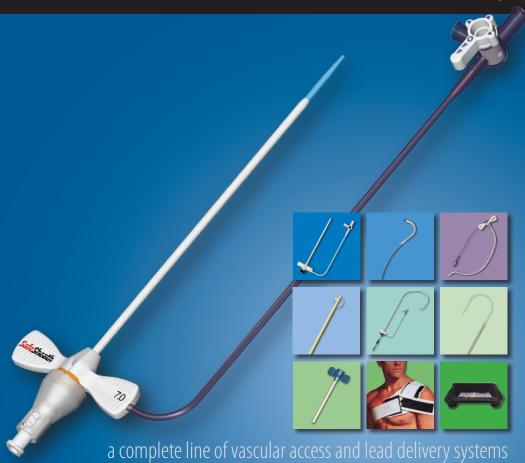
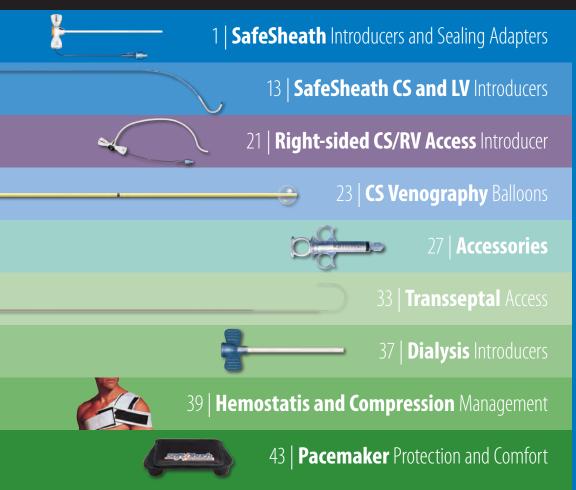


Product Catalog



Product Catalog

SafeSheath Introducers and Sealing Adapters





29.5cm

2

SafeSheath® II and SafeSheath® II Long

Hemostatic Peel-away Introducer System for Vascular Access



Time-tested design of a tear-away sheath and hemostatic valve with new and improved features to reduce back bleeding and the possibility of air embolism during venous access.

Building on the success of the original, SafeSheath II continues to revolutionize venous access, setting new standards for performance and features, and facilitating better outcomes.

SafeSheath II Introduced into the subclavian vein in the standard manner, the hemostatic valve of the SafeSheath II seals the device during lead introduction and positioning.

The easy splitting, ergonomically-shaped break-away hub greatly simplifies sheath removal after lead or catheter placement. Extruded score line construction ensures a clean, even peel every time. A new elastomer snap-locking dilator connector assures a firm attachment to the sheath. The three-way stopcock side port provides a convenient means of aspirating and flushing the introducer, as well as for contrast and fluid administration. Finally, the advanced design of the lubricated

hemostatic valve enables low insertion and withdrawal forces, delivering greater control during lead manipulation.

SafeSheath II Long The 23cm
Long provides access beyond the right subclavian-SVC junction, from both the left cephalic and subclavian veins. The extra length helps when upgrading existing systems by the addition of new leads and for atypical venous access sites—axillary or femoral. It also acts as a 'supporting' platform for the introduction of defibrillator leads.













Features

- Standard 13cm length for access to subclavian vein, and 23 cm Long model for access beyond the right subclavian-SVC junction
- Extruded score line peel-away sheath for clean, even peeling during removal
- Longer, smoother sheath tip to dilator transition for ease during insertion
- Lubricated hemostatic valve with low insertion and withdrawal forces yields greater control during lead manipulation and reduces risk of blood loss and air embolism
- Convenient sideport with three-way stopcock for infusion and contrast injection, like the original SafeSheath
- ▶ Wide range of French sizes
- French size on handle and indicated by color-coded introducer cap
- ► Elastomer snap-locking dilator connector like the original SafeSheath with French size embossed on handle
- Ergonomic, easy-splitting breakaway hub

SafeSheath II Tear-away valved hemostatic sheath system w/side port						
Model	Size	Hub Color	Dilator Length	Length		
SS6	6.0 French	Green	13cm	19.5cm		
SS7	7.0 French	Orange	13cm	19.5cm		
SS8	8.0 French	Blue	13cm	19.5cm		
SS85	8.5 French	Light Blue	13cm	19.5cm		
SS9	9.0 French	■ Black	13cm	19.5cm		
SS95	9.5 French	Light Black	13cm	19.5cm		
SS10	10.0 French	Fuschia	13cm	19.5cm		
SS105	10.5 French	Light Fuschia	13cm	19.5cm		
SS11	11.0 French	Yellow	13cm	19.5cm		
SS12	12.0 French	■ Brown	13cm	19.5cm		
SS125	12.5 French	Light Brown	13cm	19.5cm		

Guide Wire for standard SafeSheath is 50cm long with 0.D. of .038"

SafeSheath III ong Tear-away valved hemostatic sheath system w/side nor

Jaiconcath	Salesheath Teolog fear away valvearierilostatics ileatins ysteril wysiae port					
Model	Size	Hub Color	Dilator Length	Length		
SSL6	6.0 French	Green	23cm	29.5cm		
SSL7	7.0 French	orange	23cm	29.5cm		
SSL8	8.0 French	Blue	23cm	29.5cm		
SSL9	9.0 French	■ Black	23cm	29.5cm		
SSL10	10.0 French	Fuschia	23cm	29.5cm		
SSL105	10.5 French	Light Fuschia	23cm	29.5cm		

Guide Wire for SafeSheath Long is 60cm long with 0.D. of .038

SSL11

All **SafeSheath Introducer Systems** include sheath, dilator, needle and syringe. SafeSheath is a registered trademark of Pressure Products Medical Supplies, Inc.

SafeSheath® and SafeSheath® Long

Hemostatic Peel-away Introducer System for Vascular Access



The convenience of a tear-away introducer combined with a hemostatic valve preventing back bleeding and greatly reducing the possibility of air embolism.

SafeSheath® is the intelligent choice for your vascular access needs.

SafeSheath The industry standard—combines an introducer with a hemostatic valve to prevent back-bleeding and air embolization during lead introduction and positioning. Designed primarily for venous access, the 13cm SafeSheath is introduced into the subclavian vein in the standard manner. Its pre-scored sheath ensures a clean, even peel each time, greatly simplifying removal after lead or catheter placement. And the hemostatic valve and snap-fit dilator hub make SafeSheath the leader when it comes to all your implantation needs.

SafeSheath Long When a longer introducer is required there's the 25cm SafeSheath Long, providing sheath access beyond the right subclavian-SVC junction, from both the left cephalic and subclavian veins. The longer introducer helps when upgrading existing systems by the addition of new leads and for atypical venous access sites—axillary or femoral. It also acts as a 'supporting' introducer for the introduction of defibrillator leads.













