Celsite®, Surecan®, Cytocan

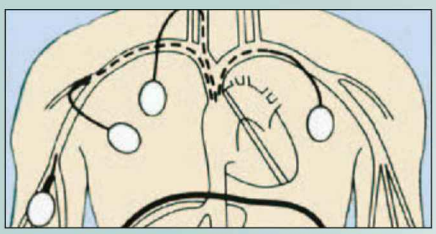
Access Port Systems, PICCs, Accessories and Non-Coring Port Needles

Vascular Systems

B BRAUN
SHARING EXPERTISE

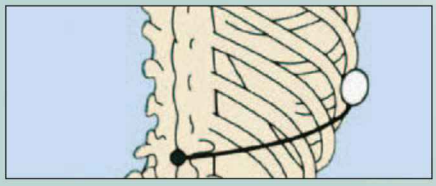
Celsite®, Surecan®, Cytocan Access Port Systems, PICCs, Accessories and Non-Coring Port Needles

Implantation sites



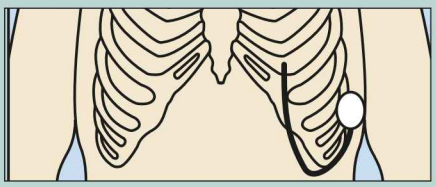
① **Venous access** for repeated intra-venous administration of, for example, chemotherapy, antibiotics and anti-viral drugs, total parenteral nutrition (TPN), blood sampling or transfusion

② **Arterial access** for intra-arterial administration of chemotherapy



③ **Epidural or intra-thecal access** for spinal administration of pain relieving drugs

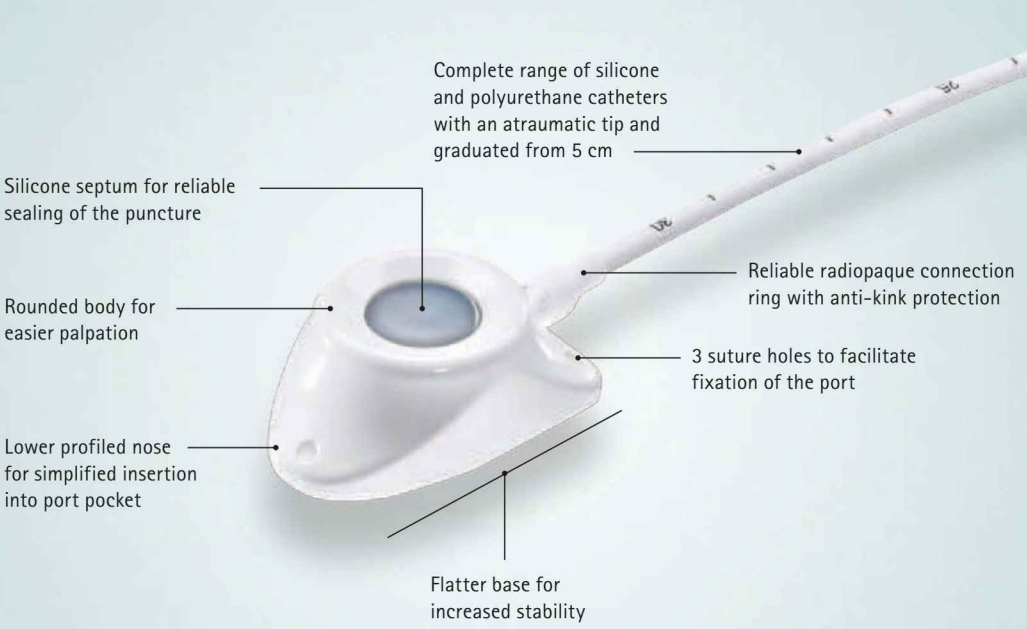
④ **Peritoneal access** for loco-regional chemotherapy and (i. e. with Drainaport®) for hydration and drainage of malignant ascites



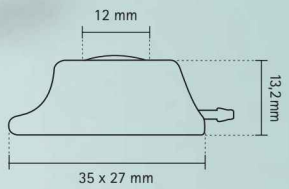
⑤ **Pleural access** for drainage of malignant pleural effusion (MPE)

Venous Access Port System

Celsite® PSU

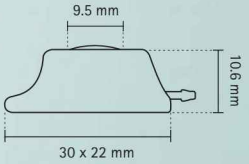


Standard



Material: Titanium | Polysulphone
Weight: 9 g
Internal Volume: 0.5 mL

Small



Material: Titanium | Polysulphone
Weight: 4.7 g
Internal Volume: 0.25 mL

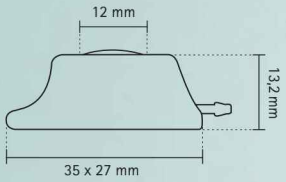
Catheter	OD (F/mm)	ID (mm)	Length (mm)	Flow rate* (ml/min)		325 PSI Recommended maximum flow rates (mL/s) Contrast media at 37°C (325 psi = 22.4 bar)**						Implantation technique	Type	Reference	Accessories see page 18/19
						Viscosity 5.8 mPa.s (cP)			Viscosity 11.4 mPa.s (cP)						
				19 G	22 G	22 G	20 G	19 G	22 G	20 G	19 G				
Standard															
PUR	5 /1.7	1.1	900	22	10	2	5	6	1	3	5	Braunule, Seldinger	ST301C	4432096	②
PUR	5 /1.7	1.1	370	22	10	2	5	6	1	3	5	OTW	ST3010TW	4433726	③
PUR	6.5 / 2.1	1.4	800	28	11	2	5	7	1	4	6	Seldinger	ST301P	4430441	①
PUR	6.5 / 2.1	1.4	800	28	11	2	5	7	1	4	6	Surgical cut-down	T301P	4430387	⑥
Silicone***	6.5 / 2.2	1.0	800	24	10	2	6	7	1	4	5	Seldinger	ST301F	4430433	①
Silicon	6.5 / 2.2	1.0	800	24	10	2	6	7	1	4	5	Surgical cut-down	T301F	4430000	⑥
Silicone***	8.5 / 2.8	1.1	800	24	11	2	6	7	1	4	6	Seldinger	ST301	4430425	①
Silicone	8.5 / 2.8	1.1	800	24	11	2	6	7	1	4	6	Surgical cut-down	T301	4430018	⑥
PUR (high flow)***	8.5 / 2.8	1.6	800	39	12	2	6	8	1	4	7	Seldinger	ST301H	4432460	①
PUR (high flow)	8.5 / 2.8	1.6	800	39	12	2	6	8	1	4	7	Surgical cut-down	T301H	4432452	⑥
Silicone (high flow)	10 /3.2	1.6	800	38	12	2	6	9	1	4	6	Seldinger	ST301G	4433823	①
Small															
PUR	5 /1.7	1.1	900	19	10	2	5	7	1	3	5	Braunule, Seldinger	ST305C	4436962	②
PUR	6.5 / 2.1	1,4	800	28	11	2	5	8	1	4	5	Seldinger	ST305P	4436946	①
Silicone***	6.5 / 2.2	1.0	800	24	10	2	5	8	1	4	6	Seldinger	ST305	4433750	①
Silicone	6.5 / 2.2	1.0	800	24	10	2	5	8	1	4	6	Surgical cut-down	T305	4436903	⑥
Silicone	8.5 / 2.8	1.1	800	24	11	2	5	8	1	3	6	Seldinger	ST305L	4436920	①
PUR (high flow)	8.5 / 2.8	1.6	800	39	12	2	6	9	1	4	6	Seldinger	ST305H	4433556	①

* Gravity infusion of saline (0.9%) through a 22G respectively 19G needle from a height difference of 1 m and a catheter length of 40 cm.
** With a catheter of 20 cm and Surecan® Safety II. For countries under CE mark only.
*** This version is also available as pre-connected system.

