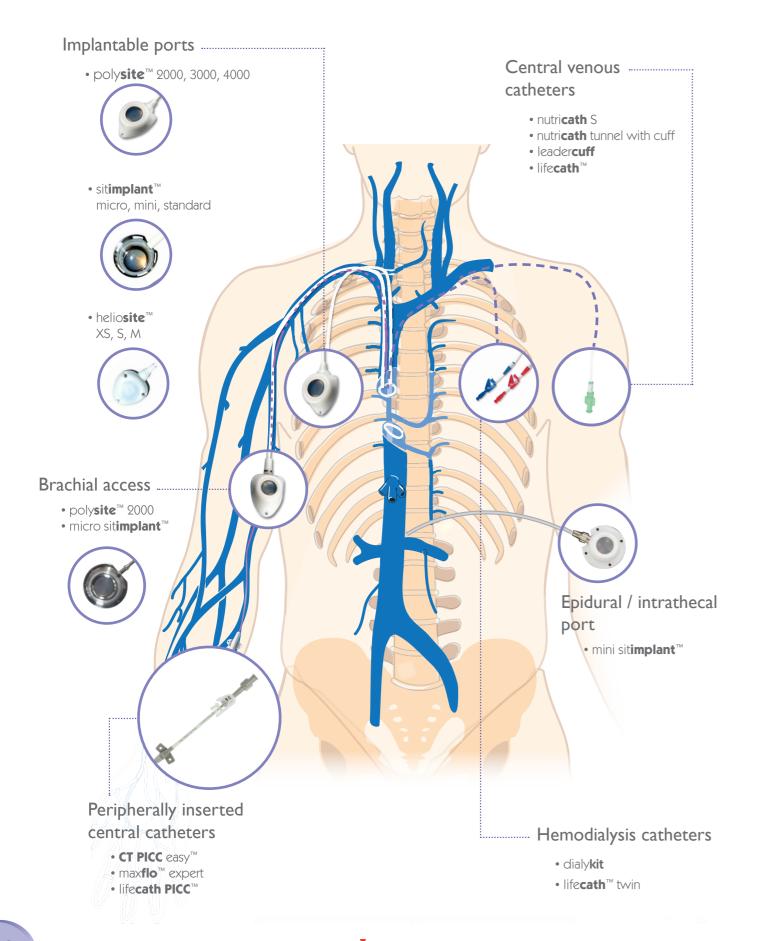




Vascular access range





Venous standard port
poly site ™ 4000 series - Hybrid: Titanium and POM4
Venous mini port
poly site ™ 3000 series - Hybrid: Titanium and POM5
Venous micro port
poly site ™ 2000 series - Hybrid: Titanium and POM
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life cath PICC™ & max flo ™ expert
PICC-Line with proximal trimming
CT PICC easy™
PICC insertion pack
Long term central venous catheter
Single lumen catheter with detachable hub
life cath ™ - silicone catheter
Hemodialysis catheter
life cath ™ twin and dialy kit
Huber needles range with and without connecting line
Safety Huber needles
poly perf [™] safe
PPS flow + ™
PPS [™] CT
Clear Transparent Film Dressing
poly film ™31





Compatible
injection of contrast
media during CT
scan and MRI
procedures
(cf. Page 8)

Venous standard port poly**site**[™] 4000 series - Hybrid: Titanium and POM⁽¹⁾



- Profile-shaped design
- Easy to connect
- Titanium-POM⁽¹⁾ combination: low weight
- Titanium reservoir: compatibility with antineoplastic agents
- Radiopaque connecting ring

ı	1 0 8	ISP	ISP: Peel-away sheath introducer
			4: 4000 series
			1: polyurethane catheter 0: silicone catheter
			1: preconnected 0 : not preconnected
			0. 0 F : J

