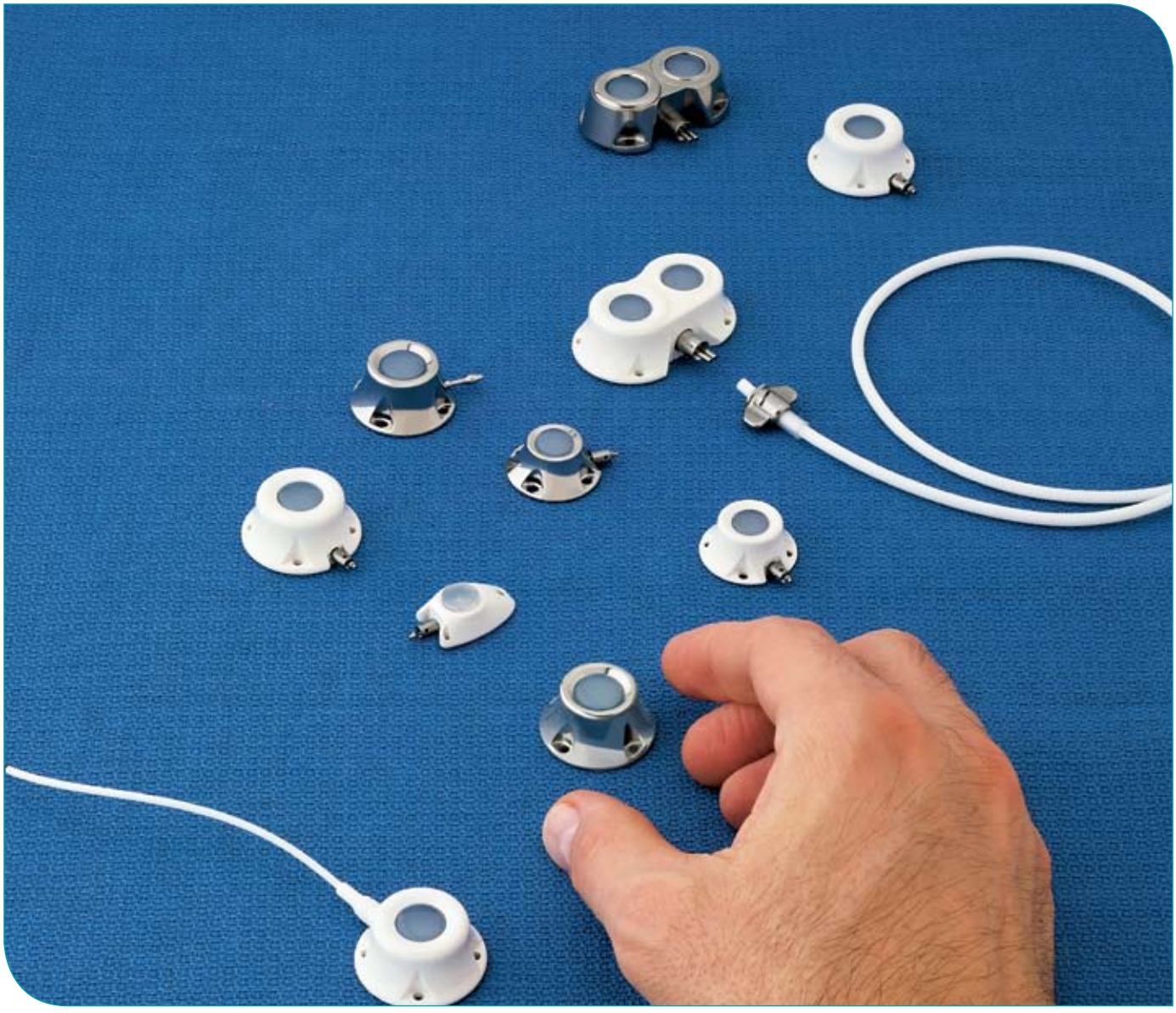
smiths medical
bringing technology to life

