

Percutaneous Sheath Introducer Systems

A
RROW

The most technically
advanced introducer
systems for
pulmonary/central
venous access.

With the widest
variety of choices.

Built-in infection protection helps to decrease morbidity, mortality, and costly complications.¹

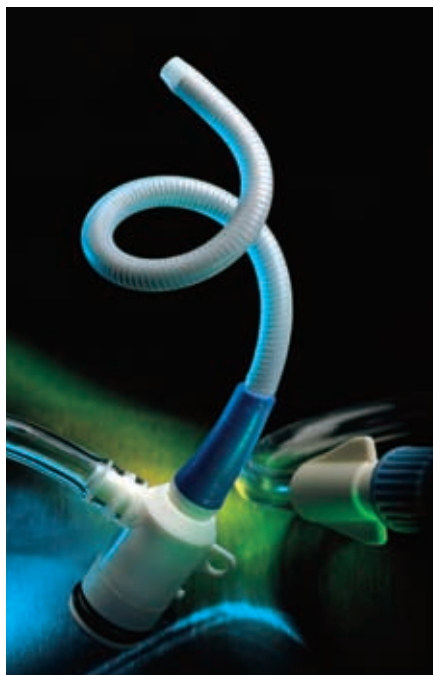
- ARROWgard⁺*, Arrow's patented colonization-resistant surface technology, combines two well-known antimicrobial agents — silver sulfadiazine and chlorhexidine.
- ARROWgard⁺® on central venous catheters reduces the incidence of bacterial colonization by up to 50% and that of catheter-related bacteremia by almost 80%.¹

Super Arrow-Flex⁺ sheath with ARROWgard⁺®, used with ARROWgard⁺ Blue[®] CVCs, provides a system of infection protection from initial course of action through recovery.**

- ARROWgard⁺® is molecularly bonded into the polyurethane material along the indwelling length of the PSI.
- Infection protection begins immediately at the crucial point of insertion.
- ARROWgard⁺® protection is also available in a non-Super Arrow-Flex⁺® Sheath Introducer Assembly.

Sheath virtually eliminates kinking.

- Exclusive coil-wire design allows sheath to flex at any point, in any direction, without kinking or collapsing.
- Permits consistent and accurate monitoring, even with patient movement and catheter manipulation.
- Reduces the potential for sheath occlusion during the opening of the chest in open-heart procedures.
- Extremely radiopaque for easy visualization.



Protection against external contaminants during and after placement.

- Cath-Gard[®] shield helps protect the indwelling PA catheter.
- Minimizes the risks involved with catheter manipulation and repositioning.
- Guide tube allows for quick and easy feed-through of the PA catheter.

Easy securing of catheter and Cath-Gard[®].



- One turn of the TwistLock[™] hub gently secures both elements without restricting the flow of vital infusates or distorting monitor readings.
- TwistLock[™] hubs at both ends inhibit catheter movement and secure the proximal end of the Cath-Gard[®] shield.

Minimized risk of air embolism or blood loss.

- Hemostasis valve and lock-on obturator work together to discourage bleed-back and minimize the risk of air embolism.



- Arrow recommends the use of an obturator cap if catheter insertion is delayed or if the catheter is removed. Arrow obturators are available in short valve or long valve and sheath versions.