Port features

Port type	Adult
Materials	POM ⁽¹⁾ +Titanium
Base diameter	30.8x22.6 mm

Septum diameter	12.1 mm
Weight	7.6 g
Port height	12.2 mm

Silicone catheters

	С	atheter							
OD (mm)	ID (mm)	Length (cm)	Internal volume (mL/10cm)	Port internal volume (mL)	Introducer Sheath (Fr)	Preconnected catheter	Product codes	Implantation technique	Kit (see page 14)
2.40	1.20	60	0.13	0.6			4008	Surgical	2
2.40	1.20	60	0.13	0.6	8		4008 ISP	Modified Seldinger	4
2.40	1.20	60	0.13	0.6		х	4108	Surgical	2
2.40	1.20	60	0.13	0.6	8	х	4108 ISP	Modified Seldinger	4
3.18	1.57	60	0.22	0.6			40010	Surgical	2
3.18	1.57	60	0.22	0.6	10		40010 ISP	Modified Seldinger	4
3.18	1.57	60	0.22	0.6		х	41010	Surgical	2
3.18	1.57	60	0.22	0.6	10	х	41010 ISP	Modified Seldinger	4

Polyurethane catheters

	Catheter								
OD (mm)	ID (mm)	Length (cm)	Internal volume (mL/10cm)	Port internal volume (mL)	Introducer Sheath (Fr)	Preconnected catheter	Product codes	Implantation technique	Kit (see page 14)
2.30	1.45	60	0.18	0.58			4017	Surgical	2
2.30	1.45	60	0.18	0.58	7		4017 ISP	Modified Seldinger	4
2.30	1.45	60	0.18	0.58		х	4117	Surgical	2
2.30	1.45	60	0.18	0.58	7	х	4117 ISP	Modified Seldinger	4
2.65	1.70	60	0.24	0.59			4018	Surgical	2
2.65	1.70	60	0.24	0.59	8		4018 ISP	Modified Seldinger	4
2.65	1.70	60	0.24	0.59		х	4118	Surgical	2
2.65	1.70	60	0.24	0.59	8	х	4118 ISP	Modified Seldinger	4
3.00	1.90	60	0.30	0.5			4019	Surgical	2
3.00	1.90	60	0.30	0.5	9		4019 ISP	Modified Seldinger	4
3.00	1.90	60	0.30	0.5		x	4119	Surgical	2
3.00	1.90	60	0.30	0.5	9	x	4119 ISP	Modified Seldinger	4



Compatible
injection of contrast
media during CT
scan and MRI
procedures
(cf. Page 8)

Vascular access range

Venous mini port

poly**site**™ 3000 series - Hybrid:

Titanium and POM⁽¹⁾

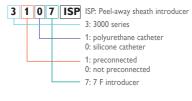


- Profile-shaped design
- Easy to connect
- Titanium-POM⁽¹⁾ combination: low weight
- Titanium reservoir: compatibility with antineo-
- Radiopaque connecting ring

Port features

Port type	Adult
Materials	POM ⁽¹⁾ + Titanium
Base diameter	25.8x20.9 mm

Septum diameter	10.5 mm
Weight	5.0 g
Port height	10.1 mm



Silicone catheters

		Catheter							
OD (mm)	ID (mm)	Length (cm)	Internal volume (mL/10cm)	Port internal volume (mL)	Introducer Sheath (Fr)	Preconnected catheter	Product codes	Implantation technique	Kit (see page 14)
2.16	1.02	60	0.09	0.35			3007	Surgical	2
2.16	1.02	60	0.09	0.35	7		3007 ISP	Modified Seldinger	4
2.16	1.02	60	0.09	0.35		х	3107	Surgical	2
2.16	1.02	60	0.09	0.35	7	х	3107 ISP	Modified Seldinger	4
2.40	1.20	60	0.13	0.35			3008	Surgical	2
2.40	1.20	60	0.13	0.35	8		3008 ISP	Modified Seldinger	4
2.40	1.20	60	0.13	0.35		х	3108	Surgical	2
2.40	1.20	60	0.13	0.35	8	х	3108 ISP	Modified Seldinger	4

Polyurethane catheters

		Catheter							
OD (mm)	ID (mm)	Length (cm)	Internal volume (mL/10cm)	Port internal volume (mL)	Introducer Sheath (Frr)	Preconnected catheter	Product codes	Implantation technique	Kit (see page 14)
2.30	1.45	60	0.18	0.37			3017	Surgical	2
2.30	1.45	60	0.18	0.37	7		3017 ISP	Modified Seldinger	4
2.30	1.45	60	0.18	0.37		х	3117	Surgical	2
2.30	1.45	60	0.18	0.37	7	х	3117 ISP	Modified Seldinger	4





⁽¹⁾ Polyoxymethylene. (2) See I.F.U. The polysite™ range is sterilized by ethylene oxide. polysite™ is a registered trademark of PEROUSE MEDICAL.

