affecting performance under the Warranty, or war, mobilization, civil commotions, blockade or embargo, or any future law, regulation, ordinance or requirement of any government or regulatory agency or any other act, whatsoever similar to those above enumerated, or any other circumstance being beyond the reasonable control of Integra, Integra authorized distributors, or Customer, then and in that event Integra, Integra authorized distributors, or Customer, as the case may be, shall promptly notify the other party hereto of the difficulties resulting therefrom, and any of the foregoing events shall excuse any performance required under the Warranty.

cusa excel+

Ultrasonic Tissue Ablation System

The new CUSA EXcel®+ system builds upon the market-leading features of the CUSA EXcel® with the addition of several performance enhancing elements. The new CUSA EXcel+ system supports a broad selection of handpieces and surgical tips, allowing the surgeon to select the most appropriate combination based on the surgical procedure. The user-friendly console, color coded tubing and tubing paths enable easy system set-up. The CUSA EXcel+ system offers a simple user interface, the widest variety of handpieces and tip combinations and advanced features that make it the most powerful ultrasonic tissue ablation system available.

Catalog Number	Description	Quantity
	Standard System:	
CUSAEXCEL2	CUSA EXcel+ Console	EACH 1
C2600	23 kHz Straight With Nosecone Handpiece	EACH 1
C2602	36 kHz Straight With Nosecone Handpiece	EACH 1
C2623	23 kHz Sterilization Case	EACH 1
C2636	36 kHz Sterilization Case	EACH 1
C5623	23 kHz Sterilizable Torque Base	EACH 1
C5636	36 kHz Sterilizable Torque Base	EACH 1
C5600	Tip Torquing Set	EACH 1
C5601	23 kHz Sterile Torque Wrench For Use With C5623 Torque Base	BOX 6
C5602	36 kHz Sterile Torque Wrench For Use With C5636 Torque Base	BOX 6
C3600	23kHz Manifold Tubing	BOX 6
C3601	36kHz Manifold Tubing	BOX 6
C4601S	23kHz Standard Tip and Flue	BOX 4
C4614S	36kHz Curved Extended Standard Tip and Flue	BOX 4

CUSA EXcel® **23 kHz Tips**

MicroTip™

C4600S

Catalog Number Single Use	Sterile	Description	Specifications	Quantity
C4600S	YES	MicroTip™ and Flue	Tip Length: 9.22cm (3.63in.) Tip ID: 1.57mm (0.06in.)	BOX 4

Standard Tip Series

C4601S

C4602S

C4603S

Catalog Number Single Use	Sterile	Description	Specifications	Quantity
C4601S	YES	Standard Tip and Flue	Tip Length: 7.98cm (3.14in.) Tip ID: 1.98mm (0.08in.)	BOX 4
C4602S	YES	Straight Extended Standard Tip and Flue	Tip Length: 18.38cm (7.24in.) Tip ID: 1.98mm (0.08in.)	BOX 4
C4603S	YES	Curved Extended Standard Tip and Flue	Tip Length: 18.38cm (7.24in.) Tip ID: 1.98mm (0.08in.)	BOX 4

MacroTip™

C4605S

Catalog Number Single Use	Sterile	Description	Specifications	Quantity
C4605S	YES	Macrotip™ and Flue	Tip Length: 7.95cm (3.13in.) Tip ID: 2.64mm (0.10in.)	BOX 4

Laparoscopic Tip

C4604ELT

Catalog Number Single Use	Sterile	Description	Specifications	Quantity
C4604ELT	NO	Laparoscopic Extended Life Tip (ELT) (Reusable) 1 Tip With 6 Flues Per Pack	Tip Length: 30.14cm (11.87in.) Tip ID: 1.98mm (0.08in.)	BOX 4

CUSA EXcel® 36 kHz Tips

PrecisionTip™ Series

C4606S

C4607S

C4608S

Catalog Number	Sterile	Description	Specifications	Quantity
Single Use				
C4606S	YES	PrecisionTip™ and Flue	Tip Length: 5.64cm (2.22in.) Tip ID: 1.14mm (0.05in.)	BOX 4
C4607S	YES	Straight Extended PrecisionTip™ and Flue	Tip Length: 12.51cm (4.92in.)	BOX 4
C4608S	YES	Curved Extended PrecisionTip™ and Flue	Tip Length: 12.51cm (4.92in.) Tip ID: 1.14mm (0.05in.)	BOX 4

MicroTip™ Series

C4609S

C4610S

C4611S

Catalog Number	Sterile	Description	Specifications	Quantity
Single Use				
C4609S	YES	MicroTip™ and Flue	Tip Length: 5.28cm (2.08in.) Tip ID: 1.57mm (0.06in.)	BOX 4
C4610S	YES	Straight Extended MicroTip™ and Flue	Tip Length: 12.15cm (4.78in.) Tip ID: 1.57mm (0.06in.)	BOX 4
C4611S	YES	Curved Extended MicroTip™ and Flue	Tip Length: 12.15cm (4.78in.) Tip ID: 1.57mm (0.06in.)	BOX 4

CUSA EXcel® 36 kHz Tips

Standard Tip Series

C4612S

C4613S

C4614S

Catalog Number	Sterile	Description	Specifications	Quantity
Single Use				
C4612S	YES	Standard Tip and Flue	Tip Length: 4.57cm (1.8in.) Tip ID: 1.98mm (0.08in.)	BOX 4
C4613S	YES	Straight Extended Standard Tip and Flue	Tip Length: 11.44cm (4.5in.) Tip ID: 1.98mm (0.08in.)	BOX 4
C4614S	YES	Curved Extended Standard Tip and Flue	Tip Length: 11.44cm (4.5in.) Tip ID: 1.98mm (0.08in.)	BOX 4

MicroTip Plus™

C4615S

Catalog Number	Sterile	Description	Specifications	Quantity
Single Use				
C4615S	YES	EXcel Extended MicroTip Plus™	Tip Length: 19.27cm (7.59in.) Tip ID: .57mm (0.06 in.)	BOX 4

CUSA SaberTip™

C4616S

Catalog Number	Sterile	Description	Specifications	Quantity
Single Use				
C4616S	YES	CUSA SaberTip™	Tip Length: 11.49cm (4.53in.) Tip ID: 1.14mm (0.05in.)	BOX 4

CUSA ShearTip™

C4617S

Catalog Number	Sterile	Description	Specifications	Quantity
Single Use				
C4617S	YES	CUSA ShearTip™	Tip Length: 11.79cm (4.64in.) Tip ID: 1.58mm (0.06in.)	BOX 4

CUSA EXcel® **Handpieces**

C2600

C2601

C2602

Catalog Number	Description	Quantity
C2600	23 kHz Straight Handpiece	EACH 1
C2601	23 kHz Angled Handpiece	EACH 1
C2602	36 kHz Straight Handpiece	EACH 1

CUSA EXcel® **Electrosurgery Module – CEM™**

C6623

C6636

Catalog Number	Sterile	Description	Quantity
C6623*	YES	23 kHz Handpiece CEM Nosecone, Single Use	BOX 6
C6636*	YES	36 kHz Handpiece CEM Nosecone, Single Use	BOX 6

* The patented CEM™ nosecone combined with FORCE FX™ generator adds electrosurgery to the CUSA EXcel. FORCE FX is a trademark of Valleylab.

CUSA EXcel® **Replacement Parts**

150000090

C380761000

Catalog Number	Description	Quantity
150000090	Footswitch	EACH 1
C380761000	23 kHz Re-Usable Nosecone	EACH 1
C223600215	36 kHz Re-Usable Nosecone	EACH 1

CUSA EXcel® **Accessories**

Contamination Guard

36 kHz Sterilization Case

Manifold Tubing

Tip Torquing Set

36kHz Sterile Torque Wrench

36 kHz Sterilizable Torque Base

Specimen Trap

Catalog Number	Sterile	Description	Quantity
C0005	NO	Contamination Guard	BOX 2
C0023	NO	23kHz Handpiece Extended Life Tip Maintenance Kit	BOX 35
C2623	NO	23 kHz Sterilization Case	EACH 1
C2636	NO	36 kHz Sterilization Case	EACH 1
C3600	YES	23 kHz Manifold Tubing	BOX 6
C3601	YES	36 kHz Manifold Tubing	BOX 6
C5600	NO	Tip Torquing Set	EACH 1
C5601	YES	23 kHz Sterile Torque Wrench For Use With C5623 Torque Base	BOX 6
C5602	YES	36kHz Sterile Torque Wrench For Use With C5636 Torque Base	BOX 6
C5623	NO	23 kHz Sterilizable Torque Base	EACH 1
C5636	NO	36 kHz Sterilizable Torque Base	EACH 1
CV260438000	NO	Specimen Trap	BOX 12

INTEGRA NPH™

OSV II®

OSV II Low Pro™

CSF Management

Pricing:
Prices stated in specific written quotations are firm for thirty days from the date given, and are otherwise subject to change without prior notice. Pricing terms stated on written agreements are governed by such agreements.

Minimum Order Requirements:
Minimum order requirement is $100 (a $10 handling charge will be added to any order under $100). For partial case orders, contact the Customer Service Department for quotation.

Shipments:
F.O.B. Integra NeuroSciences point of shipment within the continental United States. Shipping costs (including freight and insurance), shall be prepaid by Integra and invoiced to customers.

Ordering Procedure:
A written purchase order on customer's form may be requested for purchases of Integra NeuroSciences products.

Acceptance of Orders:
Orders are accepted upon approval by Integra in Plainsboro, New Jersey.

Return Policy:

- Authorization, from customer service, must be obtained prior to returning product.
- Sterile product must be returned in unopened, undamaged cartons, packed to prevent damage.
- Non-sterile product must be returned in unused saleable condition in original package.
- Custom or special order products will not be accepted for credit.
- Credit will be issued for goods returned prior to ninety days from ship date with a 20% restocking charge. This assumes that the product returned is not damaged and can be verified to have not been used or opened.

Customer Service Contact Information
311 Enterprise Drive
Plainsboro, New Jersey 08536 USA

USA and Canada
800-997-4868
609-936-5400 (outside the USA)
888-980-7742 (Fax)

England
+44 (0) 1264 345 700
+44 (0) 1264 332 113

France
+33 (0) 493 95 56 00
+33 (0) 493 95 56 60 (Fax)

Germany
0800 10 10 755
06995 775 477 (Fax)

Integra Limited Warranty

INTEGRA LIFESCIENCES CORPORATION ("INTEGRA") warrants to the original purchaser only that each new INTEGRA product is free from manufacturing defects in material and workmanship under normal use and service for a period of one (1) year (except as otherwise expressly provided as to accessory items) from the date of delivery by INTEGRA to the first purchaser, but in no event beyond the expiration date stated on any product labeling.

- Surgical instruments are guaranteed to be free from defects in material and workmanship when maintained and cleaned properly and used normally for their intended purpose.
- Any covered product that is placed by INTEGRA under a lease, rental or installment purchase agreement and that requires repair service during the term of such placement agreement shall be repaired in accordance with the terms of such agreement.

If any covered defect occurs during the warranty period or term of such placement agreement, the purchaser should communicate directly with INTEGRA's home office. If purchaser seeks to invoke the terms of this warranty, the product must be returned to INTEGRA at its home office. The defective product should be returned promptly, properly packaged and postage prepaid. Loss or damage in return shipment to INTEGRA shall be at CUSTOMER's risk. INTEGRA's sole responsibility under this warranty shall be repair or replacement, at INTEGRA's sole discretion at INTEGRA's expense, subject to the terms of this warranty and applicable agreements.

IN NO EVENT SHALL INTEGRA BE LIABLE FOR ANY INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES IN CONNECTION WITH THE ACQUISITION OR USE OF ANY INTEGRA PRODUCT. Further, this warranty shall not apply to, and INTEGRA shall not be responsible for, any loss arising in connection with the purchase or use of any INTEGRA product that has been repaired by anyone other than an authorized INTEGRA service representative or altered in any way so as, in INTEGRA's judgment, to affect its stability or reliability, or which has been subject to misuse, negligence or accident, or which has been used otherwise than in accordance with the instructions furnished by INTEGRA. THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON INTEGRA'S PART, AND INTEGRA NEITHER ASSUMES NOR AUTHORIZES ANY REPRESENTATIVE OR OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH INTEGRA'S PRODUCTS.

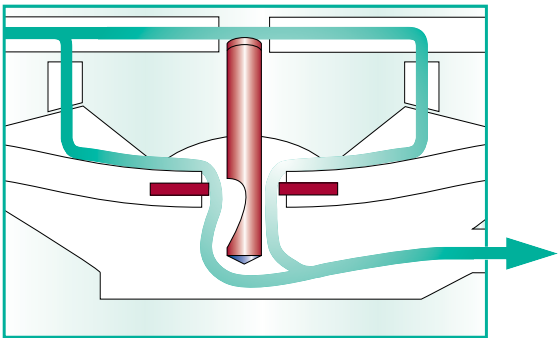
INTEGRA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTY ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, USAGE OR TRADE OR OTHERWISE, OR APPLICATION OR WARRANTY OF QUALITY AS WELL AS ANY EXPRESS OR IMPLIED WARRANTY TO PATIENTS. No warranty or guarantee may be created by any act or statement nor may this Standard Warranty be modified in any way, except as a result of a writing signed by an officer of INTEGRA. These limitations on the creation or modification of this warranty may not be waived or modified orally or by any conduct.

Integra NPH™ Low Flow Valve

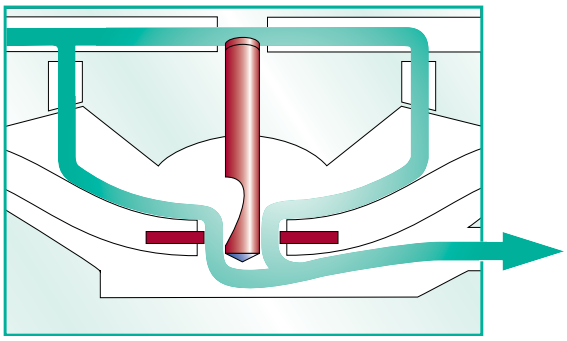
Advantages Over Programmable Valves

The Integra NPH™ Low Flow Valve delivers position-independent performance, without the need for programming or frequent adjustments. The Integra NPH Low Flow valve offers safety advantages over programmable valves, which can readjust themselves and alter flow rates in the presence of magnetic fields, including diagnostic MRI.

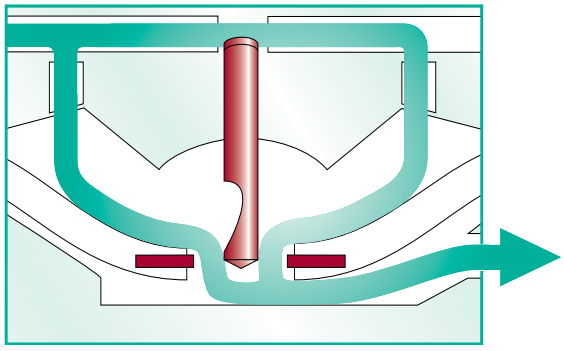
The Integra NPH Low Flow Valve is a variable resistance valve that maintains drainage at a constant rate, between 8 and 17 ml/hr, within the physiological range of ICP. This valve should be used for patients that require a lower drainage rate.



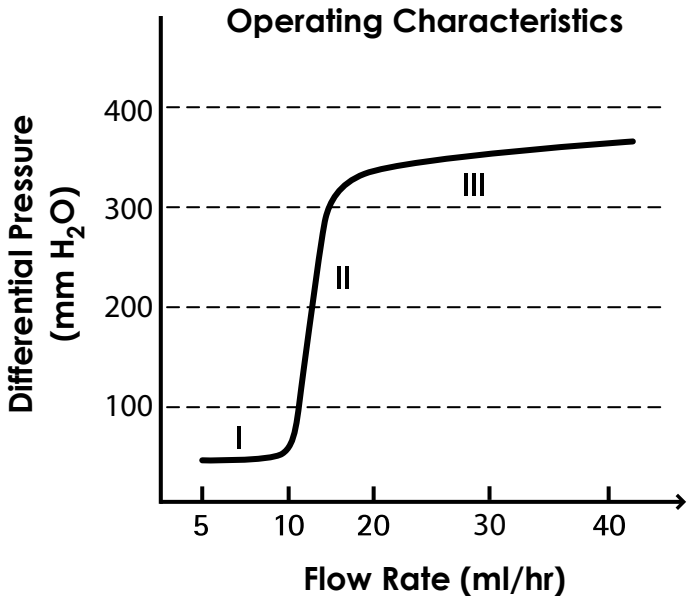
Stage I: 30-120 mm H_20
Differential Pressure (DP) valve.
Functions efficiently at low pressure to minimize under-drainage complications.



Stage II: 120-300 mm H_20
Flow Regulating valve.
Maintains a close balance between CSF flow and production rate.



Stage III: Above 300 mm H_20
Safety valve.
Immediately restores normal ICP during unexpected pressure elevation. Rarely needed.



Flow rate is regulated between 8-17ml/hr in Stage II.

Integra NPH™ Low Flow Valve, Three Piece System

- Valve with integral polysulfone connectors
- 110cm open-ended, barium striped peritoneal catheter (F7)
- Right angle guide
- Straight polypropylene connector
- Luer connector
- Ventricular introducing rod

Catalog No.

With Reservoir	Without Reservoir	Includes
909502	**909503**	15cm full barium ventricular catheter with depth markers
9OS502		15cm Accuracy™ catheter (Barium-striped with numbered depth markers)

Integra NPH™ Low Flow Valve, Two Piece System

- Valve with integral polysulfone connector
- Integral 110cm open-ended, barium striped peritoneal catheter (F7)
- Right angle guide
- Straight polypropylene connector
- Luer connector

Catalog No.

With Reservoir	Without Reservoir	Includes
909512	**909513**	15cm, full barium ventricular catheter with depth markers, ventricular introducing rod
9OS512		15cm, full barium Accuracy™ catheter (Barium-striped with numbered depth markers), ventricular introducing rod
909514	**909515**	15cm, full barium ventricular catheter with ventricular introducing rod and 65cm tunneler
909507	**909508**	Malleable 65cm tunneler, (ventricular catheter NOT included)
909507S	**909508S**	Ventricular catheter and tunneler NOT included

Integra NPH™ Low Flow Valve, One Piece System

- Valve unit
- Integral 110cm open-ended, barium-striped peritoneal catheter (F7)
- Right angle guide
- Straight polypropylene connector
- Luer connector
- Ventricular catheter introducer

Catalog No.

With Reservoir	Without Reservoir	Includes
909518	**909519**	Integral 7cm full barium ventricular catheter
909506	**909505**	Integral 9cm full barium ventricular catheter
909504		Integral 13cm full barium ventricular catheter

Integra NPH™ Low Flow Valve, Three Piece Burr Hole System

- Valve with integral polysulfone connectors
- 110cm open-ended, barium striped peritoneal catheter (F7)
- 6.4mm burr hole cap with side arm
- Regular (2.5mm) and shallow (0.8mm) burr hole reservoirs
- Straight polypropylene connector
- Right angle guide
- Ventricular introducing rod
- Luer connector

Catalog No.	Without Reservoir	Includes:
9OS5211	Yes	15cm Accuracy™ catheter (Barium-striped with numbered depth markers)

Integra NPH™ Low Flow Valve, Two Piece Burr Hole System

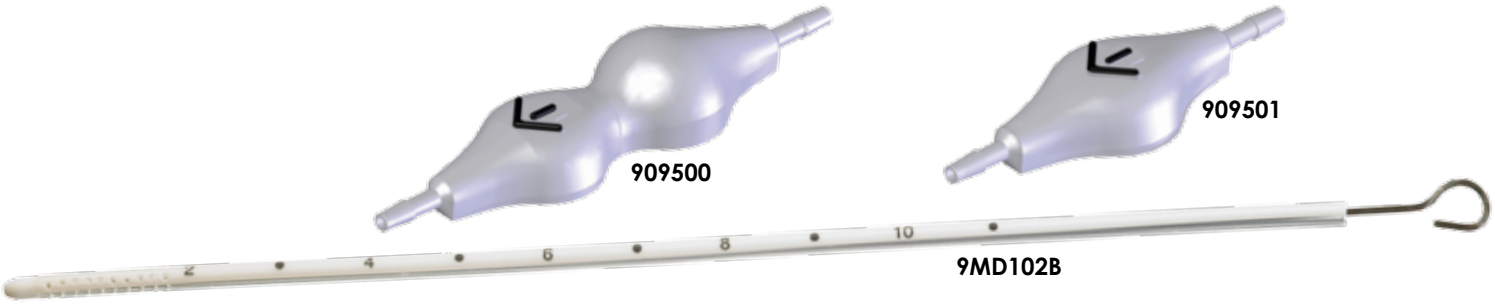
- Valve unit
- Integral 110cm open-ended, barium striped peritoneal catheter (F7)
- Right angle guide
- Straight polypropylene connector
- Luer connector
- Ventricular introducing rod

Catalog No.

With Reservoir	Without Reservoir	Includes
909521	**909520**	Integral 6.4mm burr hole cap, regular (2.5mm) and shallow (0.8mm) polypropylene burr hole reservoirs, 15cm full barium catheter with depth markers
9OS521		Integral 6.4mm burr hole cap, regular (2.5mm) and shallow (0.8mm) polypropylene burr hole reservoirs, 15cm Accuracy™ catheter (Barium-striped with numbered depth markers)

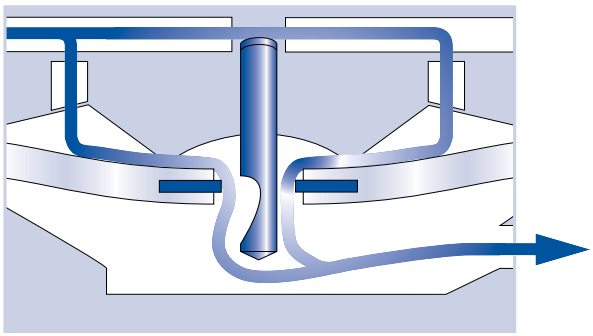
Integra NPH™ Low Flow Valve, Individual Units and Components

Catalog No.	Reservoir	Includes:
909500	Yes	Integral polysulfone connectors, luer connector, priming tubing
909501	No	Integral polysulfone connectors, luer connector, priming tubing
9MZ110N	N/A	110cm open-ended barium-striped peritoneal catheter without slits (F7)
9MD102A	N/A	15cm ventricular catheter, (full barium, depth markers), ventricular introducing rod
9MD102B	N/A	15cm Accuracy™ catheter, (barium-striped numbered depth markers), ventricular introducing rod
991002	N/A	Right angle guide (box of 5, sterile)

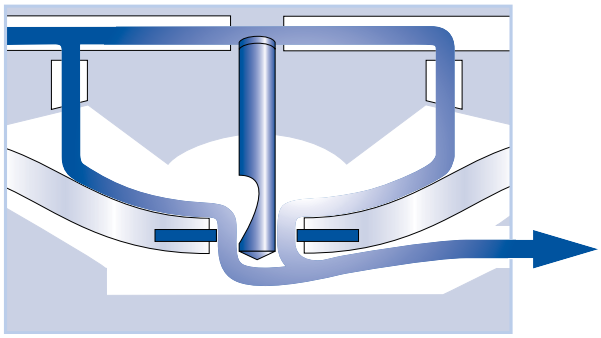


OSV II® Valve Systems

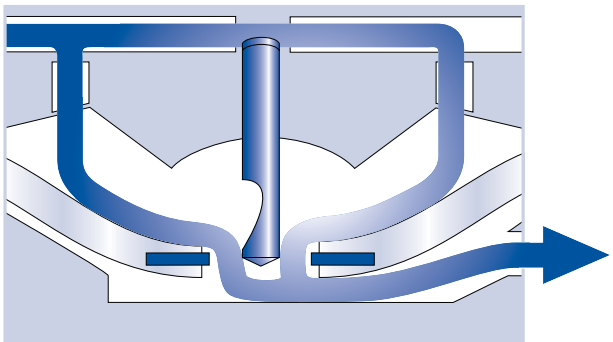
Introduced in 1987, the Orbis-Sigma® Valve was the first valve to manage hydrocephalus through flow-regulation technology rather than conventional differential-pressure regulation. The valve operates utilizing a unique, 3-stage, variable resistance mechanism that regulates the flow rate of CSF through the valve (Stage II) at a rate close to that of CSF secretion, therefore minimizing the risks of under or overdrainage. The same clinically-proven mechanism is used in the improved design of the OSV II® Valve System.



Stage I
Differential Pressure (DP) valve.
OSV II® functions as a low pressure DP valve to prevent underdrainage.

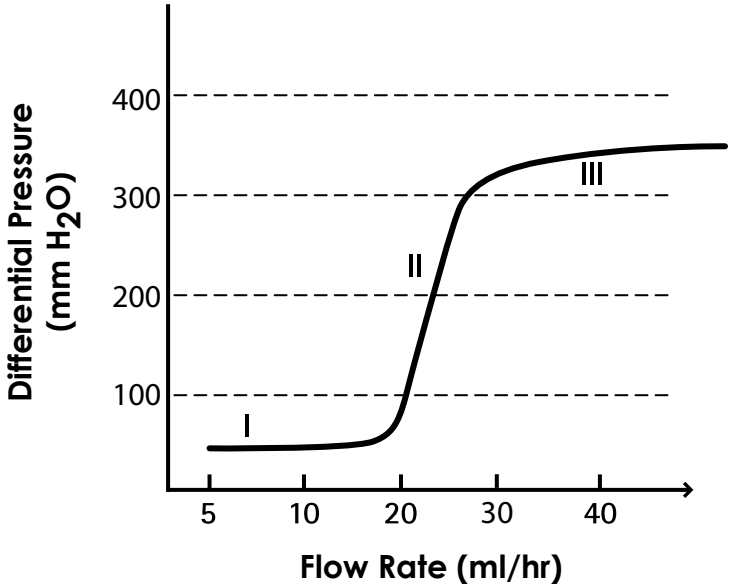


Stage II
Flow-Regulating Valve: Anti-Siphoning Stage
OSV II® functions as a flow regulator to maintain flow within physiological limits despite increases in differential pressure potentially caused by the siphoning effect.



Stage III
Safety valve.
OSV II® functions as a safety valve to immediately restore normal ICP, should ICP elevate abruptly over normal values.

Operating Characteristics



Flow rate is regulated between 18-30ml/hr in Stage II, matching the normal CSF production rate.

INTEGRA™ 800-997-4868 • Fax: 888-980-7742 • www.Integra-LS.com

OSV II®, Three Piece System

- Valve with integral polysulfone connectors
- Integral 110cm open-ended barium-striped peritoneal catheter (F7)
- Right angle guide
- Straight polypropylene connector
- Luer connector
- Ventricular introducing rod

Catalog No.

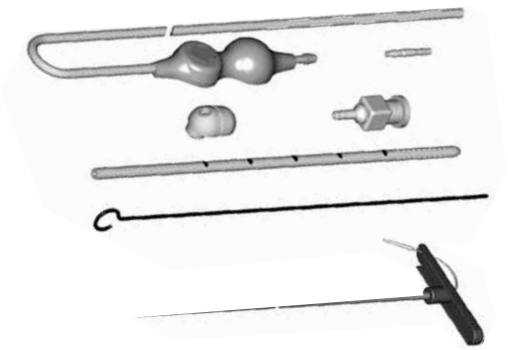
With Reservoir	Without Reservoir	Includes
909702	**909703**	15cm full barium ventricular catheter with depth markers
9OS702		15cm Accuracy™ catheter (barium-striped with numbered depth markers,)

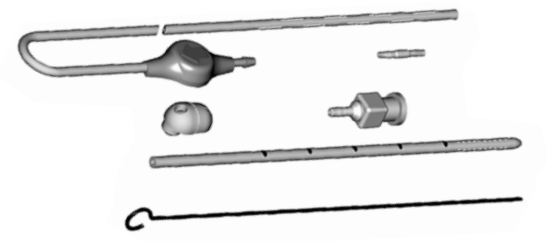
OSV II®, Two Piece System

- Valve with integral polysulfone connector
- Integral 110cm open-ended barium-striped peritoneal catheter (F7)
- Straight polypropylene connector
- Luer connector

Catalog No.

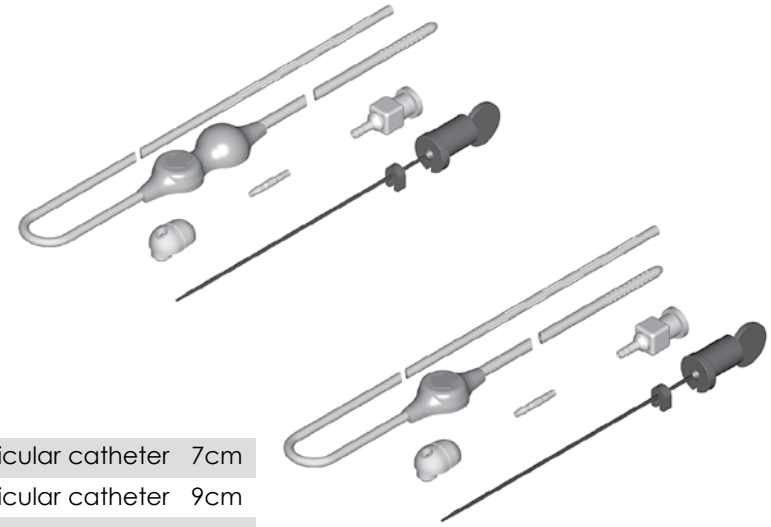
With Reservoir	Without Reservoir	Includes
909712	**909713**	15cm full barium ventricular catheter with depth markers (F8), introducing rod, and right angle guide
909714		15cm full barium ventricular catheter with depth markers, introducing rod, right angle guide and malleable tunneler (65cm)
909707	**909708**	Malleable tunneler (65cm) No ventricular catheter
909707S	**909708S**	No ventricular catheter, no tunneler
9OS712		15cm Accuracy™ catheter (barium-striped catheter with numbered depth markers)





OSV II®, One Piece System

- Integral straight full barium ventricular catheter (F8)
- Integral 110cm open-ended, barium-striped peritoneal catheter (F7)
- Ventricular catheter introducer
- Right angle guide
- Straight polypropylene connector
- Luer connector

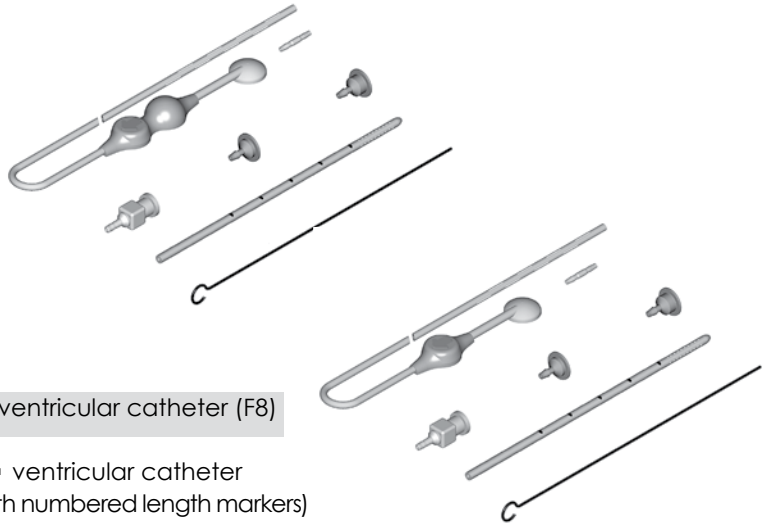


Catalog No.

With Reservoir	Without Reservoir	Includes
909718	**909719**	Integral Ventricular catheter 7cm
909706	**909705**	Integral Ventricular catheter 9cm
909704		Integral Ventricular catheter 13cm

OSV II®, Two Piece Burr Hole System

- With integral 110cm open-ended, barium-striped peritoneal catheter (F7)
- Straight polypropylene connector
- Integral 6.4mm burr hole cap
- Regular (2.5mm) and shallow (0.8mm) polypropylene burr hole reservoirs
- Luer connector
- Ventricular introducing rod



Catalog No.