PORT-A-CATH®

Implantable Access Systems



There is only one PORT-A-CATH®

Deltec™

Deltec™

That's the Right Choice for You and Your Patient

The Choice is Yours

- **Portals**
  Materials:
  Titanium
  Polysulfone/titanium
  Sizes:
  Single-lumen
  Dual-lumen
  Low-profile
  System types:
  Unassembled
  Preassembled
  Preconnected

- **Catheters**
  PolyFlow® polyurethane
  Single-lumen 1.0 mm I.D.
  Single-lumen 1.6 mm I.D.
  Dual-lumen 1.0 mm I.D. (each lumen)
  Dual-lumen 1.4 mm I.D. (each lumen)
  Silicone
  Single-lumen 1.0 mm I.D.
  Dual-lumen 1.1 mm I.D. with staggered tip (each lumen)

- **Portal location**
  Chest placement
  Arm placement

One PORT-A-CATH® Brand
Many PORT-A-CATH® System Choices.

PORT-A-CATH®, the one name synonymous with quality and reliability in implantable access system technology, now offers more options than ever before.

For more than 20 years, Smiths Medical's PORT-A-CATH® brand of implantable access systems has been the choice of physicians and nurses around the world.

With more than 400,000 implants, PORT-A-CATH® systems have set the standard in excellence and innovation.

PORT-A-CATH® brand innovation continues with an expanded line of systems designed to meet broader clinical needs and implantation preferences, and to respond to the cost containment objectives of the health care industry. A wide range of venous systems, as well as arterial and peritoneal systems, allows you to choose the one PORT-A-CATH® system that's right for you and your patient.

Choice of Portals

PORT-A-CATH® and PORT-A-CATH® II venous access systems provide a range of choices including system design, style and material to meet therapy requirements, patient needs and implantation preferences.

Your choices include PORT-A-CATH® systems with titanium portals or PORT-A-CATH® II systems with polysulfone and titanium portals; single-lumen, dual-lumen and low-profile systems; and unassembled.

These systems are MRI compatible and have a contoured shape, designed for patient comfort and ease of portal palpation.

PORT-A-CATH® II

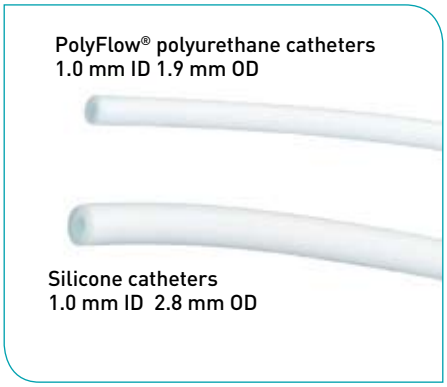
- Venous access system
- Lightweight polysulfone outside
- Gouge-resistant titanium inside

PORT-A-CATH®

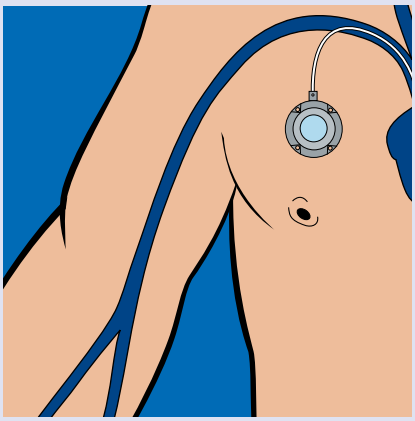
- Venous access system
- Titanium for gouge resistance and long-term durability

Choice of Catheters

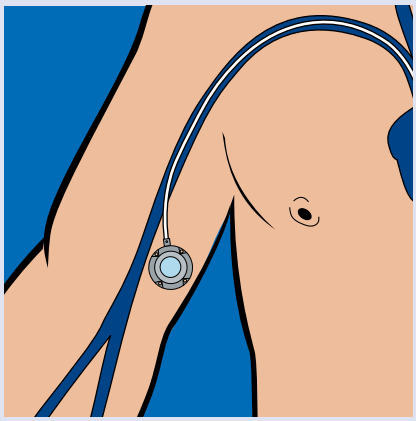
Your choices continue with the availability of biocompatible, radiopaque silicone and PolyFlow® polyurethane catheters. Silicone catheters are available on single-lumen, dual-lumen and low-profile systems. PolyFlow® polyurethane catheters are also available on single-lumen, dual-lumen and low-profile systems and have a smaller O.D. than silicone catheters with the same internal diameter. PolyFlow® catheters require a smaller introducer and are designed to reduce vessel trauma during catheter insertion.