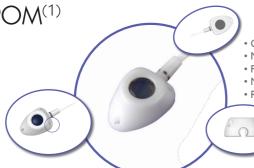
⁽¹⁾ Polyoxymethylene. (2) See I.F.U.
The polysite™ range is sterilized by ethylene oxide. polysite™ is a registered trademark of PEROUSE MEDICAL.

Compatible

Venous micro port

poly**site**™ 2000 series - Hybrid:

Titanium and POM⁽¹⁾



- Good stability Minimum weight
- Flat lateral edges for good adherence
- Non-traumatic angle
- Radiopaque connecting rings

Port features

Port type	Paediatric or Adult
Materials	POM ⁽¹⁾ +Titanium
Base diameter	22.0x17.0 mm

Septum diameter	7.8 mm
Weight	2.9 g
Port height	8.7 mm

2 1 0 5	ISP: Peel-away sheath introducer
	2: 2000 series
	 1: polyurethane catheter 0: silicone catheter
	I: preconnected 0: not preconnected
	5: 5 F introducer

Silicone catheters

		(Catheter							
	OD mm	ID mm	Length (cm)	Internal volume (mL/10cm)	Port internal volume (mL)	Introducer Sheath (Fr)	Preconnected catheter	Product codes	Implantation technique	Kit (see page 14)
S	1.65	0.65	60	0.04	0.2			2005	Surgical	2
PAEDIATRIC	1.65	0.65	60	0.04	0.2	5		2005 ISP	Modified Seldinger	3
즲	1.65	0.65	60	0.04	0.2		х	2105	Surgical	2
₹	1.65	0.65	60	0.04	0.2	5	х	2105 ISP	Modified Seldinger	3
	2.16	1.02	80	0.09	0.2			2007	Surgical	2
ADULT	2.16	1.02	80	0.09	0.2	7		2007 ISP	Modified Seldinger	4
PDI	2.16	1.02	80	0.09	0.2		х	2107	Surgical	2
	2.16	1.02	80	0.09	0.2	7	х	2107 ISP	Modified Seldinger	4

Polyurethane catheters

			Catheter							
	OD (mm)	ID (mm)	Length (cm)	Internal volume (mL/10cm)	Port internal volume (mL)	Introducer Sheath (Fr)	Preconnected catheter	Product codes	Implantation technique	Kit (see page14)
S	1.65	1.05	60	0.10	0.1			2015	Surgical	2
PAEDIATRIC	1.65	1.05	60	0.10	0.1	5		2015 ISP	Modified Seldinger	3
EDI	1.65	1.05	60	0.10	0.1		х	2115	Surgical	2
₹	1.65	1.05	60	0.10	0.1	5	x	2115 ISP	Modified Seldinger	3
	2.00	1.30	80	0.15	0.14			2016	Surgical	2
ADULT	2.00	1.30	80	0.15	0.14	6		2016 ISP	Modified Seldinger	4
ADU	2.00	1.30	80	0.15	0.14		x	2116	Surgical	2
	2.00	1.30	80	0.15	0.14	6	х	2116 ISP	Modified Seldinger	4

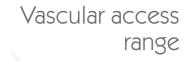
(1) Polyoxymethylene. (2) See I.F.U.