Features

- ➤ Wide range of French sizes indicated by color-coded introducer cap
- Side port for "keep open" infusion and contrast injection
- Innovative peel-away sheath with break-away hemostasis valve
- ► Improved dilator/sheath transition to reduce vein entrance forces
- Hemostatic valve permits exchange of multiple lead insertions without further interventions or "sticks"
- Reduced risk of blood loss and air embolism
- ► Handles like a standard tear-away introducer
- Standard 13cm length as well as
 25cm for atypical venous access sites

Model	Size	Hub Color	Length	Dilator Length
HLS-1005	5.0 French	Gray	13cm	20cm
HLS-1006	6.0 French	Green	13cm	20cm
HLS-1007	7.0 French	Orange	13cm	20cm
HLS-1008	8.0 French	■ Blue	13cm	20cm
HLS-1008.5	8.5 French	Light Blue	13cm	20cn
HLS-1009	9.0 French	■ Black	13cm	20cm
HLS-1009.5	9.5 French	White	13cm	20cn
HLS-1010	10.0 French	White	13cm	20cn
HLS-1010.5	10.5 French	White	13cm	20cn
HLS-1011	11.0 French	White	13cm	20cn
HLS-1012	12.0 French	White	13cm	20cn
HLS-1012.5	12.5 French	☐ White	13cm	20cn

SafeSheath Long	Tear-away valved	hemostatic sheath	system w/s	ide port
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	Model	Size	Hub Color	Length	Dilator Length
	HLS-2507	7.0 French	Orange	25cm	31.5cm
	HLS-2508	8.0 French	■ Blue	25cm	31.5cm
	HLS-2509	9.0 French	■ Black	25cm	31.5cm
	HLS-2510	10.0 French	White	25cm	31.5cm
	HLS-2510.5	10.5 French	White	25cm	31.5cm
	HLS-2511	11.0 French	White	25cm	31.5cm
:					

Guide Wire for SafeSheath Long is 80cm long with 0.D. of .038

All SafeSheath Introducer Systems include sheath, dilator, needle and syringe. The H. Lee SafeSheath® hemostatic splittable sheath is protected by Patent Insurance. USA Patent 5,409,463. European Patent EPOS93685. SafeSheath is a registered trademark of Pressure Products Medical Supplies, Inc.

SafeSheath® Ultra and SafeSheath® Ultra Long

Hemostatic Peel-away Introducer System for Vascular Access



The SafeSheath Ultra family of introducers combines a tear-away sheath and hemostatic valve to reduce back bleeding and the possibility of air embolism.

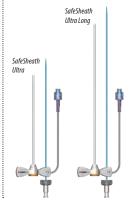
SafeSheath Ultra Introduced into the subclavian vein in the standard manner, the hemostatic valve of the 13cm Ultra seals the device during lead introduction and positioning.

The easy splitting, ergonomically shaped break-away hub greatly simplifies sheath removal after lead or catheter placement. The extruded score line construction ensures a clean, even peel every time. A new locking dilator connector assures a firm attachment to the sheath

The design of the low profile luer activated side port reduces interference with other devices, providing a convenient means of aspirating and flushing the introducer, as well contrast and fluid administration.

Finally, the silicone oil-free construction means the Ultra will not affect the sensing and pacing characteristics of today's pacemaker leads.

SafeSheath Ultra Long The 23cm Ultra Long provides access beyond the right subclavian-SVC junction, from both the left cephalic and subclavian veins. The extra length helps when upgrading existing systems by the addition of new leads and for atypical venous access sites axillary or femoral. It also acts as a 'supporting' introducer for the introduction of defibrillator leads.ting' introducer for the introduction of defibrillator leads.













Features

- French size printed on handle and indicated by color-coded introducer cap
- Silicone oil-free construction won't interfere with the sensing and pacing characteristics of current pacemaker leads
- Positive locking dilator cap with French size
- Smooth transtition between tip and dilator
- ► Low profile luer activated side port for infusion and contrast injection
- Extruded score line peel-away sheath for clean, even peeling during removal combined with an ergonomically designed, easy-splitting hub
- Hemostatic valve with low insertion and withdrawal forces permits multiple lead insertions without further interventions with reduced risk of blood loss and air embolism

SafeSheath Ultra Tear-away valved hemostatic sheath system w/side port							
Model	Size	Hub Color	Length	Dilator Length			
SU6	6.0 French	Green	13cm	18cm			
SU7	7.0 French	Orange	13cm	18cm			
SU8	8.0 French	Blue	13cm	18cm			
SU85	8.5 French	Light Blue	13cm	18cm			
SU9	9.0 French	■ Black	13cm	18cm			
SU95	9.5 French	Light Black	13cm	18cm			
SU10	10.0 French	Fuschia	13cm	18cm			
SU105	10.5 French	Light Fuschia	13cm	18cm			
SU11	11.0 French	Yellow	13cm	18cm			
SU12	12.0 French	Brown	13cm	18cm			
SU125	12.5 French	Light Brown	13cm	18cm			
Guide Wire for standard SafeSheath Ultra is 50cm long with 0.D. of .038"							

SafeSheath Ultra Long Tear-away valved hemostatic sheath system w/side port

Model	Size	Hub Color	Length	Dilator Length
SUL6	6.0 French	Green	23cm	28cm
SUL7	7.0 French	Orange	23cm	28cm
SUL8	8.0 French	■ Blue	23cm	28cm
SUL9	9.0 French	■ Black	23cm	28cm
SUL10	10.0 French	Fuschia	23cm	28cm
SUL11	11.0 French	Yellow	23cm	28cm
:				

Guide Wire for SafeSheath Ultra Long is 50cm long with O.D. of .038"

All SafeSheath Ultra Introducer Systems includes sheath, dilator, 18g needle, 10cc syringe, and 50cm guidewire. The H. Lee SafeSheath®, hemostatic splittable sheath is protected by Patent Insurance. European Patent EP0593685. SafeSheath is a registered trademark of Pressure Products Medical Supplies, Inc.

SafeSheath® Ultra Micro

Hemostatic Peel-away Introducer System for Micro Vascular Access



Utilizing a 21G needle and 0.018" guidewire, the SafeSheath Ultra Micro introducer is designed for micro venous access to improve safety during lead delivery.

The SafeSheath Ultra Micro is specially designed to improve safety during lead delivery. Utilizing a 21G needle and 0.018" guidewire, the SafeSheath Ultra Micro introducer is designed for micro venous access. Its smaller dilator tip enables a smooth transition to the micro guidewire reducing the risk of pneumothorax, while the longer low profile sheath tip facilitates lower insertion forces. The Micro's 7 French, 13cm long sheath provides access into the subclavian vein in the standard manner.