With Reservoir	Without Reservoir	Includes
909721	**909720**	15cm full barium ventricular catheter (F8)
9OS7201		15cm Accuracy™ ventricular catheter (barium-striped with numbered length markers)

OSV II®, Valve Individual Units and Components

Catalog No.	Reservoir	Includes
909700	**Yes**	Integral polysulfone connectors, luer lock, priming tubing
909701	**No**	Integral polysulfone connectors, luer lock, priming tubing
909700P	**Yes**	Integral polysulfone connectors, luer lock, priming tubing
9MZ110N	N/A	110cm open-ended barium-striped peritoneal catheter (F7)
9MD102A	N/A	15cm full barium ventricular catheter (F8)
9MD102B	N/A	15cm Accuracy™ catheter, (barium-striped with numbered depth markers, F8)

909700P

909700

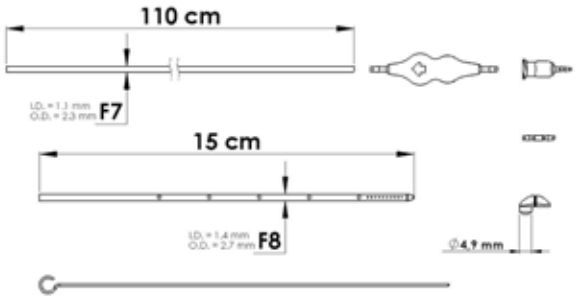
909701

9MD102B

OSV II low pro™

OSV II Low Pro™, Three Piece Shunt System

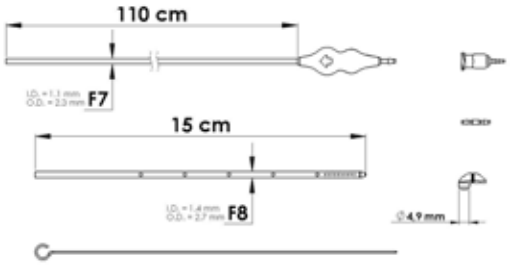
- Valve with integral polysulfone connectors
- 110cm open-ended, barium-striped drainage catheter, (F7)
- Straight polypropylene connector
- Luer connector
- Ventricular introducing rod
- Right angle guide



Catalog No.	Includes
909702P	15cm full barium ventricular catheter (with depth markers, F8)

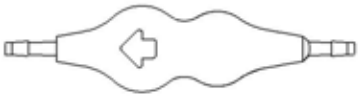
OSV II Low Pro™, Two Piece Shunt System

- Valve with integral polysulfone connectors
- 110cm open-ended, barium-striped drainage catheter, (F7)
- Straight polypropylene connector
- Luer connector
- Right angle guide
- Ventricular catheter introducer



Catalog No.	Includes
909712P	15cm full barium ventricular catheter (with depth markers, F8)

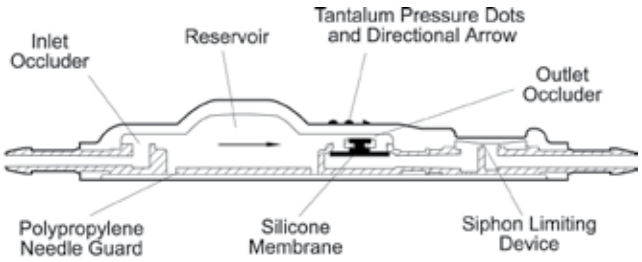
OSV II Low Pro™, Valve Only

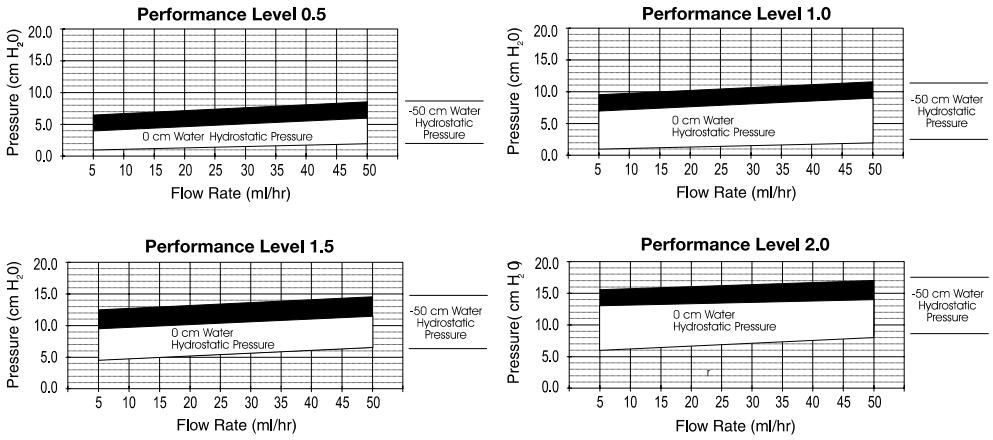


Catalog No.	Includes
909700P	Integral polysulfone connectors, luer connector, priming tubing

Equi-Flow™ Valve

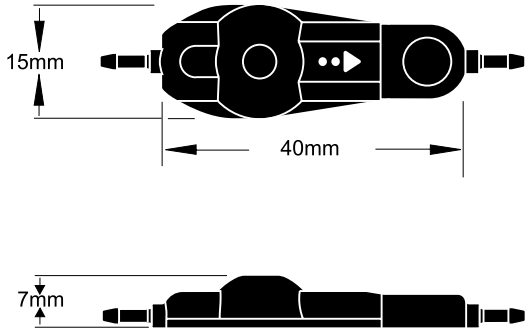
The Equi-Flow™ valve is an advanced valve system* designed to maintain physiological CSF pressure independent of patient orientation. Incorporating a normally open configuration Siphon Limiting Device (SLD)that closes in response to a negative hydrostatic pressure, this patented valve design limits reduction of IVP caused by siphoning in the distal catheter. The Equi-Flow™ valve has an injectable central reservoir, as well as proximal and distal occluders. The valve components do not interfere with CT scans or MRI imaging. The Equi-Flow™ valve is available in two sizes and four pressure designations to accommodate the requirements of different patients.





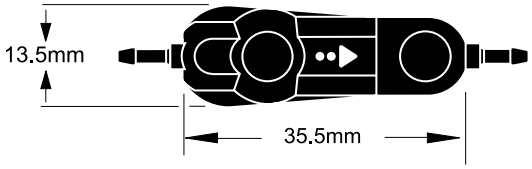
Equi-Flow™ Valve, Regular

Catalog No.	Performance Level	Description
SLRLL	0.5	Very Low
SLRL	1.0	Low
SLRLM	1.5	Medium
SLRM	2.0	High



Equi-Flow™ Valve, Small

Catalog No.	Performance Level	Description
SLSLL	0.5	Very Low
SLSL	1.0	Low
SLSLM	1.5	Medium
SLSM	2.0	High



*U.S. Patent No. 5,304,114

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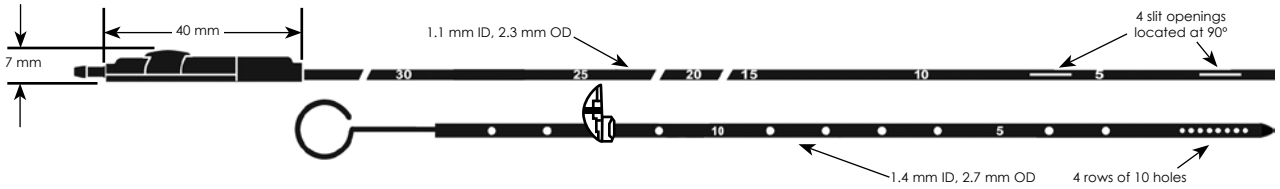
Equi-Flow™ Shunt System, Regular

Includes:

- Regular Equi-Flow valve with integral polypropylene connectors
- Integral 91cm, barium-striped peritoneal catheter, open ended with slits
- 15cm ventricular catheter with introducing rod and right angle guide

Catalog No.	Performance Level	Description
SLRKLL	0.5	Very Low
SLRKL	1.0	Low
SLRKLM	1.5	Medium
SLRKM	2.0	High

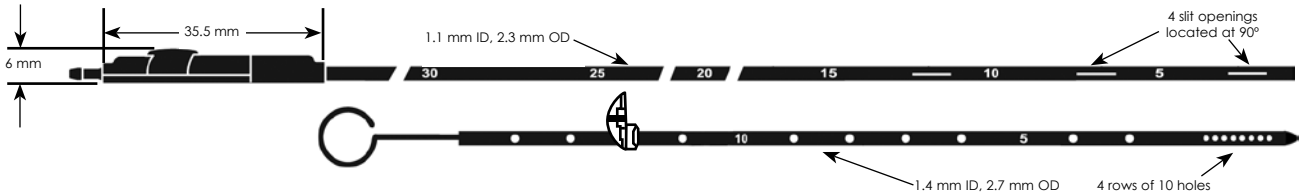


Equi-Flow™ Shunt System, Small

Includes:

- Small Equi-Flow valve with integral polypropylene connector
- Integral 91cm, barium-striped peritoneal catheter, open ended with slits
- 15cm ventricular catheter with introducing rod and right angle guide

Catalog No.	Performance Level	Description
SLSKLL	0.5	Very Low
SLSKL	1.0	Low
SLSKLM	1.5	Medium
SLSKM	2.0	High



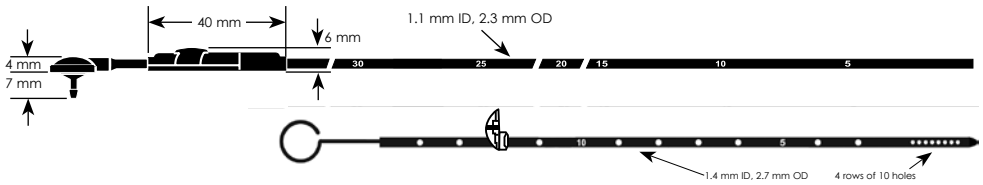
Equi-Flow™ Burr Hole Shunt System

Includes:

- Equi-Flow valve with integral polypropylene connector
- Integral 91cm, barium-striped peritoneal catheter, open ended with slits
- 15cm ventricular catheter with introducing rod and right angle guide
- Integral 6.4mm burr hole reservoir with shallow polypropylene base

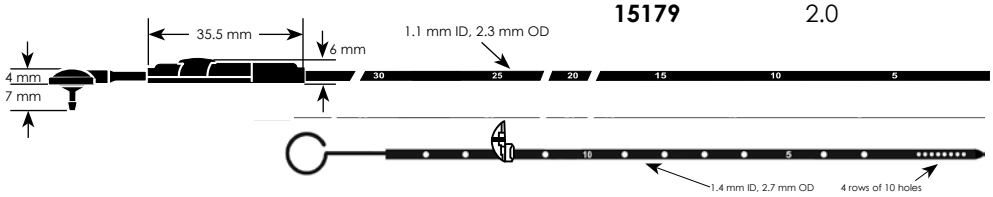
Regular Valve

Catalog No.	Performance Level	Description
15182	0.5	Very Low
15180	1.0	Low
15185	1.5	Medium
15181	2.0	High



Small Valve

Catalog No.	Performance Level	Description
15174	0.5	Very Low
15178	1.0	Low
15175	1.5	Medium
15179	2.0	High



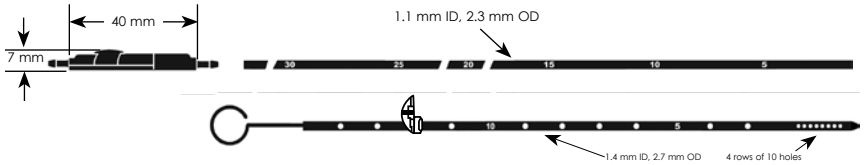
Equi-Flow™ 3-Piece Shunt System

Includes:

- Equi-Flow valve with integral polypropylene connectors
- 91cm, barium-sulfate striped drainage catheter, open ended
- 15cm ventricular catheter with stylet and right angle guide

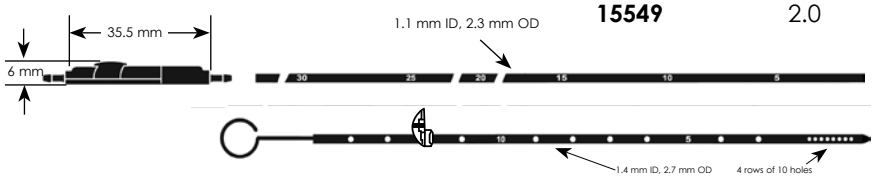
Regular Valve

Catalog No.	Performance Level	Description
15551	0.5	Very Low
15555	1.0	Low
15554	1.5	Medium
15552	2.0	High



Small Valve

Catalog No.	Performance Level	Description
15545	0.5	Very Low
15546	1.0	Low
15548	1.5	Medium
15549	2.0	High

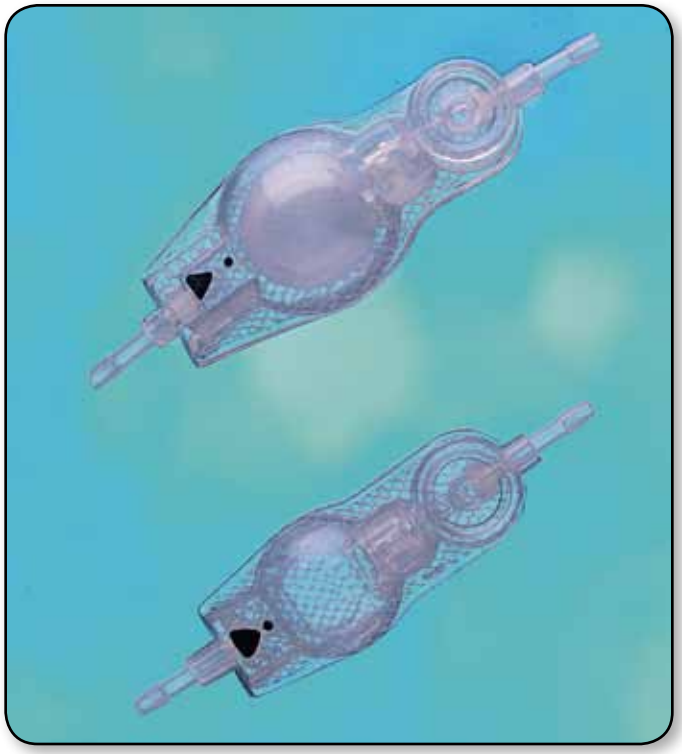


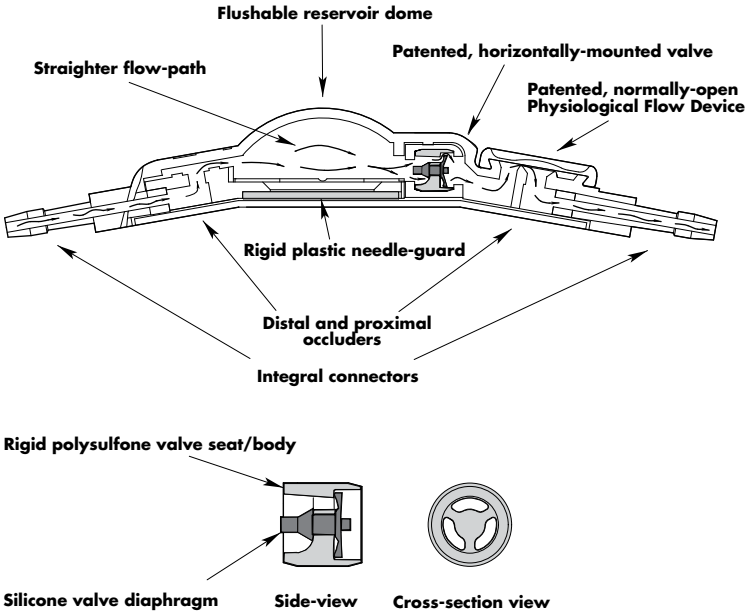
Novus™ Valve

The pressure/flow performance of the Novus™ Valve is specifically designed to resemble the characteristics of normal, healthy, CSF physiology. Novus features an integral Anti-Siphon Device based on a normally-open design. This proven innovation minimizes gravity-induced overdrainage when a patient sits or stands, maintaining intraventricular pressure within the normal physiologic range.

In addition, the patented Novus horizontally-mounted T-valve mechanism allows a straighter flow path; the rigid plastic valve housing and polypropylene needle guard reduce the risk of improper needle placement when accessing the reservoir; and proximal and distal occluders permit selective flushing and patency testing. All Novus Valves include integral connectors to facilitate catheter connection, and are designed with no metal parts that can interfere with CT or MRI scans.

Novus is available in both Standard and Mini sizes. Because the normally-open configuration of our Anti-Siphon Device adds variable resistance to flow only as required by change in patient position, the flexibility to meet a variety of patient needs is obtained with two pressure ranges.

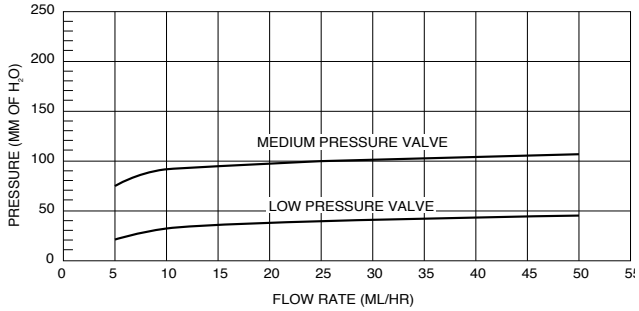




Valve mechanism

Valve Performance Chart

	Low Pressure	Medium Pressure
Dot Code	●	● ●
Closing Pressure Range	mm H_2O 5-50	mm H_2O 51-110

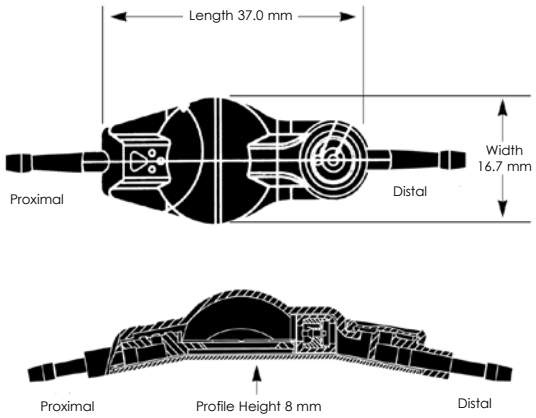


Note: The above curves describe typical in-vitro valve performance characteristics for each closing pressure range. Due to characteristics of silicone materials, some variation in pressure performance may occur which historically has not compromised effective control and treatment of hydrocephalus.

Novus™ Valve, Standard

Each Novus™ Valve is packaged with a barium-impregnated silicone right-angle ventricular catheter guide.

Catalog No.	Pressure Range
NL8509010	Low
NL8509020	Medium

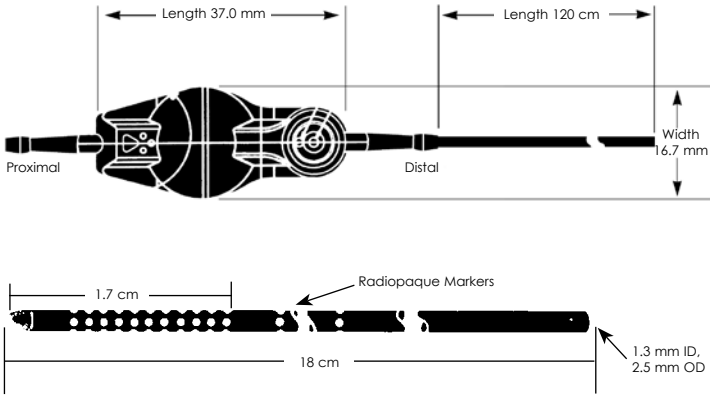


Novus™ Shunt Two Piece System, Standard

Includes:

- Standard Novus™ Valve with integral 120cm open-ended, barium striped peritoneal catheter
- 18cm standard Pudenz ventricular catheter with introducing rod (NL8501228)
- Barium-impregnated silicone right-angle ventricular catheter guide

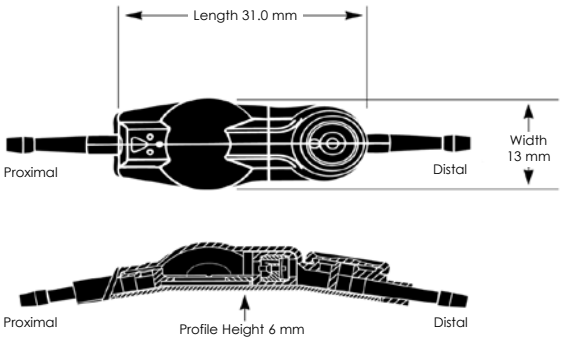
Catalog No.	Pressure Range
NL8509610	Low
NL8509620	Medium



Novus™ Valve, Mini

Each Novus™ Mini Valve is packaged with a barium-impregnated silicone right-angle ventricular catheter guide.

Catalog No.	Pressure Range
NL8509011	Low
NL8509021	Medium

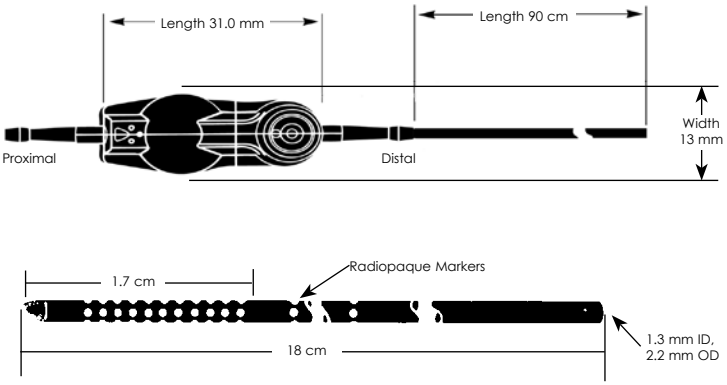


Novus™ Shunt Kit Two Piece System, Mini

Includes:

- Mini Novus™ Valve with integral 90cm open-ended, barium striped peritoneal catheter
- 18cm small Pudenz ventricular catheter with introducing rod (NL8501504)
- Barium-impregnated silicone right-angle ventricular catheter guide

Catalog No.	Pressure Range
NL8509311	Low
NL8509321	Medium

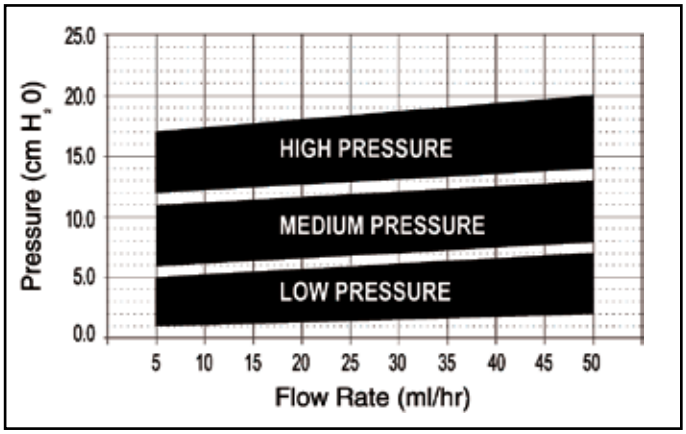


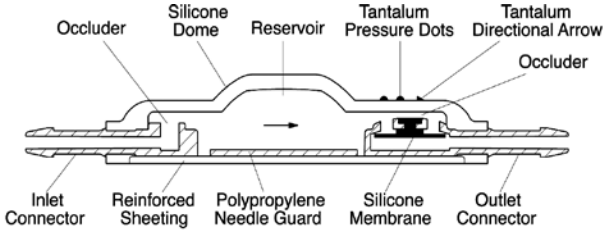
Contour-Flex™ Valve

The Contour-Flex™ family of valves uses a proven silicone membrane pressure control element, providing consistent pressure/flow characteristic and a reproducible closing pressure.

The Contour-Flex™ valve has proximal and distal occluders to facilitate two-way flushing. This valve has a flexible profile to conform to the curvature of the cranium and is cosmetically unobtrusive.

Based on the same design as our Equi-Flow™ valve, but without siphon limiting device.





Pressure / Flow Characteristics

	Low	Med	High
5ml/hr flow rate	1cm H_2O	6cm H_2O	12cm H_2O
50ml/hr flow rate	7cm H_2O	136cm H_2O	206cm H_2O

Contour-Flex™ Valve, Regular

Catalog No.	Pressure Range
CFRL	Low
CFRM	Medium
CFRH	High

Contour-Flex™ Valve, Small

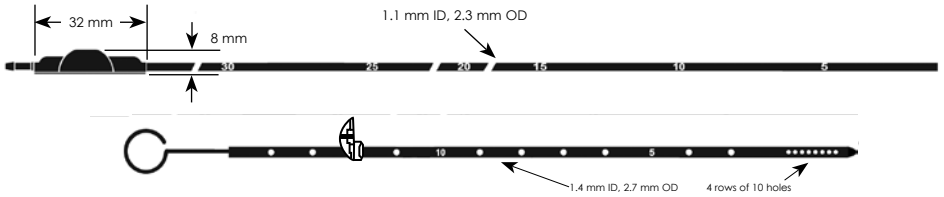
Catalog No.	Pressure Range
CFSL	Low
CFSM	Medium
CFSH	High

Contour-Flex™ Two Piece Shunt System, Regular

Includes:

- Regular Contour-Flex™ valve with integral polypropylene connector
- Integral 91cm, barium striped peritoneal catheter, open ended with slits
- 15cm ventricular catheter with introducing rod and right angle guide

Catalog No.	Pressure Range
11811	Low
11812	Medium
11813	High

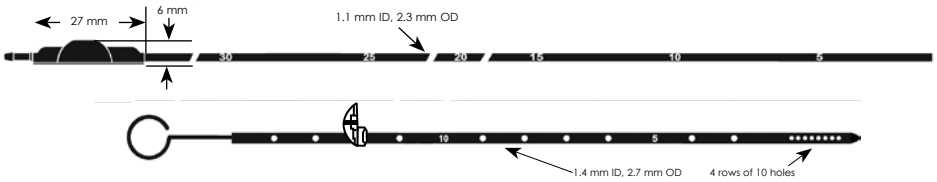


Contour-Flex™ Two Piece Shunt System, Small

Includes:

- Small Contour-Flex™ valve with integral polypropylene connector
- Integral 91cm, barium striped peritoneal catheter, open ended with slits
- 15cm ventricular catheter with introducing rod and right angle guide

Catalog No.	Pressure Range
14085	Low
14086	Medium
14087	High



Contour-Flex™ Two Piece Burr Hole Shunt System

Includes:

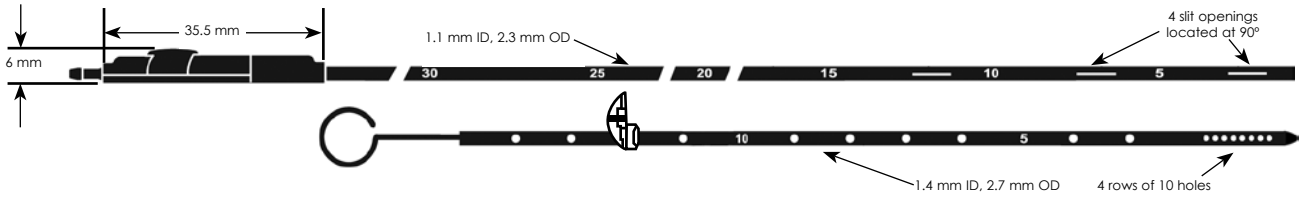
- Contour-Flex™ valve with integral burr hole reservoir cap and base
- Integral 91cm, barium striped peritoneal catheter, open ended with slits
- 15cm ventricular catheter with ventricular introducer and right angle guide

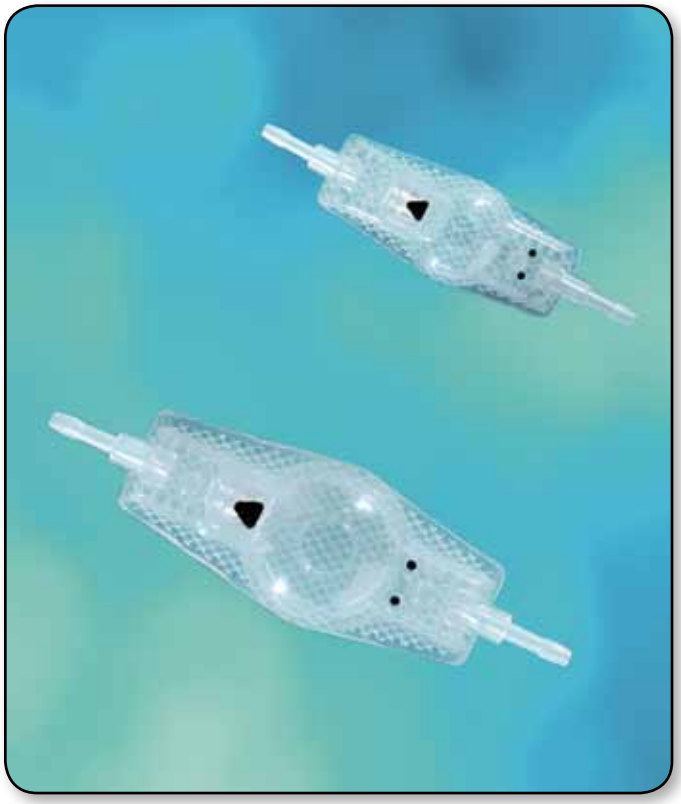
Regular Valve

Catalog No.	Pressure Range
14161	Low
14162	Medium
14163	High

Small Valve

Catalog No.	Pressure Range
11814	Low
11815	Medium
11816	High





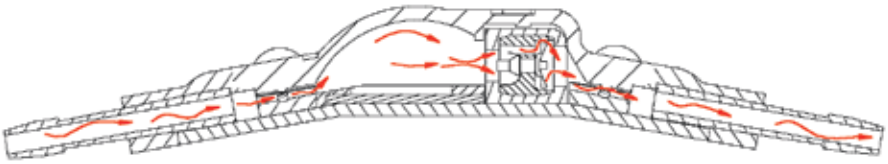
LPV II™ Valve

The LPV II™ Valve, a low-profile diaphragm valve, incorporates a patented horizontal T-valve mechanism. This simple flow pattern helps to reduce occlusion rates, even in cases of abnormally high CSF protein. The rigid valve housing and polypropylene needle guard reduces the risk of accidental needle damage.

All LPV II™ valves include integral connectors to facilitate catheter connection, as well as an injectable domed reservoir. Occluders are located both proximal and distal to the valve mechanism, allowing for flushing and patency testing in both directions. LPV II™ valves are designed without ferromagnetic parts and will not interfere with CT and MRI scans. Radiopaque markings indicate flow direction and pressure range.

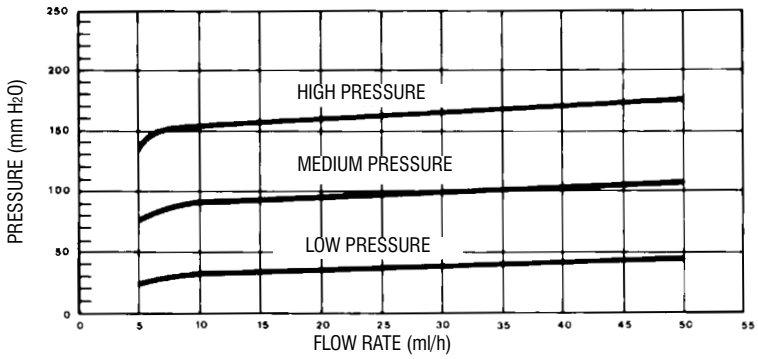
LPV II™ is available in both Standard and Mini sizes and three pressure ranges to accommodate a wide variety of patient requirements. The LPV II™ has the same proven design as the NOVUS™ valve, but without anti-siphon device.

Flow Path of LPV II™



Valve Performance Chart

	Low Pressure	Medium Pressure	High Pressure
Dot Code	●	● ●	● ● ●
Closing Pressure Range	mm H_2O 5-50	mm H_2O 51-110	mm H_2O 111-180

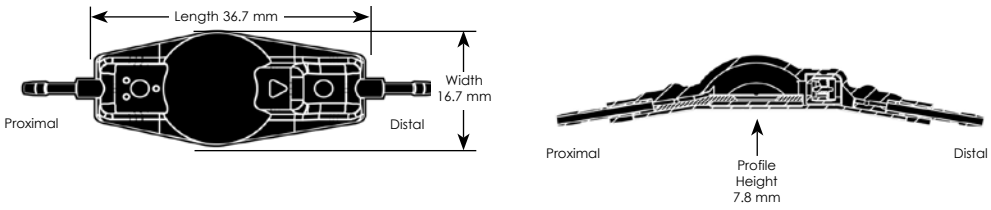


Note: The above curves describe typical in-vitro valve performance characteristics for each closing pressure range. Due to characteristics of silicone materials, some variation in pressure performance may occur which historically has not compromised effective control and treatment of hydrocephalus.

LPV II™ Valve, Standard

Each LPV II™ Valve is packaged with a barium-impregnated silicone right-angle ventricular catheter guide.