Venous Access Port System

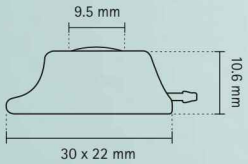
Celsite® Concept

Standard

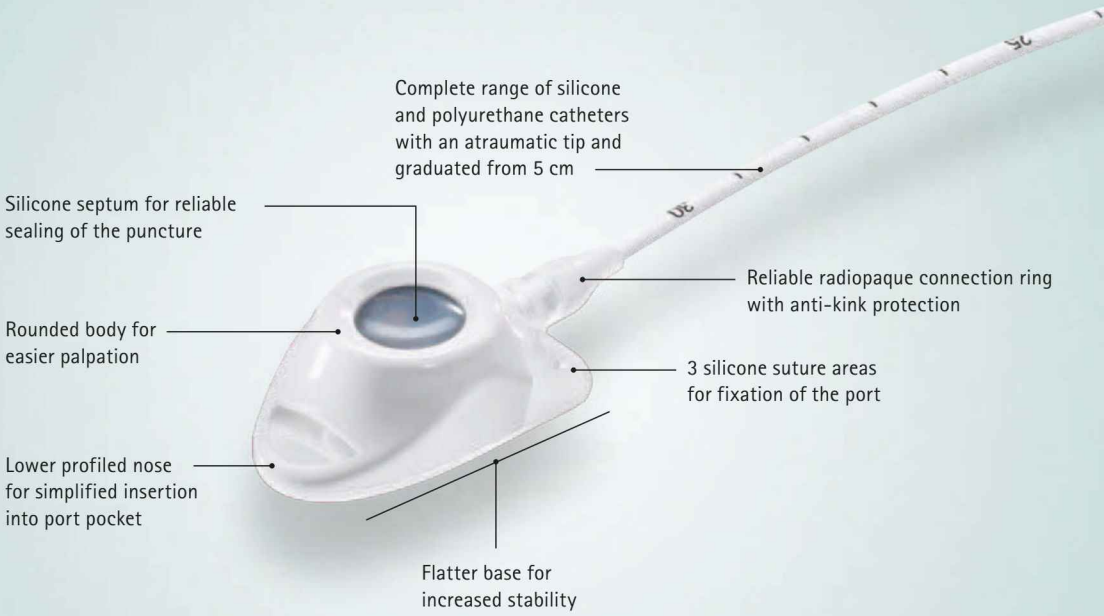


Material: Titanium | Polysulphone | Silicone
Weight: 8.6 g
Internal Volume: 0.5 mL

Small



Material: Titanium | Polysulphone | Silicone
Weight: 4.6 g
Internal Volume: 0.25 mL

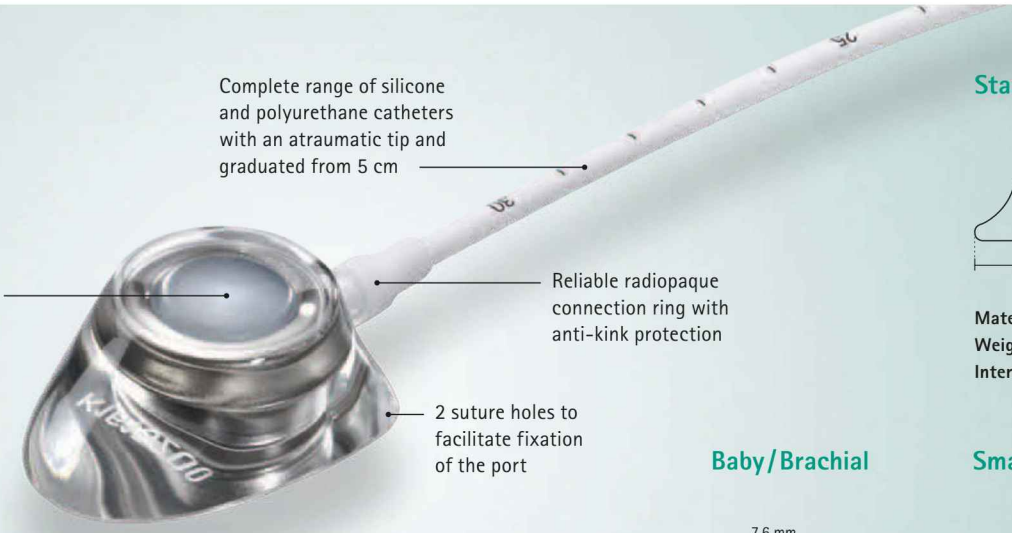


Catheter	OD (F/mm)	ID (mm)	Length (mm)	Flow rate* (ml/min)		325 PSI Recommended maximum flow rates (mL/s) Contrast media at 37°C (325 psi = 22.4 bar)**						Implantation technique	Type	Reference	Accessories see page 18/19
						Viscosity 5.8 mPa.s (cP)			Viscosity 11.4 mPa.s (cP)						
				19 G	22 G	22 G	20 G	19 G	22 G	20 G	19 G				
Standard															
Silicone	6.5/2.2	1.0	800	24	11	2	6	7	1	4	5	Seldinger	ST501F	4437024	①
Silicone	6.5/2.2	1.0	800	24	11	2	6	7	1	4	5	Surgical cut-down	T501F	4437021	⑥
Silicone	8.5/2.8	1.1	800	24	11	2	6	7	1	4	6	Seldinger	ST501	4437022	①
Silicone	8.5/2.8	1.1	800	24	11	2	6	7	1	4	6	Surgical cut-down	T501	4437020	⑥
Small															
Silicone	6.5/2.2	1.0	800	24	11	2	5	8	1	4	6	Seldinger	ST505	4437027	①
Silicone	8.5/2.8	1.1	800	24	11	2	5	8	1	3	6	Seldinger	ST505L	4437029	①
PUR (high flow)	8.5/2.8	1.6	800	39	12	2	6	9	1	4	6	Seldinger	ST505H	4437028	①

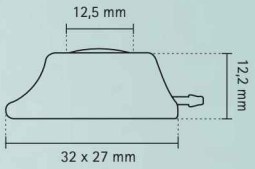
* Gravity infusion of saline (0.9%) through a 22G respectively 19G needle from a height difference of 1 m and a catheter length of 40 cm.
** With a catheter of 20 cm and Surecan® Safety II. For countries under CE mark only.

Venous Access Port System

Celsite® Epoxy

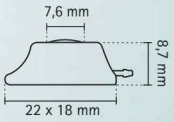


Standard



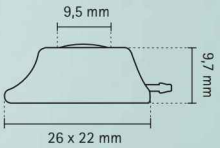
Material: Titanium | Epoxy
Weight: 8 g
Internal Volume: 0.5 mL

Baby/Brachial



Material: Titanium | Epoxy
Weight: 3 g
Internal Volume: 0.15 mL

Small



Material: Titanium | Epoxy
Weight: 5 g
Internal Volume: 0.25 mL

■ Available with radiopaque "CT" marking soon.

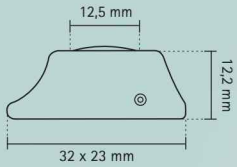
Catheter	OD (F/mm)	ID (mm)	Length (mm)	Flow rate* (ml/min)		325 PSI Recommended maximum flow rates (mL/s) Contrast media at 37°C (325 psi = 22.4 bar)**						Implantation technique	Type	Reference	Accessories see page 18/19
						Viscosity 5.8 mPa.s (cP)			Viscosity 11.4 mPa.s (cP)						
				19 G	22 G	22 G	20 G	19 G	22 G	20 G	19 G				
Standard															
PUR	5 /1.7	1.1	900	22	10	2	5	6	1	3	5	Braunule, Seldinger	ST201C	4432045	②
Silicone	6.5 /2.2	1.0	800	24	10	2	6	7	1	4	5	Surgical cut-down	T201F	4430034	⑥
Silicone	6.5 /2.2	1.0	800	24	10	2	6	7	1	4	5	Seldinger	ST201F	4430409	①
PUR	6.5 /2.1	1.4	800	28	11	2	5	7	1	4	6	Seldinger	ST201P	4430417	①
PUR (high flow)	8.5 /2.8	1.6	800	39	12	2	6	8	1	4	7	Seldinger	ST201H	4433149	①
Silicone	8.5 /2.8	1.1	800	24	11	2	6	7	1	4	6	Surgical cut-down	T201	4430026	⑥
Silicone	8.5 /2.8	1.1	800	24	11	2	6	7	1	4	6	Seldinger	ST201	4430395	①
Silicone (high flow)	10 /3.2	1.6	800	38	12	2	6	9	1	4	6	Seldinger	ST201G	4433807	①
Small															
Silicone***	6.5 /2.2	1.0	800	24	10	2	5	8	1	4	6	Seldinger	ST205	4430893	①
Silicone	6.5 /2.2	1.0	800	24	10	2	5	8	1	4	6	Surgical cut-down	T205	4430085	⑥
Baby/Brachial															
PUR	4.5 /1.5	0.8	800	14	8	2	4	–	1	3	–	Seldinger	Babyport®	4433742	④
PUR	5 /1.7	1.1	700	22	10	2	5	–	1	4	–	Seldinger, OTW	Brachial	4433734	⑩
Silicone	6 /2.0	1.2	600	27	12	2	5	–	1	4	–	Seldinger	Babyport® S	4433842	⑤

* Gravity infusion of saline (0.9%) through a 22G respectively 19G needle from a height difference of 1 m and a catheter length of 40 cm.
** With a catheter of 20 cm and Surecan® Safety II. For countries under CE mark only.
*** This version is also available as pre-connected system.