The easy splitting, break-away hub greatly simplifies sheath removal after lead or catheter placement. The extruded score line construction ensures a clean, even peel every time. A new locking dilator connector assures a firm attachment to the sheath.

The design of the low profile luer activated side port reduces interference with other

devices, providing a convenient means of aspirating and flushing the introducer, as well contrast and fluid administration.

Finally, the silicone oil–free construction means the Ultra will not affect the sensing and pacing characteristics of today's pacemaker leads.







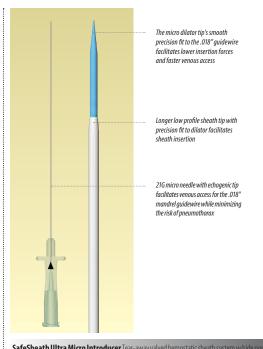






Features

- Small diameter dilator tip provides smooth transition to micro guidewire
- ► Longer low profile sheath tip enables lower insertion force
- ► A 21 gauge micro needle for venous puncture
- Extruded score line peel-away sheath for clean, even peeling during removal
- Ergonomic, easy-splitting breakaway hub
- Hemostatic valve with low insertion and withdrawal forces permits multiple lead insertions without further interventions
- Low profile luer activated side port for infusion and contrast injection
- Silicone oil-free construction won't interfere with the sensing and pacing characteristics of current pacemaker leads
- French size printed on handle and indicated by color-coded introducer cap
- Positive locking dilator connector
- Reduced risk of blood loss and air embolism



balesileatii ottra micro introducer leai-away valved helilostatic sileatii system wyside port						
Model	Size	Hub Color	Length	Dilator Length		
SUM7	7.0 French	Orange	13cm	18cm		

Guide Wire for SafeSheath Ultra Micro is 50cm long with 0.D. of .018"

The H. Lee SafeSheath®, hemostatic splittable sheath is protected by Patent Insurance. European Patent EPOS9368S. Additional U.S. and Worldwide Patents Pending. SafeSheath is a registered trademark of Pressure Products Medical Supplies, Inc.

SafeSheath® Sealing Adapter Hemostatic Valve System

The Sealing Adapter provides the convenience of the SafeSheath splittable valved system when using a Medtronic Attain™ or St. Jude Medical CPS® Introducer.



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Every SafeSheath Sealing Adapter provides an air- and fluid-tight seal between it and the introducer. Its specially-designed valve allows insertion of single or multiple wires while remaining hemostatic, reducing back bleeding and the possibility of air embolism during lead introduction or exchange.

The convenient sideport allows aspiration and flushing of the introducer, as well contrast and fluid administration. And after lead or catheter placement, the easy-splitting, break-away hub greatly simplifies device removal.

Each Sealing Adapter for the Medtronic Attain comes with a press-fit connector insuring a secure attachment between adapter and sheath. The extended wing version makes breaking apart the hub effortless

The slot-locking mechanism of the Sealing Adapter for St. Jude Medical CPS introducers creates a tight seal with both braided and non-braided models.

Features











- ▶ Unique press-fit connector for Medtronic Attain introducers
- Slot-locking mechanism designed to securely attach to St. Jude Medical CPS introducers.
- ► Fluid- and air-tight seal between Sealing Adapter and introducer
- Innovative tear-away design with breakaway hemostasis valve
- Remains hemostasic when multiple wires are within it, as well as when leads need to be introduced or exchanged
- Reduced risk of blood loss and air. embolism
- A side port for "keep open" infusion

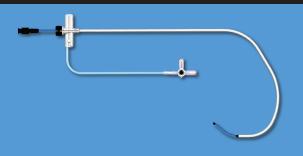
SafeSheath Sealing Adapter for Medtronic Attain™ Introducers

Model	Size	Hub Color	Description
SS-SA-09	9.0 French	Black	Standard Wing for Attain Introducers
SS-SA-EW-09	9.0 French	■ Black	Extended Wing for Attain Introducers

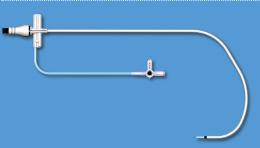
SafeSheath Sealing Adapter for St. Jude Medical CPS® Introducers						
Model	Size	Hub Color	Description			
410195	9.0 French	■ Black	Standard Wing for CPS Introducers with Slot-Locking Mechanism			

The H. Lee SafeSheath® hemostatic splittable sheath is protected by Patent Insurance. USA Patent 8,048,061. Canadian Patent 2,493,189. European Patent EP1545677. Japanese Patent 4705779. Other Worldwide Patents pending. SafeSheath is a registered trademark of Pressure Products Medical Supplies, Inc. Attain is a trademark of Medtronic, Inc. CPS is reaistered trademark of St. Jude Medical.

SafeSheath CS Introducers and Lateral Vein Introducers



SafeSheath CSG Braided Core



SafeSheath CSG Extruded Core

Hemostatic Peel-away Introducer System



SafeSheath® Worley LVI

SafeSheath® CSG® Worley Braided Core Series

Hemostatic Peel-away Introducer System with Braided Core for CS Access



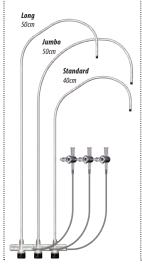
Splittable-valved, peel-away hemostatic introducer system combined with a high-torque, radiopaquetipped sheath and braided core for CS access.

The SafeSheath CSG's braided core provides improved torque control. Both the introducer and core are radiopaque-tipped for better fluoroscopic visualization. Multiple introducer angles and the advancable core improve ease of CS placement.

The CSG enters the coronary sinus and remains in position during angiography and lead placement, remaining hemostatic during subsequent procedures.

Worley Curve The SafeSheath CSG
Worley Braided Core line of introducers
incorporate a unique sheath curve.
Designed specifically for ventricular
resynchronization therapy where the
right-sided chamber is significantly
dilated, the long gentle throw of the
Worley causes its tip to virtually fall into
the coronary sinus OS. Various shapes can
be created by advancing the braided core
into the sheath, better facilitating
CS cannulation

Made from crush-resistant material, the CSG Worley is available in standard, long and jumbo sizes, enabling access to any anatomy. All 9 French CSG sheaths can be used as a coronary sinus access platform for our family of CSG Worley Telescoping LV introducers.