Percutaneous Sheath Introducer Products

Product No.	French Size	Sheath Material	Spring-Wire Guide	Arrow® Raulerson Syringe	CE Mark
Integral (one-piece) Sheath/Sidearm Assembly PSI Kits					
AK-09903-S	9 Fr.	Poly	.035"	Yes	
AK-09907-S	9 Fr.	Poly	.025"	Yes	
NEW					
AK-09908-S	9 Fr.	Poly	.035"	Yes	
Configured with TwistLock™ Cath-Gard® for 8.0 - 8.5 Fr. catheters					
NEW					
NL-09903-S	9 Fr.	Poly	.035"	No	
Configured with Arrow's Non-Locking Cath-Gard® for 7.5 - 8.0 Fr. catheters					
NR-09903-S	9 Fr.	Poly	.035"	No	
AK-07801	8.5 Fr.	Poly	.035"	No	
AK-07802	8.5 Fr.	Poly	.035"	No	
Arrow-Thomas™ PSI with 16" sidearm and tri-port connector					
AK-09800	8.5 Fr.	Poly	.035"	No	
AK-09801	8.5 Fr.	Poly	.035"	No	X
AK-09802	8.5 Fr.	Poly	.035"	No	
AK-09803	8.5 Fr.	Poly	.035"	No	
AK-09804	8.5 Fr.	Poly	.035"	No	
AK-09805	8.5 Fr.	Poly	.035"	No	
AK-09806	8.5 Fr.	Poly	.025"	No	
AK-09807	8.5 Fr.	Poly	.025"	Yes	
AK-09810	8.5 Fr.	Poly	.035"	Yes	
AK-09810-C	8.5 Fr.	Poly	.035"	Yes	
AK-09810-S	8.5 Fr.	Poly	.035"	Yes	
AK-09813-T	8.5 Fr.	Poly	.035"	Yes	
AK-09817-S	8.5 Fr.	Poly	.025"	Yes	
AK-09880	8.5 Fr.	Poly	.035"	No	
AK-09883-S	8.5 Fr.	Poly	.035"	Yes	
BD-09880	8.5 Fr.	Poly	.035"	No	
BP-09800	8.5 Fr.	Poly	.035"	No	
BP-09800-R	8.5 Fr.	Poly	.025"	Yes	
CA-09801	8.5 Fr.	Poly	.035"	Yes	
CA-09803	8.5 Fr.	Poly	.035"	No	
CA-09886	8.5 Fr.	Poly	.025"	Yes	X
LU-09803-S	8.5 Fr.	Poly	.025"	No	
NR-09810-S	8.5 Fr.	Poly	.035"	No	

Integral (one-piece) Sheath/Sidearm Assembly PSI Sets

SI-09903-E	9 Fr.	Poly	.035"	Yes	X
NEW					
SI-09908-E	9 Fr.	Poly	.035"	Yes	X
Configured with TwistLock™ Cath-Gard® for 8.0 - 8.5 Fr. catheters					
CI-09800	8.5 Fr.	Poly	.035"	N/A	X
JS-09803	8.5 Fr.	Poly	.035"	N/A	
SI-09803-CV	8.5 Fr.	Poly	.035"	No	X
SI-09806	8.5 Fr.	Poly	.025"	Yes	X
SI-09870-E	8.5 Fr.	Poly	.035"	Yes	X
SI-09875-E	8.5 Fr.	Poly	.035"	Yes	X
SI-09880	8.5 Fr.	Poly	.035"	N/A	X
SI-09880-SE	8.5 Fr.	Poly	.035"	N/A	X

Product No.	French Size	Sheath Material	Spring-Wire Guide	Arrow® Raulerson Syringe	CE Mark
NEW					
Latex-Free kits with Sharps Protection Features and Integral (one-piece) Sheath/Sidearm Assembly					
AK-09903-LFSP	9 Fr.	Poly	.035"	Yes	
AK-09803-LFSP	8.5 Fr.	Poly	.035"	Yes	

Latex-Free, Integral (one-piece) Sheath/Sidearm Assembly PSI Kits and Sets

CA-09903-LF	9 Fr.	Poly	.035"	No	
NEW					
AK-09803-LF	8.5 Fr.	Poly	.035"	Yes	
NEW					
SI-09880-LF	8.5 Fr.	Poly	.035"	N/A	X

Super Arrow-Flex®, Integral (one-piece) Sheath/Sidearm Assembly, Radiopaque PSI Kits and Sets with ARROWgard® Antimicrobial Surface Treatment

AK-07903-AG	9 Fr.		.035"	Yes	
CI-07903-AG	9 Fr.		.035"	Yes	X
Contains no medication					
SI-07903-AG	9 Fr.		.035"	Yes	X
AK-07803-AG	8.5 Fr.		.035"	Yes	
CI-07803-AG	8.5 Fr.		.035"	Yes	X
Contains no medication					
NR-07803-AG	8.5 Fr.		.035"	No	
SI-07803-AG	8.5 Fr.		.035"	Yes	X