Low Profile Venous Access Port System

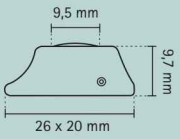
Celsite® Discreet

Standard



Material: Titanium | Epoxy
Weight: 7 g
Internal Volume: 0.5 mL

Small



Material: Titanium | Epoxy
Weight: 4 g
Internal Volume: 0.25 mL

- The unique low profile design with 90° connection provides a high level of discretion
- The surgical incision can be placed vertically to follow the subcutaneous traction lines
- Better cosmetic results due to a discreet scar
- 90° connection minimizes the risk of port rotation and therefore reduces the risk of catheter kinking
- Available with radiopaque "CT" marking soon.

Catheter	Exit cannula	OD (F/mm)	ID (mm)	Length (mm)	Flow rate* (ml/min)		325 PSI Recommended maximum flow rates (mL/s) Contrast media at 37°C (325 psi = 22.4 bar)**						Implantation technique	Type	Reference	Accessories see page 18/19
							Viscosity 5.8 mPa.s (cP)			Viscosity 11.4 mPa.s (cP)						
					19 G	22 G	22 G	20 G	19 G	22 G	20 G	19 G				
Standard																
Silicone	left	8.5/2.8	1.1	800	26	11	2	6	7	1	4	6	Seldinger	STL201L	4430144	⑦
Silicone	right	8.5/2.8	1.1	800	26	11	2	6	7	1	4	6	Seldinger	STR201L	4430145	⑦
PUR	left	8.5/2.8	1.6	800	39	12	2	6	8	1	4	7	Seldinger	STL201H	4440201	⑦
PUR	right	8.5/2.8	1.6	800	39	12	2	6	8	1	4	7	Seldinger	STR201H	4440202	⑦
Small																
Silicone	left	6.5/2.2	1.1	800	22	11	2	5	8	1	4	6	Seldinger	STL205F	4430146	⑦
Silicone	right	6.5/2.2	1.1	800	22	11	2	5	8	1	4	6	Seldinger	STR205F	4430147	⑦
PUR	left	6.5/2.1	1.4	800	28	11	2	5	8	1	4	5	Seldinger	STL205P	4440203	⑦
PUR	right	6.5/2.1	1.4	800	28	11	2	5	8	1	4	5	Seldinger	STR205P	4440204	⑦

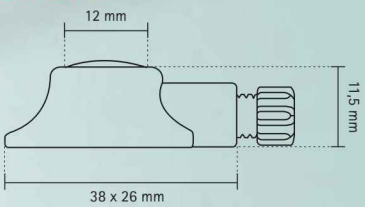
* Gravity infusion of saline (0.9%) through a 22G respectively 19G needle from a height difference of 1 m and a catheter length of 40 cm.
** With a catheter of 20 cm and Surecan® Safety II. For countries under CE mark only.
*** The kits for Brachial L and Brachial R contain Winged Surecan® in G22 x 15 mm (instead of G20 x 20mm).

Venous Access Port System

Celsite® IMPLANTOFIX

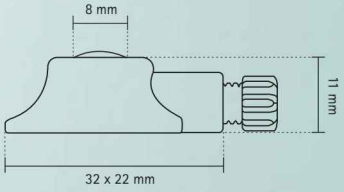
For repeated intra-venous administration of, for example, chemotherapy, antibiotics and anti-viral drugs, total parenteral nutrition (TPN), blood sampling or transfusion.

Standard



Material: Polysulphone
Weight: 6 g
Internal Volume: 0.33 mL

Small



Material: Polysulphone
Weight: 4.3 g
Internal Volume: 0.15 mL

Catheter	OD (F/mm)	ID (mm)	Length (mm)	Flow rate* (ml/min)		Implantation technique	Type	Reference	Acces-sories see page 18/19
				19G	22G				
Standard									
PUR	5 / 1.7	1.1	700	22	10	Surgical cut-down	IMPLANTOFIX	4430263	⑥
PUR	5 / 1.7	1.1	370	22	10	Seldinger, OTW	IMPLANTOFIX	4438604	⑬
PUR	5 / 1.7	1.1	700	22	10	Braunule	IMPLANTOFIX	4438620	⑪
Silicone	6 / 2.0	1.2	600	23	11	Seldinger	IMPLANTOFIX S	4438704	⑫
Small									
PUR	5 / 1.7	1.1	370	22	10	Seldinger, OTW	IMPLANTOFIX	4438647	⑬
PUR	5 / 1.7	1.1	700	22	10	Surgical cut-down	IMPLANTOFIX	4433521	⑥
PUR	5 / 1.7	1.1	700	22	10	Braunule	IMPLANTOFIX	4438663	⑪
Silicone	6 / 2.0	1.2	600	23	11	Seldinger	IMPLANTOFIX S	4438747	⑫

All IMPLANTOFIX products contain:

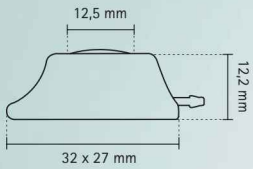
- 2 x Screw connectors
- 2 x Straight Surecan® 22G x 30 mm
- 1 x Spanner
- 1 x Vein lifter

* Gravity infusion of saline (0.9%) through a 22G respectively 19G needle from a height difference of 1 m and a catheter length of 40 cm.

Venous Access Port System

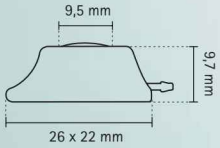
Celsite® ECG

Standard



Material: Titanium | Epoxy
Weight: 8 g
Internal Volume: 0.5 mL

Small



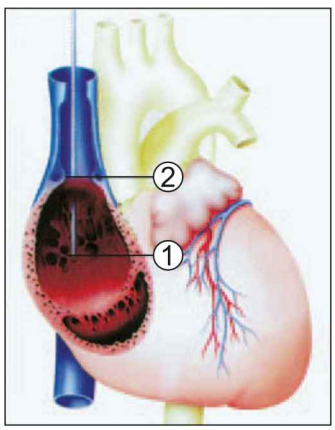
Material: Titanium | Epoxy
Weight: 5 g
Internal Volume: 0.25 mL

- The catheter can be placed via intra-atrial ECG detection. This allows accurate placement of the catheter tip into the superior vena cava without intraoperative fluoroscopy.
- Position of the catheter is defined by monitoring changes in the P-wave (see image below)
- No intraoperative x-ray control needed, which leads to time and cost savings
- No radiation exposure during intervention for theatre staff
- Specially marked guide-wire, catheter and single use ECG cable are included
- Universal adapter is required for connection with ECG monitor (B. Braun Certodyn Universal Adapter, Reference 4150228)
- Available with radiopaque "CT" marking soon.

Localisation

① Maximal P-wave height is reached and maintained when the catheter enters into the right atrium. The amplitude of the P-wave will decrease if the catheter is advanced down into the inferior vena cava. After identifying the area where the P-wave begins to develop its maximal amplitude (which corresponds anatomically to the junction between superior vena cava and the right atrium) advance the catheter a further 2 cm.

② This is the final position of the catheter tip.



Catheter	OD (F/mm)	ID (mm)	Length (mm)	Flow rate* (ml/min)		325 PSI Recommended maximum flow rates (mL/s) Contrast media at 37°C (325 psi = 22.4 bar)**						Implantation technique	Type	Reference	Accessories see page 18/19
						Viscosity 5.8 mPa.s (cP)			Viscosity 11.4 mPa.s (cP)						
				19 G	22 G	22 G	20 G	19 G	22 G	20 G	19 G				
Standard															
Silicone	6.5 / 2.2	1.0	500	24	10	2	6	7	1	4	5	Seldinger (ECG)	ST201F ECG	4440140	⑨
Silicone	8.5 / 2.8	1.1	500	24	11	2	6	7	1	4	6	Seldinger (ECG)	ST201 ECG	4430140	⑨
Small															
Silicone	6.5 / 2.2	1.0	500	24	10	2	5	8	1	4	6	Seldinger (ECG)	ST205F ECG	4440111	⑨
Silicone	8.5 / 2.8	1.1	500	24	11	2	5	8	1	3	6	Seldinger (ECG)	ST205 ECG	4430111	⑨

* Gravity infusion of saline (0.9%) through a 22G respectively 19G needle from a height difference of 1 m and a catheter length of 40 cm.
** With a catheter of 20 cm and Surecan® Safety II. For countries under CE mark only.