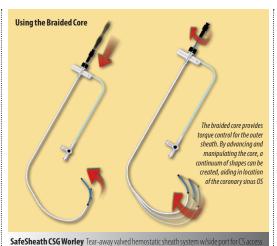






Features

- ► Braided, soft-tipped core for improved torque control and stability
- Peel-away sheath with break-away hemostasis valve
- Radiopaque tip marker on sheath and core for improved fluoroscopic visualization
- ► Multiple angles for CS lead placement
- ➤ Side port for "keep open" infusion and contrast injection
- Reduces risk of blood loss and air embolism
- ► Handles like standard peel-away introducer
- ► May be left in position during placement of other leads
- Permits lead exchange quickly, without further interventions or "sticks"



SG/WORLEY/BCor-1-09 Standard 40cm 9French l.D. 0.157" 0.130" 0.122" SG/WORLEY/L/BCor-1-09 Standard 50cm 9French l.D. 0.157" 0.130" 0.122"				, , , , , , , , , , , , , , , , , , , ,			
SG/WORLEY/L/BCor-1-09 Standard 50cm 9 French I.D. 0.157" 0.130" 0.122" SG/WORLEY/BCor-2-09 Jumbo 50cm 9 French I.D. 0.157" 0.130" 0.122" Each kit includes: Tech kit includes: 0.035" — — Curved Guiding Core (9F introducers) — 0.018" 0.095" 0.092" Curved Guiding Core (7F introducers) — — 0.095" 0.072" 0.069" Straight Vessel Dilator — — — 0.038" Transvalvular Insertion Tool (TV) 1.75" 7 French 0.17" 0.097" — Needle 2.75" 18 gauge — 0.07" 0.020"	Model	Curve	Length	Size	0.D.	I.D.	Tip I.D.
SG/WORLEY/BCor-2-09 Jumbo 50cm 9 French I.D. 0.157" 0.130" 0.122" Each kit includes: PT.F.E. Guide Wire 135cm — 0.035" — — Curved Guiding Core (9F introducers) — — 0.118" 0.095" 0.092" Curved Guiding Core (7F introducers) — — 0.095" 0.072" 0.069" Straight Vessel Dilator — — — 0.038" Transyalvular Insertion Tool (TVI) 1.75" 7 French 0.17" 0.097" — Needle 2.75" 18 gauge — — —	CSG/WORLEY/BCor-1-09	Standard	40cm	9 French I.D.	0.157"	0.130"	0.122"
Each kit includes: 91.FE. Guide Wire 135 cm — 0.035" — — PT.FE. Guide Wire 135 cm — 0.118" 0.095" 0.092" Curved Guiding Core (9F introducers) — — 0.099" 0.072" 0.069" Straight Vessel Dilator — — — — 0.038" Transyalvular Insertion Tool (TVI) 1.75" 7 French 0.117" 0.097" — Needle 2.75" 18 gauge — 0.09" —	CSG/WORLEY/L/BCor-1-09	Standard	50cm	9 French I.D.	0.157"	0.130"	0.122"
P.T.E. Guide Wire 135cm — 0.035" — — Curved Guiding Core (9F introducers) — — 0.118" 0.095" 0.092" Curved Guiding Core (7F introducers) — — 0.095" 0.072" 0.069" Straight Vessel Dilator — — — — 0.038" Transvalvular Insertion Tool (TVI) 1.75" 7 French 0.117" 0.097" — Needle 2.75" 18 gauge — — —	CSG/WORLEY/BCor-2-09	Jumbo	50cm	9 French I.D.	0.157"	0.130"	0.122"
- 12tt	P.T.F.E. Guide Wire Curved Guiding Core (9F introduc Curved Guiding Core (7F introduc Straight Vessel Dilator Transvalvular Insertion Tool (TVI) Needle		1.75"	18 gauge	0.118" 0.095"	0.072"	0.069"
	syringe		_	IZU	_	_	_

The SafeSheath CSG Worley Introducer Systems include sheath, guiding core, vessel dilator, guide wire, T.V.I. (transvolvular insertion tool), needle and syringe. The H. Lee SafeSheath** CSG** split table hemostatic sheaths are protected by Patent Insurance. USA Patent 7,462,184. European Patent EP 1360972. Other USA and Worldwide Patents pending. SafeSheath and CSG are a registered trademarks of Pressure Products Medical Supplies, Inc.

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SafeSheath® CSG® Extruded Core Series

Hemostatic Peel-away Introducer System for CS Access



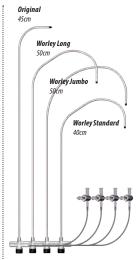
Splittable-valved, peel-away hemostatic introducer system with radiopaque-tipped sheath and shapeable, extruded core for coronary sinus access.

SafeSheath CSG enters the coronary sinus and remains in position during angiography and lead placement, remaining hemostatic during subsequent procedures.

SafeSheath CSG The multipurpose 90° curve of our original CSG enables ease of CS cannulation, while the improved tip transition results in less traumatic tip placement.

SafeSheath CSG Worley Incorporating a unique sheath curve, the Worley is designed specifically for ventricular resynchronization therapy where the right-sided chamber is significantly dilated, its long gentle throw causing its tip to virtually fall into the coronary sinus 0S. The CSG Worley is also made from crush-resistant material and is available in standard, long and jumbo sizes.

All CSGs can be used as a coronary sinus access platform for our family of Worley Telescoping LV introducers.













Features

- Innovative peel-away sheath with break-away hemostasis valve
- Radiopaque tip on sheath for better fluoroscopic visualization
- ► Multiple angles and a shapeable core aid in CS lead placement
- ➤ Side port for "keep open" infusion and contrast injection
- Reduces risk of blood loss and air embolism
- ► Handles like standard tear-away introducer
- May be left in position during placement of other leads
- Permits lead exchange quickly, without further interventions or "sticks"

GafeSheath CSG Worley Tear-away valved hemostatic sheath system w/side port for CS access							
Model	Curve	Length	Size	0.D.	I.D.	Tip I.D.	
CSG/WORLEY-1-09	Standard	40cm	9 French I.D.	0.157"	0.130"	0.122"	
CSG/WORLEY/L-1-09	Standard	50cm	9 French I.D.	0.157"	0.130"	0.122"	
CSG/WORLEY-2-09	Jumbo	50cm	9 French I.D.	0.157"	0.130"	0.122"	

afeSheath CSG Tear-away	ay valved hemostatic sheath system w/side port for CS access					
Model	Curve	Length	Size	0.D.	I.D.	Tip I.D.
CSG-90-09	90° curve	45cm	9 French I.D.	0.157"	0.130"	0.122"
Curved Guiding Dilator	45° angle 90° angle 180° angle 180° angle 180° angle —— ——	135cm 63.9cm 44.3cm 53.3cm 53.3cm — 1.75" 2.75"	7 French	0.035" 0.118" 0.118" 0.118" 0.118" — 0.119"	0.042" 0.042" 0.042" 0.042" 0.099"	0.038" 0.038" 0.038" 0.038"

The SafeSheath CSG and CSG Worley Introducer Systems include sheath, guiding dilator, vessel dilator, guide wire, I.V.I. (transvolvular insertion tool), and needle. The H. Lee SafeSheath* CSG* splittable hemostatic sheaths are protected by Patent Insurance IJSA Patent 746-134. Heuropean patente IPS 109072 Other LSA and Worldwide Patents pending. SafeSheath and CSG are a registered trademarks of Pressure Products Medical Supplies, Inc.