Standard, Integral (one-piece) Sheath/Sidearm Assembly, Radiopaque PSI Kits and Sets with ARROWgard® Antimicrobial Surface Treatment

AK-09903-AG	9 Fr.	Poly	.035"	Yes	
SI-09980-AG	9 Fr.	Poly	.035"	No	X
AK-09804-AG	8.5 Fr.	Poly	.035"	No	
AK-09807-AG	8.5 Fr.	Poly	.025"	No	
SI-09880-AG	8.5 Fr.	Poly	.035"	No	X
SL-09880-AG	8.5 Fr.	Poly	.035"	No	

Integral (one-piece) Sheath/Sidearm Assembly PSI Kits and Sets³ in smaller sizes

CI-09803	8 Fr.	FEP	.035"	N/A	X
SI-09808	8 Fr.	FEP	.035"	N/A	X
AK-09701	7 Fr.	FEP	.035"	No	
SI-09700	7 Fr.	FEP	.035"	N/A	X
AK-09601	6 Fr.	Poly	.035"	No	
SI-09600	6 Fr.	Poly	.035"	N/A	X

Trauma Kit³

AK-05801	8.5 Fr.	FEP	.035"	No	
Configured with Sheath/Dilator Assembly only					

All PSI products are packaged and sold 10 each per case.

CE Mark "X" indicates products available for international sale

Kit/Set Accessories

Product No.	Description	Per Case	CE Mark
AC-06800	Arrow PA Catheter Clamp	50	X
AI-14703	Arrow® Raulerson Syringe	25	X
AO-07000	Arrow Sheath Obturator - 5-1/2" (14cm) ⁶	50	X
AO-09000	Arrow Hemostasis Valve Short Obturator Cap ⁷	50	X
AR-14703	Arrow Pressure Transduction Probe	50	
NEW			
CK-09850	8.5 Fr. x 2-3/4" (7cm) Arrow-Flex® Polyurethane Sheath/Sidearm Assembly w/dilator	25	X
SC-00001	4-Way High Flow Luer-Lock Stopcock	50	
SC-14701	Arrow 8" (20cm) Single Lumen Infusion Catheter (SLIC®)	25	X
NEW			
SS-09903-S	9 Fr. x 2-3/4" (7cm) Arrow-Flex® Polyurethane Sheath/Sidearm Assembly w/dilator	25	X
SS-14701	Arrow 6" (16cm) Single Lumen Infusion Catheter (SLIC®)	25	X
NEW			
SS-14702	Arrow Two Lumen 6" (16cm) PSI Companion Catheter (See photo below)	5	X
NEW			
SS-14703	Arrow Three Lumen 6" (16cm) PSI Companion Catheter	5	X
ST-09800	Arrow Cath-Gard® Catheter Contamination Shield (30cm) (for use with 7 - 8 Fr. Catheters)	25	X
ST-09807	Arrow Cath-Gard® Catheter Contamination Shield with Tuohy-Borst Assembly (80cm) (for use with 7 - 8.5 Fr. catheters)	25	X
ST-09875	TwistLock™ Cath-Gard® Catheter Contamination Shield (80cm) (for use with 7.5 - 8 Fr. catheters)	25	X
ST-09880	Arrow Cath-Gard® Catheter Contamination Shield (80cm) (for use with 7.5 - 8 Fr. catheters)	25	X
NEW			
ST-09885	TwistLock™ Cath-Gard® Catheter Contamination Shield (80cm) (for use with 8.0 - 8.5 Fr. catheters)	25	X
NEW			
SA-09847*	PSI Tuohy Sheath Adapter and Cath-Gard® to insert 4 - 7 Fr. catheters through Arrow One Piece Sheath System (See photo below right)	10	X