Venous Access Port Systems with valved catheter

Celsite® Valved Catheter

- For chemotherapy, administration of antibiotics, parenteral nutrition and blood sampling
- Allows easy infusion and aspiration
- Distal 3-way valve

Conditions:

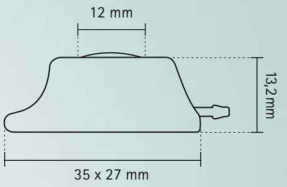
Infusion

Aspiration

Closed

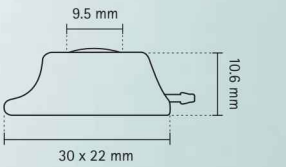
- Minimizes risk of catheter blockage due to thrombosis
- Anti-Reflux radiopaque silicone catheter

Standard



Material: Titanium | Polysulphone
Weight: 9 g
Internal Volume: 0.5 mL

Small



Material: Titanium | Polysulphone
Weight: 4.7 g
Internal Volume: 0.25 mL

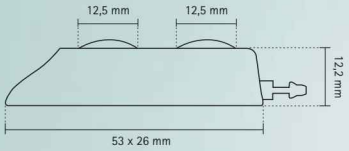
Catheter	OD (F/mm)	ID (mm)	Length (mm)	Flow rate* (ml/min)		Implantation technique	Type	Reference	Accessories see page 18/19
				19G	22G				
Standard									
Silicone	7.5 / 2.5	1.5	800	20	9	Seldinger	ST301V	4430092	⑦
Small									
Silicone	7.5 / 2.5	1.5	800	20	9	Seldinger	ST305V	4430095	⑦

* Gravity infusion of saline (0.9%) through a 22G respectively 19G needle from a height difference of 1 m and a catheter length of 40 cm.

Venous Access Port Systems

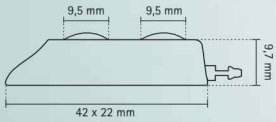
Celsite® Double Port

Standard



Material: Titanium | Epoxy
Weight: 14 g
Internal Volume: 0.5 mL x 2

Small



Material: Titanium | Epoxy
Weight: 7.5 g
Internal Volume: 0.25 mL x 2

- For simultaneous infusion of incompatible drugs
- For infusion with high flow rates by using both lumina
- Administration of continuous infusion and bolus injection
- Alternating puncture sites
- Profiled shape to be easily placed in a small pocket
- Small size facilitates implantation in paediatric and underweight patients
- Off-set silicone catheter tip ensures that no mixing of drugs occurs at the catheter tip
- Available with radiopaque "CT" marking soon.

Catheter	OD (F/mm)	ID (mm)	Length (mm)	Flow rate* (ml/min)		325 PSI Recommended maximum flow rates (mL/s) Contrast media at 37°C (325 psi = 22.4 bar)						Implantation technique	Type	Reference	Accessories see page 18/19
						Viscosity 5.8 mPa.s (cP)			Viscosity 11.4 mPa.s (cP)						
				19 G	22 G	22 G	20 G	19 G	22 G	20 G	19 G				
Standard															
Silicone	10 / 3.2	1.2 x 2	800	24	10	2	5	8	1	4	6	Seldinger	ST401L	4430100	⑦
Small															
Silicone	10 / 3.2	1.2 x 2	800	24	10	2	5	8	1	4	6	Seldinger	ST405L	4430101	⑦

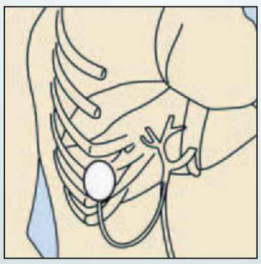
* Gravity infusion of saline (0.9%) through a 22G respectively 19G needle from a height difference of 1 m and a catheter length of 40 cm.
** With a catheter of 20 cm and Surecan® Safety II. For countries under CE mark only.

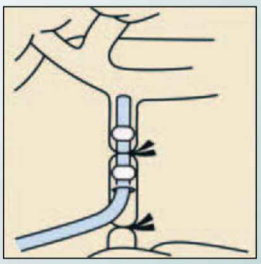
Venous Access Port Systems

Celsite® Arterial

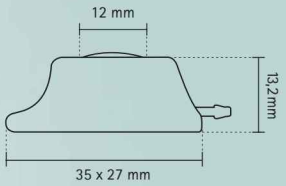
- For loco-regional chemotherapy of liver tumours and hepatic artery infusion therapies
- The access port is implanted at the base of the ribs, while the catheter is introduced into the *arteria gastroduodenalis* so that the catheter tip is located in the *arteria hepatica*
- The radiopaque silicone catheter has three rings to facilitate immobilisation of the catheter in the artery

Accessories:
Every Access Port kit contains
- 2 Straight Surecan® needles 22G x 30 mm
- 1 vein lifter



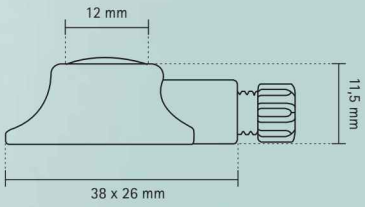


Celsite® Standard



Material: Titanium | Polysulphone
Weight: 9 g
Internal Volume: 0.5 mL

Celsite® IMPLANTOFIX Standard



Material: Polysulphone
Weight: 6 g
Internal Volume: 0.33 mL

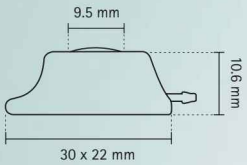
Catheter	Access Port	OD (F/mm)	ID (mm)	Length (mm)	Flow rate* (ml/min)		Implantation technique	Type	Reference
					19G	22G			
Standard									
Silicone	Celsite® (Titanium/ Polysulphone)	6.5 / 2.2	1.0	800	24	10	Surgical cut-down	T302	4430042
PUR	IMPLANTOFIX (Polysulphone)	5 / 1.7	1.1	700	22	10	Surgical cut-down	IMPLANTOFIX	4438817**

* Gravity infusion of saline (0.9%) through a 22G respectively 19G needle from a height difference of 1 m and a catheter length of 40 cm.
** Polyurethane catheter with two rings.

Arterial Access Port Systems

Celsite® Anthron® Arterial

Celsite® Small



Material: Titanium | Polysulphone
Weight: 4.7 g
Internal Volume: 0.25 mL

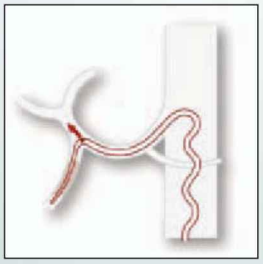
Tapered catheter

- The Anthron® catheter is specially designed for percutaneous access via the femoral or axillary artery, to the hepatic artery, for hepatic arterial infusion of chemotherapy (HAIC).
- Anthron® is a hydrophilic polyurethane catheter to which heparin is ionically bound. It is particularly indicated to help prevent catheter occlusion and catheter-related thrombosis.

Accessories:

Every Access Port kit contains

- 1 tunneling rod
- 1 vein lifter
- 2 Straight Surecan® needles 22G x 30 mm
- 1 Winged Surecan 20G x 20 mm



Catheter	OD (F)	OD (mm)	ID (mm)	Length (mm)	Flow rate* (ml/min)		Implantation technique	Type	Reference
					19G	22G			
Small									
Tapered PUR Anthron®	Non tapered portion 5F Distal tip 2.7F	1.7/0.9	1.1/0.5	Total 900 Tapered 200	18	10	Percutaneous	R305-A5ST	4442465

* Gravity infusion of saline (0.9 %) through a 22G respectively 19G needle from a height difference of 1 m and a catheter length of 40 cm.