SafeSheath® Worley Telescopic LV Introducers

Hemostatic Introducer System for sub-selective access during LV lead placement



Uniquely-shaped, high-torque, sliceable hemostatic introducer system with Target Vein Selector for sub-selective access during LV lead placement.

Reduce Implant Times 30-50%

High pacing thresholds, phrenic pacing, lead instability and angulated venous branches can make for difficult and prolonged procedure times, resulting in less desirable lead position and implant failures. The SafeSheath® Worley Telescopic Braided Lateral Vein Introducer (LVI) System is designed to solve this problem. When deployed through the LVI, the new 5 French O.D. Target Vein Selector is the easiest way to locate and cannulate the target vein, serving as a "rail" for advancing the LVI into the vein. The 7 French I.D. SafeSheath LVI provides needed support

and stability during implant procedures, for delivery of larger, more stable leads.

Contrast injection is easily accomplished with the LVI's convenient sideport, while the radiopaque tip marker enhances fluoroscopic visualization during procedures.

The unique, breakaway hub requires no plastic to cut through, reducing the risk of lead dislodgement, while the integrated handle stays firmly attached to the sheath, helping with control and stability during slicing and removal. Finally, the advanced material of the LVI sheath offers uniform resistance during slicing with the userfriendly cutter.





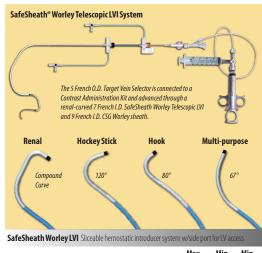






Features

- ► 5 French O.D. Target Vein Selector makes target vessel identification and quide wire placement a snap, greatly reducing implant times
- 7 French I.D. introducer provides support and stability for easier, reliable delivery of larger, more stable leads despite tortuous
- Unique combination of proximal and distal curves for sub-selective access to angulated lateral vein branches
- Braided sheath construction for better torque control and stability with multidurometer proximal curve for improved tip directivity
- Break-away hub with integrated handle requires no cutting and provides a secure grip during slicing
- Radiopaque tip marker on introducer for enhanced fluoroscopic visualization
- Easy-to-use slicer mates to the SafeSheath hub to create a stable platform for the cutting hand
- Side port for "keep open" infusion and convenient contrast injection
- Hemostatic hub reduces the risk of blood loss and air embolism



Model	Shape/Curve	Length	Size	Max. 0.D.	Min. I.D.	Min. Tip I.D.
LVI/75-5-62-07-RE	Renal / Compound	62cm	7FI.D.	0.120"	0.090"	0.090"
LVI/75-5-62-07-H0	Hook/80°	62cm	7FI.D.	0.120"	0.090"	0.090"
LVI/75-5-62-07-HS	Hockey stick / 120°	62cm	7FI.D.	0.120"	0.090"	0.090"
LVI/75-5-62-07-MP	Multi-purpose / 67°	62cm	7FI.D.	0.120"	0.090"	0.090"
Each kit includes: Transvalvular Insertion Slicer	Tool (T.V.I.)	1.75"	7F —	0.121"	0.089"	_
Target Vein Selector		75cm	_	5F	.041" ± .001"	_

The SafeSheath Worley Telescopic Series of Lateral Vein Introducer Systems includes sheath, T.V.I. (transvalvular insertion tool), Slicer and Target Vein Selector (except 5.5 French Renal LVI). The H. Lee SafeSheath® CSG® splittable and SafeSheath® CSG® Braided sliceable hemostatic sheaths are protected by Patent Insurance. USA Patents 5,409,463, 6,966,896, 7,384,422 and 7,993,351. Japanese Patent 4695878. European Patents EP1539277 and EP1542630. The Braided Sheath Cutter is covered by USA Patent 6,497,681. Other USA and Worldwide Patents pending. SafeSheath and CSG are registered trademarks of Pressure Products Medical Supplies, Inc.

Right-sided CS/RV Access Introducer



SafeSheath® II Worley **Right-sided Access Introducer** Hemostatic Peel-away Introducer System

SafeSheath® II Worley Right-sided Access Introducer

Gains access to the RA, for delivery of catheters into the CS or pacing leads into the right ventricle making rightsided LV or RV access as easy as coming from the left.



The specially designed shape of the 23cm SafeSheath II Worley Right-sided Access Introducer makes right-sided LV or RV access as easy as coming from the left, virtually eliminating the kinking that sometimes occurs when approaching from the right side with a straight introducer.

The unique distal curve when positioned in the high RA, provides a convenient pivot point for directing CS access catheters to the coronary sinus, such as the SafeSheath Worley Telescopic LV introducer system, creating a stable work platform for better control during lead placement, and reduced risk of lead dislodgement during CS catheter removal. The Right-sided introducer is also perfect for placing leads into the RV and right ventricular outflow tract.

The SafeSheath II Worley Right-sided Access Introducer is a breakthrough technology for left ventricular pacing from the right subclavian and is also an excellent platform for standard RV pacing.



Features

- Curved shape designed for making rightsided access during BiV LV procedures as easy as approaching from left side
- Enables access to the RA, for delivery of catheters into the CS or pacing leads into the right ventricle
- Virtually no chance of kinking during rightsided access introduction
- Uniquely shaped distal curve acts as a pivot point for CS access catheter, for stability and control during lead placement and removal
- Ergonomic, easy-splitting break-away hub and extruded score line peel-away sheath for clean, even peeling during removal
- Hemostatic valve with low insertion and withdrawal forces permits multiple lead insertions without further interventions
- Convenient sideport with three-way stopcock for infusion and contrast injection
- ► Elastomer snap-locking dilator connector with French size embossed on handle

afeSheath	II Worley Right-sid	led Access Introducer		
Model	Size	Hub Color	Length	Dilator Length
SSR9	9.0 French	Black	23cm	28cm

Guide Wire for SafeSheath II Worley Right-sided Access Introducer is 50cm long with 0.D. of .038''

SafeSheath is a registered trademark of Pressure Products Medical Supplies, Inc.

CS Venography Balloons



22

SafeVue[™] Balloon Catheter CS Venous System Visualization Aid



CS Balloon Venography Catheter

Coronary Sinus Venous System
Visualization Aid

72

SafeVue[™] Balloon Catheter CS Balloon Venography System

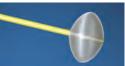
CS Balloon Venography Catheter CS Venous System Visualization Aid

SafeVue Balloon Catheter system is specially designed with the largest diameter balloon available for optimal coronary sinus occlusion and venography.