Catalog No.	Pressure Range
NL8509810	Low
NL8509820	Medium
NL8509830	High

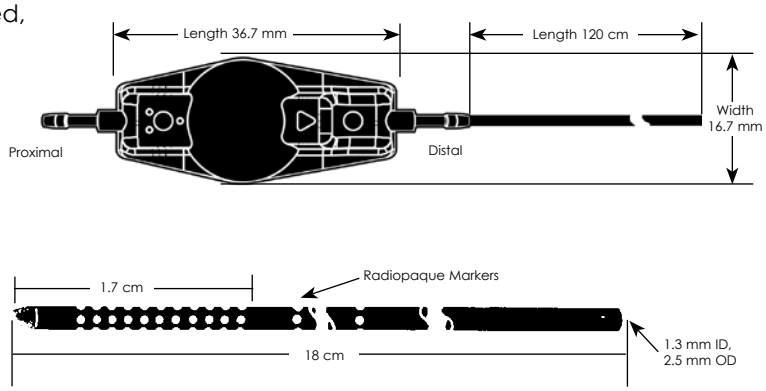


LPV II™ Two Piece Shunt Kit, Standard

Includes:

- Standard LPV II™ Valve with integral 120cm open-ended, barium-striped peritoneal catheter with slits
- 18cm standard Pudenz ventricular catheter with introducing rod (NL8501228)
- Barium-impregnated silicone right-angle ventricular catheter guide

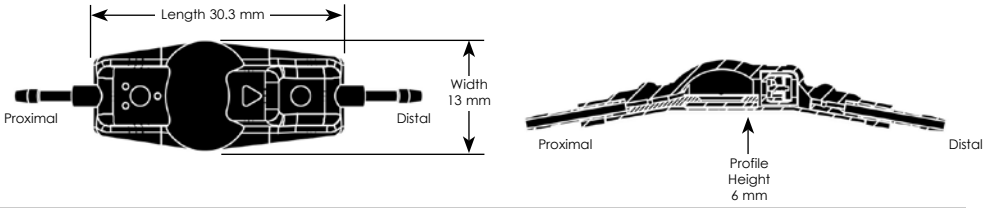
Catalog No.	Pressure Range
NL8509840	Low
NL8509850	Medium
NL8509860	High



LPV II™ Valve, Mini

Each LPV II™ Valve is packaged with a barium-impregnated silicone right-angle ventricular catheter guide.

Catalog No.	Pressure Range
NL8509811	Low
NL8509821	Medium
NL8509831	High

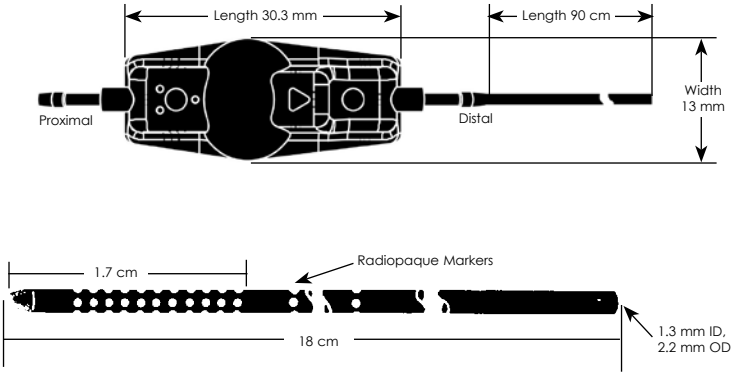


LPV II™ Two Piece Shunt Kit, Mini

Includes:

- Mini LPV II™ Valve with integral 90cm open-ended, barium-striped peritoneal catheter with slits
- 18cm small Pudenz ventricular catheter with stylet (NL8501504)
- Barium-impregnated silicone right-angle ventricular catheter guide

Catalog No.	Pressure Range
NL8509841	Low
NL8509851	Medium
NL8509861	High



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Integra DP™ Valve System

Over 30 years of clinical experience have made the Integra DP™ valve a standard among differential pressure (DP) valves.

The original Ball-In-Cone and Spring mechanism is the basis of all our Integra DP™ Valve Systems.

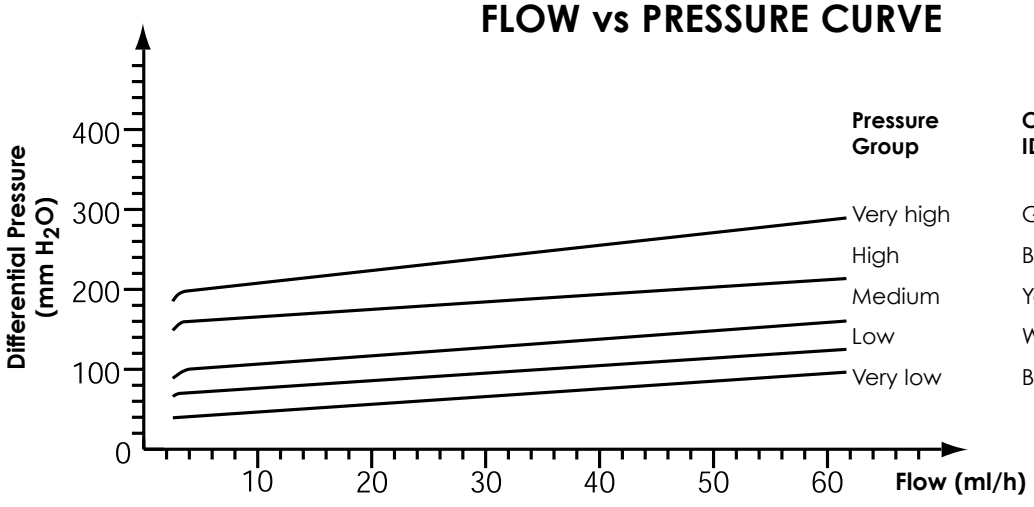
The Integra DP™ Valve for hydrocephalus management has proven:

- Accurate pressure control
- Long term reliability
- Superior protein handling capacity, and resistance to obstruction.

Several color-coded pressure ranges are offered in standard and pediatric versions. A variety of system configurations are available, depending on physician preference.

Each valve system includes all the necessary components required for implantation. A serial number is engraved on the body of the valve.

FLOW vs PRESSURE CURVE



Pressure Group	Color ID Band	Differential (operating) Pressure mm H_2O (at 5cc/hr)
Very high	Green	**170 - 230**
High	Brown	**120 - 170**
Medium	Yellow	**80 - 120**
Low	White	**40 - 80**
Very low	Blue	**15 - 40**

Integra DP™ Standard Valve System (Adult)

- Integra DP™ standard valve unit with integral reservoir
- Integral 110cm open-ended striped peritoneal catheter with slits (F7)
- Plastic subcutaneous tube passer
- Introducing rod
- Stainless steel right angle connector
- Stainless steel straight connector

Includes:

- Finned ventricular catheter (15cm, F8)

Catalog No.	Color	Pressure Range
901112*	Blue	Very low*
901122	White	Low
901142	Yellow	Medium
901162	Brown	High
901182	Green	Very high

Includes:

- Straight ventricular catheter (15cm, F8) with radiopaque length dots

Catalog No.	Color	Pressure Range
901125	White	Low
901145	Yellow	Medium
901165	Brown	High

Integra DP™ Pediatric Valve System

- Integra DP™ Pediatric valve unit with integral reservoir
- Integral 110cm open-ended striped peritoneal catheter with slits (F7)
- Plastic subcutaneous tube passer
- Introducing rod
- Stainless steel right angle connector
- Stainless steel straight connector

Includes:

- Finned ventricular catheter (15cm, F8)

Catalog No.	Color	Pressure Range
902012*	Blue	Very low*
902045	White	Low
902080	Yellow	Medium
902125	Brown	High
902165	Green	Very high

Includes:

- Straight ventricular catheter (15cm, F8) with radiopaque length dots

Catalog No.	Color	Pressure Range
902545	White	Low
902580	Yellow	Medium
902525	Brown	High

*Recommended for post-operative drainage of hygromas and other extraventricular conditions.

Integra DP™ Burr Hole Shunt System

- Integra DP™ valve unit with integral burr hole cap
- Integral 110cm open-ended, striped peritoneal catheter with slits (F7)
- Straight ventricular catheter (15cm, F8) with radiopaque length dots
- Introducing rod
- Stainless steel straight connector

Integra DP™ Standard Burr Hole System

- Includes 6.4mm stainless steel burr hole reservoir (2.5mm depth)

Catalog No.	Color	Pressure Range
907122	White	Low
907142	Yellow	Medium
907162	Brown	High

Integra DP™ Pediatric Burr Hole System

- Includes 6.4mm stainless steel burr hole reservoir (0.8mm depth)

Catalog No.	Color	Pressure Range
908122	White	Low
908142	Yellow	Medium
908162	Brown	High

Integra DP™ Valve Unit

- Integra DP™ valve unit
- Integral 110cm open-ended, striped catheter with slits (F7)
- Two straight stainless steel connectors

Integra DP™ Standard Valve Units

Catalog No.	Color	Pressure Range
901113*	Blue	Very low*
901123	White	Low
901143	Yellow	Medium
901163	Brown	High
901183	Green	Very high

Integra DP™ Pediatric Valve Units

Catalog No.	Color	Pressure Range
902123	White	Low
902143	Yellow	Medium
902163	Brown	High

*Recommended for post-operative drainage of hygromas and other extraventricular conditions.

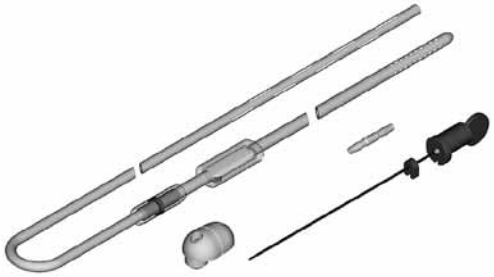
OMNISHUNT™ Valve Systems

OMNISHUNT™ Valve Systems provide low profile designs suitable for use in pediatric and neonate hydrocephalus patients. The single module, ball-in-cone valve mechanism provides pressure control, stability, and excellent flow/pressure performance. The OMNISHUNT has been designed for easy implantation, reducing shunt insertion time and skin erosion complications. OMNISHUNT has the same pressure ranges and operating pressure as Integra DP™.

See Integra DP for flow versus pressure chart.

OMNISHUNT™ One Piece Valve Systems

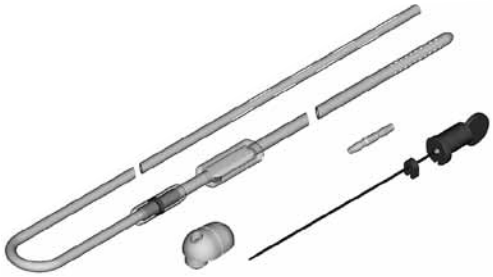
- One-piece system with integral ventricular catheter, reservoir, single valve module, and 110cm open-ended, striped peritoneal catheter with slits (F7)
- Right angle guide
- Ventricular catheter introducer
- Straight polypropylene connector



Includes:

- Straight ventricular catheter (7cm, F8)

Catalog No.	Color	Pressure Range
908322	White	Low
908342	Yellow	Medium
908362	Brown	High



Includes:

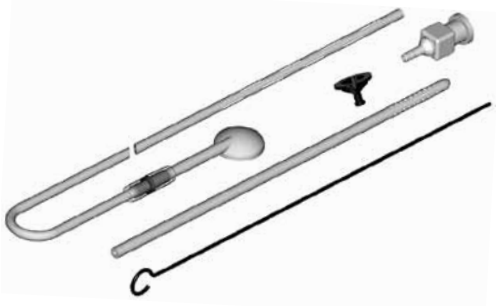
- Straight ventricular catheter (9cm, F8) with radiopaque length dots

Catalog No.	Color	Pressure Range
908324	White	Low
908344	Yellow	Medium
908364	Brown	High

OMNISHUNT™ Burr Hole Valve Systems

Includes:

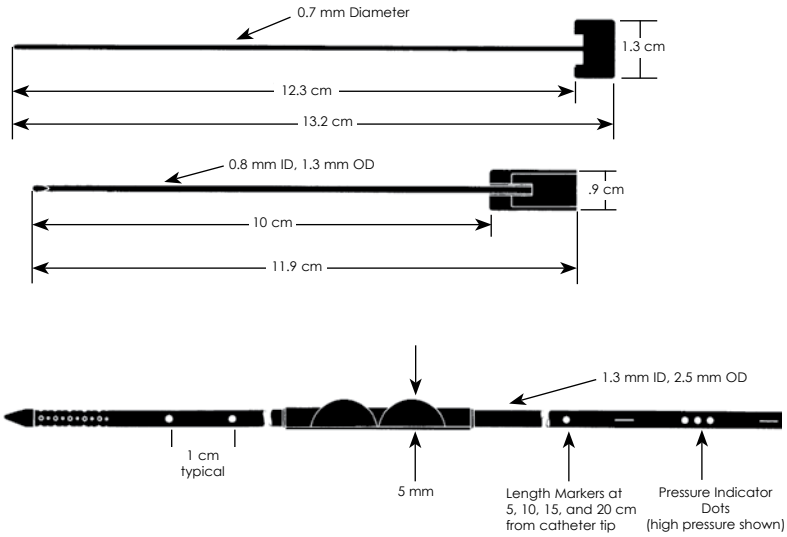
- Single valve module with integral burr hole reservoir cap and integral 110cm open-ended, striped peritoneal catheter with slits (F7)
- Introducing rod
- Stainless steel, 6.4mm burr hole reservoir, 0.8mm depth
- Straight ventricular catheter (15cm, F8) with radiopaque length dots
- Luer connector



Catalog No.	Color	Pressure Range
908222	White	Low
908242	Yellow	Medium
908262	Brown	High

One-Piece Shunt

The One-Piece Shunt incorporates quality features and components in a low-cost and easy-to-use kit. Tantalum markings and barium impregnated silicone elastomer provide full radiopacity; a double-dome reservoir with integral needle guard allows simple proximal as well as distal flushing, and a specially designed ventricular catheter introducer is included in each kit.



Includes:

- One-Piece Shunt with double-dome reservoir in lengths as indicated in chart below
- Ventricular catheter introducer (NL8502005)
- Silicone right-angle ventricular catheter guide

Dot Code	Pressure Rating	Differential Pressure Range (mm of H_2O)
•	Low	20 - 50
• •	Medium	51 - 90
• • •	High	91 - 140

Catalog No.	Total Length	Ventricular Catheter Length	Pressure Range
NL8506101	53cm	11cm	Low
NL8506102	53cm	11cm	Medium
NL8506201	62cm	11cm	Low
NL8506202	62cm	11cm	Medium
NL8506301	78cm	13cm	Low
NL8506302	78cm	13cm	Medium
NL8506401	90cm	13cm	Low
NL8506402	90cm	13cm	Medium
NL8506403	90cm	13cm	High
NL8506501	102cm	13cm	Low
NL8506503	102cm	13cm	High
NL8506502	102cm	13cm	Medium

Note: Above items require minimum order quantity and production lead time. Please contact your Integra NeuroSpecialist for further information.

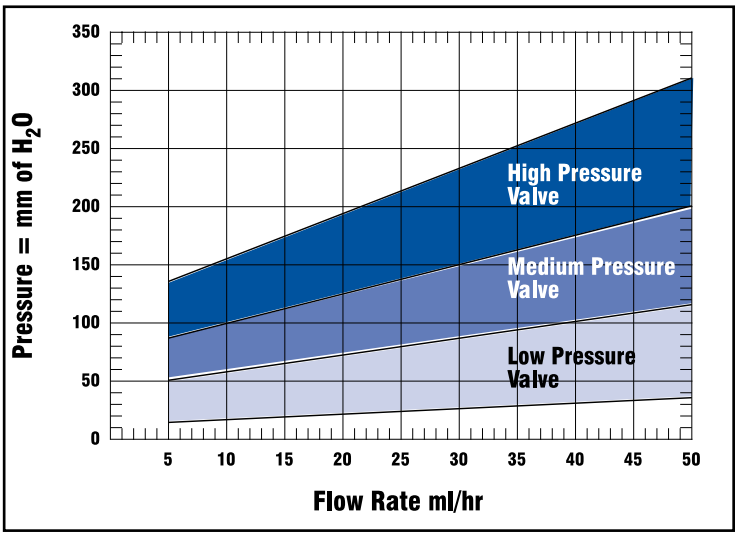
UltraVS™ Cylindrical Valve

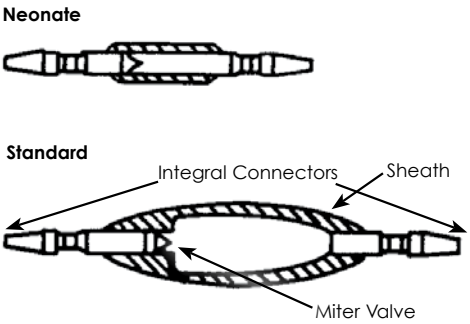
The simple cylindrical shape of UltraVS™ lowers the profile of the valve system in order to reduce the risk of skin erosion. At only 13mm long and 3.8mm wide, the UltraVS Neonate is the smallest valve manufactured, and the Integra valve most appropriate for neonatal patients.

UltraVS incorporates a miter valve mechanism, a design that naturally opens more slowly in response to hydrostatic pressure than a diaphragm type valve. The direct flow path of the UltraVS easily resists occlusion even in cases of excessively high protein CSF.

All UltraVS Valve units incorporate integral connectors to facilitate catheter connection. The option of an integral injectable Rickham-style reservoir allows CSF sampling.

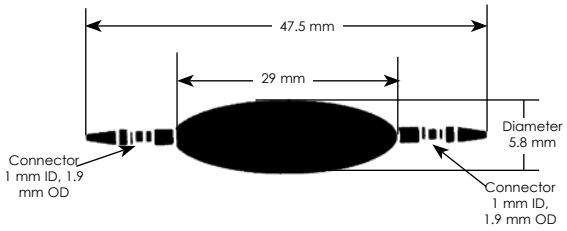
UltraVS Valves are available in two sizes, and each size is available in three pressure ranges. The availability of several different system configurations gives UltraVS the ultimate in system flexibility.





UltraVS™ Valve, Standard

Catalog No.	Pressure Range
NL8501109	Low
NL8501110	Medium
NL8501111	High

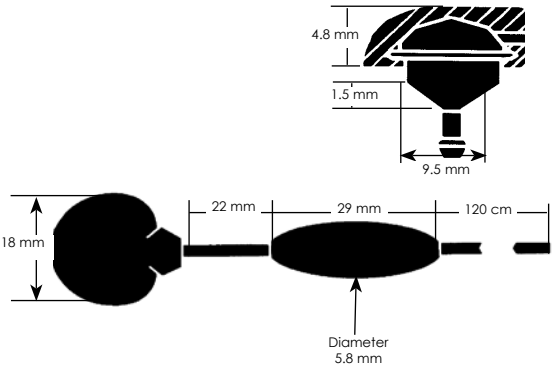


UltraVS™ Shunt Kit, Standard with Large Rickham-style Reservoir

Includes:

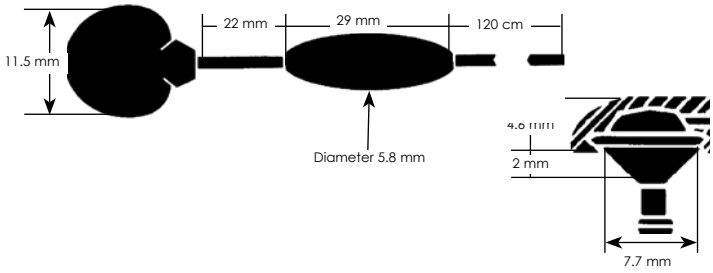
- Standard UltraVS™ Valve
- Integral 120cm, open-ended, barium striped peritoneal catheter with slits
- Integral Rickham-style reservoir
- 18cm small Pudenz ventricular catheter with stylet (NL8501504)

Catalog No.	Pressure Range
NL8501129	Low
NL8501130	Medium
NL8501131	High



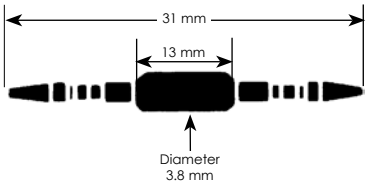
UltraVS™ Shunt Kit, Standard with Small Rickham-style Reservoir

Catalog No.	Pressure Range
NL8501113	Low
NL8501114	Medium
NL8501115	High



UltraVS™ Valve Kit, Neonate

Catalog No.	Pressure Range
NL8501126	Low
NL8501127	Medium
NL8501128	High

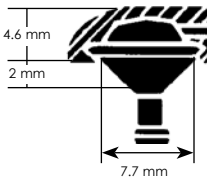


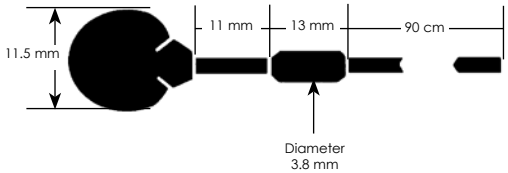
UltraVS™ Shunt Kit, Neonate with Small Rickham-style Reservoir

Includes:

- Neonate UltraVS™ Valve
- Integral 90cm, open-ended, barium striped peritoneal catheter with side slits
- Integral Rickham-style reservoir
- 18cm small Pudenz ventricular catheter with stylet (NL8501504)

Catalog No.	Pressure Range
NL8501123	Low
NL8501124	Medium
NL8501125	High



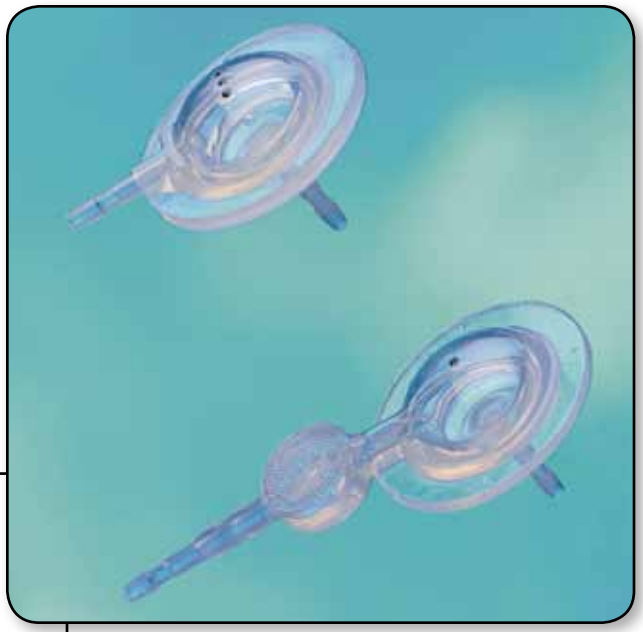


Pudenz Valve

Pudenz Flushing Valves are available exclusively through Integra.

Reliability of performance and the widest variety of sizes and pressure ranges available have made Pudenz Valves the burr-hole valve of choice for over three decades. The addition of integral connectors to facilitate catheter attachment and the availability of an integral Anti-Siphon Device provide increased flexibility in meeting a variety of patient requirements.

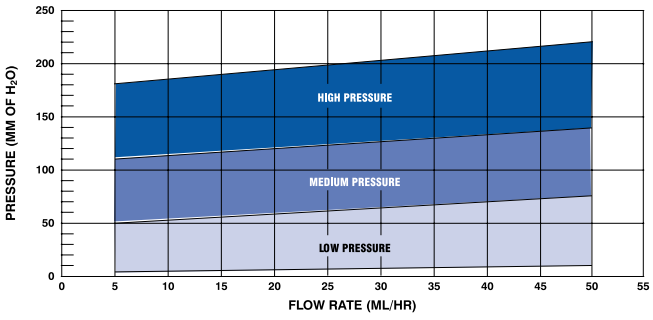
All Pudenz Flushing Valves feature an injectable reservoir for CSF sampling, distal flushing, and distal patency testing. A one-way diaphragm-type valve and radiopaque pressure range indicators are incorporated in all Pudenz Valves.



Valve Performance Chart

	Low Pressure	Medium Pressure	High Pressure
Dot Code	•	• •	• • •
Closing Pressure	mm H_2O	mm H_2O	mm H_2O
Range	5-50	51-110	111-180
Flow/Pressure Range @ 5ml/hr	5mm H_2O	50mm H_2O	110mm H_2O
@50ml/hr	75mmH_2O	140mm H_2O	220mm H_2O

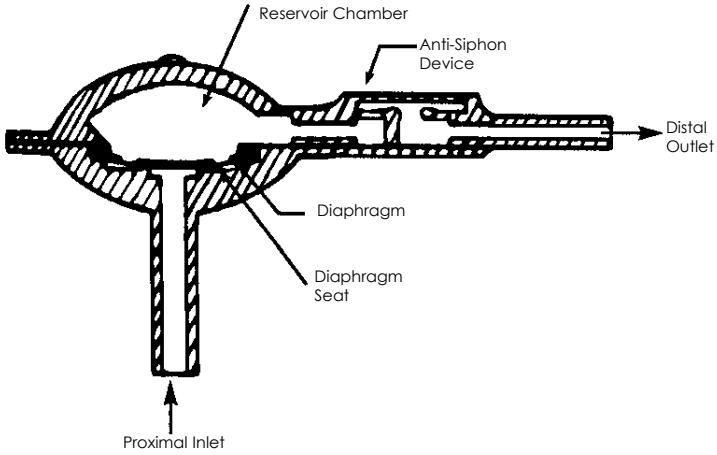
Note: Values shown in the flow/pressure-range chart are the low point of the established 5-ml/hr range and the high point of the 50 ml/hr range.

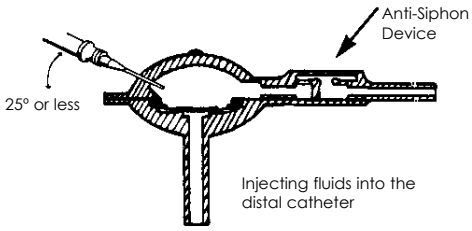


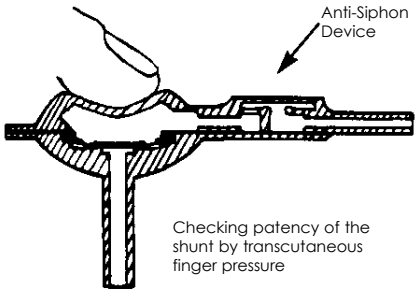
Note:
Shaded areas on the graph describe typical in-vitro valve performance as tested at the time of manufacture. Due to characteristics of silicone materials, some variation in pressure performance may occur which historically has not compromised effective control and treatment of hydrocephalus.

Flushing Procedure for Pudenz CSF Valve

Diagrams are shown here for illustration purposes only.
Always refer to the relevant ***Instructions for Use*** *for complete clinical instructions.*

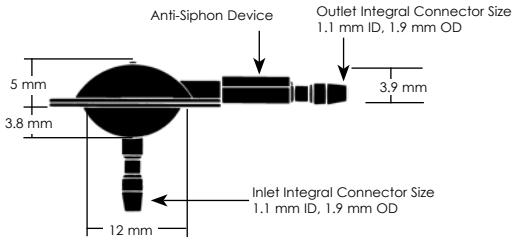


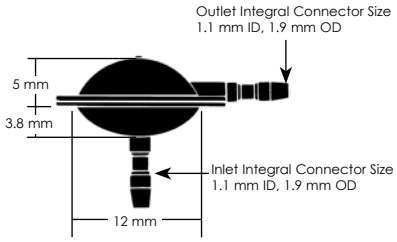




Pudenz Valve, 12mm Diameter

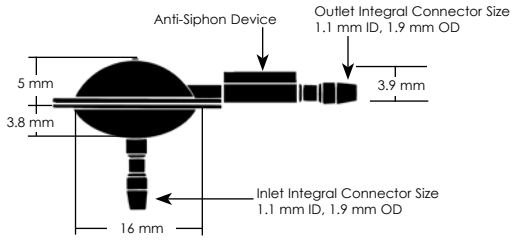
Catalog No.	Without Anti-Siphon Device	Pressure Range
NL8501331		Low
NL8501357		Medium
NL8501359		High
	With Anti-Siphon Device	**Pressure Range**
NL8501411		Low
NL8501413		Medium
NL8501415		High

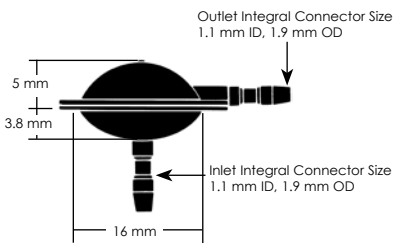




Pudenz Valve, 16mm Diameter

Catalog No.	Without Anti-Siphon Device	Pressure Range
NL8501330		Low
NL8501356		Medium
NL8501358		High
	With Anti-Siphon Device	**Pressure Range**
NL8501410		Low
NL8501412		Medium
NL8501414		High





Mishler™ Dual-Chamber Valve

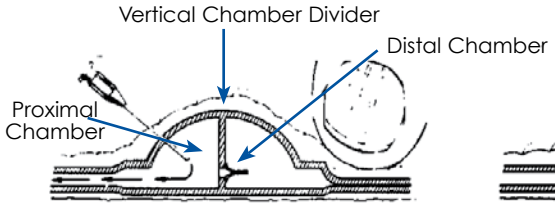
All Mishler™ Dual-Chamber Flushing Valves feature integral connectors to facilitate catheter connection, and are available in three pressure ranges.

The reservoir dome is divided by a center vertical chamber divider (*see diagram below*) that incorporates a miter valve mechanism. This design permits injections and/or flushing, both proximally and distally, simultaneously or separately.

Dot Code	Pressure Rating	Closing Pressure Range (mm of H_2O)
•	Low	15 - 54
• •	Medium	55 - 94
• • •	High	95 - 50

Flat-Bottom Configuration

Diagrams are shown here for illustration purposes only. Always refer to the relevant ***Instructions for Use*** *for complete clinical instructions.*



Percutaneous injection to the proximal (ventricular side) reservoir chamber, while occluding the distal outlet with finger pressure.

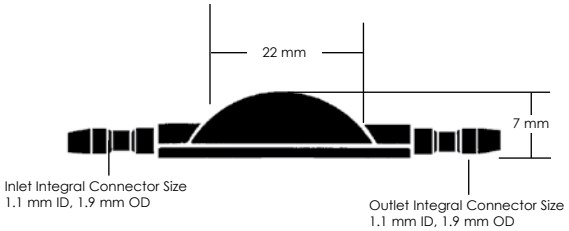
Percutaneous injection to the distal chamber. The miter valve's one-way flow control allows injected material to flow in the distal direction only.

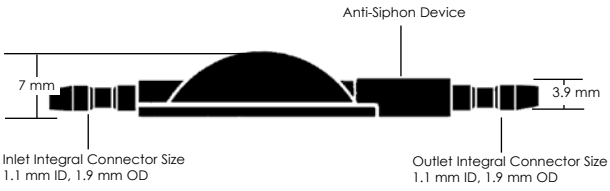
Finger pressure on the center section of the dome flushes the shunt proximally and distally.

Mishler™ Dual-Chamber Flushing Valve, Flat-Bottom

Catalog No.	Without Anti-Siphon Device	Pressure Range
NL8500311		Low
NL8500312		Medium
NL8500313		High

	With Anti-Siphon Device	Pressure Range
NL8500314		Low
NL8500315		Medium
NL8500316		High





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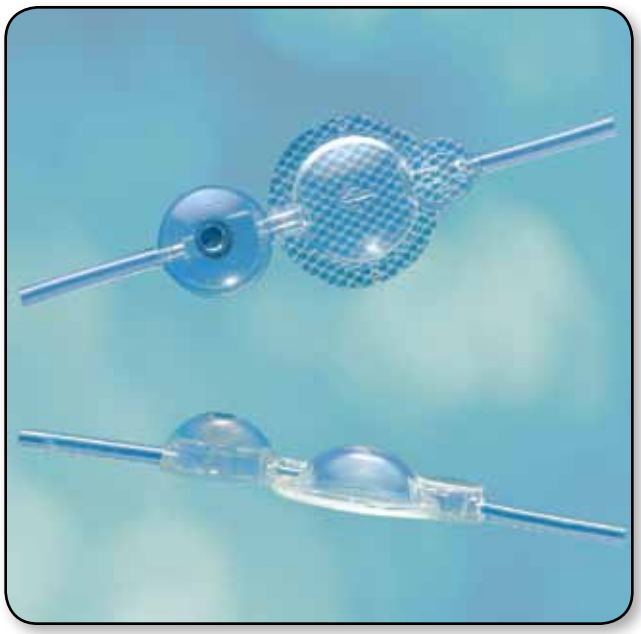
Multi-Purpose Valve

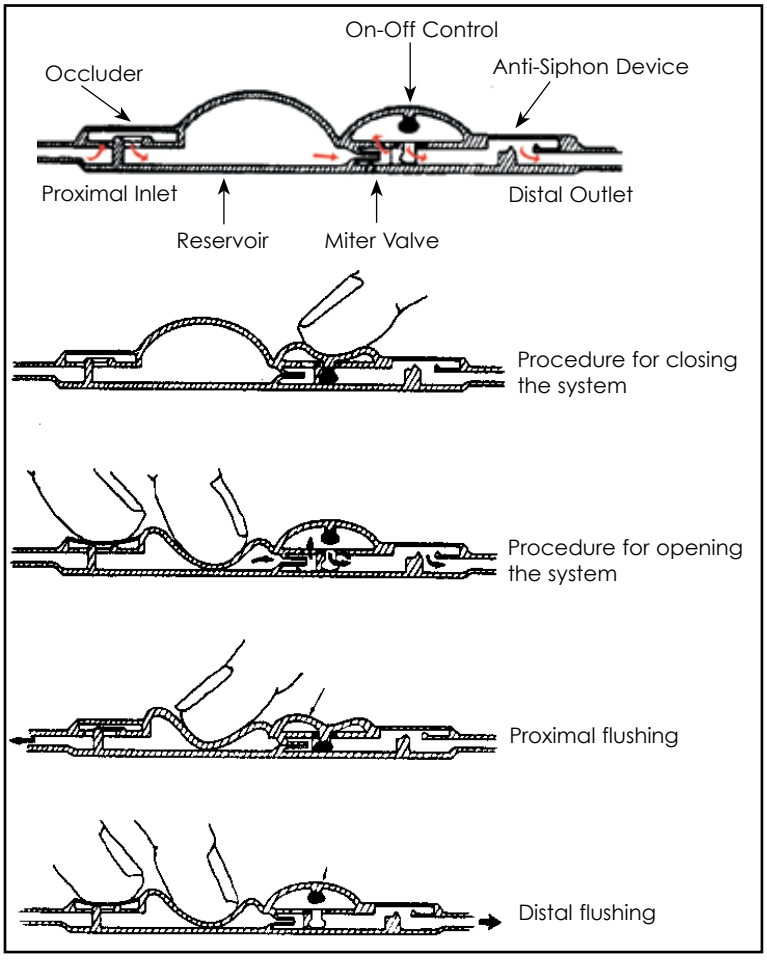


All Multi-Purpose Valves feature the exclusive On-Off Device. This integral on-off control can be utilized to monitor for shunt dependency, can assist in controlling ventricle decompression, and allows easy proximal flushing and patency testing.