Peritoneal Access Port Systems

Celsite® Peritoneal

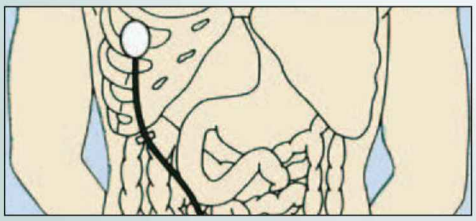
- For loco-regional chemotherapy of peritoneal metastases and ovarian cancer
- The access port is implanted at the base of the ribs and the catheter is placed at the required location inside the abdominal cavity
- The radiopaque silicone catheter with multiple perforations ensures optimal diffusion of infused drugs and reliable patency of the catheter

Accessories:

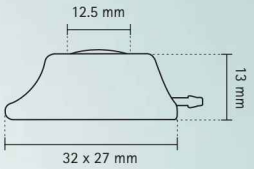
Every Access Port kit contains

- 2 Straight Surecan® needles 22G x 30 mm
- 1 vein lifter

The implantation accessories kit AP16F can be ordered separately (Reference 4430493; see page 21).



Standard



Material: Titanium | Epoxy
Weight: 10 g
Internal Volume: 0.5 mL

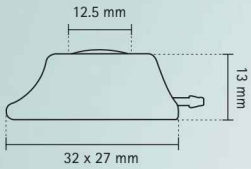
Catheter	OD (F/mm)	ID (mm)	Length (mm)	Flow rate* (ml/min)		Implantation technique	Type	Reference
				19G	22G			
Standard								
Silicone	15 / 4.9	2.6	420	46	12	peritoneal	T203J	4430069

* Gravity infusion of saline (0.9%) through a 22G respectively 19G needle from a height difference of 1 m and a catheter length of 40 cm.

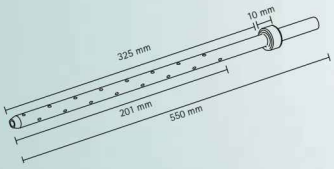
Peritoneal/Pleural Access Port System

Celsite® DRAINAPORT

Standard



Material: Titanium | Epoxy
Weight: 10 g
Internal Volume: 0.5 mL



- For intra-peritoneal administration of chemotherapy, hydration, drainage of malignant ascites, or drainage of malignant pleural effusion
- Avoids repeated, painful puncture for drainage
- Improves quality of life and is an easy and effective solution for home care treatment
- Celsite® DRAINAPORT can be implanted percutaneously or by surgical cut-down technique
- **Catheter cuff** promotes tissue ingrowth to reduce infection risk and holds the catheter securely in place
- **Connection** is secured with the radiopaque titanium connection ring
- **Silicone septum** for reliable puncture and easy port location
- **Anatomic design** with delta shape profile, light weight and easy to suture
- Smooth, large and flexible **multiperforated silicone catheter** with 49 oval holes (Ø 1.1 x 1.6 mm) from the tip up to 20 cm to prevent blockage of the catheter and ensure optimal efficiency

Catheter	OD (F/mm)	ID (mm)	Length (mm)	Flow rate* (ml/min)		Implantation technique	Type	Reference
				19G	22G			
Standard								
Silicone	15/4.9	2.6	550	46	12	peritoneal / pleural	T203J-1	4430169

Accessories:
Every Access Port kit contains
- 2 Straight Surecan® needles 22G x 33 mm

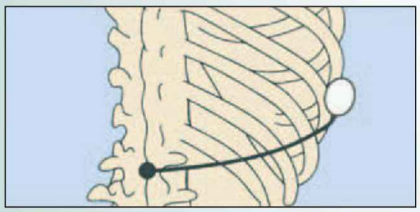
The implantation accessories kit AP16F can be ordered separately (Reference 4430493; see page 21).

* Gravity infusion of saline (0.9%) through a 22G respectively 19G needle from a height difference of 1 m and a catheter length of 40 cm.

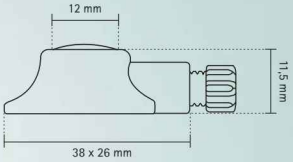
Epidural/Intra-thecal Access Port System

Celsite® Spinal

- For spinal administration of pain relieving drugs
- The catheter is tunneled under the skin to the access port, which is implanted at the base of the ribs
- Light weight and comfortable
- Profiled shape design facilitates insertion
- Integrated 20 µm titanium filter prevents the passage of particles



Standard

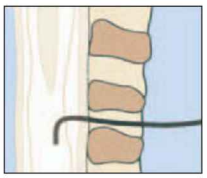


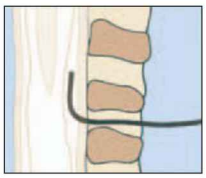
Material:	Polysulphone | Titanium-Filter
Weight:	6 g
Internal Volume:	0.33 mL

Catheter

Every Access Port kit contains 2 catheters:

- 1 multiperforated closed tip polyamide catheter (PA)
- 1 open tip polyurethane catheter (PUR) with a teflon-coated guide wire





Catheter	OD	OD (mm)	ID (mm)	Length (mm)	Flow rate* (ml/min)		Implantation technique	Type	Reference
					19G	22G			
Standard									
PUR and PA	19 G	1.05	0.6	1000	4	3	spinal/epidural	ST304-19	4430096
PUR and PA	20 G	0.86	0.45	1000	1	1	spinal/epidural	ST304-20	4430097

Accessory kit:

- Screw connector (2x)
- Spanner
- Anti-kink device (2x)
- Tunneling rod
- Winged Surecan® needle 20G x 20 mm
- Omnifix syringe 10 mL
- Perican Tuohy needle 16G (ST304-19) or Tuohy needle 18G (ST304-20)
- Sterifix 0.2 µm filter
- Scalpel size 10 and 11
- Sterican needle 20G x 70 mm
- Perifix LOR syringe
- Straight Surecan® 22G x 30 mm (2x)

* Gravity infusion of saline (0.9%) through a 22G respectively 19G needle from a height difference of 1 m and a catheter length of 40 cm.

MR Compatibility and High Pressure Resistance

Celsite®

MR-Conditional

Non-clinical testing demonstrated that Celsite® Access Ports and Surecan®/Cytocan port needles (including Safety II and Ultrasite®) are MR Conditional. A patient with these devices can be scanned immediately after placement under the following conditions:

- Static magnetic field of 3-Tesla and 1.5-Tesla
- Maximum spatial gradient magnetic field of 710 Gauss/cm or less
- Maximum whole body averaged specific absorption rate (SAR) of 2.9 W/kg for 15 minutes of scanning

MR image quality may be compromised if the area of interest is in the exact same area or relatively close to the position of the devices. Therefore, optimization of MR imaging parameters to compensate for the presence of these devices may be necessary.

Please see instructions for use for general information and information on MRI-related heating.

Pressure Resistance

All venous Celsite® Access Ports with titanium chamber (except for valved catheters and Celsite® Implantofix) are pressure resistant up to 325 psi (22.4 bar).

Please see instructions for use for detailed device information regarding high pressure injection.

Material

All Celsite® Access Ports are latex-, PVC- and DEHP-free.
All Surecan®/Cytocan needles are latex- and DEHP-free.

Recommended maximum flow rates (mL/s)

Celsite® Access Port Systems

with Angled Surecan® needle and Winged Surecan® needle without Y-site

	Celsite® type	Contrast media at 37°					
		Viscosity 5.8 mPa.s (cP)			Viscosity 11.4 mPa.s (cP)		
		Needle size			Needle size		
		22 G	20 G	19 G	22 G	20 G	19 G
Celsite® Baby/ Brachial	Babyport® – Babyport® PC	2	4	-	1	3	-
	Brachial	2	4	-	1	3	-
	Brachial L – Brachial R	2	4	-	1	3	-
	Babyport® S	2	4	-	2	4	-
Double Port	ST405L	2	5	6	2	4	6
Celsite® Small	STL205P – STR205P	2	4	6	2	3	5
	ST305P	2	4	6	2	3	4
	ST305C	2	4	5	1	3	4
	T/ST305 – T/ST205 – ST505 – ST315 – ST215 – ST205F ECG	2	4	5	2	3	4
	STL205F – STR205F	2	4	5	2	3	4
	ST305L – ST505L – ST205ECG – ST315L	2	4	5	2	3	5
	ST305H – ST505H	2	5	7	2	4	6
Double Port	ST401L	2	5	7	2	4	6
Celsite® Standard	ST301C – ST501C – ST201C – ST3010TW	2	5	6	2	4	5
	T/ST301F – ST201F ECG – T/ST201F – T/ST501F - ST311F	2	5	6	2	4	6
	T/ST301P – ST201P	2	5	6	2	4	6
	T/ST301 – ST311 – T/ST201 – T/ST501 – ST201ECG	2	5	6	2	4	6
	STL201L – STR201L	2	5	6	2	4	6
	ST201H – T/ST301H – ST311H – ST501H	2	5	7	2	5	7
	STL201H – STR201H	2	5	7	2	5	7
	ST301G – ST201G – ST501G	2	5	8	2	5	7

Recommended maximum pressure (CT function) - 325 psi (22.4 bar)
Flow rates may vary depending on temperature of contrast media and length of the implanted catheter.
For flow rates of Surecan® Safety II, please refer to concerned Access Port product pages.