The SafeVue™ Balloon Venography
Catheter enables temporary vascular
occlusion or balloon catheter flotation.
With a 1.75cm maximum inflation diameter, the SafeVue's balloon is 75% larger
than that of a standard balloon catheter,
providing optimum CS occlusion and
venography visualization.SafeVue may be
used for procedures requiring angiography,
wedge pressure measurements, or any
other procedure where a vessel needs to be
occluded while maintaining a distal lumen.

SafeVue's low profile design allows advancement of the device through any CS access sheath, 6.5 French or larger, including the SafeSheath CSG family of introducers. It features a port for distal contrast injection or guidewire placement, a pressure relief valve for regulating balloon pressure and reducing the possibility of vessel trauma, and a radiopaque tip marker band for better fluoroscopic visualization.











Features Large 1.7: high dian

- Large 1.75cm balloon diameter with high diameter-to-length aspect ratio for optimal coronary sinus occlusion and venography visualization
- Rotationally wrapped balloon with "floating" coaxial catheter design enables the balloon to fit through a 6.5F introducer
- Pressure relief valve in fluid communication with the inflation lumen regulates the balloon pressure, minimizing the potential for vessel trauma or dissection
- Radiopague marker band at tip
- Compatible with the SafeSheath CSG family of introducers
- Inner lumen accepts a 0.025" diameter quidewire
- ► Markers every 10cm from proximal tip
- ► Latex- and PVC-free design

Pending 510(k), not approved for sale in the

SafeVue Ballo	ue Balloon Catheter Coronary sinus balloon venography catheter system			
Model	Min. Introducer Size	Size	Lumens	Length
BVCS6290	6.5 French	6.0 French	2	90cm

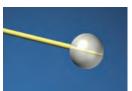
U.S. and Worldwide Patents Pending. SafeVue is a trademark of Pressure Products Medical Supplies, Inc.

The Coronary Sinus Balloon Venography Catheter system Aids visualization of the CS venous system during left ventricular epicardial lead placement.



The Coronary Sinus Balloon Venography Catheter is designed for placement in the proximal coronary sinus via SafeSheath® CSG® introducer. When inflated, the coronary sinus is occluded and venography easily accomplished.

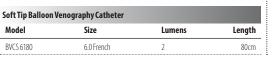
The CS Balloon Venography Catheter features a 1cm diameter balloon and a port for distal contrast injection or quidewire placement.



Features

- 1cm diameter Balloon
- Useful for occlusion of the CS
- Aids visualization of the coronary sinus venous system
- Inner lumen for contrast injection or guidewire placement
 - Markers every 10cm from proximal tip
 - Designed to work with the SafeSheath CSG and Worley line of LV introducers, as well as SafeSheath Sealing Adapters





Accessories



SiteLight[™] Sterile Surgical Light

Lightweight, easy to mount sterile surgical light provides a cool, bright, focused white light exactly where needed during surgical procedures.

The compact design of the SiteLight disposable sterile surgical light puts a focused beam of cool white light directly where you need it during surgical procedures.

Incorporating a convenient topmounted push button switch, the light
can be turned on and off as needed,
providing over 60 minutes of continuous

tools or other devices.

operation. And with a color temperature of approximately 5100° K, the SiteLight provides virtually tint-free illumination of the site for accurate viewing.

A self-adhesive disk enables the
SiteLight to be releasably mounted to
any sterile surface in the surgical setting, including gloves, drapes, surgical
tools or other devices.



Features

- ► Sterile, low-cost disposable design
- Super bright white light with approximately 5100° Kelvin color temperature
- ➤ Very light, weighing less than 9 grams
- ► Fixed-focus 2 inch diameter LED beam

SiteLight is a trademark of Pressure Products Medical Supplies, Inc.

- Compact, low-profile design with self-adhesive pad for easy mounting to any surface
- Over 60 minutes of continuous light output
- Cool to the touch

SiteLight Sterile	Surgical Light		
Model	Weight	Color Temp.	Light Type
SSL	8.5 g	5100° Kelvin	LED

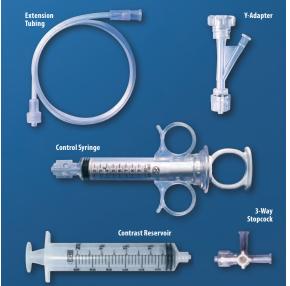
Contrast Administration Kit

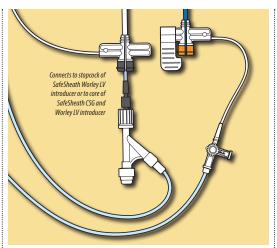
Contrast injection components for use with coronary sinus introducers, including the SafeSheath CSG and SafeSheath Worley LV families of introducers.

The CSG and LVI Contrast Administration Kit provides convenient contrast injection capability during CS lead placement.

Designed for use with CS introducers with luer adapters, such as the **SafeSheath**

CSG family of coronary sinus introducers and **SafeSheath Worley Telescopic Series** of lateral vein introducers (LVI), the kit allows contrast injection while maintaining hemostasis.







Each sterile kit includes:

- ➤ 30cc contrast reservoir
- ► 10cc control syringe
- ► Hemostatic Y-adapter
- 20 inch extension tube resists
- staying coiled

 3-way stopcock

antract	Admin	ictration	Vi+

 Model
 Contrast Capacity
 Length

 ARMT001-04
 30cc
 20in

SafeSheath and CSG are registered trademarks of Pressure Products Medical Supplies, Inc.

Transvalvular Insertion Tool (TVI)

An aid for opening a SafeSheath[®] hemostatic valve during the introduction of various types of pacing or defibrillator leads and catheters.



The Transvalvular Inserton Tool (TVI) is designed to open the valve for lead placement via the SafeSheath® and SafeSheath® CSG® family of introducers and Sealing Adapters. When inserted into the valve housing of the introducer, the 7 French TVI aids insertion and advancement of a pacemaker lead through the sheath. The TVI may then either be withdrawn and peeled away or left resting on the shaft of the pacemaker lead.

Features

- Opens the valve of a SafeSheath introducer or Sealing Adapter for placement of lead or catheter
- ► Can be used with leads up to 9 French
- Easily peeled away after lead placement



Transvalvular Insertio	n Tool (TVI)	
Model	Size	Max. Lead Size
TVI-07	7 French	6.2 French

Braided Sheath Cutter

An aid for removal of braided sliceable introducers, such as the SafeSheath family of Worley Lateral Vein introducers, after pacemaker lead or catheter placement.



The Cutter was specifically designed to assist in the removal of braided sliceable introducers, such as the SafeSheath® family of braided Worley Telescopic Lateral Vein Introducers (LVI).

After lead or catheter placement is complete and the introducer is ready for removal, the valve of the SafeSheath is manually split. The blade of the Cutter is positioned within a notch at the proximal end of the exposed sheath.