An integral proximal occluder allows easy opening of on-off mechanism and facilitates distal flushing, while the in-line reservoir assists with both proximal and distal flushing and provides access for CSF sampling and fluid/medication injection.

This easy-to-use flat bottom miter valve device is available in three pressure ranges, with or without an integral Anti-Siphon Device, to meet a wide range of patient needs.

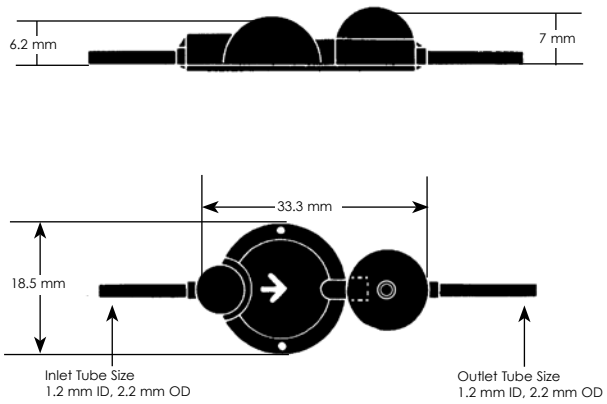
Dot Code	Pressure Rating	Closing Pressure Range (mm of H_2O)
•	Low	15 - 54
• •	Medium	55 - 94
• • •	High	95 -150



*Diagrams are shown here for illustration purposes only. Always refer to the relevant **Instructions for Use** for complete clinical instructions.*

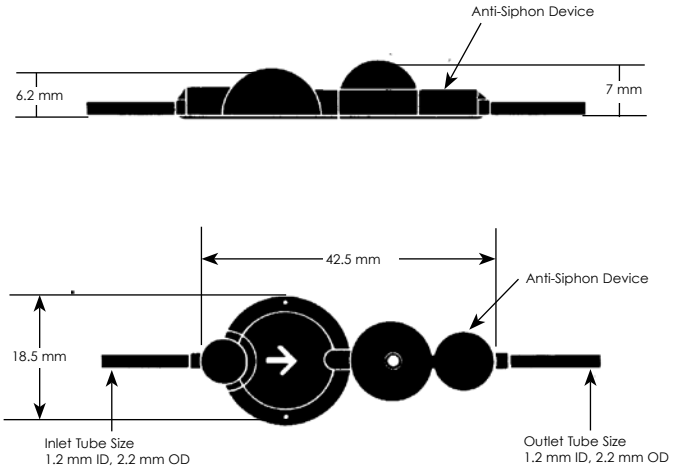
Multi-Purpose Valve

Catalog No.	Without Anti-Siphon Device	Pressure Range
NL8500125		Low
NL8500128		Medium
NL8500132		High



Multi-Purpose Valve

Catalog No.	With Anti-Siphon Device	Pressure Range
NL8500105		Low
NL8500108		Medium
NL8500112		High



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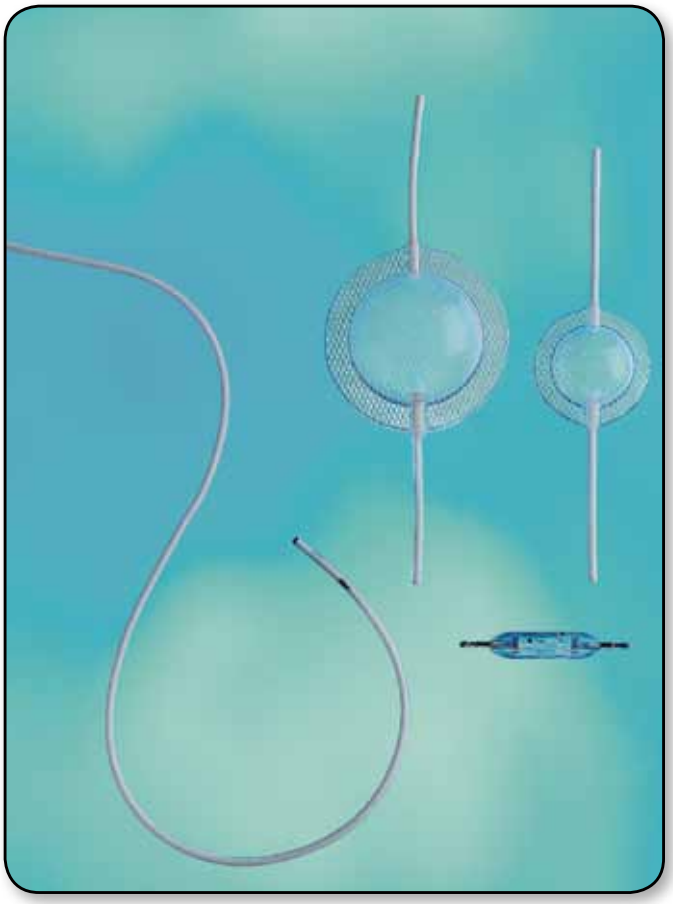
Spetzler™ Lumbar-Peritoneal Shunt Kit

Spetzler™ is the most prominent name in lumbar-peritoneal shunting products, available exclusively from Integra. The original lumbar-peritoneal shunt, designed for the treatment of communicating hydrocephalus in adults, can be inserted without a laminectomy. Pressure control is achieved through a combination of the double slit valve at the peritoneal end and the small inner diameter catheter.

Each Spetzler™ Lumbar-Peritoneal Shunt is packaged as a complete kit. Optional in-line valves and reservoirs are also available.

- **Spetzler™ Lumbar-Peritoneal Catheter Pressure Ranges**
  Catheter alone, as packaged 50-400mm H_2O

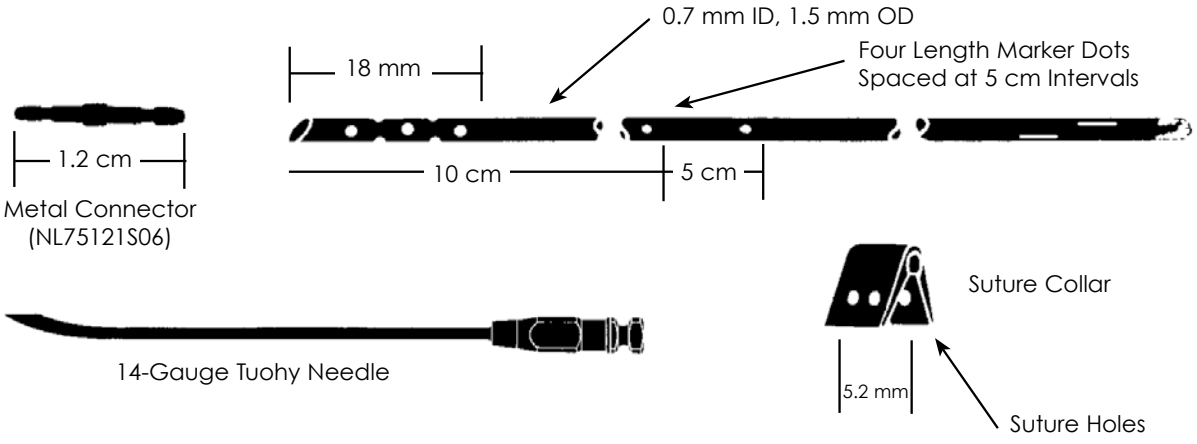


Catheter , reservoirs, and inline valves sold separately.

Catalog No.	Catheter Length	Tuohy Needle Length
NL8507210	80cm	3.5" (990003)
NL97105S01	105cm	6" (NL82059S03)

Includes:

- One (1) lumbar-peritoneal catheter
- One (1) metal connector
- One (1) 14 gauge Tuohy needle
- Three (3) suture collars

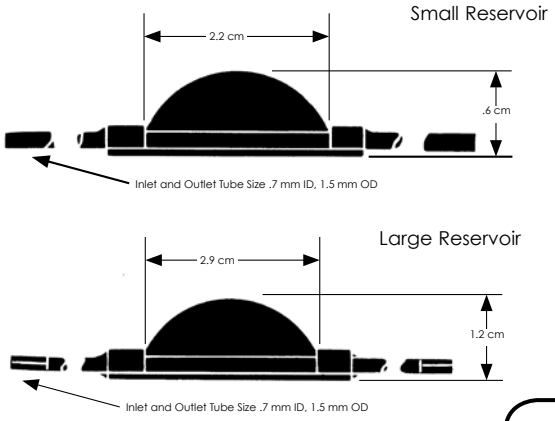


Spetzler™ Lumbar-Peritoneal CSF Reservoir

Includes:

- Two (2) metal connectors (NL75121S06)

Catalog No.	Size
NL8507440	Small
NL8507460	Large



Note: Addition of a large or small reservoir to the one-piece shunt system will add a minimum pressure of 50mm of H_2O at a flow rate of 23ml/hr.

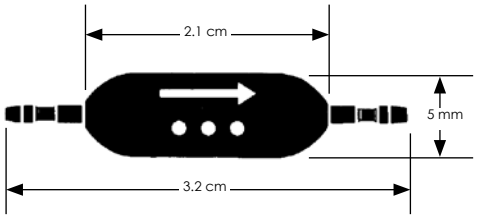
Trimming the shunt length by 20cm will result in an overall decrease in system pressure of approximately 15mm H_2O at a flow rate of 23ml/hr.

Spetzler™ Lumbar-Peritoneal In-Line Valves

Includes:

- Integral metal connectors

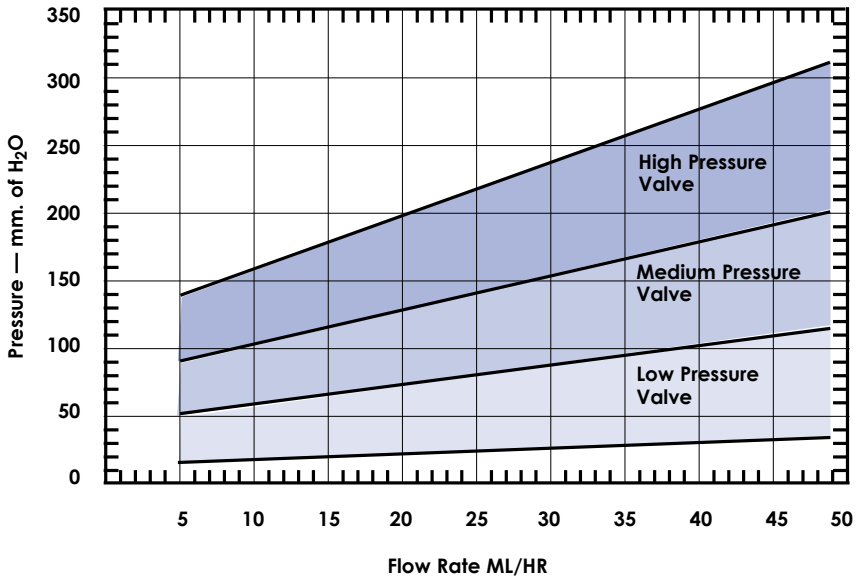
Catalog No.	Pressure Range
NL8507420	Low
NL8507421	Medium
NL8507422	High



Valve Performance Chart

	Low Pressure	Medium Pressure	High Pressure
Dot Code	•	••	•••
Differential Pressure Range @ 9 ml/hr.	mm H_2O 15-54	mm H_2O 55-94	mm H_2O 95-150
Flow/Pressure-Range			
@ 5ml/hr.	15mm H_2O	50mm H_2O	85mm H_2O
@ 50ml/hr.	115mm H_2O	200mm H_2O	310mm H_2O

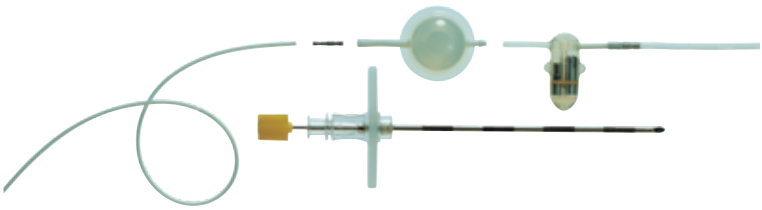
Note: Valves shown in the flow/pressure range chart are the low point of the established 5ml/hr range and the high point of the 50ml/hr range.



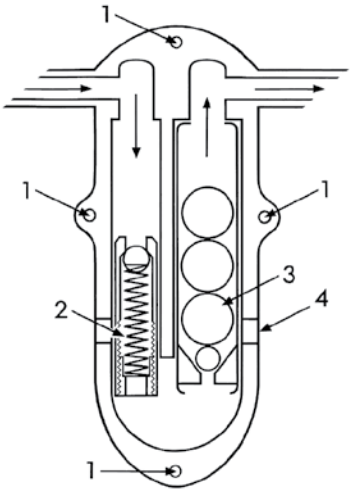
Horizontal-Vertical (H-V) Lumbar Valve System

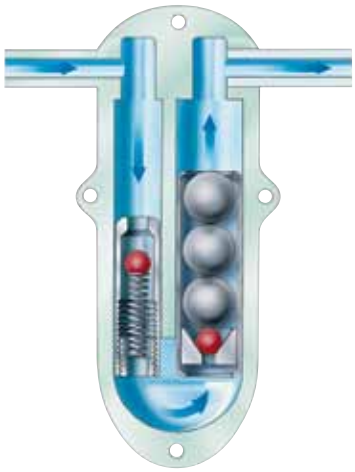
Each Horizontal-Vertical (H-V) lumbar valve system adjusts for changes in posture to maintain pressure at appropriate levels in the standing and recumbent positions.

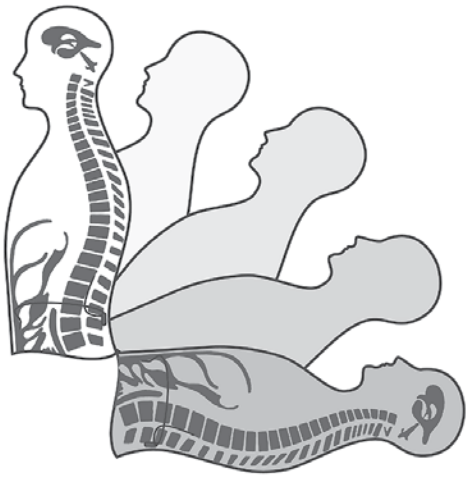
When the valve unit is horizontal, the spring-actuated, ball-in-cone inlet valve alone controls the lower pressure limit. When the valve unit is vertical, the gravity-actuated, ball-in-cone outlet valve combines with the inlet valve to control the higher pressure. Each valve unit is color-coded according to its combination of horizontal and vertical closing pressures for easy identification.



Cross Section of Valve Unit







1) Suture holes
2) Inlet valve (controls pressure in the horizontal position)
3) Outlet valve (controls pressure in the vertical position)
4) Color-coded band

Selection of Pressure Ranges

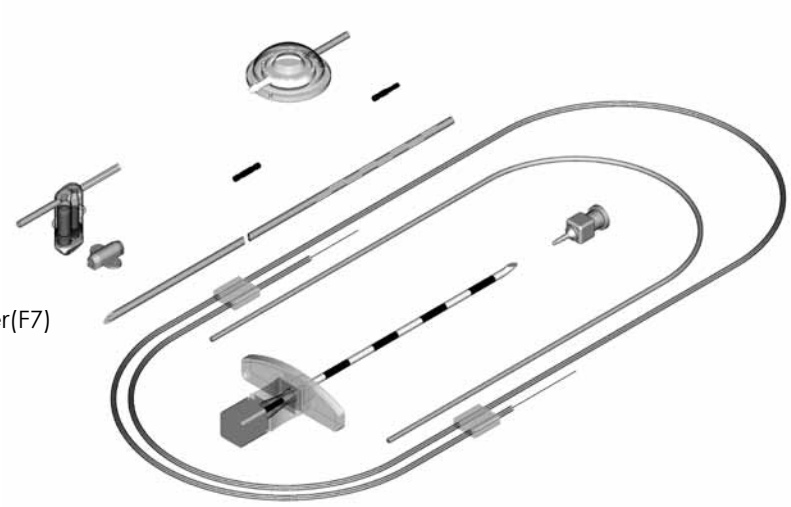
The horizontal pressure range should generally be selected according to the extent of the patient's ventricular enlargement. If ventricular enlargement is extreme, valves with lower horizontal pressure ranges are usually selected. If the degree of ventricular enlargement is minor, higher horizontal pressures are generally applied.

The vertical valve pressure should be selected on the basis of the patient's height from the base of the spine to the head *(see table on previous page)*.

Horizontal-Vertical (H-V) Lumbar Valve System

Includes:

- 2 side-by-side, ball-in-cone valves in a silicone elastomer housing
- 46cm closed tip lumbar catheter (F5)
- Suturable tubing clamp (F5)
- Stainless steel straight connector
- Stainless steel stepdown connector (F8/F5)
- 71cm open-ended, striped peritoneal catheter(F7)
- Reservoir
- Guidewire in dispenser
- 14G Tuohy needle (90mm)
- Luer Connector



- For patients with minor ventricular enlargement

Catalog No.	Closing Pressure ($mm H_2O$) Horizontal	Vertical	Color code	Suggested Application
903325A	85-125	205-285	Blue	Small children
903335A	85-125	265-365	Yellow	Tall children, adults
903345A	85-125	325-445	Green	Tall adults

- For patients with extreme ventricular enlargement

Catalog No.	Closing Pressure ($mm H_2O$) Horizontal	Vertical	Color code	Suggested Application
903320A	50-80	170-240	Red	Small children
903330A	50-80	230-320	White	Tall children, adults
903340A	50-80	290-400	Brown	Tall adults

Note on use in MRI:

A sample set of H-V Lumbar valves was pressure tested at different flow rates (60, 50, 30, 20, 10 & 5 ml/h) before being subjected to two MRI sequences*. The products were tested again after MRI exposure. Additional H-V Lumbar valves were subjected to an MRI magnetic field of 1.5 Tesla. The results of the tests indicated that exposure to MRI does not affect the pressure settings of the valves. No significant forces or temperature changes were noticed during MRI exposure.

* T1 sequence, 2'05'', 800 ms repetition time, 12 ms echo, 1.5 Tesla field.
T2 sequence, 2'34'', 3500 ms repetition time, 120 ms echo, 1.5 Tesla field.

Edwards-Barbaro Syringo-Peritoneal Shunt Kit

Edwards-Barbaro is a T-tube catheter designed to provide continuous drainage of fluid from within a spinal cord cyst (syrinx) to the peritoneum. The small T-tube diameter (approximately 5FR) minimizes the size of the myelotomy, and the "T" shape allows drainage from above and below the myelotomy site which minimizes the risk of kinking and migration. Multiple perforations reduce the chance of catheter occlusion at the spinal cord.

Edwards-Barbaro Syringo-Peritoneal Shunt Kit

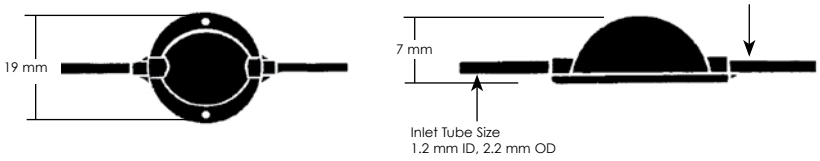
Catalog No.

NL80076S01

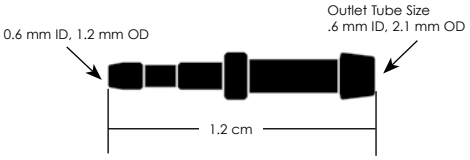
Includes:

- One (1) 25cm x 3.5cm 5FR T-tube
- One (1) 90cm peritoneal reflux control catheter
- One (1) step down connector
- One (1) Foltz CSF Reservoir (NL8501195)

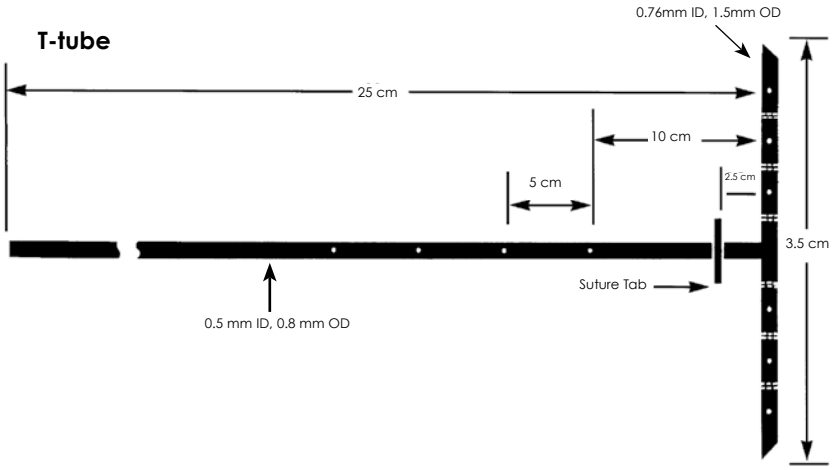
Foltz CSF Reservoir



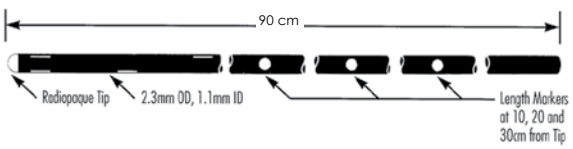
Stepdown Connector



T-tube



Peritoneal Reflux Control Catheter

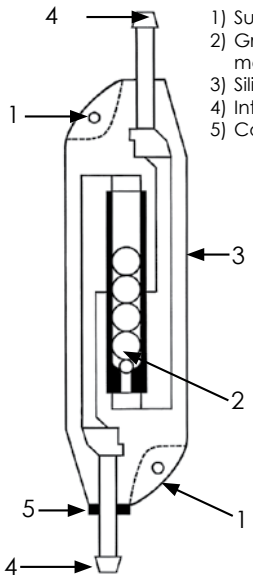


Gravity Compensating Accessory

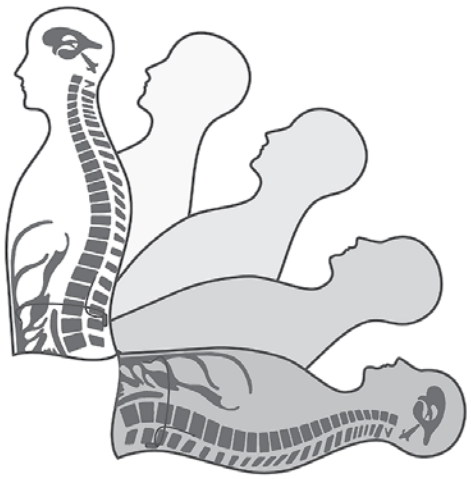
The Gravity Compensating Accessory (GCA) is designed to be mounted in line with the Integra DP™ valve or any other differential pressure valve system in order to counteract the siphoning effect of hydrostatic pressure when the patient is in the upright position.

The GCA can be used in all cases where an anti-siphon device is deemed necessary. Its operating characteristics are not dependent on its location along the shunt distal tubing and they are not sensitive to external pressure.

Cross Section Of The Gravity Compensating Accessory



1) Suture holes
2) Gravity actuated, ball-in-cone mechanism
3) Silicone elastomer housing
4) Integral plastic connectors
5) Color band



Catalog No.	Additional Resistance to flow at 5ml/h	(mm H_2O) at 50ml/h	Color	Range	Suggested Application
903430	140-170	170-200	White	Low	Children
903435	200-250	230-280	Yellow	Medium	Adults
903440	260-320	290-350	Brown	High	Tall Adults

Note on use in MRI:

The GCA is an integral component of the H-V Lumbar Valve System. A sample set of H-V Lumbar valves was pressure tested at different flow rates (60, 50, 30, 20, 10 & 5 ml/h) before being subjected to two MRI sequences*. The products were tested again after MRI exposure.

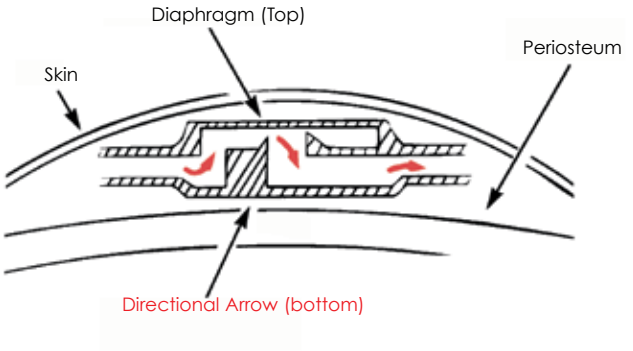
Additional H-V Lumbar valves were subjected to an MRI magnetic field of 1.5 Tesla. The results of the tests indicated that exposure to MRI does not affect the pressure settings of the valves. No significant forces or temperature changes were noticed during MRI exposure.

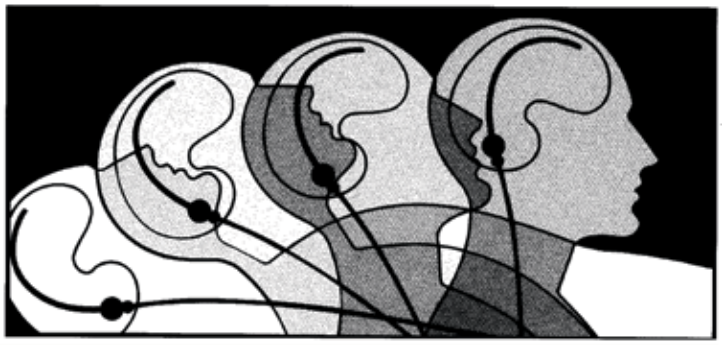
* T1 sequence, 2'05'', 800 ms repetition time, 12 ms echo, 1.5 Tesla field.
T2 sequence, 2'34'', 3500 ms repetition time, 120 ms echo, 1.5 Tesla field.

Anti-Siphon Device

The original physiologically designed siphon control mechanism, the Anti-Siphon Device, is normally open and reacts only as needed to changes in hydrostatic pressure. When a patient sits or stands, the device resists the hydraulic siphoning common to differential pressure CSF-control valves, preventing over-drainage and keeping the patient's intra-ventricular pressure within the physiological normal range. The Anti-Siphon Device may be connected in series with any flushing reservoir or proximal control valve using the connectors packaged with the device.

The Anti-Siphon Device is an integral component of many Integra valve systems.





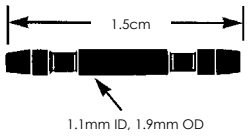
ASD minimizes siphon effect by closing as the hydrostatic pressure changes relative to patient position (standing, sitting or supine).

Catalog No.

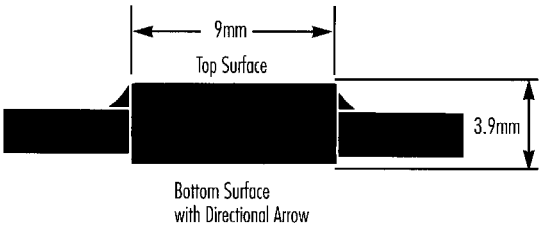
NL8500200

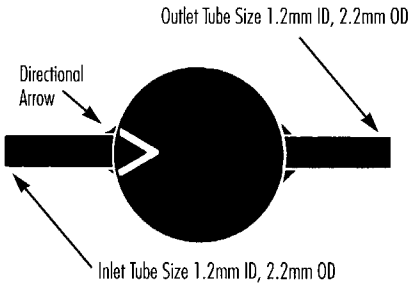
Includes:

- Two (2) Pudenz Straight Connectors (NL8501900)
- One (1) Flat bottom ASD



Anti-Siphon Device

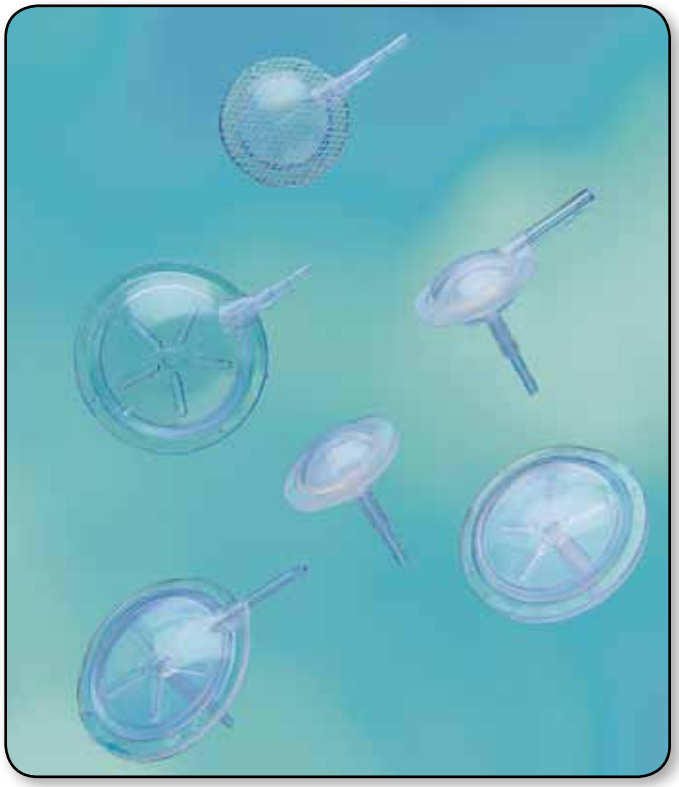




Integra™ Reservoir

Designed as a closed ventricular access system, the Integra Reservoir (formerly Ommaya) facilitates CSF withdrawal as well as delivery of radioisotopes and chemotherapeutic agents. Several models are offered, providing the flexibility to accommodate many different treatment protocols. The reservoir may also be converted to or added in-line to an existing shunt system.

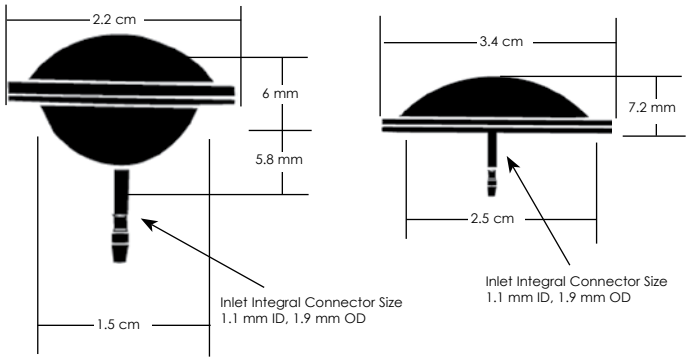
Each Standard Integra™ CSF Reservoir is packaged with a small Pudenz ventricular catheter (NL8501504, not shown).