The polysite™ range is sterilized by ethylene oxide. polysite™ is a registered trademark of PEROUSE MEDICAL





echosite™ WED 3100





Good-quality image

- Increased procedural accuracy
- · Advanced imaging features for exceptional image quality with minimal key strokes

Intuitive design, simplified settings

• Ideal for real time central venous catheter placement

Really suitable for central venous catheter placement

- Linear probe settings: 5.5 MHz, 7.5 MHz and 8.5 MHz
- Depth detect up to 8cm

Rapid boot-up time

• Under 3 seconds from cold start to scanning

Light and compact

• Only 700g

Product codes	Description
ES001	Ultrasound scanner ECHO-Site™ WED 3100: • Monitor and its base • Linear probe with adjustable frequency: 5.5, 7.5 and 8.5 MHz • Battery (3 hours of battery life) • Carrying bag
ES001B	Battery (3 hours of battery life)
ES001P	Linear probe with adjustable frequency: 5.5, 7.5 and 8.5 MHz

Manufacturer:

Shenshen Well. D Medical Electronics Co., Ltd 13/F & 12/F North, New Energy Bldg., Nanhai Ave., Nansham District, Shenzhen 518054, China

Authorized EU representative:

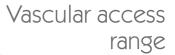
Wellkang Ltd. t/a Wellkang Tech. Consulting, Suite b, 29 Harley Street London W1G 9QR, UK



Vascular Access Division - Route du Manoir - 60173 Ivry le Temple - France Tél: +33 (0) 3 44 08 17 00 - Fax: +33 (0) 3 44 08 17 01







polysite[™] and seesite[™] Injection of contrast media during CT scan or MRI procedures



- · Use an angled Huber needle (without tubing) or a Huber needle with tubing validated for high pressure
- Select the appropriate Huber needle gauge to the viscosity of the contrast medium used and to the implantable port reference following the recommendations in table (hereafter).
- Set the maximum injector pressure to 22.4 bars or 325 psi in order to guarantee the reliability of the system.
- Only use 19G or 20G needles for polysite™ and seesite™ Standard (series 4000) and Mini (series 3000) and 20G or 22G for polysite™ and seesite™ micro (series 2000), in accordance with table hereafter.
- Do not inject more than 3 mL/s when using a 22G Huber needle.
- Always ensure that the injection circuit is fully operational (Huber needle and implantable port) by obtaining reflux of blood and injecting 10-20 ml of normal saline without difficulty.
- Warm the contrast medium to 37 °C (100 °F) before use (1).
- · Always ensure that the catheter is equal or less than 25 cm long (do not administer this type of injection with a femoral catheter) (1).
- Never exceed the maximum recommended flow rate for a given port.
- Never inject contrast media with a viscosity greater than that shown in table hereafter.
- Rinse the implantable port with 10 to 20 ml of 0.9% NaCl before and after use followed by usual rinsing

Not following these recommendations may lead to failure of the system through excess pressure or obstruction.

Source: test report - CE file, march 2010 (Implantable ports technical file on polysite 2000, 3000 & 4000 (DT002), part VI / Evaluation of the conception of polysite 2000, 3000 & 4000 series, §14 / Qualification of our implantable ports polysite for injection of contrast media (page 18). Version September 2010. RRD-0049-01 rev 0:

Simulation of contrast media injection on poly**site™** ports report – p. 10-11 (§XI. Test summary).

Maximum flow rates recommended for injecting contrast medium

The following conditions must be observed.

	polysite™ Product codes	Maximum recommended flow rate (mL/s) with 25 cm catheter	Maximum recommended pressure (CT scan function)	Viscosity (cP) / maximum recommended lodine concentration (mgl/mL) in contrast media	Recommended diameter of angled needle (Gauge)		
	2005, 2005 ISP, 2005 ECHO 2105, 2105 ISP, 2105	1					
	ECHO 2015, 2015 ISP, 2015 ECHO						
M I	2115, 2115 ISP, 2115 ECHO	2		6cP i.e. 300 mgl/mL	20G		
C R	2016, 2016 ISP, 2016 ECHO			(e.g.: Xenetix™ 300, pre-warmed	or 22G		
0	2116, 2116 ISP, 2116 ECHO			to 37°C)*			
	2007, 2007 ISP, 2007 ECHO	3					
	2107, 2107 ISP, 2107 ECHO						
	3007, 3007 ISP, 3007 ECHO						
м	3107, 3107 ISP, 3107 ECHO						
1	3017, 3017 ISP, 3017 ECHO						
N I	3117, 3117 ISP, 3117 ECHO		325 psi or				
	3008, 3008 ISP, 3008 ECHO		22.4 bar				
	3108, 3108 ISP, 3108 ECHO						
	4017, 4017 ISP, 4017 ECHO			10cP			
	4117, 4117 ISP, 4117 ECHO			i.e. 350 mgl/mL (e.g.:	19G or		
s	4008, 4008 ISP, 4008 ECHO	5		Xenetix™ 350, pre-warmed	20G		
T A	4108, 4108 ISP, 4108 ECHO			to 37°C)*			
N D	4018, 4018 ISP, 4018 ECHO						
A R	4118, 4118 ISP, 4118 ECHO						
D	4019, 4019 ISP, 4019 ECHO						
	4119, 4119 ISP, 4119 ECHO						
	40010, 40010 ISP, 40010 ECHO						
	41010, 41010 ISP, 41010 ECHO						