* Contact Arrow for Availability



2 Lumen Companion Catheter inserted through Arrow Sheath.

HANDS-OFF® Products

Product No.	Description	CE Mark
HANDS-OFF® Central Venous Catheters		
HO-14702	Arrow HANDS-OFF® 2-lumen Polyurethane Catheter, 7 Fr. x 12" (30cm catheter length, 23cm insertable length)	X
HO-14703	Arrow HANDS-OFF® 3-lumen Polyurethane Catheter, 7 Fr. x 12" (30cm catheter length, 23cm insertable length)	X
HANDS-OFF® Thermodilution Catheters³		
Torque Control HANDS-OFF® Catheters⁵ with Cath-Gard® and Integral Flushing/Balloon Test Chamber		
AH-05050	7.5 Fr. x 110cm Five-Lumen Thermodilution Catheter	X
AH-05050-H	7.5 Fr. x 110cm Five-Lumen Heparin-Coated Thermodilution Catheter	
Flexi-Torque HANDS-OFF® Catheters⁵ with Cath-Gard® and Integral Flushing/Balloon Test Chamber		
AH-05050-G	7.5 Fr. x 110cm Five-Lumen Thermodilution Catheter	X
Firm Flotation HANDS-OFF® Catheters⁵ with Cath-Gard® and Integral Flushing/Balloon Test Chamber		
AH-05050-F	7.5 Fr. x 110cm Five-Lumen Thermodilution Catheter	X
AH-05000-F	7 Fr. x 110cm Four-Lumen Thermodilution Catheter	X
Flotation HANDS-OFF® Catheters⁵ with Cath-Gard® and Integral Flushing/Balloon Test Chamber		
AH-05050-D	7.5 Fr. x 110cm Five-Lumen Thermodilution Catheter	X
AH-05050-PU	7.5 Fr. x 110cm Five-Lumen Thermodilution Catheter	X
AH-05000	7 Fr. x 110cm Four-Lumen Thermodilution Catheter	X
AH-05000-H	7 Fr. x 110cm Four-Lumen Heparin-Coated Thermodilution Catheter	
AH-05100-H ⁹	7 Fr. x 110cm Four-Lumen Heparin-Coated Thermodilution Catheter	

All HANDS-OFF® products are packaged and sold 5 each per case.

CE Mark "X" indicates products available for international sale



Tuohy Sheath Adapter assembled with Tuohy Cath-Gard® over Arrow Sheath and Bipolar Pacing Catheter.

Easy insertions, reduced vessel trauma.

- Ultra-smooth polyurethane sheath material improves indwelling characteristics.
- Offers exceptional thromboresistance, biocompatibility, and kink resistance.
- Softens in situ to reduce the risk of vessel trauma.

Increased flow rates.

- Wider diameter of our 9 Fr. sheath helps you infuse fluids at higher rates up to 1000 cc/min.²
- High-flow side port, now available on 8.5 and 9 Fr. sheaths, also facilitates increased flow rates.



Smoother catheter insertions.

- Patented hydrophilic surface creates the lowest coefficient of friction between sheath and your patient.
- Available on our standard 9 Fr. polyurethane Arrow-Flex[®] sheaths.
- Eases insertion, reduces vessel trauma, helps enhance maneuverability.

Secure anchoring of sheath.



- Integral suture wing enables you to suture the sheath securely to the patient.

Simplified spring-wire guide placement.

- The Arrow[®] Raulerson Syringe[†] allows you to insert a wire guide in one simple step.



- Patented valving system virtually eliminates the risk of air embolism.
- Barrel doubles as a blood-containment device, reducing your exposure to blood-borne pathogens.

Arrow HANDS-OFF[®] Multiple Lumen Central Venous Access/Infusion System.

Enhanced infection protection and versatility.

With today's concerns regarding the risks of PA catheterization¹, your patient has a versatile alternative. The Arrow HANDS-OFF[®] Multiple Lumen Central Venous Access/Infusion System allows you to immediately change to multi-lumen therapy (or vice versa), once it's determined that PA catheterization is no longer needed.