Standard Integra Reservoir

Includes:
- Small Pudenz ventricular catheter (NL8501504, not shown)

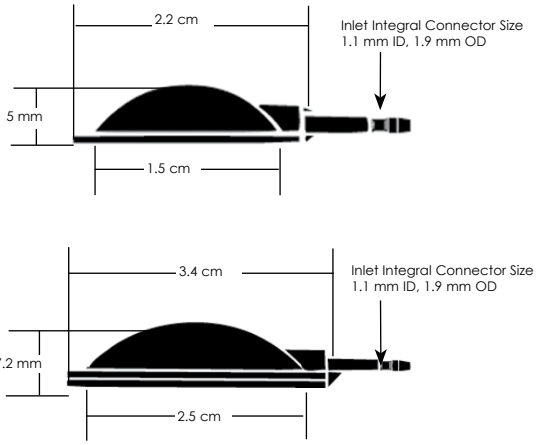
Catalog No.	Size	Style	Flushing Volume
NL8501210	1.5cm	Burr-hole	0.68ml
NL8501211	2.5cm	Flat-bottom	1.26ml



Side-Inlet Integra Reservoir

Includes:
- Small Pudenz ventricular catheter (NL8501504, not shown)
- Right-angle catheter guide (NL83024S01, not shown)

Catalog No.	Size	Style	Flushing Volume
NL8501214	1.5cm	Flat-bottom	0.31ml
NL8501212	2.5cm	Flat-bottom	1.14ml

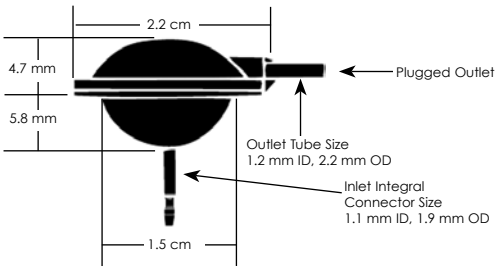


INTEGRA™ 800-997-4868 • Fax: 888-980-7742 • www.Integra-LS.com

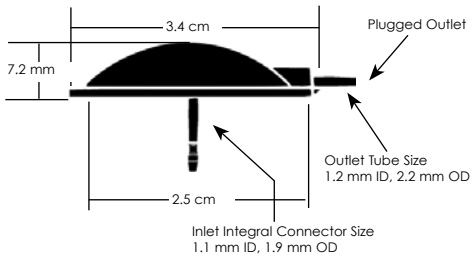
Convertible Integra Reservoir

Includes:

- Small Pudenz ventricular catheter (NL8501504, not shown)
- Right-angle catheter guide (NL83024S01, not shown)
- Plugged Distal Outlet



Catalog No.	Size	Style	Flushing Volume
NL8501215	1.5cm	Burr-hole	0.68ml
NL8501213	2.5cm	Flat-bottom	1.31ml



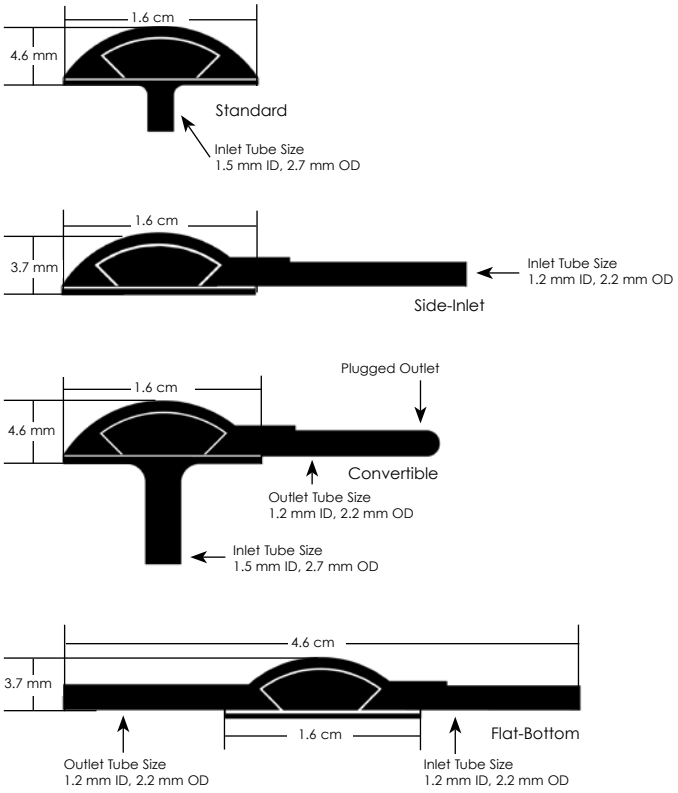
Mini Integra Reservoir

Includes:

- polypropylene straight connector
- polypropylene right-angle connector

Ventricular Catheter NOT Included

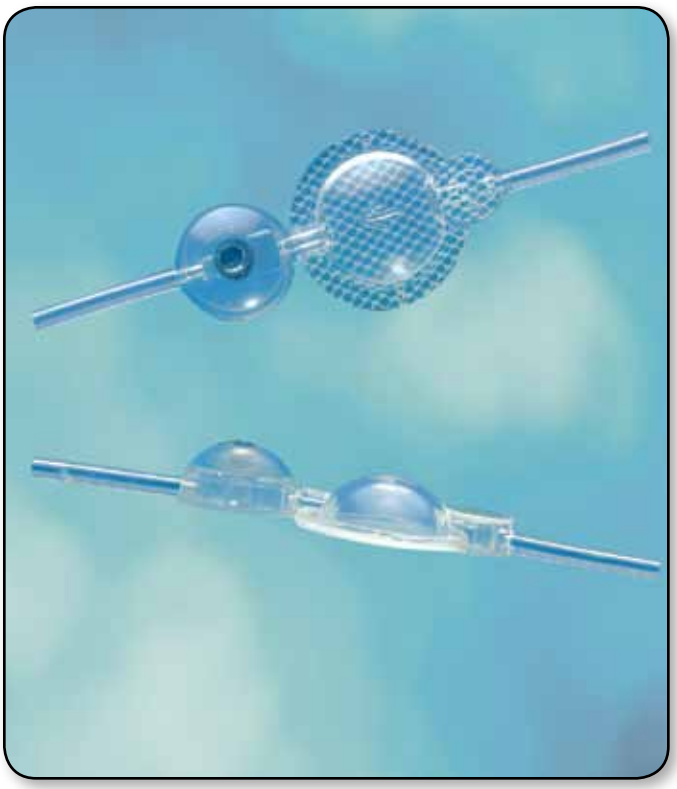
Catalog No.	Style	Flushing Volume
NL83026S01	Standard	0.14ml
NL83026S02	Side-Inlet	0.23ml
NL83026S03	Convertible	0.23ml
NL83026S04	Flat-Bottom	0.25ml



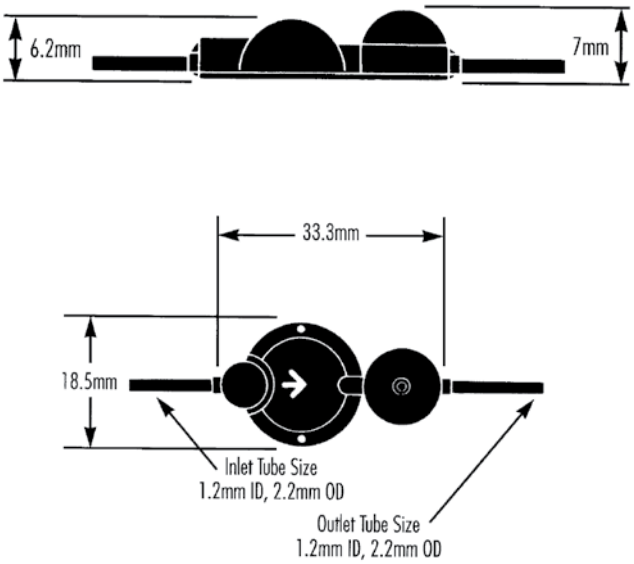
On-Off CSF Reservoirs

On-Off CSF Reservoirs feature the exclusive On-Off Device, a proximal occluder, and reinforced flat bottom. The reservoir is offered with or without an Anti-Siphon Device.

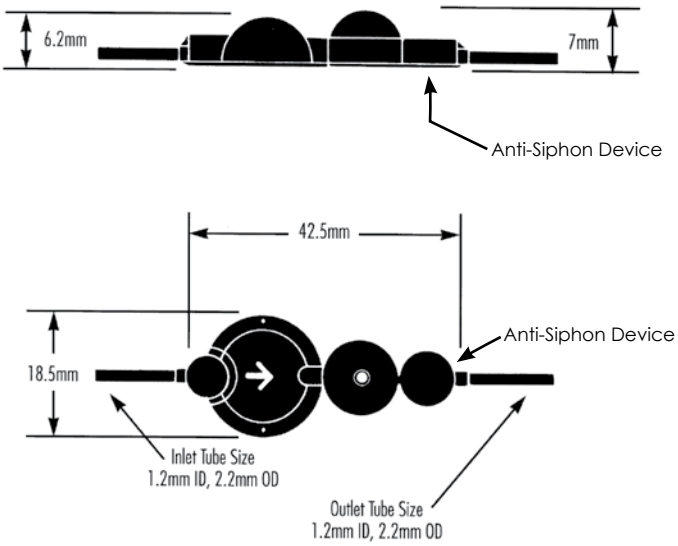
Catalog No.	Style
NL8500150	Without Anti-Siphon Device
NL8500155	With Anti-Siphon Device



On-Off CSF Reservoir



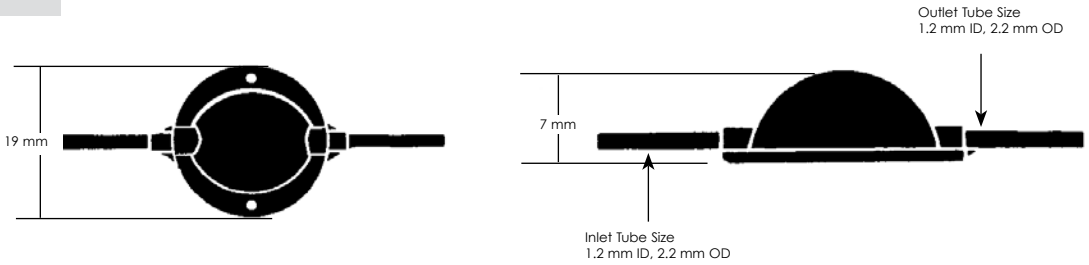
On-Off CSF Reservoir with Anti-Siphon Device



Foltz CSF Reservoir

The Foltz CSF Reservoir is a single-dome reservoir with a reinforced flat bottom.

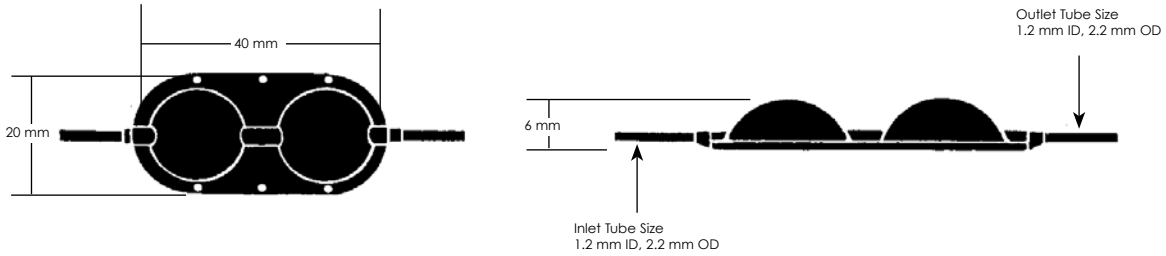
Catalog No.
NL8501195



Braden CSF Reservoir

The Braden CSF Reservoir is a flat bottom device, incorporating twin reservoir domes.

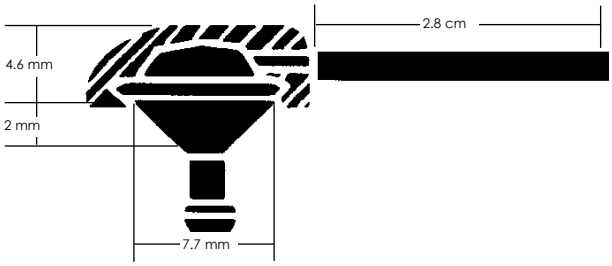
Catalog No.
NL8501192



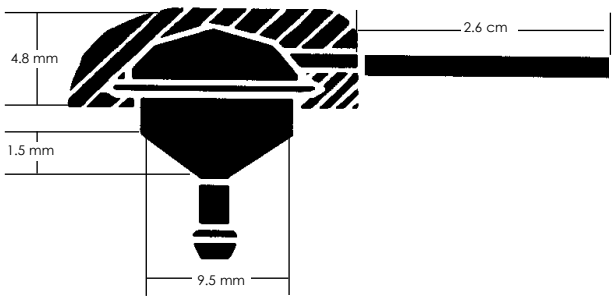
Rickham-Style CSF Reservoir

Catalog No.	Size
NL8501121	Small
NL8501132	Large

Small



Large



Burr Hole Reservoirs and Caps With X-ray Detectable Side Arms

- Burr hole reservoir
- Radiopaque silicone elastomer cap

Catalog No.

- **Diameter: 6.4mm, radiopaque polypropylene**

999110	• Regular depth 2.5mm
999111	• Shallow depth 0.8mm

- **Diameter: 6.4mm, stainless steel**

955110	• Regular depth 2.5mm
955111	• Shallow depth 0.8mm

- **Diameter: 10mm, stainless steel**

955140	• Regular depth 2.5mm
955141	• Shallow depth 0.8mm

Burr Hole Reservoirs and Caps Without Side Arms

- Burr hole reservoir
- Radiopaque silicone elastomer cap

Catalog No.

- **Diameter: 6.4mm, radiopaque polypropylene**

999112	• Regular depth 2.5mm
999113	• Shallow depth 0.8mm

- **Diameter: 6.4mm, stainless steel**

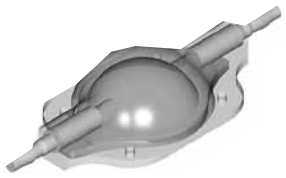
955112	• Regular depth 2.5mm
955113	• Shallow depth 0.8mm

- **Diameter: 10mm, stainless steel**

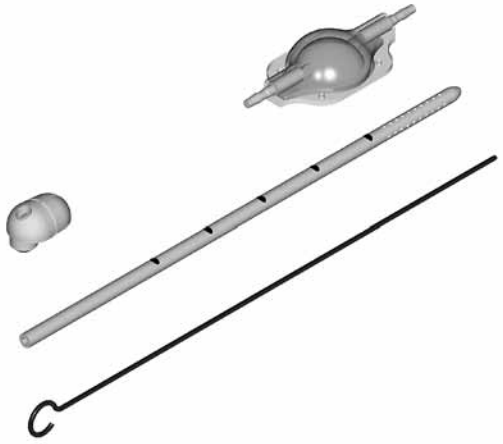
955142	• Regular depth 2.5mm
955143	• Shallow depth 0.8mm

Ventricular Antechambers

- Translucent silicone elastomer dome
- Radiopaque silicone elastomer base with 4 suture indicators
- Polysulfone needle guard
- Radiopaque polypropylene integral connectors
- Flushing volume: 0.3ml

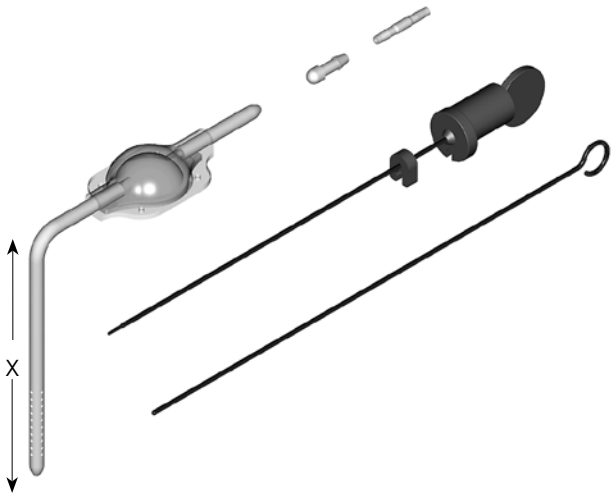


Catalog No.	Includes:
999013	• Ventricular Antechamber
999014	• Ventricular Antechamber Kit with: - 15cm straight full barium ventricular catheter (F8) with radiopaque length dots - Right angle guide - Introducing rod



Integral Ventricular Reservoirs (IVR)

- Translucent silicone elastomer dome
- Radiopaque silicone elastomer base with 4 suture indicators
- Polysulfone needle guard
- Ventricular catheter introducer and introducing rod
- Integral right angle catheter of varying lengths
- Radiopaque polypropylene straight connector and tubing plug
- Flushing volume: 0.3ml

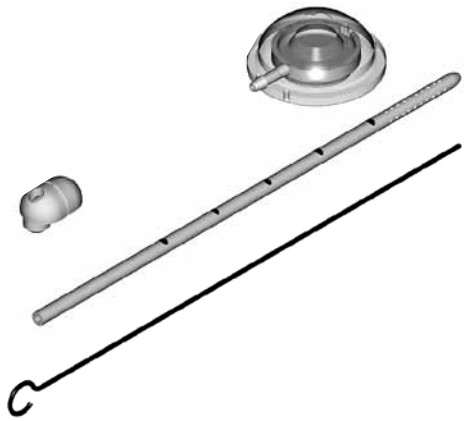


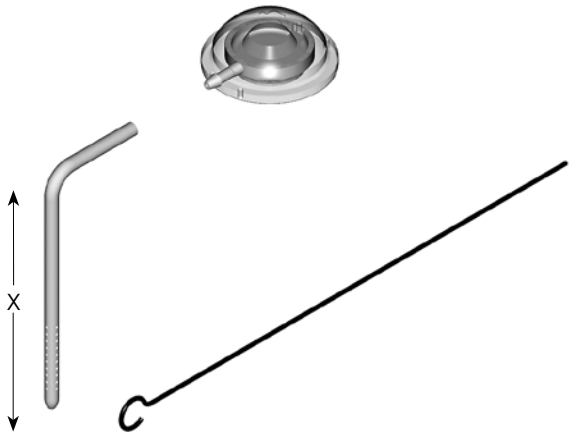
Catalog No.	Length = X
999015	3cm
999016	4cm
999017	7cm

CSF Reservoirs

- Translucent silicone elastomer dome designed to resist up to 250 punctures*
- Radiopaque polypropylene needle guard
- Flushing volume: 0.6ml
- Radiopaque polypropylene integral connector
- 4 suture indicators

Catalog No.	Includes:
999301	• CSF Reservoir
999304	• CSF Reservoir Kit with: - 15cm straight, full barium ventricular catheter (F8) - Right angle guide - Introducing rod
	• **CSF Reservoir Kit with:** - Right angle ventricular catheter (F8) - Introducing rod
999302	• Length X = 7cm
999303	• Length X = 9cm





* With a 25G needle

CSF Catheters

CSF Catheters are available in a variety of configurations:

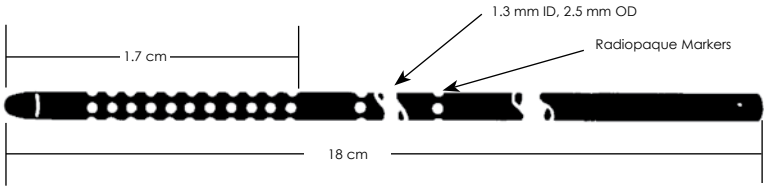
- Fully impregnated with barium for complete radiopacity or with an embedded barium radiopaque stripe
- Straight or right-angled
- Pressure-rated as well as non-pressure-rated.

Ventricular Catheters

Radiopaque tantalum markings between 4cm and 10cm intervals with larger markings at 5cm and 10cm aid in catheter placement.

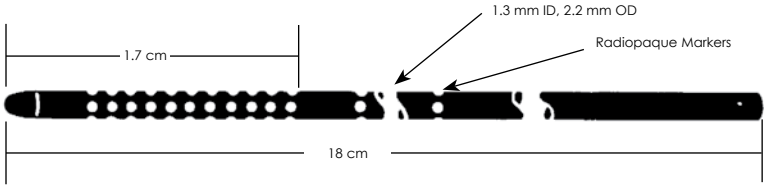
Pudenz Standard

Catalog No.	Length	Style
NL8501228	18cm	Barium Stripe



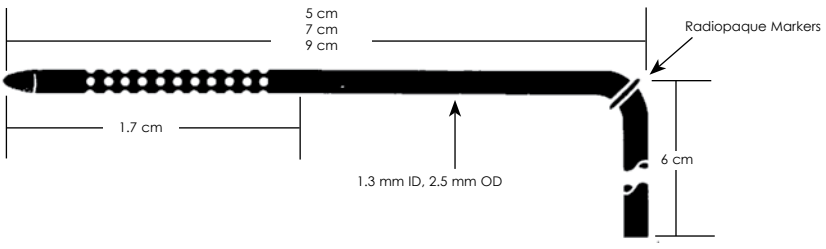
Pudenz Small

Catalog No.	Length	Style
NL8501504	18cm	Barium Stripe



Pudenz Right-Angle

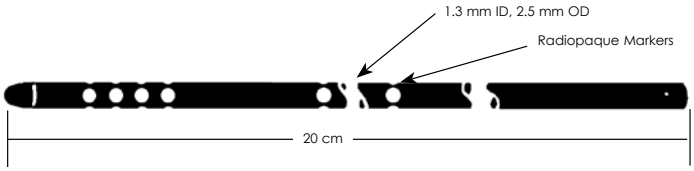
Catalog No.	Length	Style
NL8501515	5cm	Barium Stripe
NL8501517	7cm	Barium Stripe
NL8501519	9cm	Barium Stripe



Ventricular Catheter with Large Holes

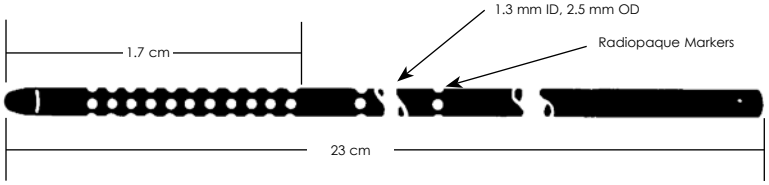
Similar to Pudenz Standard, but 20cm in length and with larger holes, 4 on each side. Tantalum markings at 5cm, 6cm, 7cm, 10cm and 15cm.

Catalog No.	Length	Style
NL96001S01	20cm	Barium Stripe



Ventricular Catheter, Large

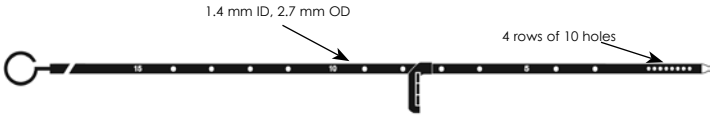
Catalog No.	Length	Style
NL99023S01	23cm	Full Barium



Ventricular Catheter with Right-Angle Guide

- F8 ventricular catheter
- Introducing rod
- Right angle guide

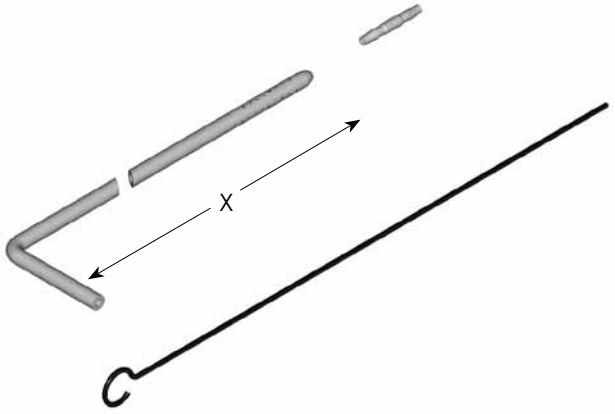
Catalog No.	Length	Style
VC1	25cm	Full Barium



Right Angle Ventricular Catheters

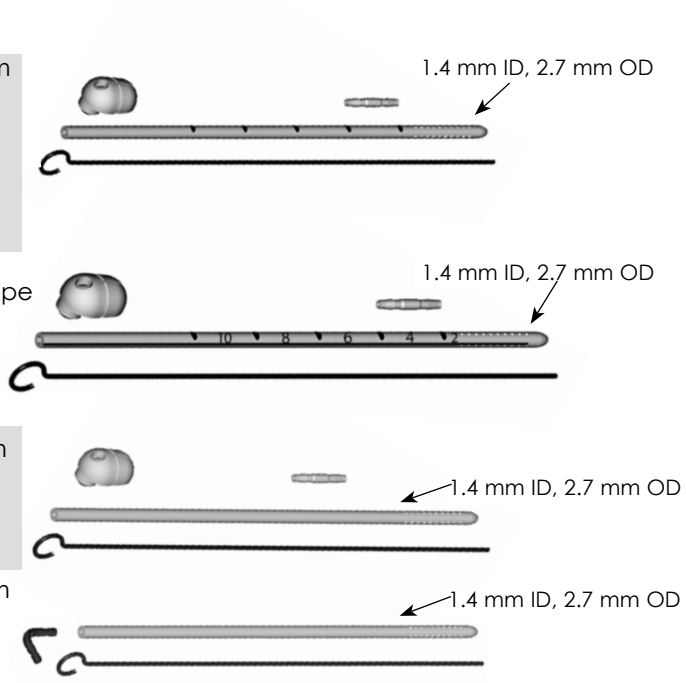
- F8 ventricular catheter
- Straight polypropylene connector
- Introducing rod

Catalog No.	Length (X)	Style
9MZ203	3cm	Full Barium
9MZ204	4cm	Full Barium
9MZ205	5cm	Full Barium
9MZ206	6cm	Full Barium
9MZ207	7cm	Full Barium
9MZ208	8cm	Full Barium
9MZ209	9cm	Full Barium
9MZ210	10cm	Full Barium
9MZ211	11cm	Full Barium



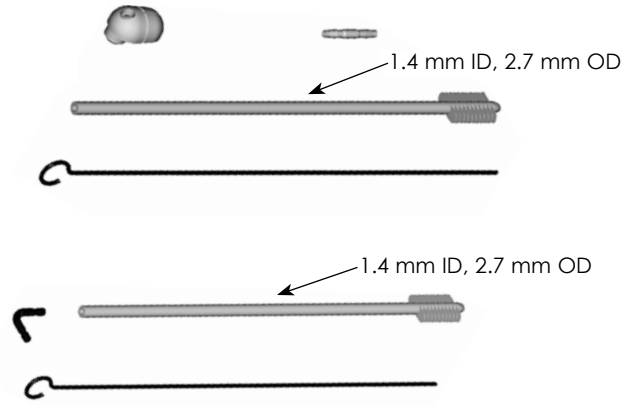
Ventricular Catheters-15cm

Catalog No.	Includes:	Style
9MD102A	• Radiopaque length dots every 2cm up to 10cm from tip • Straight polypropylene connector • Right angle guide • Introducing rod	Full Barium
9MD102B	• Accuracy™ Catheter • Radio opaque numbers and dots every 1cm up to 11cm from tip	Barium Stripe
951102A	• Straight polypropylene connector • Right angle guide • Introducing rod	Full Barium
951102	• Stainless steel, right angle connector • Introducing rod	Full Barium



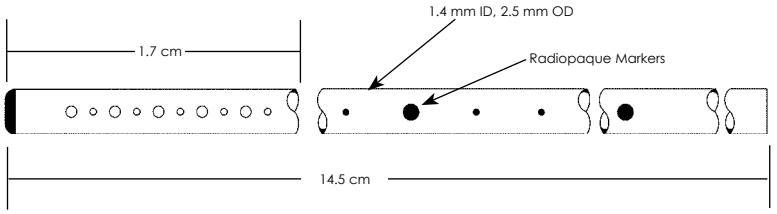
Finned Ventricular Catheter-15cm

Catalog No.	Includes:	Style
951101A	• Straight polypropylene connector • Right angle guide • Introducing rod	Full Barium
951102A	• Strainless steel right angle connector • Introducing rod	Full Barium



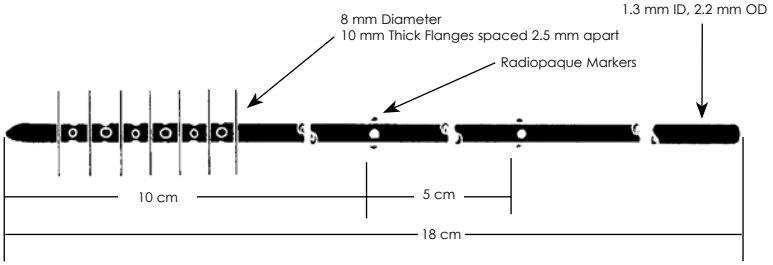
NeuroView™ Endoscopic

Catalog No.	Length	Style
NL8501328	14.5cm	Barium Stripe, Slit-tip



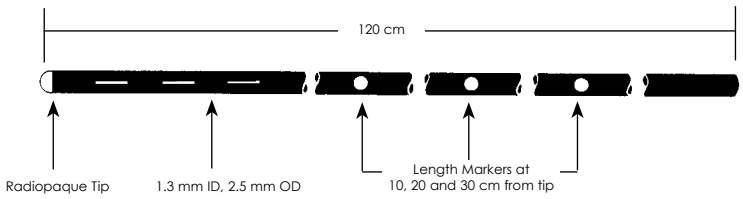
Portnoy Flanged

Catalog No.	Length	Style
NL8501229	18cm	Full Barium, Flanged



Reflux Control

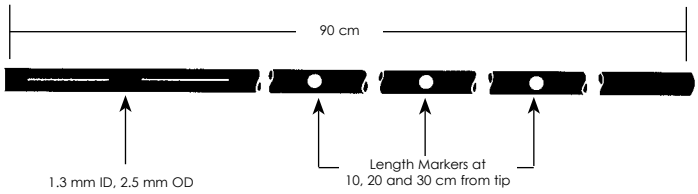
Catalog No.	Length	Style
NL8501375	120cm	Barium Stripe



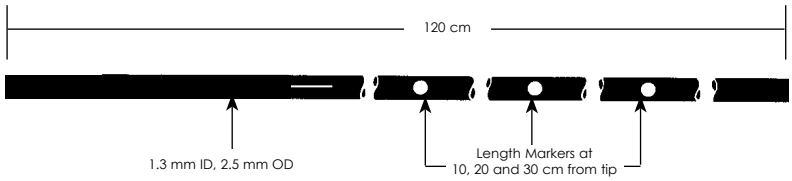
Open-Ended with Slits

Catalog No.	Length	Style
NL8501376	120cm	Barium Stripe
NL98003S01	90cm	Barium Stripe
PC1	90cm	Barium Stripe
953101	91cm	Barium Stripe
9MZ101	91cm	Full Barium
9MZ110N	110cm	Barium Stripe, No Slits

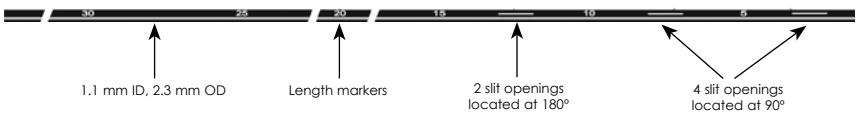
NL98003S01



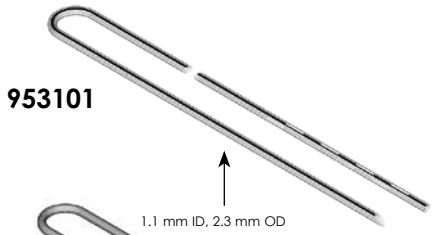
NL8501376



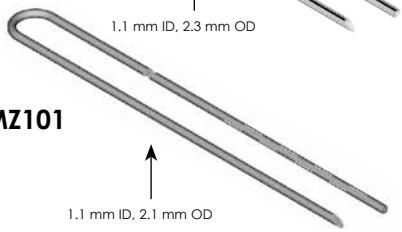
PC1



953101

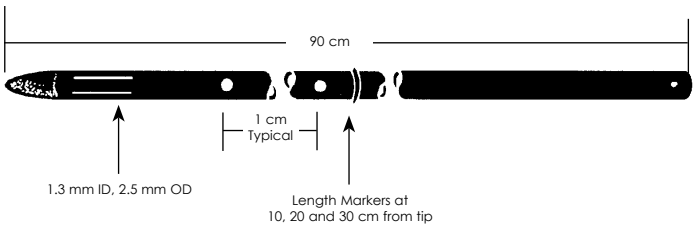


9MZ101



Pudenz Pressure Rated Catheters

Catalog No.	Length	Style	Pressure Range
NL8501380	90cm	Barium Stripe	Low
NL8501381	90cm	Barium Stripe	Medium
NL8501382	90cm	Barium Stripe	High



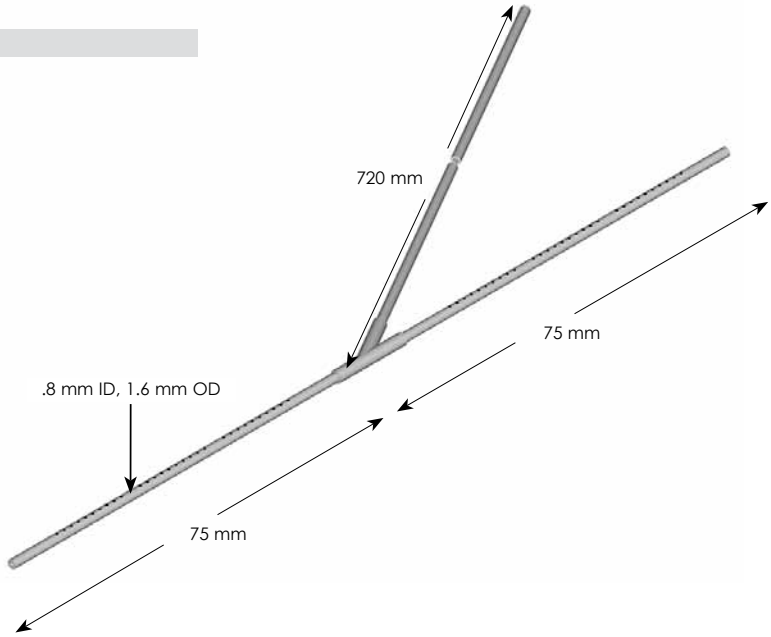
Dot Code	Pressure Rating	Differential Pressure Range (mm of H_2O)
•	Low	15 - 54
• •	Medium	55 - 94
• • •	High	95 - 150

Y-lumbar Catheter

- Radiopaque silicone elastomer catheter (720mm, F5)
- 2 open-ended, proximal branches (75mm, F5) with 3 series of 10 holes
- Open distal outlet
- Suturable tubing clamp for F5 catheters
- Radiopaque polypropylene F8/F5 stepdown connector

Catalog No.