^{*} Xenetix™ is a registered trade mark of Guerbet Laboratories.

All references are CE certified for high pressure injections of contrast media during CT scan and MRI procedures (see IFU).







Compatible

Echogenic puncture needle:

• Good needle tip visualization,

technique

thanks to an echogenic improvement

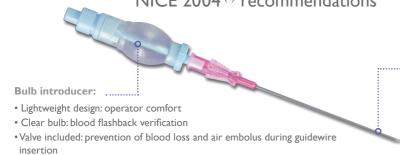
Echoguided venipuncture benefits





Set of implantable port designed for ultrasound guided venipuncture Increased success rate - Faster and more accurate venipuncture

In accordance with HAS check list 2010 (a), SF2H 2012 (b) and NICE 2004 (c) recommendations



- No more connection and disconnection of a syringe onto the needle
- Shorter overall length as compared to a needle/syringe assembly: closer proximity to the puncture site



- Also included in the kit:
- Sterile drape
- LATEX FREE protective sheath for ultrasound system probe
- 2 sterile elastics
- Sterile gel

		Por	t feature	s		Cathe	eter fea	tures					Kit
		Dimensions (LxWxH) (mm)	Weight (g)	Internal volume (mL)	Material Silicone (Si) or Polyurethane (PU)	OD (mm)	ID (mm)	Length (cm)	Internal volume (mL/10cm)	Introducer Sheath (Fr)	Preconnected catheter	Product codes	(see page 14)
ō				0.2	Si	1.65	0.65	60	0.04	5		2005 ECHO	5
PEDIATRIC				0.2	31	1.05	0.03	00	0.04	3	х	2105 ECHO	3
Ž	ries			0.1	PU	1.65	1.05	60	0.10	5		2015 ECHO	5
2	se	22.0 ×17.0	2.9	0.1	PO	1.05	1.05	00	0.10	3	x	2115 ECHO	3
	Micro series	x8.7	2.7	04.4	PU	2.00	1.30	//0	0.45			2016 ECHO	,
	Σ			014	PU	2.00	1.30	60	0.15	6	х	2116 ECHO	6
				0.2	Si	2.16	1.02	60	0.09	7		2007 ECHO	6
				0.2	31	2.10	1.02	00	0.07	,	x	2107 ECHO	0
				0.35	Si	2.16	1.02	60	0.09	7		3007 ECHO	6
	es	25.0		0.55	31	2.10	1.02	00	0.07	,	x	3107 ECHO	·
	Mini series	25.8 x20.8	5	0.37	PU	2.30	1.45	60	0.18	7		3017 ECHO	6
	<u>:</u>	x10.1		0.57	10	2.30	1.43	00	0.10	,	x	3117 ECHO	0
ь.	Σ			0.35	Si	2.40	1.20	60	0.13	8		3008 ECHO	6
ADULT				0.55	31	2.40	1.20	00	0.13		х	3108 ECHO	
ΔĀ				0.58	PU	2.30	1.45	60	0.18	7		4017 ECHO	6
				0.50	. 0	2.50	11.15	- 00	0.10	· ·	х	4117 ECHO	
	es			0.59	PU	2.65	1.70	60	0.24	8		4018 ECHO	6
	ëri	24.0		0.57	. 0	2.03	1		0.21		х	4118 ECHO	
	Standard series	31.0 x22.2	7.6	0.6	Si	2.40	1.20	60	0.13	8		4008 ECGO	6
	daı	x12.2	7.0	0.0	0.	2.10	1.20		0.13	ŭ	х	4108 ECHO	
	tan			0.5	PU	3.00	1.90	60	0.30	9		4019 ECHO	6
	S			0.5	. 0	3.00	1.70		0.50		х	4119 ECHO	
				0.6	Si	3.18	1.57	60	0.22	10		40010 ECHO	6
				0.0	-	3.13	11.51		0.22		x	41010 ECHO	Ū