The Cutter is used to simultaneously cut the introducer during retraction while maintaining lead position. The need for an assistant or inadvertent lead dislodgement is minimized.

The unique pistol grip design of the Cutter provides greater control during sheath withdrawal. When cutting a Lateral Vein Introducer within a SafeSheath CSG, the proprietary C-ring firmly engages the hub of the CSG during LV introducer removal.



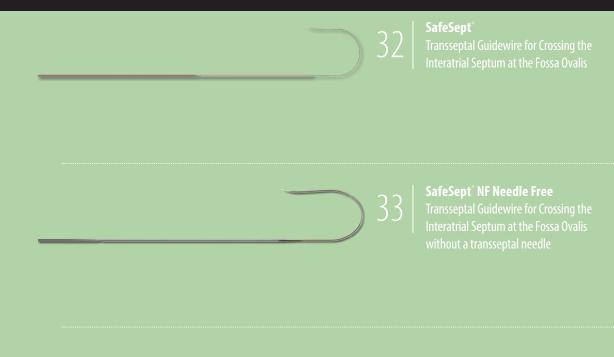


Features

- Special blade design fits within notch to cleanly cut sheath apart
- Unique pistol grip design provides better control during cutting and removal of sheath
- Constructed of biocompatible, latexand PVC-free materials
- ► Handles introducers up to 12F and leads to 6F
- Proprietary distal C-ring helps stabilize
 CSG during LVI slicing and removal

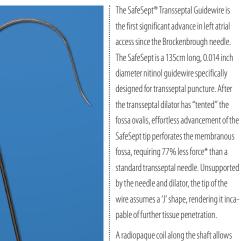
Model	Max. Sheath Size	Largest Lead Size
CUT	4.0mm/12 French	2.0mm/6 French

Transseptal Access



SafeSept® Transseptal Guidewire

Specially designed to improve safety and lessen penetration forces when crossing the interatrial septum at the fossa ovalis while supported by a transseptal introducer.



A radiopaque coil along the shaft allows for fluoroscopic visualization of the wire within the left atrium while proximal marker bands help determine the approximate location of the SafeSept tip in relation to the tip of the needle. The transseptal needle, dilator and sheath are then advanced "over the wire" into the left atrium with virtually no possibility of

aortic or pericardial perforation.

SS-135

Features SafeSept Typical transsenta transsental ► Radiopague coil makes the 0.014 inch diameter wire easily visible fluoroscopically Specially designed tip configuration requires 77% less force* than a standard transseptal needle, enabling effortless penetration of the fossa 'J' shape allows safe advancement to assure proper wire location within left atrium ► Transseptal needle and dilator are rendered atraumatic when tracking over the SafeSept Proximal marker bands help determine SafeSept tip location relative to transseptal needle tip during the procedure ▶ 135cm length for compatibility with all currently available adult transseptal introducer systems *Calculated from average transseptal needle and transseptal quidewire puncture forces during in vitro design qualification testing. SafeSept Transseptal Guidewire Model Lenath Diameter

135cm

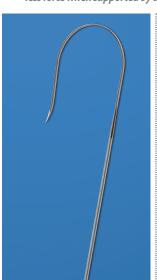
Patents 8.292.910; 8.157.829; EP1542593; JP4496223, Other U.S. and worldwide patents pendina.

SafeSept is a registered trademark of Pressure Products Medical Supplies, Inc.

0.014"

SafeSept® NF Needle Free Transseptal Guidewire

Specially designed to replace a transseptal needle while crossing the interatrial septum with improved safety and less force when supported by a transseptal introducer.



The SafeSept® NF Needle Free Transseptal Guidewire, when used in conjunction with a transseptal dilator and introducer, creates the primary puncture in the interatrial septum, without the need for a transseptal needle, providing access through the septum from the right side of the heart to the left side.

SafeSept NF is a 150cm long, 0.0315 inch diameter nitinol guidewire specifically designed for safer and easier transseptal puncture, requiring less force to perforate and cross the fossa. Unsupported by the dilator and sheath, the tip of the guidewire assumes a 'J' shape, rendering it incapable of further tissue penetration.

A radiopaque coil allows for fluoroscopic visualization of the wire within the left atrium while proximal marker bands help determine approximate SafeSept NF tip location relative to the dilator tip. Once proper guidewire location is confirmed, advancement of the transseptal dilator and sheath "over the wire" into the left atrium is accomplished with virtually no possibility of aortic or pericardial perforation.



Features

- 150cm length is works with all commercially available adult transseptal introducer systems without the need for a transseptal needle
- Distal radiopaque coil allows fluoroscopic visualization
- Specially designed tip configuration enables effortless penetration of the fossa, requiring less force than a standard transseptal needle
- 'J' shape allows safe advancement to assure proper wire location within left atrium
- Transseptal introducer and dilator are rendered atraumatic when tracking over the SafeSept NF
- Proximal marker bands help determine transseptal guidewire tip location relative to transseptal dilator tip during the procedure



SafeSept NF Needle	Free Transseptal Guidewire	
Model	Length	Diameter
SS-150	150cm	0.0315"

SafeSept is a registered trademark of Pressure Products Medical Supplies, Inc.
Patents 8.292.910: 8.157.829: EP1542593: JP4496223. Other U.S. and worldwide patents pendina.

Dialysis Introducers



SafeSheath D-Pro Hemostatic Peel-away Dialysis Introducer for Venous Access

SafeSheath D-Pro combines the convenience of a tearaway introducer with a hemostatic valve for safety and security during dialysis catheter introduction.



The D-Pro provides the safety and security of hemostatic access for dialysis catheter introduction by combining the convenience of a tear-away introducer with a hemostatic



Features

- ▶ Innovative peel-away sheath with break-away hemostasis valve
- Reduces risk of blood loss and air. embolism
- ➤ Smooth dilator/sheath transition to reduce vein entrance forces
- Optional side port for infusion and contrast injection
- ► Handles like standard tear-away introducer
- Comes in 14, 15, and 16 French; custom sizes available



SafeSheath D-Pro	Peel-away hemostatic she	eath	
Model	Size	Length	Dilator Length
DPRO-1016	16 French	13cm	20cm
SafeSheath D-Pro	Peel-away hemostatic she	eath with side port	

SafeSheath D-Pro	Peel-away hemostatic she	eath with side port	
Model	Size	Length	Dilator Length
DPRO-1016-S	16 French	13cm	20cm

All SafeSheath D-Pro Systems come with a sheath and dilator packaged in a pouch. The H. Lee SafeSheath® D-Pro hemostatic splittable sheath is protected by Patent Insurance through 2011. USA Patents 5,125,904, 5,312,355 and 5,409,463. Canadian Patent 2,112,394. European Patent EP0593685. SafeSheath is a registered trademark of Pressure Products Medical Supplies, Inc.