951103



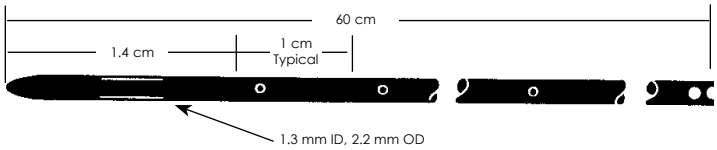
Atrial (Cardiac) Catheters

All atrial catheters feature conical tips to ease insertion. Standard and infant models are available in three pressure ranges for distal control, eliminating the need for a proximal valve. The infant model offers a reduced-diameter distal end to aid penetration of small vessels without trauma.

Dot Code	Pressure Rating	Differential Pressure Range (mm of H_2O)
•	Low	15 - 54
• •	Medium	55 - 94
• • •	High	95 - 150

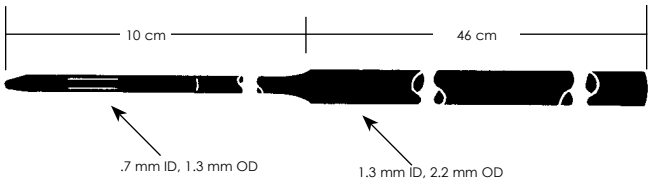
Pudenz Standard

Catalog No.	Length	Style	Pressure Range
NL8501201	60cm	Barium Stripe	Low
NL8501200	60cm	Barium Stripe	Medium
NL8501202	60cm	Barium Stripe	High



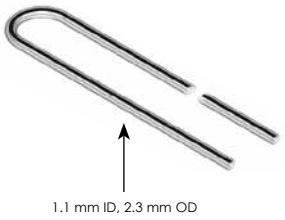
Pudenz Infant

Catalog No.	Length	Style	Pressure Range
NL8501221	56cm	Barium Stripe	Low
NL8501220	56cm	Barium Stripe	Medium
NL8501222	56cm	Barium Stripe	High

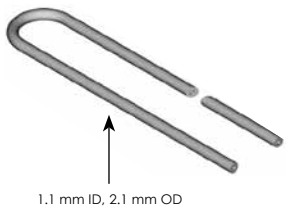


Atrial Catheters

Catalog No.	Length	Style
953100	46cm	Barium Stripe
9MZ100	46cm	Full Barium



953100

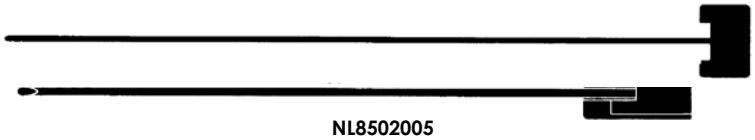


9MZ100

Catheter Passers and Introducers

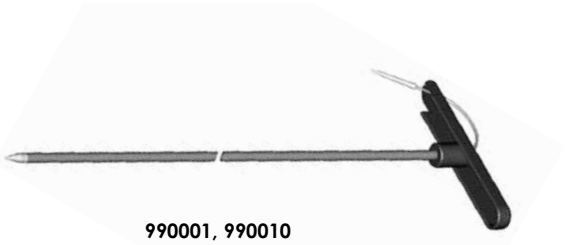
Catalog No.	Includes:
NL8502001	Disposable Peritoneal Catheter Passer, 60cm (box of 6)
NL8502002	Disposable Peritoneal Catheter Passer, 36cm (box of 6), *not shown*
NL8502005	Ventricular Catheter Introducer for One-Piece Shunt
RN8502070	Peritoneal Catheter Passer, 38cm
NL7801301	Stylet for 18cm Ventricular Catheter packaged non-sterile
990001	Malleable shunt tunneler, 45cm: ID 3.5mm (box of 5)
990010	Malleable shunt tunneler, 65cm ID: 3.5mm (box of 5)

NL8502001



NL8502005

RN8502070

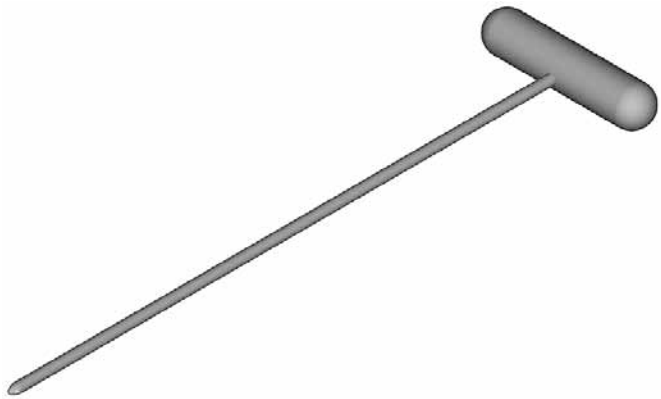


990001, 990010

Reusable Peritoneal Introducers

- Stainless steel
- Non sterile (multiple use)

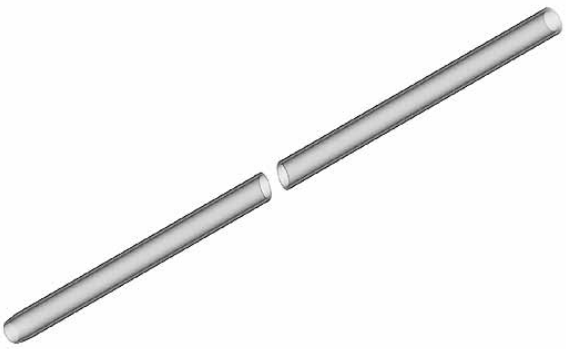
Catalog No.	Length
901212	31cm
901218	46cm
901224	61cm
9MD270	70cm



Replacement Peritoneal Introducer Sheaths

- Translucent polypropylene
- 5 sterile units per box (single use)

Catalog No.	Length
990012	31cm
901118	46cm
901124	61cm
9MD170	70cm



Plastic Subcutaneous Tube Passer

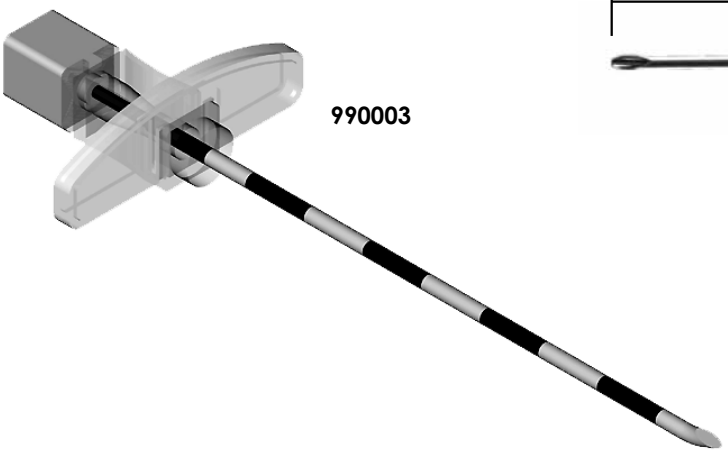
- For F8 or 2.7mm OD, 15cm length tube
- Polypropylene
- Sterile

Catalog No.	Includes:
9MD2101	• Tube Passer for Pediatric Integra DP Valves

Tuohy Needle

Packaged Sterile

Catalog No.	Includes:
990003	Tuohy Needle, 14G, 9cm, thin wall, with snap on wings
NL82059S03	Tuohy Needle, 14G, 15.2cm



990003

NL82059S03

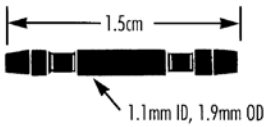
Shunt Accessories

Integra offers a variety of disposable accessories, including catheter connectors, guides, passers and introducers. All connectors and guides are packaged sterile.

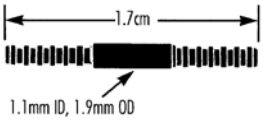
Catheter Connectors and Guides

Catalog No.	Includes:
NL8501900	Pudenz Straight Connector (Nylon)
NL8501902	Pudenz Right-Angle Connector (Nylon)
NL8501908	Pudenz Three-Way ("Y") Connector, (Silicone elastomer and Nylon)
NL8501911	Threaded Straight Connector (Nylon)
NL8501913	Threaded Right-Angle Connector (Nylon)
NL8501919	Double-Threaded Straight Connector (Nylon)
NL86004S01	Stepdown Connector (Stainless steel)
NL83024S01	Right-Angle Ventricular Catheter Guide (Silicone with barium sulfate)
NL75121S06	Metal Connector for Lumbar-Peritoneal Shunt
NL97001S01	Luer Connector (Polycarbonate)
991002	Right Angle Guide (5 per box) (Silicone with barium sulfate)
999004	Suturable Tubing Clamp for F7 catheters (5 per box) (Silicone with barium sulfate)
999005	Suturable Tubing Clamp for F5 catheters (5 per box) (Silicone with barium sulfate)
999007	Suturable Tubing Clamp for F8 catheters (5 per box) (Silicone with barium sulfate)

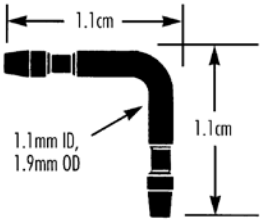
Pudenz Straight Connector



Double-Threaded Straight Connector



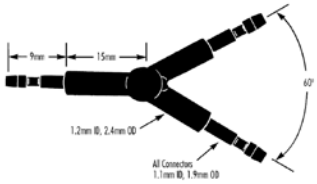
Pudenz Right-Angle Connector



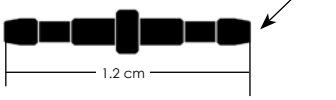
Stepdown Connector

Ventricular Catheter Guide

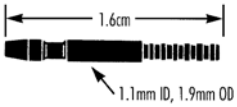
Pudenz Three-Way Connector



Metal Connector



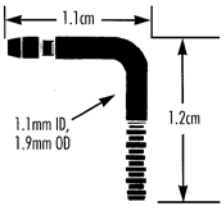
Threaded Straight Connector



Luer Connector

Right Angle Guide

Threaded Right-Angle Connector

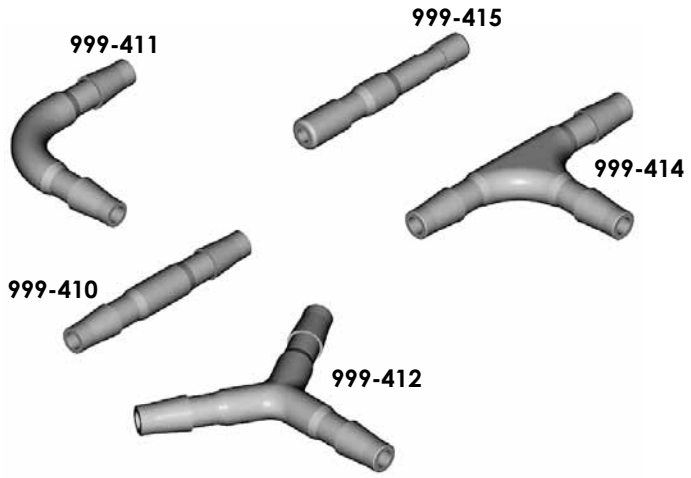


Suturable Tubing Clamp

Radiopaque Polypropylene Connectors

- OD: 2.0mm; ID: 1.0mm
- 5 sterile units per box

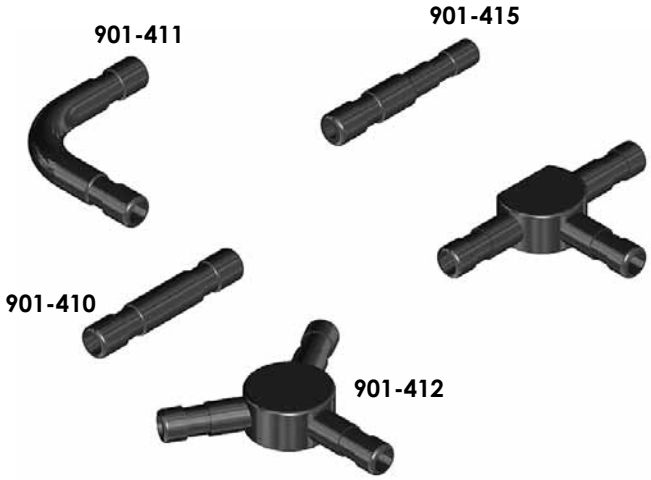
Catalog No.	Includes:
999410	• Straight
999411	• Right angle
999412	• "Y"
999414	• "T"
999415	• Stepdown (F8 to F5), OD: 1.8-1.5mm; ID: 0.8mm



Stainless Steel Connectors

- OD: 1.8mm; ID: 1.2mm
- 5 sterile units per box

Catalog No.	Includes:
901410	• Straight
901411	• Right angle
901412	• "Y"
901414	• "T"
901415	• Stepdown (F8 to F5), OD: 1.8-1.5mm; ID: 0.8mm

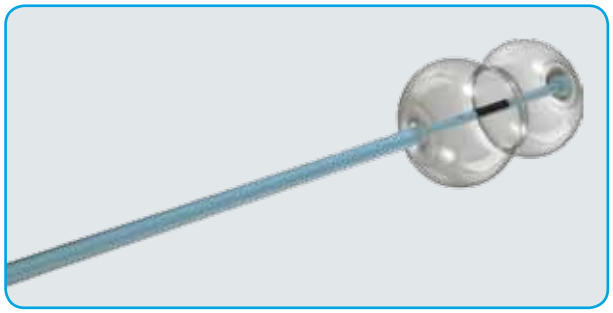


NeuroBalloon™ Catheter

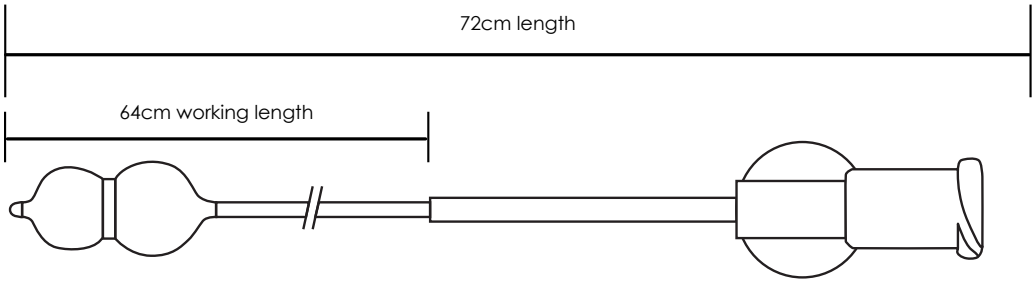
NeuroBalloon™ catheter

The NeuroBalloon™ Catheter is designed for dilation of pre-punctured cerebral membrane fenestations such as Endoscopic Third Ventriculostomies (ETVs).

The unique double balloon assures quick, simple, and accurate positioning. The dilation of the membrane can be observed through the transparent silicone material of the NeuroBalloon's catheter, allowing maximum control. This accurate positioning is especially important during ETVs to avoid damage to critical structures such as the basilar artery.



Catalog No.	Includes:
7CBD10	• Polyurethane catheter with integral female luer lock connector, attached transparent silicone double balloon • 1ml (1cc) syringe



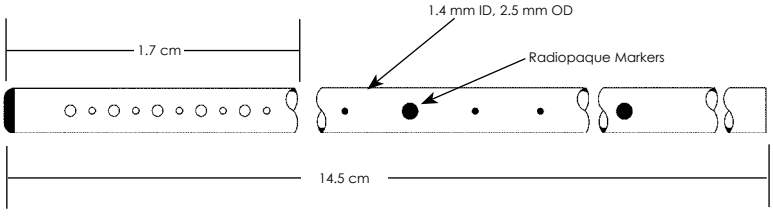
Black ink mark at waist of double balloon

Diameter when deflated allows compatibility with 4 French working channels (1.35mm)
Diameter of the waist after a pre-inflation with 1.0ml (1.0cc):
When inflated with 0.6ml (0.6cc): 3.5mm minimum
When inflated with 1.0ml (1.0cc): 6.0mm maximum

1ml syringe

NeuroView™ Endoscopic Catheter

Catalog No.	Length	Style
NL8501328	14.5cm	Barium Stripe, Slit-tip



Cortical Strip Electrodes
Cortical Grid Electrodes
Depth Electrodes
Peg Electrodes
Sphenoidal Electrodes
Cortical Stimulator

Brain Mapping

Pricing:
Prices stated in specific written quotations are firm for thirty days from the date given, and are otherwise subject to change without prior notice. Pricing terms stated on written agreements are governed by such agreements.

Minimum Order Requirements:
Minimum order requirement is $100 (a $10 handling charge will be added to any order under $100). For partial case orders, contact the Customer Service Department for quotation.

Shipments:
F.O.B. Integra NeuroSciences point of shipment within the continental United States. Shipping costs (including freight and insurance), shall be prepaid by Integra and invoiced to customers.

Ordering Procedure:
A written purchase order on customer's form may be requested for purchases of Integra NeuroSciences products.

Acceptance of Orders:
Orders are accepted upon approval by Integra in Plainsboro, New Jersey.

Return Policy:

- Authorization, from customer service, must be obtained prior to returning product.
- Sterile product must be returned in unopened, undamaged cartons, packed to prevent damage.
- Non-sterile product must be returned in unused saleable condition in original package.
- Custom or special order products will not be accepted for credit.
- Credit will be issued for goods returned prior to ninety days from ship date with a 20% restocking charge. This assumes that the product returned is not damaged and can be verified to have not been used or opened.

Customer Service Contact Information
311 Enterprise Drive
Plainsboro, New Jersey 08536 USA

USA and Canada
800-997-4868
609-936-5400 (outside the USA)
888-980-7742 (Fax)

England
+44 (0) 1264 345 700
+44 (0) 1264 332 113

France
+33 (0) 493 95 56 00
+33 (0) 493 95 56 60 (Fax)

Germany
0800 10 10 755
06995 775 477 (Fax)

Integra Limited Warranty

INTEGRA LIFESCIENCES CORPORATION ("INTEGRA") warrants to the original purchaser only that each new INTEGRA product is free from manufacturing defects in material and workmanship under normal use and service for a period of one (1) year (except as otherwise expressly provided as to accessory items) from the date of delivery by INTEGRA to the first purchaser, but in no event beyond the expiration date stated on any product labeling.

- Surgical instruments are guaranteed to be free from defects in material and workmanship when maintained and cleaned properly and used normally for their intended purpose.
- Any covered product that is placed by INTEGRA under a lease, rental or installment purchase agreement and that requires repair service during the term of such placement agreement shall be repaired in accordance with the terms of such agreement.

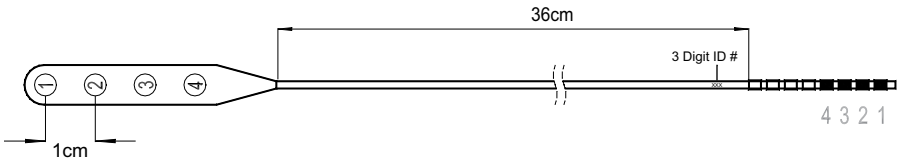
If any covered defect occurs during the warranty period or term of such placement agreement, the purchaser should communicate directly with INTEGRA's home office. If purchaser seeks to invoke the terms of this warranty, the product must be returned to INTEGRA at its home office. The defective product should be returned promptly, properly packaged and postage prepaid. Loss or damage in return shipment to INTEGRA shall be at CUSTOMER's risk. INTEGRA's sole responsibility under this warranty shall be repair or replacement, at INTEGRA's sole discretion at INTEGRA's expense, subject to the terms of this warranty and applicable agreements.

IN NO EVENT SHALL INTEGRA BE LIABLE FOR ANY INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES IN CONNECTION WITH THE ACQUISITION OR USE OF ANY INTEGRA PRODUCT. Further, this warranty shall not apply to, and INTEGRA shall not be responsible for, any loss arising in connection with the purchase or use of any INTEGRA product that has been repaired by anyone other than an authorized INTEGRA service representative or altered in any way so as, in INTEGRA's judgment, to affect its stability or reliability, or which has been subject to misuse, negligence or accident, or which has been used otherwise than in accordance with the instructions furnished by INTEGRA. THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON INTEGRA'S PART, AND INTEGRA NEITHER ASSUMES NOR AUTHORIZES ANY REPRESENTATIVE OR OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH INTEGRA'S PRODUCTS.

INTEGRA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTY ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, USAGE OR TRADE OR OTHERWISE, OR APPLICATION OR WARRANTY OF QUALITY AS WELL AS ANY EXPRESS OR IMPLIED WARRANTY TO PATIENTS. No warranty or guarantee may be created by any act or statement nor may this Standard Warranty be modified in any way, except as a result of a writing signed by an officer of INTEGRA. These limitations on the creation or modification of this warranty may not be waived or modified orally or by any conduct.

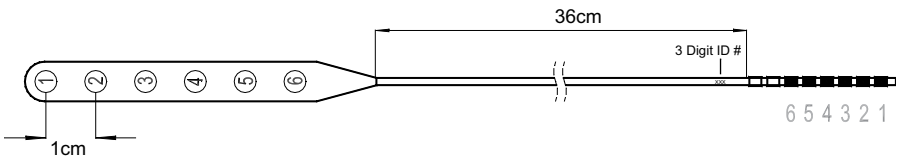
Cortical Strip Electrode with Cylindrical Connector

Integra Epilepsy™ cortical strip electrodes are extra thin and flexible to facilitate intracranial placement through a burr hole. The narrow cylindrical connector design simplifies tunneling, using a 14G tunneling needle, and enables quick and secure attachment to the patented connection system. They are available with implant grade stainless steel or platinum contacts. Contacts are dimpled for maximum contact with cortex.



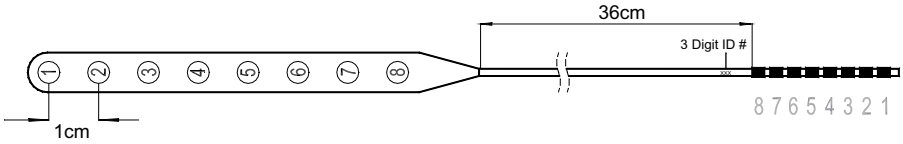
4 Contact Electrode

Catalog No.	Specifications
16166S04	• 4 Stainless Steel Contacts • Cable: ECCF4 or ECCFS04
AU1X4P	• 4 Platinum Contacts • Cable: ECCF4 or ECCFS04



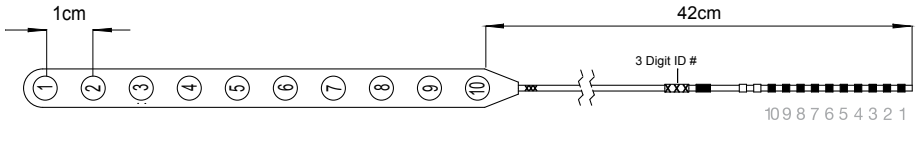
6 Contact Electrode

Catalog No.	Specifications
16166S06	• 6 Stainless Steel Contacts • Cable: ECCF6 or ECCFS06
AU1XCP	• 6 Platinum Contacts • Cable: ECCF6 or ECCFS06



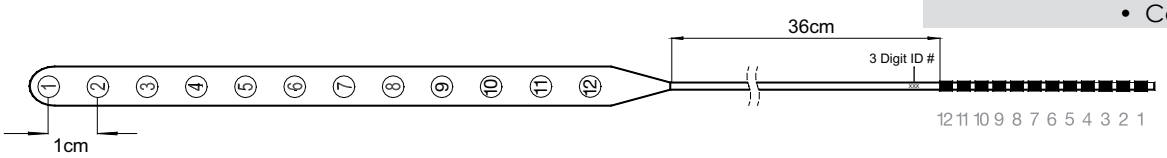
8 Contact Electrode

Catalog No.	Specifications
16166S08	• 8 Stainless Steel Contacts • Cable: ECCF8 or ECCFS08
AU1X8P	• 8 Platinum Contacts • Cable: ECCF8 or ECCFS08



10 Contact Electrode

Catalog No.	Specifications
16166S10	• 10 Stainless Steel Contacts • Cable: ECCF12 or ECCFS12
AU1X10P	• 10 Platinum Contacts • Cable: ECCF12 or ECCFS12



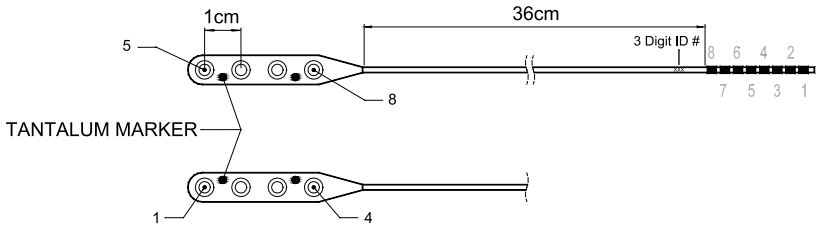
12 Contact Electrode

Catalog No.	Specifications
AU1X12P	• 12 Platinum Contacts • Cable: ECCF12 or ECCFS12

Dual-Sided Cortical Strip Electrode with Cylindrical Connector

8 Contact Electrode

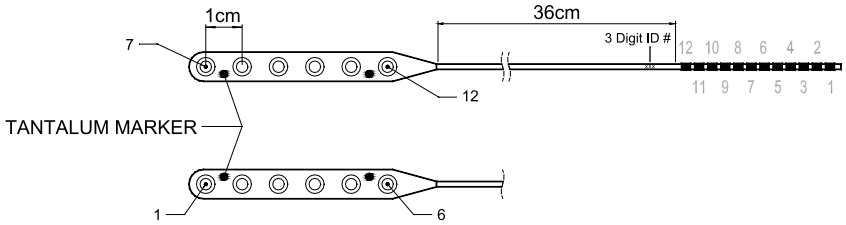
Catalog No.	Specifications
16166SD08	• 8 Stainless Steel Contacts • Cable: ECCF8 or ECCFS08
AU1X4PO	• 8 Platinum Contacts • Cable: ECCF8 or ECCFS08



Contact exposures are shown facing up

12 Contact Electrode

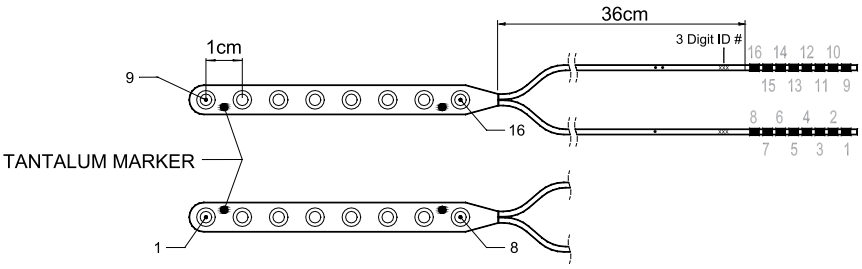
Catalog No.	Specifications
16166SD12	• 12 Stainless Steel Contacts • Cable: ECCF12 or ECCFS12
AU1X6PD	• 12 Platinum Contacts • Cable: ECCF12 or ECCFS12



Contact exposures are shown facing up

16 Contact Electrode

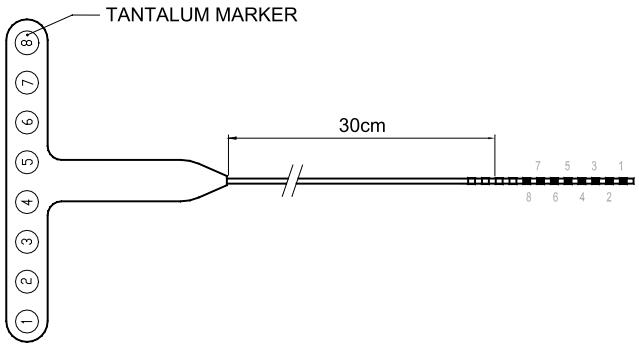
Catalog No.	Specifications
16166SD16	• 16 Stainless Steel Contacts • Cable: ECCF16 or ECCFS16
AU1X8PD	• 16 Platinum Contacts • Cable: ECCF16 or ECCFS16



Contact exposures are shown facing up

8 Contact Electrode

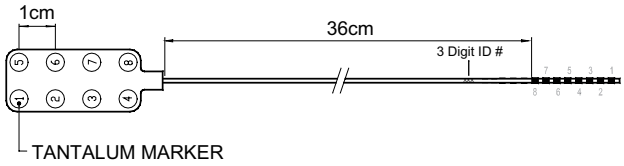
Catalog No.	Specifications
AU8X1P	• 8 Platinum Contacts • Cable: ECCF12 or ECCFS12



• Optional contact spacing available upon request

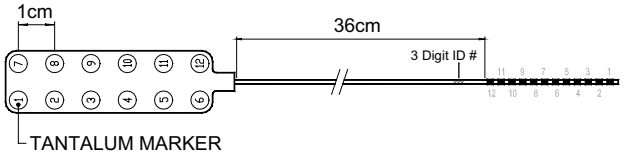
Cortical Grid Electrode with Cylindrical Connector

Integra Epilepsy™ grid electrodes are thin and flexible for easier placement and to conform to the curvature of the cortical surface. The narrow cylindrical connector design simplifies tunneling, using a 14G tunneling needle, and enables quick and secure attachment to the patented connection system. They are available with implant grade stainless steel or platinum contacts. Contacts are dimpled for maximum contact with cortex.