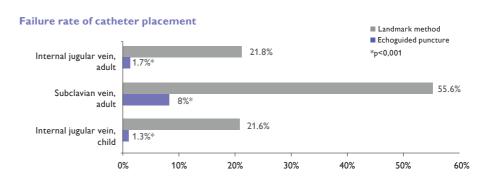
The polysite ** range is sterilized by ethylene oxide. polysite ** is a registered trademark of PEROUSE MEDICAL.

(a) HAS 2010 French health autority - Check list relative to «central venous catheters or vascular device implantation

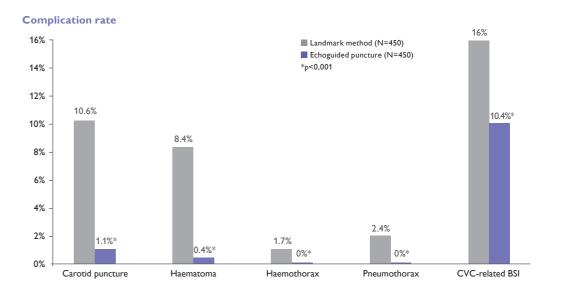
(b) SF2H 2012: French Society for hospital hygiene. «Prevention of venous implantable port catheter infections».

(c) NICE 2004: National Institute for Clinical of Excellence, UK: Echoguidance is recommended on internal jugular access on adult and child.

Increased success rate (3)



Reduction of the number of attempts(3) (4) Decreased complications rate⁽⁴⁾



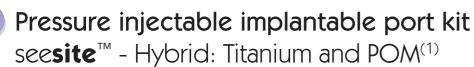




⁽³⁾ D. Hind, Ultrasonic locating devices for central venous cannulation: meta-analysis, BMJ, Vol. 327, 16 August 2003.

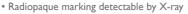
⁽⁴⁾ D. Karakitsos Real-time ultrasound-guided catheterisation of the internal jugular vein: a prospective comparison with the landmark technique in critical care patients Critical Care, 17 November 2006, Vol.10, n°6.









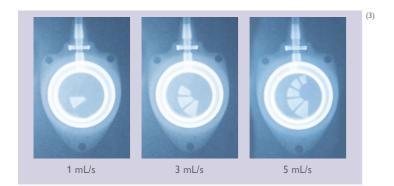


- Silicone filled suture holes
- Each graduation = 1 mL/s
- Radiopaque connecting ring

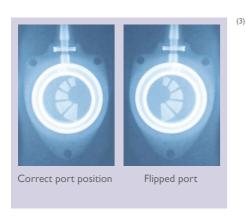
Patient safety

Maximum flow rate injection detectable by x-ray

• From 1 to 5 mL/s



Easy to check the good position of the port



Practitioner comfort

Included ready-to-use kit

• Dedicated to ultrasound guided venipuncture technique (4)

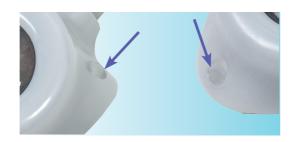


Wide choice of silicone and polyurethane catheters

• From 5F to 10F

Silicone filled suture holes

• For easy port removal



(1) Polyoxymethylene. (2) See seesite ** IFU. (3) Non contractual pictures. (4) In accordance with HAS 2010 which is French health autority - Check list relative to «central venous catheters or vascular device implantation» and NICE 2004: National Institute for Clinical of Excellence, UK: Echoguidance is recaccess on adult and child. The seesite[™] range is sterilized by ethylene oxide. seesite[™] is a registered trademark of PEROUSE MEDICAL.