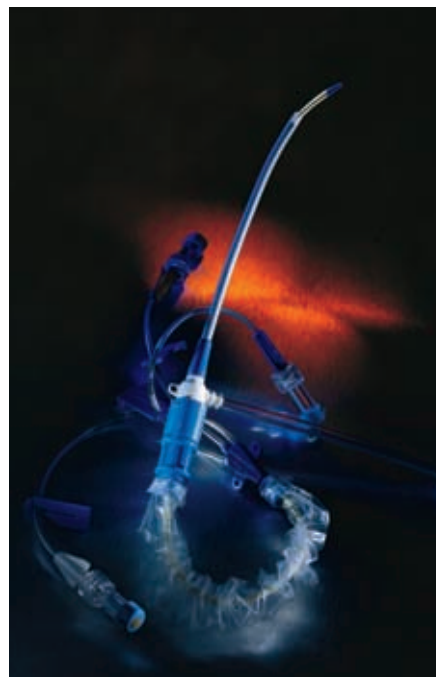
- Arrow HANDS-OFF[®] central venous catheters are designed to be used with Super Arrow-Flex[®] sheaths with ARROWgard[®] infection protection.
- A protective Cath-Gard[®] contamination sleeve virtually eliminates exposure to the external environment. Also reduces the risk of exposure to blood-borne diseases during removal.

Increased flexibility for treating patients.

- The Super Arrow-Flex[®] Sheath Introducer lets you change between diagnostic and therapeutic procedures without having to create another puncture site.
- Patient safety is enhanced.

Added assurance and ease of procedure.

- TwistLock[™] hub on distal end of the Cath-Gard[®] prevents catheter movement after it is locked.
- Centimeter markings on the catheter body allow you to more accurately gauge insertion depth.
- Arrow's procedurally complete kits include all the components necessary for PSI procedures.



For further information, call your Arrow representative, or contact us directly by calling 1-800-523-8446 or 610-378-0131.

Percutaneous Sheath Introducer Systems

Arrow International offers a complete line of single-lumen and multi-lumen products to meet your central venous access needs. Please contact your local Arrow representative, contact us directly by calling 1-800-523-8446 or 610-378-0131, or visit us on the world wide web at www.arrowintl.com for valuable information about all our product lines.

References

- 1 Maki DG, Stolz SM, Wheeler S, Mermel LA. Prevention of central venous catheter-related bloodstream infection with an antiseptic-impregnated catheter: a prospective randomized controlled trial. *An Int Med.* August 15, 1997.
 - 2 Without a catheter through the sheath, with high-flow tubing, 300 mmHg.
 - 3 Connors AF Jr. et al. Concepts in Emergency Critical Care: The Effectiveness of Right Heart Catheterization in the Initial Care of Critically Ill Patients. *JAMA.* 1996;276:889-897
 - 4 Refer to product labeling for information about pacing electrodes compatible with Arrow Thermo-Pace HANDS-OFF[®] catheters or contact Arrow International, Inc.
 - 5 1-1/2cc maximum capacity balloon.
 - 6 Sheath and Hemostasis Valve Obturator for 8.5 Fr. and 9 Fr. Sheath Assemblies.
 - 7 Hemostasis Valve Obturator Cap for 8.5 Fr. and 9 Fr. Hemostasis Valves (will not restrict sheath or sidearm flow).
 - 8 Contact your Arrow representative for details and availability.
 - 9 HANDS-OFF[®] Tray and PSI Set are packaged within the same box, but are separate procedure trays.
- * ARROWgard[®] is a joint development of Daltex Medical Sciences, Inc., and Arrow International, Inc., using technology developed by Dr. Shanta Modak and colleagues, in the Department of Surgery, Columbia University. U.S. Patent Numbers 4,581,028 and 5,019,096 apply.
- ** Licensed under U.S. Patent Numbers 5,484,425 and 5,180,376.
- † U.S. Patent Numbers 4,813,938 and 5,045,065. The Arrow[®] Raulerson Syringe is a joint development of J. Daniel Raulerson, M.D., and Arrow International, Inc.