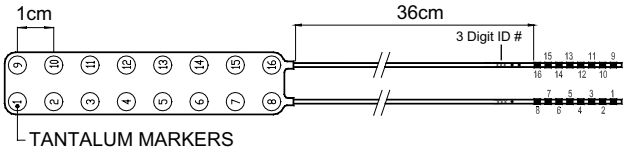
8 Contact Electrode

Catalog No.	Specifications
16166G08	• 8 Stainless Steel Contacts • Cable: ECCF8 or ECCFS08
AU2X4P1	• 8 Platinum Contacts • Cable: ECCF8 or ECCFS08



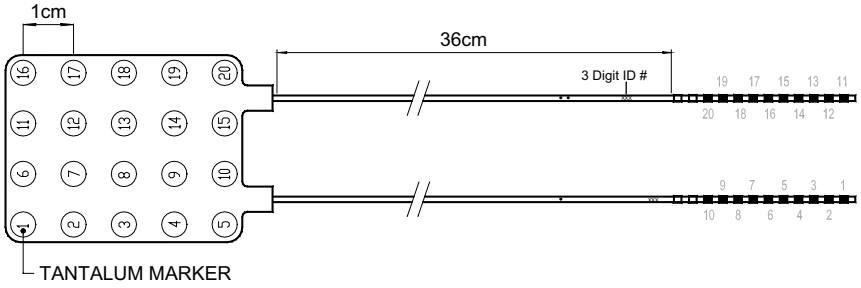
12 Contact Electrode

Catalog No.	Specifications
16166G12	• 12 Stainless Steel Contacts • Cable: ECCF12 or ECCFS12
AU2X6P1	• 12 Platinum Contacts • Cable: ECCF12 or ECCFS12



16 Contact Electrode

Catalog No.	Specifications
16166G16	• 16 Stainless Steel Contacts • Cable: ECCF16 or ECCFS16
AU2X8P2	• 16 Platinum Contacts • Cable: ECCF16 or ECCFS16



20 Contact Electrode

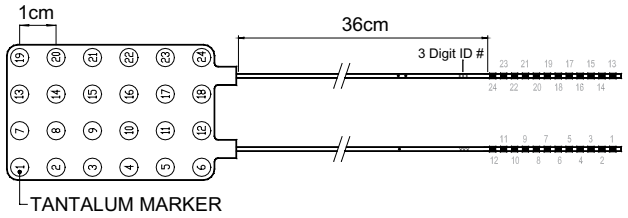
Catalog No.	Specifications
16166G20	• 20 Stainless Steel Contacts • Cable: ECCFS20
AU4X5P2	• 20 Platinum Contacts • Cable: ECCFS20

• Thickness 0.7mm • Optional contact spacing available upon request

Cortical Grid Electrode with Cylindrical Connector (continued)

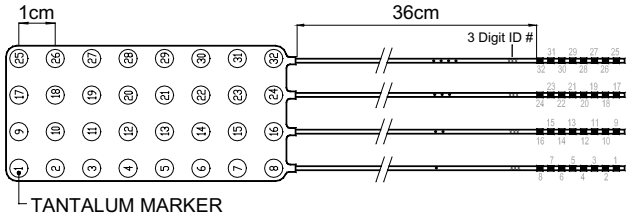
24 Contact Electrode

Catalog No.	Specifications
16166G24	• 24 Stainless Steel Contacts • Cable: ECCFS24
AU4X6P2	• 24 Platinum Contacts • Cable: ECCFS24



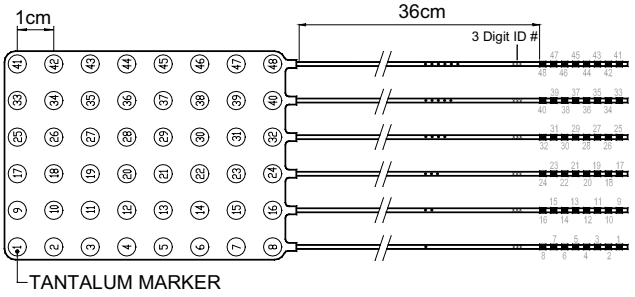
32 Contact Electrode

Catalog No.	Specifications
16166G32	• 32 Stainless Steel Contacts • Cable: ECCF32 or ECCFS32
AU4X8P4	• 32 Platinum Contacts • Cable: ECCF32 or ECCFS32



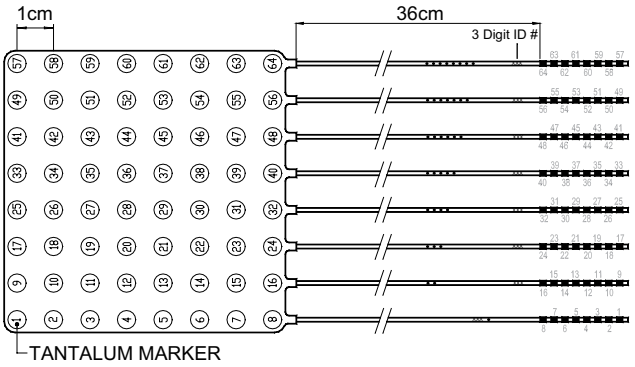
48 Contact Electrode

Catalog No.	Specifications
16166G48	• 48 Stainless Steel Contacts • Cable: ECCF48 or ECCFS48
AU6X8P6	• 48 Platinum Contacts • Cable: ECCF48 or ECCFS48



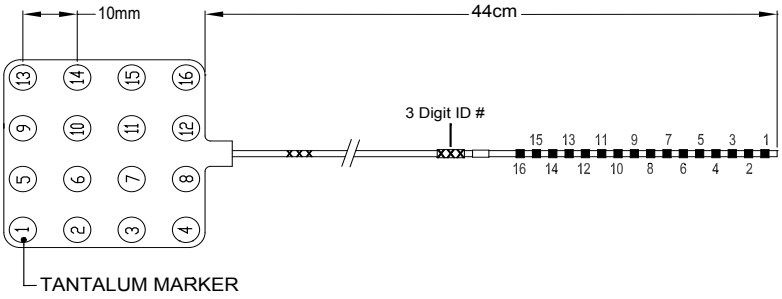
64 Contact Electrode

Catalog No.	Specifications
16166G64	• 64 Stainless Steel Contacts • Cable: ECCF64 or ECCFS64
AU8X8P8	• 64 Platinum Contacts • Cable: ECCF64 or ECCFS64



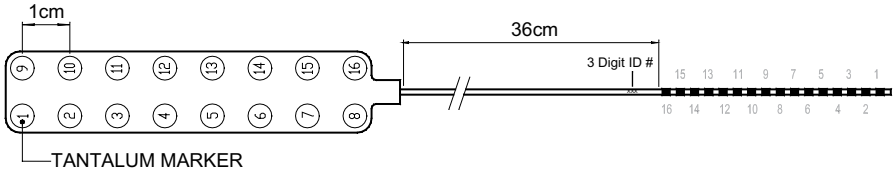
• Thickness 0.7mm • Optional contact spacing available upon request

Cortical Grid Electrode with Cylindrical Connector (continued)



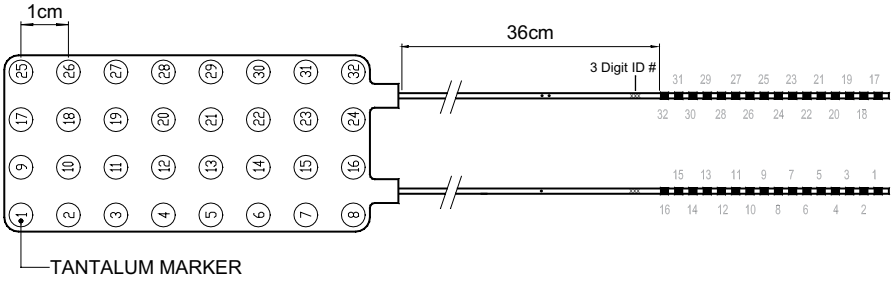
16 Contact Electrode (4x4)

Catalog No.	Specifications
AU4X4P1	• 16 Platinum Contacts • Cable: 17185C16



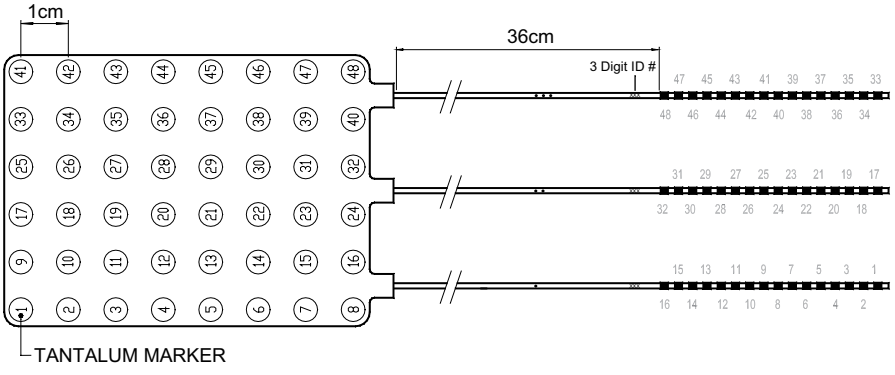
16 Contact Electrode (2x8)

Catalog No.	Specifications
17182G16	• 16 Stainless Steel Contacts • Cable: 17185C16
AU2X8P1	• 16 Platinum Contacts • Cable: 17185C16



32 Contact Electrode

Catalog No.	Specifications
17182G32	• 32 Stainless Steel Contacts • Cable: 17185C32
AU4X8P2	• 32 Platinum Contacts • Cable: 17185C32



48 Contact Electrode

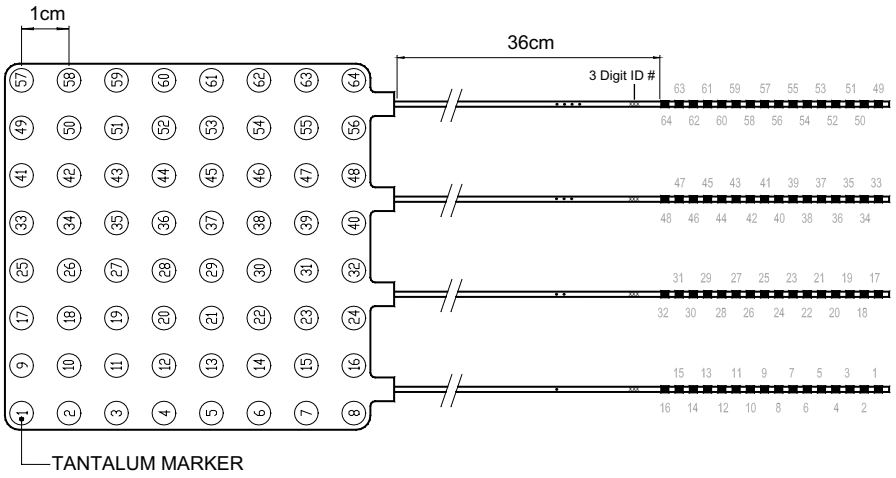
Catalog No.	Specifications
17182G48	• 48 Stainless Steel Contacts • Cable: 17185C48
AU6X8P3	• 48 Platinum Contacts • Cable: 17185C48

• Thickness 0.7mm • Optional contact spacing available upon request

Cortical Grid Electrode with Cylindrical Connector (continued)

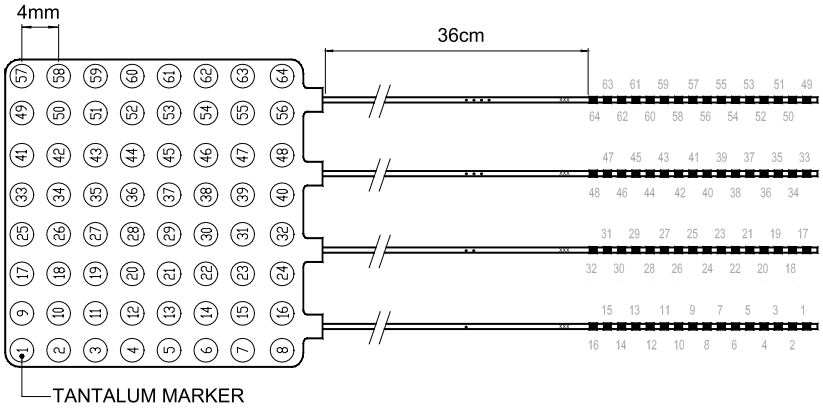
64 Contact Electrode

Catalog No.	Specifications
17182G64	• 64 Stainless Steel Contacts • Cable: 17185C64
AU8X8P4	• 64 Platinum Contacts • Cable: 17185C64



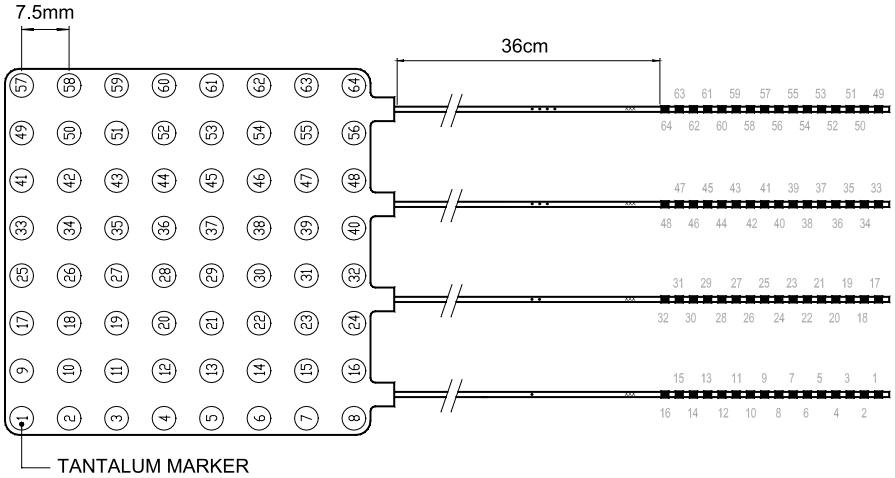
64 Contact Electrode, 4mm Contact Spacing

Catalog No.	Specifications
17188	• 64 Stainless Steel Contacts • Cable: 17185C64
AU8X8P4M4	• 64 Platinum Contacts • Cable: 17185C64



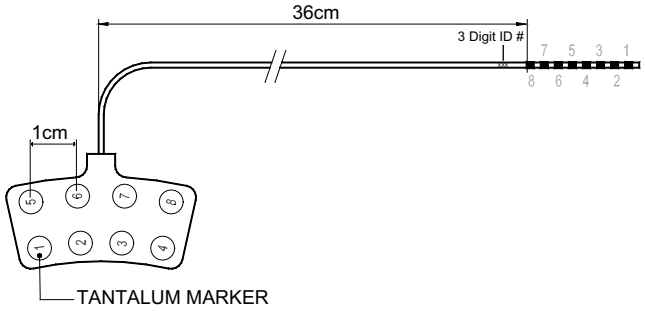
64 Contact Electrode, 7.5mm Contact Spacing

Catalog No.	Specifications
17197	• 64 Stainless Steel Contacts • Cable: 17185C64
AU8X8P4M75	• 64 Platinum Contacts • Cable: 17185C64



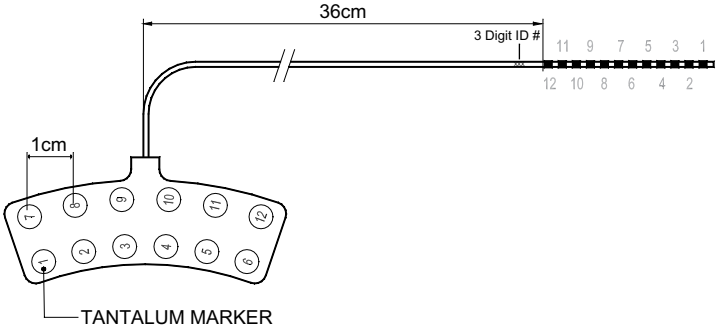
• Thickness 0.7mm • Optional contact spacing available upon request

Curved Grid Electrode with Cylindrical Connector



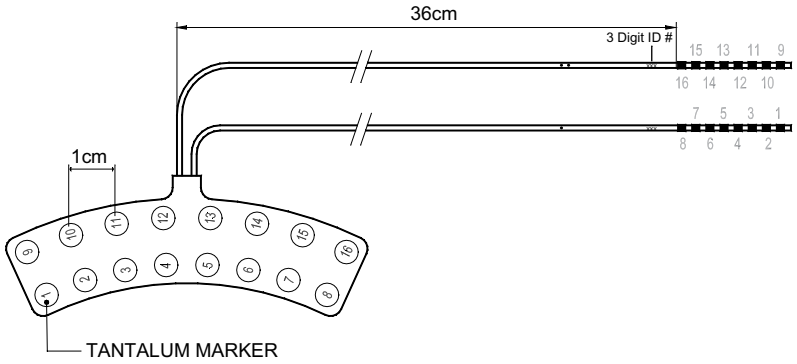
8 Contact Electrode

Catalog No.	Specifications
16166GC08	• 8 Stainless Steel Contacts • Cable: ECCF8 or ECCFS08
AU4X2P1C	• 8 Platinum Contacts • Cable: ECCF8 or ECCFS08



12 Contact Electrode

Catalog No.	Specifications
16166GC12	• 12 Stainless Steel Contacts • Cable: ECCF12 or ECCF12
AU6X2P1C	• 12 Platinum Contacts • Cable: ECCF12 or ECCFS12



16 Contact Electrode

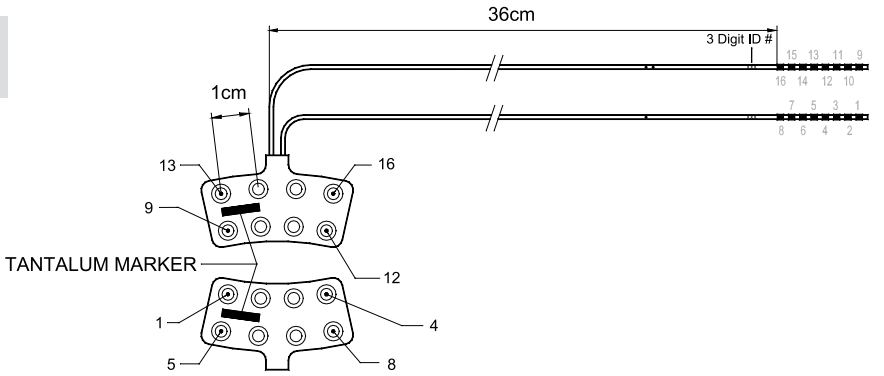
Catalog No.	Specifications
16166GC16	• 16 Stainless Steel Contacts • Cable: ECCF16 or ECCFS16
AU8X2P2C	• 16 Platinum Contacts • Cable: ECCF16 or ECCFS16

• Thickness 0.7mm • Optional contact spacing available upon request

Curved Dual-Sided Grid Electrode with Cylindrical Connector

16 Contact Electrode

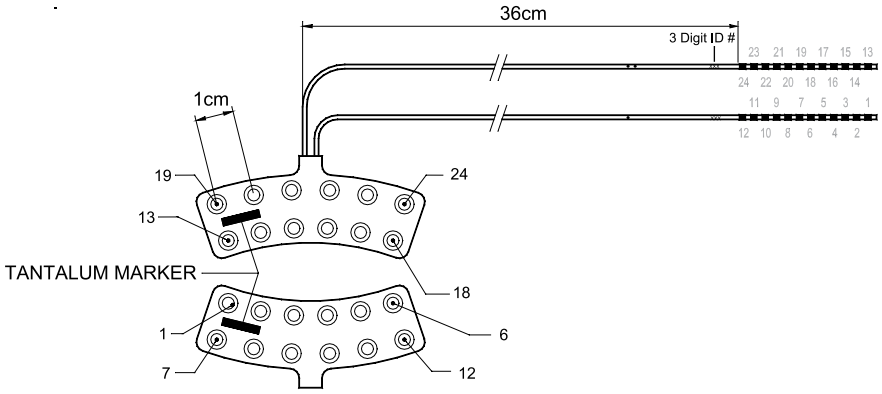
Catalog No.	Specifications
16166GDC16	• 16 Stainless Steel Contacts • Cable: ECCF16 or ECCFS16
AU4X2P2CD	• 16 Platinum Contacts • Cable: ECCF16 or ECCFS16



Contact exposures are shown facing up

24 Contact Electrode

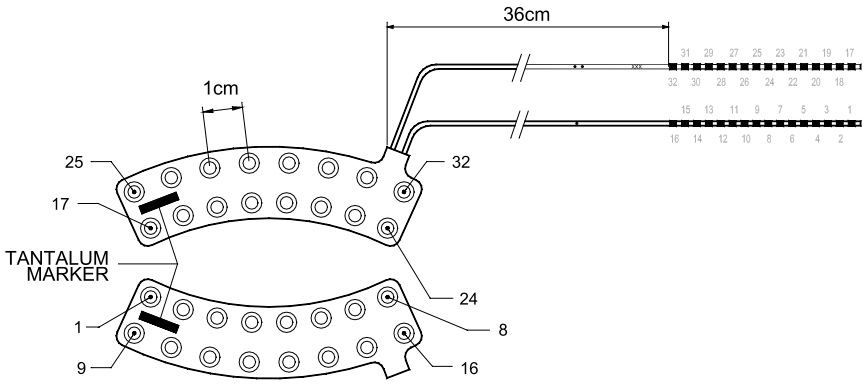
Catalog No.	Specifications
16166GDC24	• 24 Stainless Steel Contacts • Cable: ECCFS24
AU6X2P2CD	• 24 Platinum Contacts • Cable: ECCFS24



Contact exposures are shown facing up

• Optional contact spacing available upon request

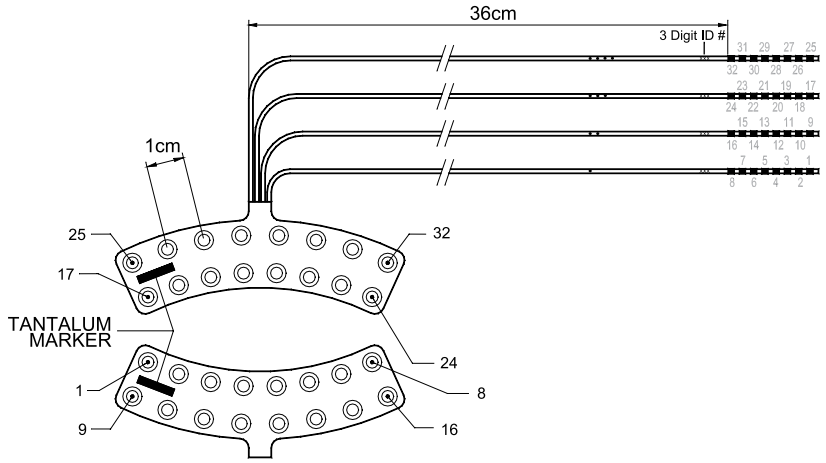
Curved Dual-Sided Grid Electrode with Cylindrical Connector (continued)



Contact exposures are shown facing up

32 Contact Electrode

Catalog No.	Specifications
16597	• 32 Stainless Steel Contacts
AU8X2P2CDL	• 32 Platinum Contacts



Contact exposures are shown facing up

32 Contact Electrode with Cable

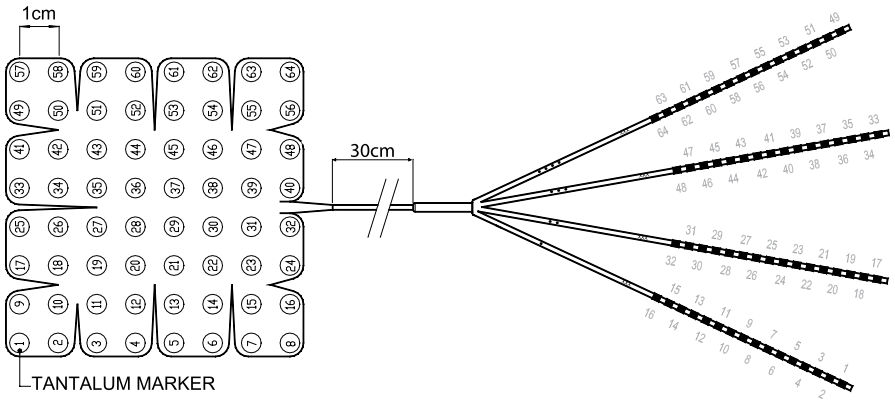
Catalog No.	Specifications
16166GDC32	• 32 Stainless Steel Contacts • Cable: ECCF32 or ECCFS32
AU8X2P4CD	• 32 Platinum Contacts • Cable: ECCF32 or ECCFS32

• Optional contact spacing available upon request

Cortical Grid Electrode-Conformal

64 Contact Electrode, Slit

Catalog No.	Specifications
AU8X8P14S	• 64 Platinum Contacts • Cable: 17185C64

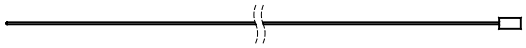


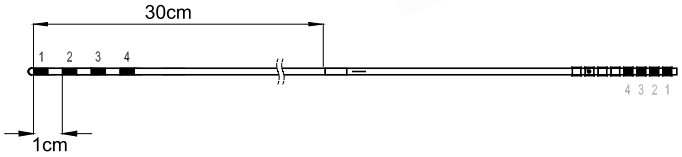
• Thickness 0.7mm • Optional contact spacing available upon request

Depth Electrode Cylindrical Connector, 5mm Contact Length, 1cm Spacing

These are superior quality electrodes, fabricated from a single length of polyurethane tubing for strength and uniform smoothness. The narrow cylindrical connector design simplifies tunneling, using a 14G tunneling needle, and enables quick and secure attachment to the patented connection system. They are available with implant grade stainless steel or platinum contacts.

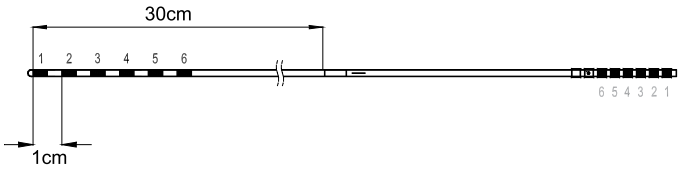
Each depth electrode is furnished with a specially-designed rigid stylet to facilitate stereotactic placement in the patient.





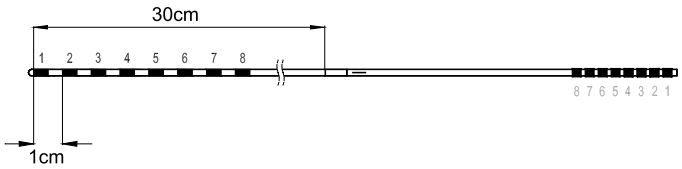
4 Contact Electrode

Catalog No.	Specifications
EDC4	• 4 Stainless Steel Contacts • Cable: ECCF4 or ECCFS04
EDPC4	• 4 Platinum Contacts • Cable: ECCF4 or ECCFS04



6 Contact Electrode

Catalog No.	Specifications
EDC6	• 6 Stainless Steel Contacts • Cable: ECCF6 or ECCFS06
EDPC6	• 6 Platinum Contacts • Cable: ECCF6 or ECCFS06



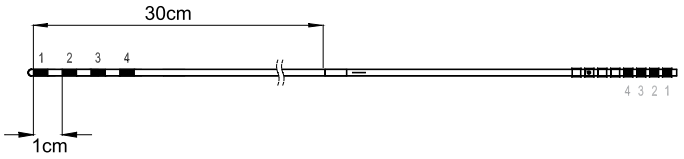
8 Contact Electrode

Catalog No.	Specifications
EDC8	• 8 Stainless Steel Contacts • Cable: ECCF8 or ECCFS08
EDPC8	• 8 Platinum Contacts • Cable: ECCF8 or ECCFS08

Depth Electrode with 2.5mm Contacts, 1cm Spacing

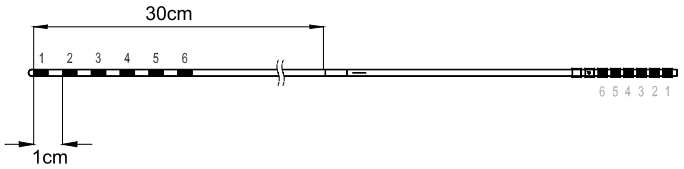
4 Contact Electrode

Catalog No.	Specifications
15819D04	• 4 Platinum Contacts • Cable: ECCF4 or ECCFS04



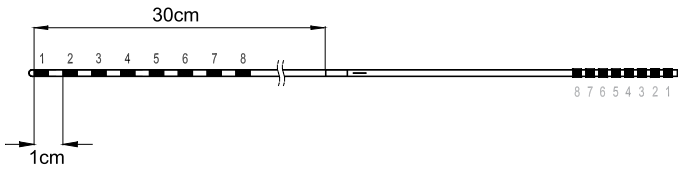
6 Contact Electrode

Catalog No.	Specifications
15819D06	• 6 Platinum Contacts • Cable: ECCF6 or ECCFS06

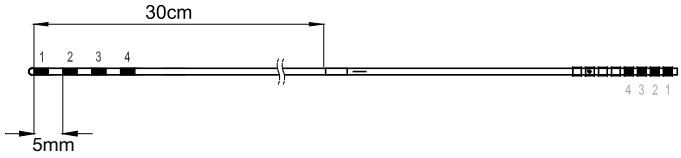


8 Contact Electrode

Catalog No.	Specifications
15819D08	• 8 Platinum Contacts • Cable: ECCF8 or ECCFS08

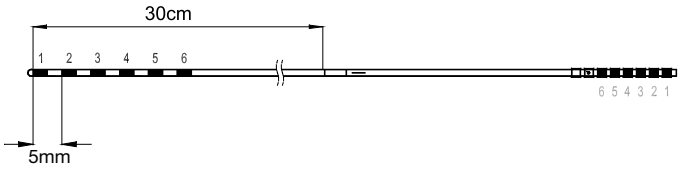


Depth Electrode with 2.5mm Contacts, 5mm Spacing



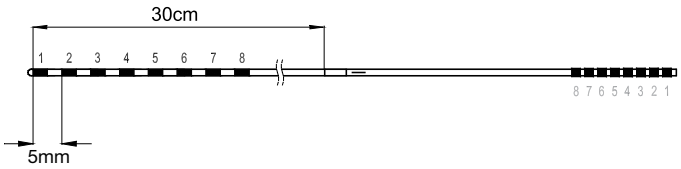
4 Contact Electrode

Catalog No.	Specifications
15819D504	• 4 Platinum Contacts • Cable: ECCF4 or ECCFS04



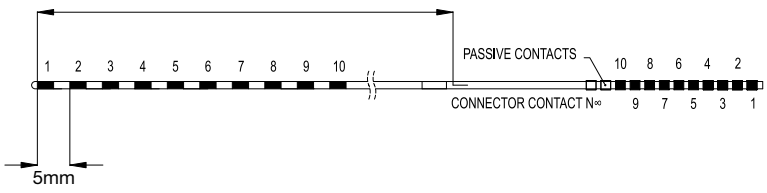
6 Contact Electrode

Catalog No.	Specifications
15819D506	• 6 Platinum Contacts • Cable: ECCF6 or ECCFS06



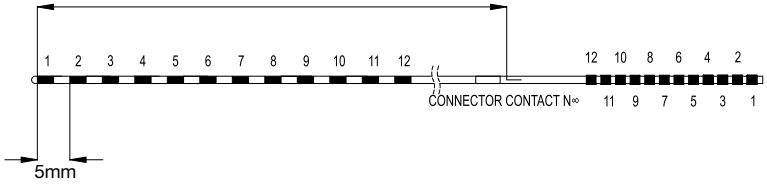
8 Contact Electrode

Catalog No.	Specifications
15819D508	• 8 Platinum Contacts • Cable: ECCF8 or ECCFS08



10 Contact Electrode

Catalog No.	Specifications
15819D510	• 10 Platinum Contacts • Cable: ECCF10 or ECCFS10



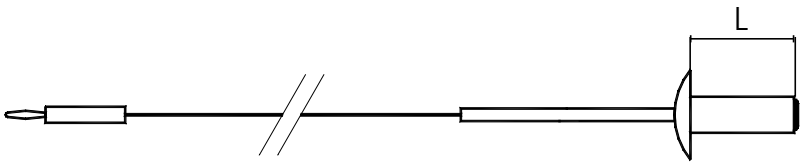
12 Contact Electrode

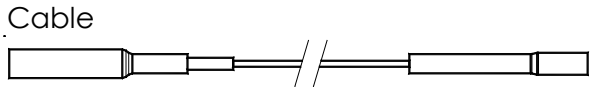
Catalog No.	Specifications
15819D512	• 12 Platinum Contacts • Cable: ECCF12 or ECCFS12

Epidural Peg Electrodes

Peg electrodes typically are positioned in a burr hole to enable extradural recording of brain activity. They have platinum contacts and are furnished in several lengths to accommodate various skull thicknesses. A 4.6mm twist drill is suitable for installation of peg electrodes in the patient.

Catalog No.	Length (L)
EP3	3mm
EP5	5mm
EP7	7mm
EP9	9mm
EP11	11mm
EP13	13mm
EP15	15mm
EP17	17mm
EP19	19mm



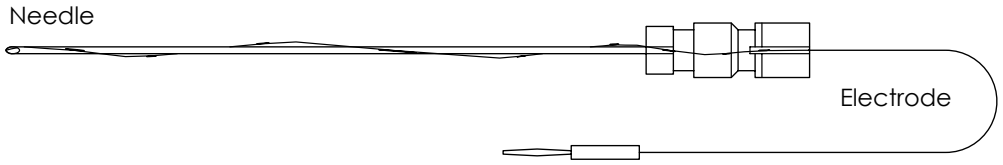


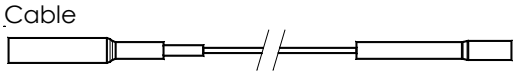
Catalog No.	Specifications
EDSCF	EEG Connecting Cable for EP-Electrodes with female pins

Sphenoidal Electrodes

Sphenoidal electrodes provide a less invasive method of recording brain activity in the epilepsy patient. Sphenoidal electrodes are fabricated from platinum materials.

Catalog No.	Specifications
EDSEP	Sphenoidal electrode with 3.5" insertion needle, platinum
40M08	Sphenoidal electrode with 2.5" insertion needle, platinum
EDSCF	Electrode Cable with Female Pins





Cylindrical Connecting Cables

Integra Epilepsy™ one-piece cylindrical connection system provides quick and secure electrode connections.