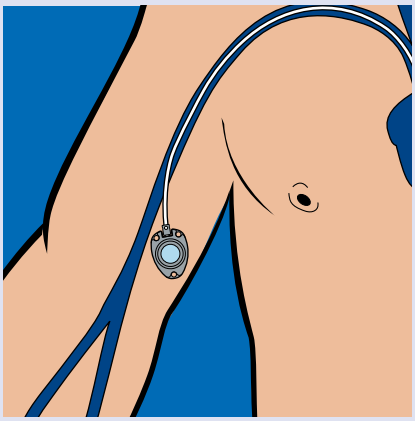
Choice of Portal Location



Chest placement
with the PORT-A-CATH® system



Arm placement
with the PORT-A-CATH® Low Profile™ system



Arm placement
with the P.A.S. PORT® T2 system

In response to implantation and patient preferences, both chest- and arm-placed systems are available.

The P.A.S. PORT® peripheral access systems are designed specifically for arm placement. PORT-A-CATH® Low Profile™ single- and dual-lumen systems are also appropriate for arm placement in large or obese patients.

Peripheral placement is a convenient and cosmetically attractive option for many patients1 and allows for a less traumatic outpatient implantation procedure and a minimized risk of immediate insertion complications.[2]

System Specifications†
PORT-A-CATH®, PORT-A-CATH® II, P.A.S. PORT® and Fluoro-Free® Implantable Access Systems