Overview and type declaration

Celsite®

Indication	Catheter	OD	Catheter material	Access Port type	Dead volume port	Dead volume catheter (mL/cm)
VENOUS	Small catheters	5 F	Polyurethane	ST201C	0.50 mL	0.010 mL
				ST301C, ST301OTW, ST501C		
				ST305C	0.25 mL	
				4430263, 4438604, 4438620 (Implantofix)	0.33 mL	
				4438647, 4438663, 4433521 (Implantofix)	0.15 mL	
		6.5 F	Polyurethane	ST201P, T301P, ST301P	0.50 mL	0.015 mL
				ST305P, STL205P, STR205P	0.25 mL	
		6 F	Silicone	4438704 (Implantofix)	0.33 mL	0.011 mL
				4438747 (Implantofix)	0.15 mL	
		6.5 F	Silicone	T201F, ST201F, T301F, ST301F, ST311F*, T501F, ST501F, ST201F ECG	0.50 mL	0.008 mL
				T205, ST205, ST215*, T305, ST305, ST315*, ST505	0.25 mL	
	Large and high flow catheters	8.5 F	Silicone	T201, ST201, T301, ST301, ST311*, T501, ST501, STL201L, STR201L	0.50 mL	0.010 mL
				ST305L, ST505L	0.25 mL	
		8.5 F	Polyurethane	ST201H, T301H, ST301H, ST311H*, STL201H, STR201H	0.50 mL	0.020 mL
				ST305H, ST505H	0.25 mL	
		10 F	Silicone	ST201G, ST301G	0.50 mL	0.020 mL
SPECIALITY VENOUS	Small catheters	4.5 F	Polyurethane	Babyport®	0.15 mL	0.005 mL
		5 F	Polyurethane	Brachial	0.15 mL	0.010 mL
		6 F	Silicone	Babyport® S	0.15 mL	0.011 mL
		6.5 F	Silicone	STR205F, STL205F, ST205F ECG	0.25 mL	0.008 mL
	Large and high flow catheters	8.5 F	Silicone	STR201L, STL201L, ST201 ECG	0.50 mL	0.010 mL
				ST205ECG	0.25 mL	
	Valved catheters	7.5 F	Silicone	ST301V	0.50 mL	0.018 mL
				ST305V	0.25 mL	
	Double port catheters	10 F	Silicone	ST401L ST405L	0.50 mL x2 0.25 mL x2	0.013 mL
OTHER SPECIA-LITIES	Small arterial catheters	5 F	Polyurethane	4438817	0.33 mL	0.010 mL
		6.5 F	Silicone	T302	0.50 mL	0.008 mL
	Peritoneal catheters	15 F	Silicone	T203J, T203J-1	0.50 mL	0.053 mL
	Spinal/epidural catheters	19 G	Polyamide and polyurethane	ST304-19	0.33 mL	0.003 mL
		20 G		ST304-20		0.002 mL

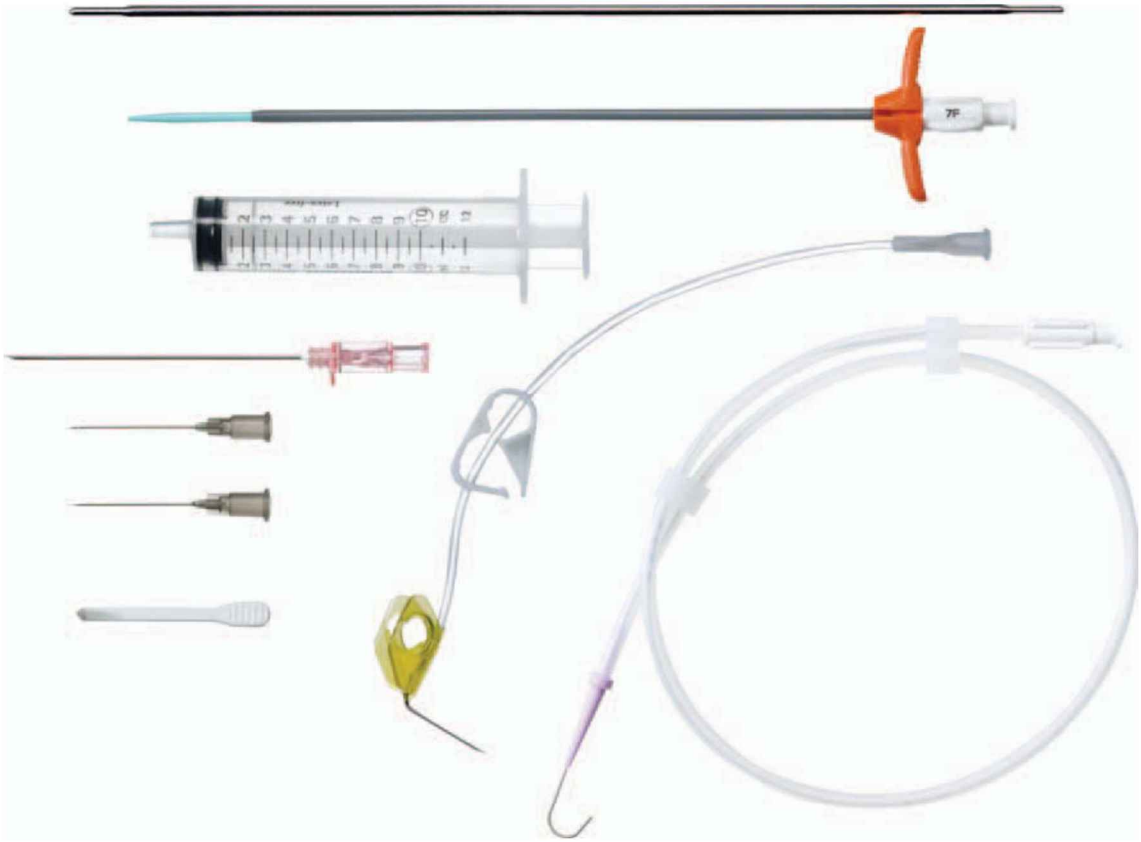
* Pre-connected Access Port Systems

S	T	R	2	0	1	F
Accessories S=Set	**Reservoir** T=Titanium	**Discreet** R=Right L=Left	**Body** 2=Epoxy 2 suture holes 3=Polysulphone 3 suture holes 4=Double Port Epoxy 5=Polysulphone with Silicone ears	**Connection** 0=with connection ring 1=pre-connected	**Indication** 1=Venous (std) 2=Arterial 3=Peritoneal & pleural 4=Spinal 5=Venous (small)	**Catheter** L=Silicone (large) F=Silicone (small) G=Silicone (high flow) P=PUR J=Silicone peritoneal/ pleural H=PUR (high flow) C=PUR Tecothane V=Valve OTW=Over the wire ECG =ECG implantation technique

Accessories

Venous accessories

	Implantation technique	Percutaneous					
		Seldinger		OTW	Seldinger/OTW	Seldinger/Braunule	Braunule
Pieces	Kit designation	Kit ①	Kit ⑫	Kit ③	Kit ⑬	Kit ②	Kit ⑪
2	Straight Surecan® needles	22 G x 30 mm	22 G x 30 mm	22 G x 30 mm	22 G x 30 mm	22 G x 30 mm	22 G x 30 mm
1	Vein lifter	x	x	x	x	x	x
1	Puncture needle	18 G x 70 mm	18 G x 70 mm	18 G x 70 mm	18 G x 70 mm	18 G x 70 mm	
1	Splittocan needle					14 G x 80 mm	14 G x 80 mm
1	J guide wire with dispenser	0.035" x 50 cm	0.035" x 50 cm	0.035" x 70 cm	0.035" x 70 cm	0.035" x 50 cm	
1	Dilator			6F x 100 mm	6F x 100 mm		
1	Tear-away introducer	L 180/140 mm	L 180/140 mm			L 180/140 mm	
1	Tunnelling rod	x	x	x	x	x	x
1	Omnifix luer syringe	10 mL	10 mL	10 mL	10 mL	10 mL	10 mL
1	Winged Surecan® needle	20 G x 20 mm		20 G x 20 mm		20 G x 20 mm	