Female Pins, 5Ft

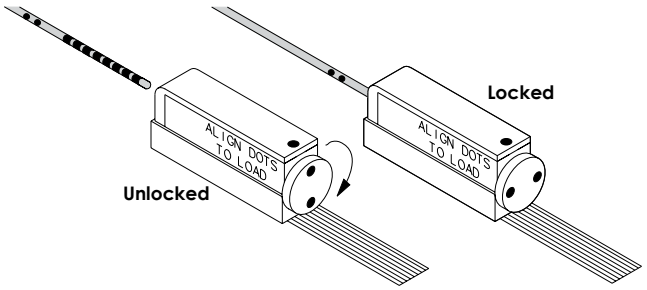
Catalog No.	Specifications
ECCF4	4 pin
ECCF6	6 pin
ECCF8	8 pin
ECCF12	12 pin
ECCF16	16 pin
ECCF24	24 pin
ECCF32	32 pin
ECCF48	48 pin
ECCF64	64 pin

Female Pins, 8Ft with Disconnect

Catalog No.	Specifications
ECCFS04	4 pin
ECCFS06	6 pin
ECCFS08	8 pin
ECCFS12	12 pin
ECCFS16	16 pin
ECCFS20	20 pin
ECCFS24	24 pin
ECCFS32	32 pin
ECCFS48	48 pin
ECCFS64	64 pin

Female Pins, 8Ft

Catalog No.	Specifications
17185C16	16 pin
17185C32	32 pin
17185C48	48 pin
17185C64	64 pin

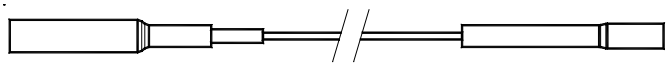


Micro Connecting Cable

Micro Connector, Female Pins, 5Ft

Catalog No.	Specifications
EDSCF	1 pin

Cable



Ojemann Cortical Stimulator

Designed in collaboration with Dr. George Ojemann at the University of Washington, the Ojemann Cortical Stimulator is the industry standard for cortical stimulation mapping procedures. This portable, constant current unit has simple, uncomplicated controls and current settings suitable for use in the awake or anesthetized patient. The Ojemann Cortical Stimulator is a compact, battery-powered unit and supplies up to 20 milliamps current (peak to peak).

Catalog No.	Specificatiions
OCS2	Ojemann Cortical Stimulator
OCS2PND	Ojemann Cortical Stimulator Probe

Universal Compact Head Ring

Luminant® MR/CT Localizer Frame

Radionics® CRW® Lightweight Arc System

Stereotaxy

Pricing
Prices stated in specific written quotations are firm for thirty days from the date given, and are otherwise subject to change without prior notice. Pricing terms stated on written agreements are governed by such agreements.

Minimum Order Requirements
Minimum order requirement is $250 (a $20 handling charge will be added to any order under $250).
For partial case orders, contact the Customer Service Department for a quotation.

Ordering Procedure
A written purchase order on the customer's form may be requested for purchases of Integra LifeSciences products.

Acceptance of Orders
Orders are accepted upon approval by Integra Customer Service.

Return Policy

- Authorization from customer service must be obtained prior to returning product.
- Sterile product must be returned in unopened, undamaged cartons, packed to prevent damage.
- Non-sterile product must be returned in unused saleable condition in original package.
- Custom or special order products will not be accepted for credit.
- Credit will be issued for goods returned prior to ninety days from ship date with a 20% restocking charge. This assumes that the product returned is not damaged and can be verified to have not been used or opened.

Contact Information
311 Enterprise Drive
Plainsboro, NJ 08536 USA

Customer Service
Toll-Free: 800-654-2873 (US and Canada)
Telephone: 609-275-0500 (International)
Fax: 609-275-5363

Technical Support
Toll-Free: 888-772-7378 (US and Canada)
Telephone: 781-272-1233 (International)

Integra Warranty for Radionics® CRW® Stereotactic System

1. Warranty

Integra NeuroSciences, Inc. ("Integra NeuroSciences") warrants to the original purchaser only that each new Integra NeuroSciences product is free from manufacturing defects in material and workmanship under normal use and service for a period of one year from the date of delivery by Integra NeuroSciences to the first purchaser, but in no event beyond the expiration date stated on any product labeling.

- Surgical instruments are guaranteed to be free from defects in material and workmanship when maintained and cleaned properly and used normally for their intended purpose.
- Any covered product that is placed by Integra NeuroSciences under a lease, rental or installment purchase agreement and that requires repair service during the term of such placement agreement shall be repaired in accordance with the terms of such agreement.

If any covered defect occurs during the warranty period or term of such placement agreement, the purchaser should communicate directly with Integra NeuroSciences' home office. If purchaser seeks to invoke the terms of this warranty, the product must be returned to Integra NeuroSciences at its home office. The defective product should be returned promptly, properly packaged and postage prepaid. Loss or damage in return shipment to Integra NeuroSciences shall be at Customer's risk. Integra NeuroSciences sole responsibility under this warranty shall be repair or replacement, at the sole discretion and expense of Integra NeuroSciences, subject to the terms of this warranty and applicable agreements.

IN NO EVENT SHALL INTEGRA NEUROSCIENCES BE LIABLE FOR ANY INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES IN CONNECTION WITH THE ACQUISITION OR USE OF ANY INTEGRA NEUROSCIENCES PRODUCT. Further, this warranty shall not apply to, and Integra NeuroSciences shall not be responsible for, any loss arising in connection with the purchase or use of any Integra NeuroSciences product that has been repaired by anyone other than an authorized Integra NeuroSciences service representative or altered in any way so as, in Integra NeuroSciences judgment, to affect its stability or reliability, or which has been subject to misuse, negligence or accident, or which has been used otherwise than in accordance with the instructions furnished by INTEGRA NEUROSCIENCES. THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF INTEGRA NEUROSCIENCES, AND INTEGRA NEUROSCIENCES NEITHER ASSUMES NOR AUTHORIZES ANY REPRESENTATIVE OR OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH INTEGRA NEUROSCIENCES PRODUCTS.

INTEGRA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTY ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, USAGE OR TRADE OR OTHERWISE, OR APPLICATION OR WARRANTY OF QUALITY AS WELL AS ANY EXPRESS OR IMPLIED WARRANTY TO PATIENTS. No warranty or guarantee may be created by any act or statement nor may this Standard Warranty be modified in any way, except as a result of a writing signed by an officer of INTEGRA. These limitations on the creation or modification of this warranty may not be waived or modified orally or by any conduct.

2. Service, Repairs and Replacement

2.1. *Service and Repairs.* All service and repairs covered by this Warranty may be referred to hereinafter as "in-warranty repairs," and all service and repairs not covered by this Warranty may be referred to as "out-of-warranty repairs." Customer shall be responsible to pay Integra NeuroSciences' then-standard charges for any out-of-warranty repairs performed by Integra NeuroSciences. Integra NeuroSciences' sole obligation for Equipment defects and failures of performance shall be to make all necessary adjustments and repairs in accordance with this Warranty.

2.2. *Equipment Replacement.* The defective Equipment or part thereof that is replaced in accordance with the Warranty shall be the property of Integra NeuroSciences. Integra NeuroSciences reserves the right to fill spare parts requests using refurbished sub-assemblies provided that such sub-assemblies are functionally equivalent to new sub-assemblies and carry the same warranty as the replaced sub-assemblies.

2.3. *Notification.* In order to avail itself of its rights under the Warranty, Customer must immediately notify Integra NeuroSciences of any defects and provide Integra NeuroSciences every opportunity to inspect and remedy defects.

3. Repair Parts and Services

3.1. Included under the Warranty are the following services:

3.1.1. *Modifications to Covered Equipment.* From time to time, at its sole discretion, Integra NeuroSciences may propose modifications to the covered Equipment and to the specifications for the Equipment ("Specifications"). Subject to Customer's approval and at its sole expense, the Customer may request Integra NeuroSciences to make such modifications to the covered Equipment and to the Specifications. Integra NeuroSciences shall make such modifications for the Customer, which modifications may include the installation of new parts in the Equipment, at a price equal to the then-current list price for such modifications, as such list price is established by Integra NeuroSciences in its sole discretion.

4. Quality Control

4.1. Customer shall maintain reasonable standards of quality control, operations, procedures, safety testing and inspection of Equipment to ensure that unnecessary service or maintenance is not required hereunder.

4.2. Customer shall provide a technical counterpart to Integra NeuroSciences' Service Agent for assistance in Integra NeuroSciences' telephonic diagnosis of the malfunction with the Equipment. Customer shall reasonably accept Integra NeuroSciences' determination whether a repair or service is an in-warranty repair or an out-of-warranty repair.

5. Limitation of Liability

5.1. THE WARRANTIES DESCRIBED IN SECTION 1 HEREOF ARE EXCLUSIVE AND ARE GIVEN AND ACCEPTED IN LIEU OF ALL OTHER WARRANTIES OF INTEGRA NEUROSCIENCES OR ITS SERVICE AGENTS WITH RESPECT TO THE QUALITY, PERFORMANCE AND OPERATION OF THE EQUIPMENT, WRITTEN OR ORAL, EXPRESSED OR IMPLIED, AND WHETHER OR NOT ATTRIBUTABLE TO SERVICE PERFORMED PURSUANT TO THE WARRANTY. ALL OTHER REPRESENTATIONS OR WARRANTIES OF INTEGRA NEUROSCIENCES OR ITS REPRESENTATIVES, EXPRESS OR IMPLIED, WITH RESPECT TO THE EQUIPMENT OR THE SERVICES, DIAGNOSES, ADVICE, ASSISTANCE OR PARTS TO BE TENDERED PURSUANT TO THE WARRANTY, INCLUDING, WITHOUT LIMITATION, THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXPRESSLY DISCLAIMED. IN NO EVENT SHALL INTEGRA NEUROSCIENCES, ITS AFFILIATES, ASSIGNEES OR SERVICE AGENTS BE LIABLE FOR LOSS OF USE, REVENUE OR PROFIT OR ANY OTHER DIRECT, INDIRECT, INCIDENTAL, EXEMPLARY, CONSEQUENTIAL, SPECIAL OR OTHER DAMAGES, WHETHER ARISING IN CONTRACT OR IN TORT, BY VIRTUE OF THE WARRANTY OR ANY PERFORMANCE OR BREACH BY INTEGRA NEUROSCIENCES, ITS AFFILIATES, ASSIGNEES OR SERVICE AGENTS HEREUNDER OR PURSUANT HERETO IN EXCESS OF THE AMOUNTS PAID BY CUSTOMER TO INTEGRA NEUROSCIENCES DURING THE WARRANTY PERIOD.

5.2. Customer agrees that, notwithstanding the technical assistance provided pursuant to the Warranty by Integra NeuroSciences or its representatives, Customer shall be fully responsible for all treatments performed or attempted with the Equipment. INTEGRA NEUROSCIENCES MAKES NO REPRESENTATION OR WARRANTY AS TO THE EFFICACY OF THE EQUIPMENT OR OF THE TECHNICAL ASSISTANCE TO BE RENDERED BY INTEGRA NEUROSCIENCES, ITS AFFILIATES, ASSIGNEES OR SERVICE AGENTS, FOR PURPOSES OF THE PARTICULAR TREATMENT THAT CUSTOMER UNDERTAKES TO PERFORM FOR THIRD PARTIES. Moreover, Customer shall not make any claim against Integra NeuroSciences or any of its affiliates, assignees or representatives with respect to the efficacy of the Equipment or of said technical assistance or with respect to any claims by third parties related to any treatment undertaken by Customer.

5.3. Force Majeure. Notwithstanding anything to the contrary herein contained, if the performance of the Warranty by Integra NeuroSciences or Customer or any obligation of Integra NeuroSciences or Customer hereunder is prevented, restricted or interfered with by reason of fire, explosion, act of God, labor disputes or accidents affecting performance under the Warranty, or war, mobilization, civil commotions, blockade or embargo, or any future law, regulation, ordinance or requirement of any government or regulatory agency or any other act, whatsoever similar to those above enumerated, or any other circumstance being beyond the reasonable control of Integra NeuroSciences or Customer, then and in that event Integra NeuroSciences or Customer, as the case may be, shall promptly notify the other party hereto of the resulting difficulties therefrom, and any of the foregoing events shall excuse any performance required under the Warranty.

The Radionics® CRW® (Cosman-Roberts-Wells)
stereotactic system and Radionics® advanced surgical planning software represent the ultimate in safety and accuracy for frame-based stereotaxy. Numerous features make the Radionics CRW ideal for surgical applications such as brain tumor biopsies and Deep Brain Stimulator (DBS) implantation for movement disorders. The Radionics CRW stereotactic system maintains unparalleled rigidity regardless of patient movement during the most demanding functional procedures. The rugged design of the Radionics CRW is constructed of high tensile strength aircraft grade aluminum enabling it to support heavy accessories such as a microelectrode drive without flexing. All coordinate settings are set with vernier scales and secured with double-lock titanium screws. The Radionics CRW Phantom Base provides invaluable independent target verification and quality assurance. In addition, the capability to completely cover the head ring with a single sterile drape ensures an unbroken sterile field even with arc setting and orientation modifications.

Two software options are seamlessly integrated with the Radionics CRW instrumentation. StereoCalc™ is a simple software solution for target and trajectory coordinates, eliminating the need for CT/MR clamping and manual coordinate calculations. ImageFusion™, NeuroSight® Arc, and AtlasPlan™ target planning software combine with the Radionics CRW to create the most comprehensive system available for treating patients with movement disorders.

This catalog is designed to facilitate the ordering process of Radionics CRW components, accessories, and software. You may look forward to additional product guides and notifications from Integra Radionics as we develop new products to complement the Radionics CRW stereotactic system and advance the state of neurosurgery.

Customer Service:
Toll-Free: 800.654.2873 (US and Canada)
Telephone: 609.275.0500 (International)
Facsimile: 609.275.5363

Technical Support:
Toll-Free: 888.772.7378 (US and Canada)
Telephone: 781.272.1233 (International)

E-mail:
service@radionics.com (Technical Support)

Radionics® CRW® Stereotactic Surgical Products

Head Rings and Accessories

UCHRA

Universal Compact Head Ring

CT and MR scanner compatible when used with Radionics® Head Ring Screws; for use with BRWLF and LL01

Includes:
Universal Head Ring
Adapter Plate
2 Anterior and 2 Posterior Head Posts
Cross Bar
Cross Bar Screws
Ear Bar Assembly
2 Head Ring Wrenches
Cleaning Tap
Sterilization Case
User's Manual

UCHRAP

Arc Adapter Plate

The Adapter Plate allows attachment of the BRWLF and CRWASL to the UCHR

UCHRCASE

Storage and Sterilization Case

Only compatible with the UCHRA

Radionics® CRW® Stereotactic Surgical Products

Head Rings and Accessories

UCHRP

Post and Cross Bar Kit

Includes:
1 Cross Bar—Allows alternative positioning of head ring screws
2 Anterior/2 Posterior Posts
2 Cross Bar Screws
Available Separately
UCHRCB1—Head Ring Cross Bar
UCHRPA—1 Anterior Post (short)
UCHRPP—1 Posterior Post (long)
UCHRCBS—Head Ring Cross Bar Attachment Screw

UCHREBA

Universal Compact Head Ring Ear Bar Kit

Includes: (2 each)
Head Ring Supports
Ear Posts

HRW

Head Ring Wrench

A universal wrench used on many of the screws found in the Radionics® CRW® System including the Head Ring drives, posts, and screws.

UCHRHK

Universal Compact Head Ring Hardware Kit

Includes:
Adapter Plate Attachment Screws (4)
Intubation Hoop Attachment Screws (2)
Head Post Attachment Screws (4)
Head Post Wedges (4)
Ear Bar Assembly Attachment Screws (2)
Ear Bar Assembly Nylon Thumb Screws (2)

Radionics® CRW® Stereotactic Surgical Products

Head Rings and Accessories

HRAIM

Intubation Head Ring Assembly

CT scanner compatible; for use with BRWLF

Includes:
Intubation Head Ring
4 Head Ring Drives
4 Head Ring Posts
Head Ring Wrench
Cleaning Tap
Head Ring Positoner
2 Conical Sliding T-bolt Screws

HRD

Head Ring Drive

HRDXS

Head Ring Drive Extender/ Shortener

Lengthens or Shortens the working length of the Head Ring Posts to allow treatment of low tumors or a wide range of head sizes.

HRP

Head Ring Post

Only compatible with the HRAIM

TAP

Cleaning Tap for HRP

(Not for use with Aluminum Posts)

Radionics® CRW® Stereotactic Surgical Products

Head Rings and Accessories

HRKTP

Head Ring Positioner

Includes: (1 each)
Positioner Ring (not sold seperately)
Velcro Strap (Also available in boxes of 5, use part No. GTCSVS)

CSS

Conical T-bolt Screw

Includes:
CSS (1 short)–Used to attach the HRAIM and UCHRA Head Rings to the clamping plate and MAYFIELD® adapter

HREBA

Intubation Head Ring Ear Bar Kit

Includes: (2 each)
Head Ring supports
Ear Posts

HRIMS

Head Ring Sector

Converts the assembly to the closed ring configuration

HRIMTS

T Handle Screw

For Intubation Hoop

Radionics® CRW® Stereotactic Surgical Products

Imaging Localizers

BRWLF

CT Localizer Frame

The BRWLF is the standard in CT image localization for stereotactic procedures, requiring no clamping or scanner alignment when used with StereoCalc™ or NeuroSight® Arc software for target calculations.

LL01

Luminant® MR/CT Localizer Frame

The Luminant® MR/CT localizer represents the most advanced stereotactic localizer ever designed. The open and lightweight Luminant MR/CT localizer offers many improvements over previous localizers including no fiducial rod filing, fast and easy attachment to UCHRA, and clear and distinct rod imaging in many MR scan formats. Target calculations can be obtained manually using a clamping plate or independently (without a clamping pate) using StereoCalc™ or NeuroSight® Arc targeting software.

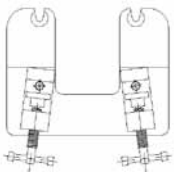
LL01–Luminant® MR/CT localizer with shipping and storage case

LL02–Shipping and storage case

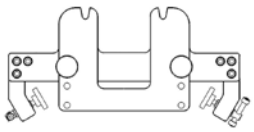
Radionics® CRW® Stereotactic Surgical Products

CT Clamping Plates–used with Conical Sliding T-bolt Screws, Head Ring and Designated Couch to facilitate selection of the appropriate clamping plate, please provide a picture of the couch mount to customer support or your sales representative.

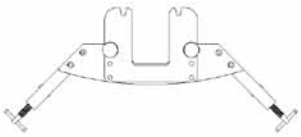
CTCPP **Philips**



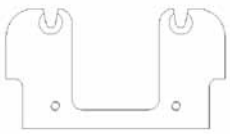
CTCPAURA **Philips Aura**



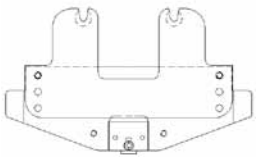
CTCPP2 **Picker PQ2000/ PQ5001**



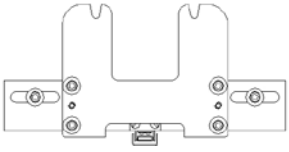
CTCPPI **Picker 1200SX**



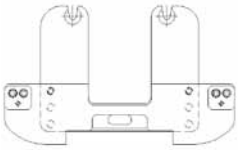
CTCPSH **Shimadzu**



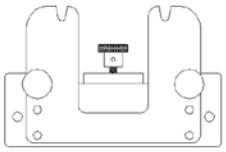
CTCPG9800 **GE 9800 Adjustable**



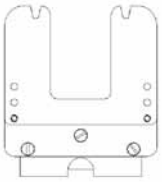
CTPGP **GE Pace**



CTCPGEMF **GE Medalist**

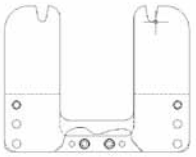


CTCPE **Elscint**

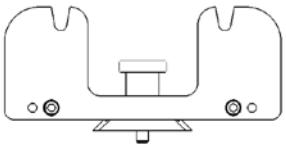


CTVC **Med Tec Flat Couch Top**

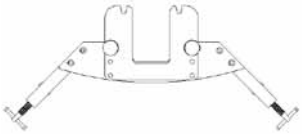
CTCPS **Siemens**



CTCPTO **Toshiba**



CTCPM **MedTec**



Radionics® CRW® Stereotactic Surgical Products

Radionics® CRW® Arc

CRWASL Radionics® CRW® Lightweight Arc System

Includes:
CRWLA—Lightweight Arc (not sold separately)
CRWASLPH—Probe Holder (not sold separately)
CRWASGB—Guide Block
KDG—Keller Depth Gauge
SR—Stainless Steel Ruler
SWTS—Arc System Wrench
CRWCASE—Storage and Sterilization Case
CRWMA—MAYFIELD® Adapter
DA27—Drill Assembly, 2.7mm
GT27116—Guide Tube, 2.7mm I.D. x 116mm length
GT2776—Guide Tube, 2.7mm I.D. x 76mm length
RB27—Reducing Bushing, 2.7mm I.D.
RTNBND76—NBND I.D. x 76mm
CSS (2)
User's Manual (2)

Radionics® CRW® System Accessories and Components

CRWCASE

Storage and Sterilization Case

CRWASGB

Guide Block

KDG

Keller Depth Gauge

SR

Stainless Steel Ruler

SWTS

Arc System Wrench

The SWTS is used to remove both the anterior section of the Radionics® CRW® base plate and the HRAIM intubation hoop

MAYFIELD® Adapters

Enables clamping of the HRAIM and the UCHRA to the standard MAYFIELD® head-rest.

CRWMA – Long vertical extension arms allow anterior/posterior positioning of the Radionics CRW® Arc on the base plate. This alternative set-up makes very low lateral surgical approaches effortless.

CRWFMA–Positions the patient lower on the OR table when additional support is needed.

Radionics® CRW® Stereotactic Surgical Products

Radionics® CRW® System Accessories and Components

Guide Tubes

GT2776—2.7mm I.D. x 76mm length

GT27116—2.7mm I.D. x 116mm length

GT27160—2.7mm I.D. x 160mm length

GT3276—3.2mm I.D. x 76mm length

GT32116—3.2mm I.D. x 116mm length

GT32160—3.2mm I.D. x 160mm length

GT46116*—4.6mm I.D. x 116mm total length**

*no reducing tube or bushing required

**working length is 111mm

Guide Tubes with 2.7mm I.D. must be used with RB27 or any of the Reducing Tubes listed below. Guide Tubes with a 3.2mm I.D. are used with RB32 and are not compatible with Reducing Tubes.

Reducing Bushings

RB27—2.7mm I.D.

RB32—3.2mm I.D.

Reducing Bushings are compatible with Guide Tubes of matching I.D. and commonly used with Drill Assemblies.

CRWHK Radionics® CRW® Arc Hardware Kit

Includes:

Trunion Ring Knob (2)

Probe Holder Screw (1)

Lateral Slide Lock Screw (2)

Slide Plate Screw (2)

Trunion Slide Screw (4)

Trunion Ring Screw (2)

Lateral Slide Lock (1)

Anterior Sector Screw (2)

Reducing Tubes

RT1176—1.1mm I.D. x 76mm length

RT11116—1.1mm I.D. x 116mm length

RT1676—1.6mm I.D. x 76mm length

RT16116—1.6mm I.D. x 116mm length

RT1876—1.8mm I.D. x 76mm length

RT18116—1.8mm I.D. x 116mm length

RT2076—2.0mm I.D. x 76mm length

RT20116—2.0mm I.D. x 116mm length

RT20160—2.0mm I.D. x 160mm length

RT2176—2.1mm I.D. x 76mm length

RT21116—2.1mm I.D. x 116mm length

RTNBND76—NBND I.D. x 76mm length

RTNBND116—NBND I.D. x 116mm length

RTNBND160—NBND I.D. x 160mm length

Reducing Tubes are compatible with Guide Tubes with 2.7mm I.D. and matching length. Reducing Tubes are commonly used with needles and electrodes.

CRWMCPH30 30 Degree Offset Probe Holder

Provides maximum access to the surgical site by shifting the CRWASL lateral arc while maintaining trajectory and target setting.

Radionics® CRW® Stereotactic Surgical Products

Quality Assurance Components

CRWPBS

Phantom Base System

Includes:

RLPP—Rectilinear Phantom Base

CRWASP—Arc System Pointer

RLPPSP—Sterile Pointer

RLPPVS—Vertical Slide Assembly

RLPPSP

Sterile Pointer

For Phantom Base System

RLPPVS

Vertical Slide Assembly

CRWASP

Radionics® CRW® Arc System Pointer

For use with Phantom Base System

Reticles

CRWTBSS—Lateral Trunions

CRWAPBS—Anterior/Posterior Trunions

Reticles sets are used with intraopertive x-ray to visually confirm electrode placement at target during functional procedure

CRWPBSHK

Phantom Base Hardware Kit

Includes:

Sphere Hole thumb screws (2)

Thumb Knobs 10-32 x 1/2" (2)

LTLF T-Side sub assembly (1)

AP/Vert locking screws

Screw and Cap 1/4" (1 each)

Radionics® CRW® Stereotactic Surgical Products

Single Use Only Sterile Devices

Apuzzo Stereotactic Drape

Sterile draping is easy with the Radionics® CRW® System and the Apuzzo Stereotactic Drape. Both Radionics® Head Rings operate independently from the Radionics® CRW® Arc and can be fully sterile draped after scanning. The large Apuzzo Stereotactic Drape has three small circular cutouts positioned to allow clean attachment of the Arc to the draped Head Ring. The drape also has a sticky pad to be applied at the surgical site

ASD1—Sterile Drape

ASD1B—Box of 10 Sterile Drapes

The Apuzzo Stereotactic Drape allows the Radionics® CRW® user to drape the head ring independently of the Arc and maintain sterility throughout the stereotactic procedure.

Disposable Head Ring Screws

MR/CT Compatible

These single-use Head Ring Screws are required for both Radionics® Head Rings; the Intubation Head Ring for CT scanning and the Universal Compact Head Ring for both CT and MR scanning. Rigid inner aluminum pins provide secure purchase to the patient's skull. They are available in two sizes, long and short

DHRSL5: 48mm/ Box of Long Screws 5 packs / 2 Screws per pack

DHRSS5: 34mm / Box of Short Screws 5 packs / 2 Screws per pack

CRWBP

CRW® BiopsyPlus Kit

Includes:

Nashold Biopsy Needle with depth and target markings (1)

Long biopsy bushing (90mm)

Short biopsy bushing (60mm)

Nylon thumbscrew for securing the bushing into the CRW® guide block (2)

12" Aspiration line

NBND

Nashold Biopsy Needle, Disposable

NBND5

Nashold Biopsy Needle, Disposable (Box of 5)

Radionics® Nashold Biopsy Needles are individually sterile packaged and are available in a box of 5.

249mm Needle Length

2.0mm O.D.

10mm Side Cutting Window

Compatible with:

RTNBND76 & GT2776

RTNBND116 & GT27116

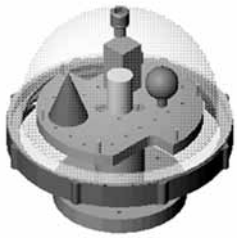
RTNBND160 & GT27160

Radionics® CRW® Stereotactic Surgical Products

Geometric Phantom

For CT and MR Scanner Validation

GEOSYS



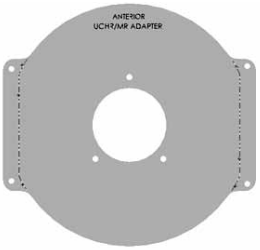
Geometric Phantoms provide a full independent check that head rings, localizers, CT or MRI scan images, and planning software all deliver accurate volumetric target localization.

GEOBRWAK

HRAIM Adapter Plate

GEOOUCHRAK

UCHR Adapter Plate



GEOPH1

Geometric Phantom with HRAIM Adapter

Includes:
GEOSYS
GEOBRWAK

GEOPH3

Geometric Phantom with UCHR Adapter

Includes:
GEOSYS
GEOUCHRAK

Radionics® CRW® Stereotactic Surgical Products

Instrument Drive System

CRWPMDD

Digital Probe MicroDrive

Includes:
Digital Probe MicroDrive
CRWPMDB20—2.0mm Bushing
CRWPMDB25—2.5mm Bushing
CRWPMDB30—3.0mm Bushing
PMDCASE—Sterilization Case

CRWMS

Probe Micro-Slide

Includes:
Probe Micro—Slide
CRWPMDB20—2.0mm Bushing
CRWPMDB25—2.5mm Bushing
CRWPMDB30—3.0mm Bushing

Radionics® CRW® Stereotactic Surgical Products

Drill and Kits

Drill Assemblies

DA27—2.7mm Drill Assembly with Depth Stop, Guide Tube, Hex Wrench
DA27D—2.7mm Drill Assembly with Hex Wrench
DA32—3.2mm Drill Assembly with Depth Stop, Guide Tube, Hex Wrench
DA32D—3.2mm Drill Assembly with Hex Wrench
DA46—4.6mm Drill Assembly with Depth Stop, Guide Tube, Hex Wrench
DA46D—4.6mm Drill Assembly with Hex Wrench
DA63—6.3mm Drill Assembly with Depth Stop, Guide Sleeve, Guide Block and Hex Wrench
DA63D—6.3mm Drill Assembly with Hex Wrench

Drill Depth Stops

DADS27—Drill Depth Stop for DA27
DADS32—Drill Depth Stop for DA32
DADS46—Drill Depth Stop for DA46
DADS63—Drill Depth Stop for DA63

SDK

Salcman Drill Kit

Includes:
DA63GB—Guide Block
DA63GS—Guide Sleeve
GT27116—Guide Tube, 2.7mm
GT32116—Guide Tube, 3.2mm
GT46116—Guide Tube, 4.6mm
RB27—Reducing Bushing, 2.7mm
RB32—Reducing Bushing, 3.2mm
SD20—Salcman Drill, 2.0mm
SD27—Salcman Drill, 2.7mm
SD32—Salcman Drill, 3.2mm
SD46—Salcman Drill, 4.6mm
SD63—Salcman Drill, 6.3mm (Salcman Drills Include Depth Stop)
SDD—Salcman Drill Driver
SDKCASE–Case

SDD

Salcman Drill Driver

DA63GB

Guide Block

For use with SD63 and DA63GS

DAG3GS

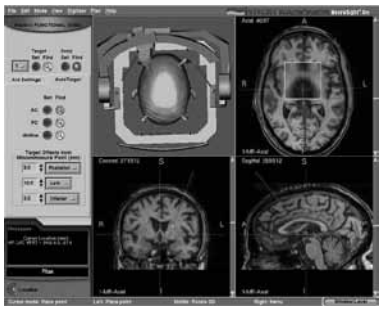
Guide Sleeve

For use with SD63 and DA63GB

Radionics® CRW® Stereotactic Surgical Products

Stereotactic Planning Software

ST1000



NeuroSight® Arc Software (Laptop)

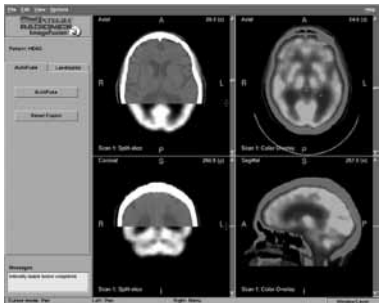
NeuroSight® Arc Trajectory Planning Software reconstructs and displays multiple image sets for accurate 3D targeting and trajectory planning for functional neurosurgery, tumor biopsy, and any procedure requiring precise stereotactic planning. NeuroSight® Arc software features autotargeting, midline correction, and preplanning on non-localized images.

Also available:

ST2000—Module to OmniSight® Excel

ST3000—Desktop computer with 20" flat panel desktop, keyboard, mouse

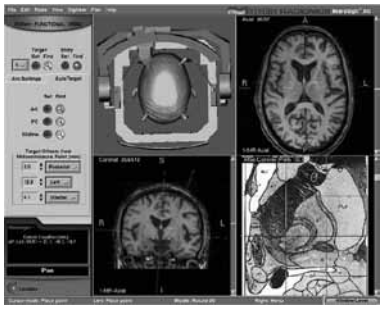
IF3000



ImageFusion™ Software

ImageFusion™ software correlates multiple image modalities including CT and a range of MR image types for the highest accuracy available.

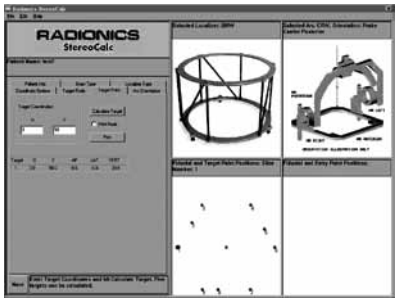
ATLASSW



AtlasPlan™ Software

AtlasPlan™ software is dynamically linked to NeuroSight® Arc and provides target confirmation using anatomic detail from a trusted source.

SCSWCD



StereoCalc™ Software (CD-ROM)

StereoCalc™ software is a unique, straightforward target planning software that eliminates the need for manual target coordinate calculations.

Also available:

HPPCI—StereoCalc™ on a laptop computer

Training

User's Manuals

15960003 Radionics® CRW® System
60901036 NeuroSight® Arc Software
72901270 ImageFusion™ Software
60901043 AtlasPlan™ Software
60901113 StereoCalc™ Software

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