ORDERING INFORMATION

	Portal						Catheter							
	Material	**Base**	**Height**	**Weight**	**Septum Diameter**	**Material**	**ID**	**OD**	**French**	**Length**	**Introducer Size**	**Configuration**	**Product Code**	
PORT-A-CATH® Systems														
Single-lumen	Titanium	25.4mm	13.5mm	16g	11.4mm	Silicone	1.0mm	2.8mm	8.4F	76cm	9F	Unassembled Preassembled	**Kit:21-4000-24** **Kit:21-4010-24**	**Tray: 21-4003-24** **Tray: 21-4004-24**
Single-lumen	Titanium	28mm	14.6mm	16g	11.4mm	PolyFlow® Polyurethane	1.0mm	1.9mm	5.8F	76cm	6F	Unassembled	**Kit:21-4024 -24**	**Tray: 21-4025-24**
							1.6mm	2.6mm	7.8F	76cm	8.5F	Unassembled	—	**Tray: 21-4023-24**
Low Profile™	Titanium	25mm	11.5mm	9.5g	9.5mm	Silicone	1.0mm	2.8mm	8.4F	76cm	9F	Unassembled	**Kit: 21-4034-24**	—
						PolyFlow® Polyurethane	1.0mm	1.9mm	5.8F	76cm	6F	Unassembled	**Kit: 21-4036-24**	**Tray: 21-4037-24**
Dual-lumen	Titanium	46.7mm x 26.5mm	14.4mm	34g	11.4mm	Silicone	1.1mm each lumen	3.4mm	10.2F	76cm	11F	Unassembled	**Kit: 21-8010-24**	—
PORT-A-CATH® II Systems														
Single-lumen	Polysulfone/ Titanium	30.5mm	14.7mm	10g	11.4mm	Silicone	1.0mm	2.8mm	8.4F	76cm	9F	Unassembled	**Kit: 21-4050-24**	**Tray: 21-4051-24**
						PolyFlow® Polyurethane	1.0mm	1.9mm	5.8F	76cm	6F	Unassembled Preconnected	**Kit 21-4052-24** —	**Tray: 21-4053-24** **Tray: 21-4063-24**
							1.6mm	2.6mm	7.8F	76cm	8.5F	Unassembled Preconnected	**Kit: 21-4054-24** **Kit: 21-4064-24**	**Tray: 21-4055-24** **Tray: 21-4065-24**
Single-lumen Low Profile™	Polysulfone/ Titanium	25mm	11.5mm	4.8g	9.5mm	PolyFlow® Polyurethane	1.0mm	1.9mm	5.8F	76cm	6F	Unassembled Preconnected	**Kit: 21-4082-24** **Kit: 21-4084-24**	**Tray: 21-4083-24** **Tray: 21-4085-24**
							1.6mm	2.6mm	7.8F	76cm	8.5F	Unassembled Preconnected	**Kit: 21-4070-24** **Kit: 21-4072-24**	**Tray: 21-4071-24** **Tray: 21-4073-24**
Dual-lumen	Polysulfone/ Titanium	50mm x 30mm	16mm	24g	11.4mm	Silicone	1.1mm each lumen	3.4mm	10.2F	76cm	11F	Unassembled Preassembled	**Kit: 21-8050-24** —	**Tray: 21-8052-24** **Tray: 21-8053-24**
Dual-lumen Low Profile™	Polysulfone/ Titanium	38.7mm x 23.5mm	11mm	11g	9.5mm	PolyFlow® Polyurethane	1.0mm each lumen	2.2mm	6.6F	76cm	7F	Unassembled	**Kit: 21-8065-24**	**Tray: 21-8066-24**
							1.4mm each lumen	3.2mm	9.6F	76cm	10F	Unassembled	**Kit: 21-8067-24**	**Tray: 21-8068-24**
P.A.S. PORT® Peripheral Systems														
P.A.S. PORT®	Titanium	26.7mm x 16.5mm	10mm	5.6g	6.6mm	PolyFlow® Polyurethane	1.0mm	1.9mm	5.8F	76cm	6F	Unassembled	**Kit: 21-4500-24**	—
P.A.S. PORT® T2	Titanium	24.5mm x 18.2mm	11.5mm	8.3g	9.5mm	PolyFlow® Polyurethane	1.0mm	1.9mm	5.8F	76cm	6F	Unassembled	**Kit: 21-4572-24**	**Tray: 21-4573-24**
Fluoro-Free® Systems*														
PORT-A-CATH® II Single-lumen	Polysulfone/ Titanium	30.5mm	14.7mm	10g	11.4mm	PolyFlow® Polyurethane	1.0mm	1.9mm	5.8F	76cm	6F	Unassembled	—	**Tray: 21-4653-24**
							1.6mm	2.6mm	7.8F	76cm	8.5F	Unassembled	—	**Tray: 21-4655-24**
PORT-A-CATH® II Single-lumen Low Profile™	Polysulfone/ Titanium	25mm	11.5mm	4.8g	9.5mm	PolyFlow® Polyurethane	1.0mm	1.9mm	5.8 Fr	76cm	6F	Unassembled	—	**Tray: 21-4683-24**
							1.6mm	2.6mm	7.8F	76cm	8.5F	Unassembled	—	**Tray: 21-4685-24**
PORT-A-CATH® II Dual-lumen	Polysulfone/ Titanium	50mm x 30mm	16mm	24g	11.4mm	Silicone	1.1mm each lumen	3.4mm	10.2F	76cm	11F	Unassembled	—	**Tray: 21-8652-24**
PORT-A-CATH® II Dual-lumen Low Profile™	Polysulfone/ Titanium	38.7mm x 23.5mm	11mm	11g	9.5mm	PolyFlow® Polyurethane	1.4mm each lumen	3.2mm	9.6F	76cm	10F	Unassembled	—	**Tray: 21-8662-24**
P.A.S. PORT® Peripheral	Titanium	26.7mm x 16.5mm	10mm	5.6g	6.6mm	PolyFlow® Polyurethane	1.0mm	1.9mm	5.8F	76cm	6F	Unassembled	**Kit: 21-4505-24**	**Tray: 21-4506-24**
P.A.S. PORT® T2 Peripheral	Titanium	24.5mm 18.2mm	11.5mm	8.3g	9.5mm	PolyFlow® Polyurethane	1.0mm	1.9mm	5.8F	76cm	6F	Unassembled	**Kit: 21-4672-24**	**Tray: 21-4673-24**
PORT-A-CATH® Arterial, Peritoneal and Epidural Systems														
Arterial	Titanium	25.4mm	13.5mm	16g	11.4mm	Silicone	0.8mm	2.3mm	—	76cm	—	Unassembled	**Kit: 21-3000-24**	—
Peritoneal	Titanium	25.4mm	15.2mm	22g	11.4mm	Polyurethane	2.6mm	4.9mm	—	48cm	—	Unassembled	**Kit: 21-2000-24**	—
Epidural	Stainless Steel	25.4mm	13.5mm	26g	11.4mm	PolyFlow® Polyurethane	0.5mm	1.2mm	—	91cm	16g Tuohy	Unassembled	**Kit: 21-0501-24**	—
Epidural Low Profile™	Polysulfone/ Titanium	25mm	12.7mm	5.5g	8.9mm	PolyFlow® Polyurethane	0.5mm	1.2mm	—	91cm	16g Tuohy	Unassembled	—	**Tray 21-1501-24**