Accessories

Venous accessories

	Implantation technique	Surgical	Percutaneous				
		Cut-down	Seldinger/OTW	Seldinger			ECG
Pieces	Kit designation	Kit ⑥	Kit ⑩ (Brachial)	Kit ④ (Baby)	Kit ⑤ (Baby)	Kit ⑦	Kit ⑨
2	Straight Surecan® needles	22 G x 30 mm	22 G x 30 mm	22 G x 30 mm	22 G x 30 mm	22 G x 30 mm	22 G x 30 mm
1	Vein lifter	x	x	x	x	x	x
1	Puncture needle		18 G x 70 mm	20 G x 50 mm	18 G x 70 mm	18 G x 70 mm	18 G x 70 mm
1	Introcan needle			20 G x 32 mm			
1	J guide wire with dispenser		0.035" x 150 cm	0.025" x 50 cm	0.035" x 50 cm	0.035" x 50 cm	0.035" x 70 cm
1	ECG cable						x
1	Tear-away introducer/ Dilator		L 180/140 mm	L 80/50 mm	L 180/140 mm	180/140 mm	180/140 mm
1	Tunnelling rod		x	x	x	x	x
1	Omnifix luer syringe		10 mL	10 mL	10 mL	10 mL	10 mL
1	Winged Surecan® needle		22 G x 15 mm	22 G x 15 mm	22 G x 15 mm	20 G x 20 mm	20 G x 20 mm

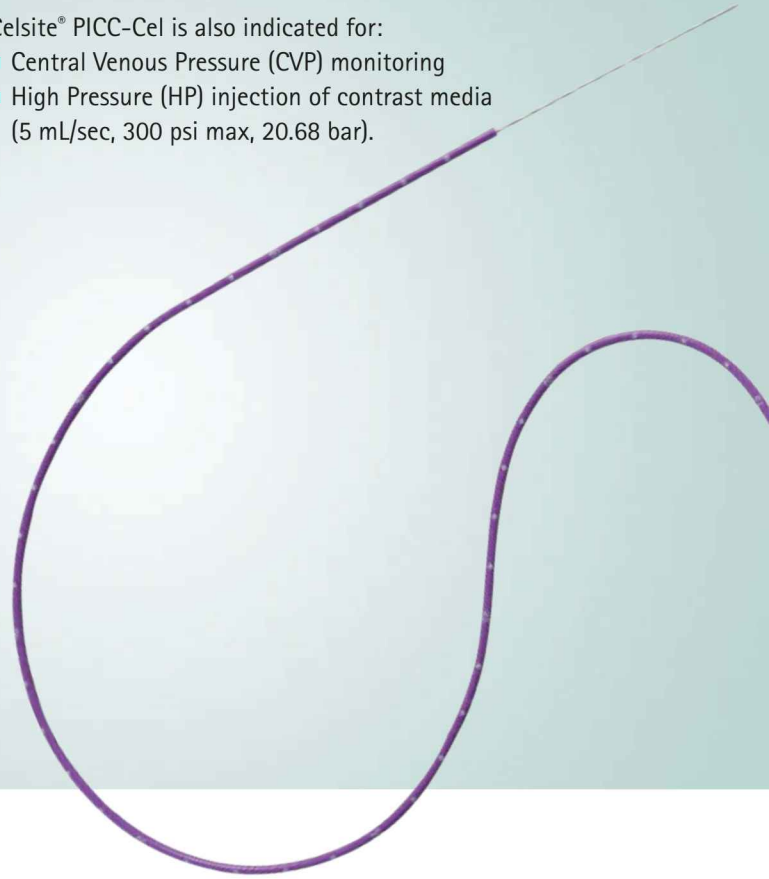
Separate accessory kits

	Reference	4430483	4430484	4430492	4430493
Pieces	Kit designation	AP 6F	AP 7F	AP 9F	AP 16F
1	Puncture needle	20 G x 50 mm Seldinger	18 G x 70 mm Seldinger	18 G x 70 mm Seldinger	18 G x 70 mm Seldinger
1	Introcan needle	20G x 32 mm			
1	J guide wire with dispenser	0.025" x 50 cm	0.035" x 50 cm	0.035" x 50 cm	0.035" x 40 cm
1	Tear-away introducer/ Dilator	6F, short (80/50 mm)	7F x180/140 mm	9F x180/140 mm	16F with dilator 12F-14F
1	Tunnelling rod	x	x	x	x
1	Vein lifter	x	x	x	
1	Omnifix luer syringe	10 mL	10 mL	10 mL	10 mL
1	Winged Surecan® needle	22 G x 15 mm	20 G x 20 mm	20 G x 20 mm	19 G x 25 mm

Celsite® PICC-Cel

Celsite® PICC-Cel is a Peripherally Inserted Central venous polyurethane (PUR) Catheter, indicated for short to long-term drug infusion therapy (up to 3 months) such as antibiotherapy, blood sampling and transfusion, Total Parenteral Nutrition (TPN), antivirals or chemotherapy.

Celsite® PICC-Cel is also indicated for:
- Central Venous Pressure (CVP) monitoring
- High Pressure (HP) injection of contrast media (5 mL/sec, 300 psi max, 20.68 bar).



Catheter characteristics

- Single and double lumen catheters available: Double lumen catheters allow simultaneous infusion of incompatible drugs
- PUR catheter marked every cm from 0 at the hub end helps monitoring of catheter progress and confirmation of complete catheter removal
- MR Safe (if using with Ultrasite® valve then the system is MR Conditional)
- Reverse taper design catheter from the hub for 10 cm reduces the risk of bleeding and increases resistance to kinking at skin exit
- Radiopaque

PICC-Cel range

Box of 5 units

N° lumen	Catheter/ peelable introducer	Catheter length	Maximum flow rate (300 psi/20 bar)	Reference
Single	4F	51 cm	5 mL/sec	**04439001**
Single	5F	61 cm	5 mL/sec	**04439002**
Double	5F	56 cm	5 mL/sec	**04439003**
Double	6F	61 cm	5 mL/sec	**04439004**

Implantation Accessories in the kit:

21G x 70 mm echogenic puncture needle for better visualisation under echo-guidance.

0.018" x 70 cm stainless steel guide-wire with 7cm floppy gold-plated tungsten tip, for introduction of the peelable introducer and to measure catheter length

4F, 5F or 6F x 10 cm peelable introducer (color coded for easier identification)

10 mL Omnifix® syringe

Scalpel (N°11)

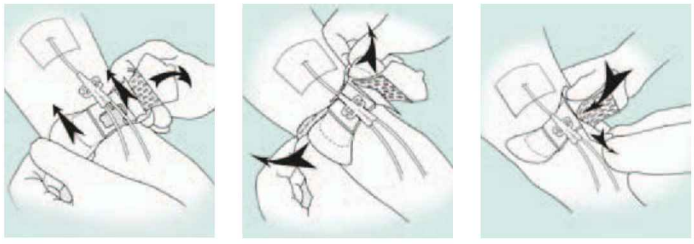
Ultrasite® needle-free valve (1 for each line)

PICC-Cel Grip-Lok® Securement device

Tape measure (66 cm/26") facilitates catheter measurement and trimming before implantation

PICC-Cel Grip-Lok® Securement device

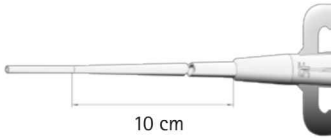
Ref. 04439010 – Box of 50 units



As suturing is not recommended* due to infection risk, one PICC-Cel Grip-Lok® is available in each Celsite® PICC-Cel box for safe and clean fixation of the PICC-Cel catheter at the skin exit.

PICC-Cel Grip-Lok securement devices can be ordered separately in boxes of 50 units.