Hemostatis and Compression Management



HEMobilizer



HOLD



Pocket Pal II

HEMobilizer° for Immobilization of the Groin and Femoral Arterial Puncture Site

HOLD Hemostatic Occlusive Leverage Device

For immobilization of the groin and femoral arterial puncture site during prolonged procedures or when arterial sheaths are left indwelling.



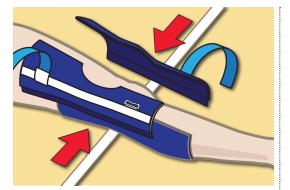
The HEMobilizer® device is designed to immobilize the groin and femoral area following femoral arterial puncture or when femoral arterial sheaths are to be left in place for extended periods of time.

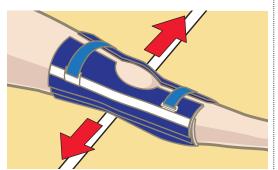
The device principle is simple. By immobilizing the knee and precluding both flexion (by means of the HEMobilizer 'stays') as well as medial and lateral motion (by means of the straps) significant motion at the catheterization site is eliminated.

HEMobilizer is ideal in the setting of:

- ► Cardiac catheterization
- ► Intra-aortic balloon pump procedures
- Coronary arteriography/angiography
- Coronary angioplasty
- ➤ Cerebral/renal/peripheral arteriography
- Valvuloplasty procedures

HEMobilizer is particularly well suited for situations where prolonged bleeding times and/or procedures are expected.





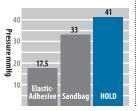
TIENIODITIZET DEVICETOR	mmobilization of the groin and femoral arterial puncture site
Model	Size
1200	fits most adults

Maintains pressure over femoral arterial or venous puncture site after cardiac catheterization, coronary arteriography or renal/peripheral arteriography



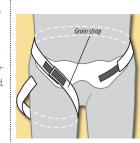
The Hemostatic Occlusive Leverage Device (HOLD) was designed to apply direct pressure over the puncture site following cardiac catheterization via the femoral artery or vein without the discomfort associated with the application and removal of an adhesive dressing or the difficulty with maintaining sandbags in a stable position.

Pressure is maintained over the area of femoral puncture for as long as is clinically desired. No extensive skin preparation is required, and no adhesive is applied to the patient. HOLD applies constant pressure using the force applied via an elasticized groin strap, and maintained in position by a pelvic apron. The device is easily applied and removed without any patient discomfort.



Features

- Avoids risk of skin abrasion and tape allergies
- No need for skin preparation or shaving
- Obviates need for heavy sandbags or adhesives
- Results in prolonged application of greater direct pressure to either femoral artery or vein



HOLD is a trademark of Pressure Products Medical Supplies, Inc.,

Compression disk

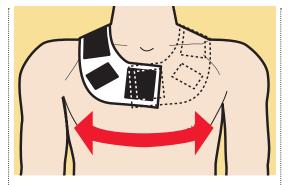
LD Hemostatic Occlusive Leverage Device		
lodel	Size	
-100S	Standard	
-150L	Large	
-200XL	Extra Large	
DLD Disc		
lodel		
-300		

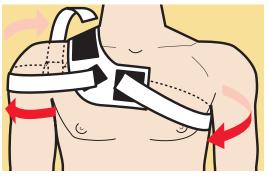
Pocket Pal II[™] Device Pocket Compression Harness with Cooling Gel Pack

Pocket Pal II was designed to provide moderate direct pocket compression and a means for cooling of the operative site in the immediate post-surgical period.

compression of the pacemaker pocket may result in a decreased incidence of post-operative hematoma formation. Additionally, considerable literature demonstrates that cooling of an operative incision reduces capillary blood flow, thereby decreasing both incisional pain and swelling.

Clinical experience has shown that moderate Pocket Pal II conveniently combines these two principles in a single, unique device. An elastic and velcro harness provides moderate, direct incisional compression while decreasing patient upper extremity motion. The compression apron houses a pouch designed to position a cooling gel pack directly over the fresh device pocket.





Pocket Pal II compression harness with cooling Gel Pack			
Model	Size		
PP-101	fits most adults		

Protected by Patent Insurance. Patented in USA. Worldwide Patents Pending. Pocket Pal is a trademark of Pressure Products Medical Supplies, Inc.

Pacemaker Placement, Protection and Comfort



SoftTouch[®] Pacemakers or other Medical Conditions



comfortHer[®]

Bra Strap Pad for Post-operative Comfort to Surgical Site

42

SoftTouch[™] Seat Belt Pad

Provides comfort and protection to those with pacemakers, defibrillators, chemotherapy ports, or other medical conditions while wearing a seat belt.

The patented SoftTouch seat belt pad is designed to provide comfort and a level of protection to your patients with implanted devices or other medical conditions while wearing a seat belt. SoftTouch provides support and comfort during everyday travel for patients with:

- Pacemakers
- Defibrillators
- . ()
- Other medical conditions
- ► When seat belt irritation is a problem

Made with polyurethane and silicone gel, the unique design and construction of the SoftTouch pad enables the medical device to sit in a free air space, reducing the forces over the region where the device is positioned, better protecting the driver in the event of an automobile accident.

SoftTouch lifts the shoulder belt like a bridge over the pacemaker implant area, eliminating direct contact between the medical device and the belt while at the same time lessening the discomfort from vibration transmission.



- ► Eliminates seat belt irritation
- ► Reduces compressive force over implant site
- ► Polyurethane and silicone gel construction
- Lessens transmission of vibration

oftTouch Seat Belt Pad		
lodel	Size	
T-1	fits most adults	
S A Patent 6 557 805 SoftTouch is a	trademark of Pressure Products Medical Sunnlies. Inc	



Provides post-operative comfort from bra strap irritation of the surgical site following implantation of a pacemaker or other medical device or procedure.



Following implantation of a pacemaker, defibrillator, chemotherapy port, or other medical procedure, your patient's bra strap can irritate the surgical site.

The fully adjustable comfortHer cushion provides post-operative comfort to the affected area when wearing a bra.

Made of a silky-soft, washable tricot nylon fabric with triple-padding and unique internal stiffeners, the comfortHer pad gently protects the post-surgical area from the constant rubbing of the bra strap during everyday activities.

Easily adjusted to fit any bra, the comfortHer pad's low profile enables it to be worn under most any clothing without being seen.

comfortHer is a trademark of Pressure Products Medical Supplies, Inc.



Features

- ► Fits on any bra strap
- ➤ Silky-feel tricot nylon fabric
- ► Triple padded for total comfort
- Low profile
- ▶ Washable

comfortHer Post-Surgery Bra Strap Pad			
Model	Size		
CH-1	fits most adults		