For information regarding distribution in your area, contact:

ARROW
INTERNATIONAL

www.arrowintl.com

UNITED STATES

Arrow International, Inc.
2400 Bernville Road
Reading, PA 19605, USA
Phone: 610-378-0131
Toll-free: (800) 523-8446
Fax: 610-478-3199
Orders-only toll-free fax: (800) 343-2935
Email: Customer.Service@arrowintl.com

AFRICA

Arrow Africa (Pty) Ltd.
Cambridge Commercial Park
22 Witkoppen Road, Paulshof Extension
Sandton 2054, Republic of South Africa
Phone: (11) 807 4887
Fax: (11) 807 4994
Email: ilc@arrowafrica.co.za

AUSTRALASIA

Arrow International, Inc.
2400 Bernville Road
Reading, PA 19605, USA
Phone: 610-378-0131
Toll-free: (800) 233-3187
Fax: 610-374-5360
Email: australasia@arrowintl.com

CANADA

Arrow Medical Products, Ltd.
2300 Bristol Circle, Unit 1
Oakville, Ontario L6H 5S3
Phone: (905) 829-9473
Toll-free: (800) 387-7819
Fax: (905) 829-9414
Email: arrow.canada@arrowintl.com

CZECH REPUBLIC

Arrow International CR, a.s.
Pražská 209
500 04 Hradec Králové
Czech Republic
Phone: 049 575 9111
Fax: 049 575 9222
Email: czech.sales@arrowintl.com

EUROPEAN SALES OFFICE

Flevolaan 9A
NL 1382 JX
Weesp, The Netherlands
Phone: +31 294 29900
Fax: +31 294 414235
Email: europeansales@arrowintl.com

FRANCE

Arrow France S.A.
Atlantic Parc, « Les Pyramides » No. 11
Route de Pitoys, P.A. de Maignon
64600 Anglet, France
Phone: 05 59 31 34 90
Fax: 05 59 31 34 91
Email: arrow.sa@wanadoo.fr

GERMANY

Arrow Deutschland GmbH
Justus-von-Liebig-Strasse 2
D-85435 Erding, Germany
Phone: 08122 9820-0
Fax: 08122 40384
Email: service@arrow-deutschland.de

GREECE

Arrow Hellas A.E.E.
230 Kifissias Avenue
Halandri, 152 31
Athens, Greece
Phone: 6777717 / 6777311
Fax: 6777911
Email: arrowhel@hol.gr

HOLLAND

Arrow Holland Medical Products B.V.
Flevolaan 9A
NL 1382 JX
Weesp, The Netherlands
Phone: 294 280 620
Fax: 294 412 300
Email: c_service@arrow-holland.nl

INDIA

Arrow India
9 Demonte Street
Santhome, Mylapore
Chennai 600004
India
Phone: 44-495-6769
Fax: 44-495-6787
Email: arrowint@hotmail.com

JAPAN
Arrow Japan, Ltd.
Nagaoka Bldg.
3-16, Kita-Otsuka 3-chome
Toshima-ku, Tokyo 170-0004, Japan
Phone: 03-5974-1701
Fax: 03-5974-1845
Email: arrowjpn@courante.plala.or.jp

LATIN AMERICA

Arrow International, Inc.
2400 Bernville Road
Reading, PA 19605, USA
Phone: 610-378-0131
Toll-free: (800) 233-3187
Fax: 610-374-5360
Email: latinamerica@arrowintl.com

MEXICO

Arrow Internacional de Mexico S.A. de C.V.
Molieres No. 128, Col. Polanco
11560 Mexico City, Mexico
Phone: 5281-2291
Fax: 5282-1359
Email: arrowmex@mail.internet.com.mx

SLOVAKIA

Arrow Slovensko Piešťany s.r.o.
Valová 49
921 01 Piešťany, Slovakia
Phone/Fax: 0838/77 25428
Email: arrow@arrow.sk

SPAIN

Arrow Iberia S.A.
Avenida de Valgrande 14
28108 Alcobendas
Madrid, Spain
Phone: 916 621 267
Fax: 916 619 756
Email: arrow@arrow-iberia.es

Caution: The color of the blood aspirated is not always a reliable indicator of venous access. In conjunction with the use of the Arrow[®] Raulerson Syringe, use the transduction probe, included in the kit, to verify central venous placement via a waveform obtained by a calibrated pressure transducer.

Caution: U.S. Federal Law limits this device to sale by or on order of a physician. Contents of unopened, undamaged package are sterile. Contains no medication. Disposable. Refer to package insert for current warnings, precautions, and instructions for use.

Contact Arrow International, Inc., for reference information on the above.

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