- The 2 holes on the hub are compatible with other securement devices



- 10 cm reverse taper catheter design reduces risk of bleeding

- Ultrasite® needle-free valve minimizes the risk of blood exposure and inadvertent air embolism

- Luer connector for flushing of the guide wire

* Infusion Nursing Standards of Practice for catheter stabilization J. Infus. Nursing 2006:29(IS):S1-S92

Non-Coring Needles for Access Ports

Surecan® | Cytocan

Angled Surecan® non-coring needle

- use for short-term infusions
- latex- and DEHP-free (hub)

Size	Cannula diameter (mm)	Cannula length (mm)	Sales unit-pcs.	Reference
19 G	1.1	15	50	4438000
19 G	1.1	20	50	4439430
19 G	1.1	25	50	4439406
20 G	0.9	15	50	4439929
20 G	0.9	20	50	4439937
20 G	0.9	25	50	4439945
20 G	0.9	35	50	4434862
22 G	0.7	15	50	4439813
22 G	0.7	20	50	4439821
22 G	0.7	25	50	4439830
22 G	0.7	35	50	4434870

Straight Surecan® non-coring needle

- use for bolus injection or flushing of the Access Port
- latex- and DEHP-free (hub)

Size	Cannula diameter (mm)	Cannula length (mm)	Sales unit-pcs.	Reference
20 G	0.9	40	100	4439953
20 G	0.9	70	100	4439998
20 G	0.9	90	100	4440000
22 G	0.7	30	100	4439848
24 G	0.55	25	100	4439414

Cytocan non-coring needle with fixation base

- use for long-term infusions
- flexible, transparent fixation base for reliable deployment
- latex- and DEHP-free (fixation base)
- extension tubing with clamp (PVC-free)
- tubing length cannula to connector: 250 +/- 10 mm

Size	Cannula diameter (mm)	Cannula length (mm)	Sales unit-pcs.	Reference
19 G	1.1	15	25	4438035
19 G	1.1	20	25	4438019
19 G	1.1	25	25	4438027
20 G	0.9	15	25	4439759
20 G	0.9	20	25	4439767
20 G	0.9	25	25	4439775
20 G	0.9	40	25	4439777
22 G	0.7	15	25	4439694
22 G	0.7	20	25	4439635
22 G	0.7	25	25	4439686

Non-Coring Winged Needles for Access Ports

Surecan®

Winged Surecan® non-coring needle

- High pressure resistant up to 325 psi (22.4 bar)
- use for long-term infusions
- flexible wings for relieved puncture and fixation
- latex- and DEHP-free (wings)
- extension tubing with clamp (PVC-free)
- tubing length cannula to connector: 200 +/- 10 mm

Size	Cannula diameter (mm)	Cannula length (mm)	Sales unit-pcs.	Reference
19 G	1.1	15	15	4448286
19 G	1.1	20	15	4448294
19 G	1.1	25	15	4448308
20 G	0.9	15	15	4448332
20 G	0.9	20	15	4448340
20 G	0.9	25	15	4448359
20 G	0.9	30	15	4448367
22 G	0.7	12	15	4448375
22 G	0.7	15	15	4448383
22 G	0.7	20	15	4448391
22 G	0.7	25	15	4448405

Winged Surecan® LP non-coring needle

- use for long-term infusions
- flexible wings for relieved puncture and fixation
- latex- and DEHP-free (wings)
- extension tubing with clamp (PVC-free)
- tubing length cannula to connector: 200 +/- 10 mm

Size	Cannula diameter (mm)	Cannula length (mm)	Sales unit-pcs.	Reference
19 G	1.1	15	15	3448286
19 G	1.1	20	15	3448294
19 G	1.1	25	15	3448308
20 G	0.9	15	15	3448332
20 G	0.9	20	15	3448340
20 G	0.9	25	15	3448359
20 G	0.9	30	15	3448367
22 G	0.7	12	15	3448375
22 G	0.7	15	15	3448383
22 G	0.7	20	15	3448391
22 G	0.7	25	15	3448405

Winged Surecan® non-coring needle with Y-site

- use for long-term infusions
- flexible wings for relieved puncture and fixation
- latex- and DEHP-free (wings)
- extension tubing with clamp (PVC-free)
- tubing length cannula to connector: 200 +/- 10 mm
- Y-site configuration

Size	Cannula diameter (mm)	Cannula length (mm)	Sales unit-pcs.	Reference
19 G	1.1	20	15	4448430
19 G	1.1	25	15	4448448
20 G	0.9	15	15	4448472
20 G	0.9	20	15	4448480
20 G	0.9	25	15	4448499
22 G	0.7	15	15	4448529
22 G	0.7	20	15	4448537
22 G	0.7	25	15	4448545
22 G	0.7	30	15	4448553

Non-Coring Safety Needles for Access Ports

Surecan® Safety II

DEHP FREE

LATEX FREE

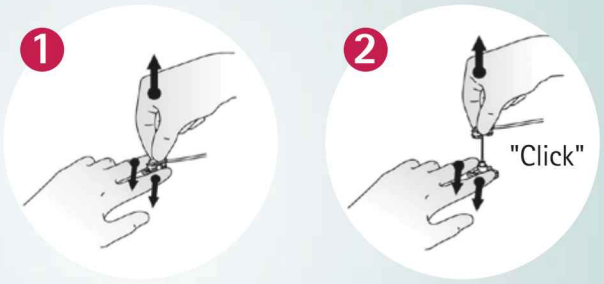
- Intuitive handling
- Minimizes risk of needle stick injuries
- High patient comfort

Your product advantages at a glance

- High pressure resistant up to 325 psi (22.4 bar)
- MR Conditional
- Ergonomic wings to provide a reliable and firm grip
- Low profile for a discreet appearance
- Transparent fixation base ensures an improved visibility of the puncture site and allows early identification of infections
- Non-absorbent foam pad for increased patient comfort
- Deployment of safety mechanism is easy and confirmed visually and audibly

Easy removal

1. Stabilise the needle base on the port
2. Firmly pull the wings up until you hear a "Click"
- Safety mechanism is enabled



Surecan® Safety II non-coring safety needle

- tubing length cannula to connector: 190 +/- 10 mm

Size	Cannula diameter (mm)	Cannula length (mm)	Sales unit-pcs.	Reference
G 19	1.1	15	20	4447000
G 19	1.1	20	20	4447001
G 19	1.1	25	20	4447002
G 19	1.1	32	20	4447003
G 19	1.1	38	20	4447004
G 20	0.9	15	20	4447005
G 20	0.9	20	20	4447006
G 20	0.9	25	20	4447007
G 20	0.9	32	20	4447008
G 20	0.9	38	20	4447009
G 22	0.7	15	20	4447010
G 22	0.7	20	20	4447011
G 22	0.7	25	20	4447012
G 22	0.7	32	20	4447013

Non-Coring Safety Needles for Access Ports

Surecan® Safety II

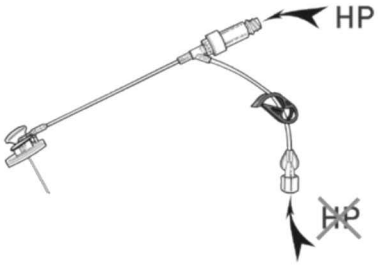
Surecan® Safety II non-coring safety needle with Ultrasite® and Y-site

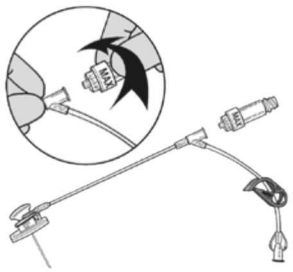
- Y-site configuration
- tubing length Y-site to connector: 82 +/- 10 mm
- tubing length cannula to Y-site: 90 +/- 10 mm

Size	Cannula diameter (mm)	Cannula length (mm)	Sales unit-pcs.	Reference
G 19	1.1	15	20	4447028
G 19	1.1	20	20	4447029
G 19	1.1	25	20	4447030
G 19	1.1	32	20	4447031
G 19	1.1	38	20	4447032
G 20	0.9	15	20	4447033
G 20	0.9	20	20	4447034
G 20	0.9	25	20	4447035
G 20	0.9	32	20	4447036
G 22	0.7	15	20	4447038
G 22	0.7	20	20	4447039
G 22	0.7	25	20	4447040

Please note for high pressure injection through Surecan® Safety II needles with Y-site:

- Ensure that the Ultrasite® valve is firmly attached
- Close the clamp on the main line
- Inject through the Ultrasite® valve





Surecan® Safety II with Ultrasite® Y

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