†Nominal *Fluoro-Free® systems are implanted using the CATH-FINDER® catheter tracking system.

Service and Support

The Service and Support Behind the Name

Every PORT-A-CATH® system comes with the support only Deltec provides:

- Educational materials for clinicians and patients
- 24-hour toll-free clinical and technical assistance

1. Winters V, Peters B, Coila S, Jones L. A trial with a new peripheral implanted vascular access device. Oncology Nursing Forum 1990; 17:891-896.

2. McKee J. Future dimensions in vascular access: Peripheral implantable ports. Journal of Intravenous Nursing 1991; 14:387-393.

For detailed instructions on implantation of the system, specifications, complications, potential complications, warnings, precautions, cautions, contraindications, implantation considerations, and additional information, please refer to the Instructions for Use supplied with the product.

The PORT-A-CATH® Epidural and PORT-A-CATH® II Epidural Low Profile™ Implantable Access Systems

INTENDED USE: Deltec's PORT-A-CATH® Epidural and PORT-A-CATH® II Epidural Low Profile™ implantable systems are intended for long-term, repeated access to the epidural space for the delivery of preservative-free morphine sulfate to relieve intractable cancer pain and chronic, intractable pain of non-malignant origin. The labeling for the drug governs the indications, contraindications, dosage, and warnings related to the use of the medication. The safety and effectiveness of this system for use with pediatric patients have not been established.

CONTRAINDICATIONS: These systems are contraindicated in patients with active or suspected sepsis.

WARNINGS: Care must be taken when accessing patients with more than one implantable access system (since inadvertent epidural delivery of drugs other than preservative-free morphine sulfate could result in serious injury to the patient).

PRECAUTIONS: Patients should undergo a trial of epidural analgesia to determine the suitability of this route of administration before the final decision is made to implant the system. An epidural catheter should not be inserted at the level of epidural or spinal cord tumor. Caution must be taken when assessing patients with obstructing epidural tumors or spinal cord tumors.

POTENTIAL COMPLICATIONS: Sepsis; erosion of portal/catheter through the skin; migration or occlusion of portal/catheter; catheter disconnection or fracture; implant rejection; fibrin sheath formation at catheter tip; spinal cord or nerve injury; spinal cord pressure, which could lead to paralysis; inadvertent intrathecal placement; dura mater or epidural vein perforation, cerebrospinal fluid leaks; pain on injection; and the potential for the adverse effect of narcotic analgesics, such as respiratory depression.

For specific information regarding contraindications, warnings, precautions, and potential complications, refer to the product literature

accompanying each system.

Clinical Services 001-800-426 2448 www.smiths-medical.com

Smiths Medical MD, Inc.
1265 Grey Fox Road, St. Paul, MN 55112, U.S.A.
Tel: +1 651 633 2556 Fax: +1 651 628 7459

European Representative:
Smiths Medical International Limited
Watford, Herts, WD24 4LG, U.K.
Tel: +44 (0)1923 246434 Fax: +44 (0)1923 231595

Smiths Medical International Ltd
Miltitary road, Hythe, Kent CT21 6JL, UK
Tel: +44 (0)1303 260551 Fax: +44 (0)1303 2667615

www.smiths-medical.com

CE 0473

Smiths Medical, part of the global technology business Smiths Group

smiths medical