Vascular access

Complete port placement kit

seesite[™] kit also contains:

PPS[™] CT Safety Huber needle, compatible with contrast medium injections⁽⁵⁾





Patient safety

Prevention of catheter obstruction

• Single-handed safety Huber needle allowing positive pressure during removal (5) (6) (7)

Practitioner comfort

Compatible with pressure injection of contrast media

 Secure check of blood reflux after port placement⁽⁶⁾

		Port	feature	es				Cathe	ter feature	es					
		Dimensions (LxWxH) (mm)	Weight (g)	Internal volume (mL)	Material Silicone (Si) or Polyurethane (PU)	OD (mm)	ID (mm)	Length (cm)	Catheter internal volume (mL/10cm)	Introducer diameter (Fr)	Preconnected catheter	Product codes	Recommended maximum flow rate (mL/s) with 25 cm catheter	Viscosity (cP) / recommended maximum iodine concentration for constrast medium ⁽²⁾	Kit (see page14)
ATRIC	Micro series	22.0 ×17.0	2.9	0.0	Si	4 / 5	0.75	60	0.04	-		2005 SEE		6cP or	7
PAEDIATRIC	Micro	x8.7	2.9	0.2	31	1.65	0.65	60	0.04	5	х	2105 SEE	1	300mgl/mL	,
				0.35	Si	2.16	1.02	60	0.09	7		3007 SEE	2		
	es			0.35	31	2.10	1.02	60	0.09	/	х	3107 SEE	3		
	Mini Series	25.8 x20.8	5.0	0.37	PU	2.30	1.45	60	0.18	7		3017 SEE	5		
	<u>=</u>	x10.1	3.0	0.57		2.30	1.45		0.10	,	х	3117 SEE	,		
	Σ			0.35	Si	2.40	1.20	60	0.13	8		3008 SEE	5		
н				-112							х	3108 SEE			
ADULT				0.59	PU	2.65	1.70	60	0.24	8		4018 SEE	5	10cP or	8
AD	ies										Х	4118 SEE		350mgl/mL	
	Se	24.0.000		0.6	Si	2.40	1.20	60	0.13	8	X	4008 SEE 4108 SEE	5		
	Standard Series	31.0 x22.2 x12.2	7.6								X	4106 SEE 4019 SEE			
	nda	A12.2		0.39	PU	3.00	1.90	60	0.30	9	Х	4119 SEE	5		
	Sta										^	40010 SEE			
				0.6	Si	3.18	1.57	60	0.22	10	Х	41010 SEE	5		

⁽⁵⁾ See PPSTM CT IFU. (6) SF2H 2012: French Society for hospital hygiene. «Prevention of venous implantable port catheter infections».





⁽⁷⁾ Lapalu J & al., Totally Implantable Port Management: Impact of positive pressure during needle withdrawal on catheter tip occlusion (An experimental study), Journal of

Kit composition Venous accessories

For modified Seldinger and US-guided venipuncture technique:



For modified Seldinger technique: polysite™ ISP



For surgical technique: polysite™





All kits contain in addition to the accessories: one implantable port, one catheter and 2 connection rings (only one for preconnected reference.)

				M odi	fied Seldinger + U	JS-guided venipu	ncture
Technique	Surgical	Modified Sel	dinger (ISP)	EC	но	SEE:	SITE™
Kit	2	3		5			8
Straight Huber needle	22G	22 G	22 G	22 G	22 G	22G	22 G
Vein pick	х	x	x	х	х	х	х
Flushing device preconnected to the catheter* (only for non preconnected references)	x	x	x	x	x	x	x
Peelable introducer	-	12 cm	17 cm	12 cm	17 cm	12 cm	17 cm
J guidewire marked every 10 cm	-	0.018"/40 cm	0.035"/60cm	-	-	-	-
J guidewire marked every 10 cm with thumbfeed advancer	-	-	-	0.018"/40 cm	0.035"/60cm	0.018"/40 cm	0.035"/60 cm
Puncture needle	-	20G/4.5 cm	18G/7 cm	-	-	-	-
Puncture needle with echogenic improvement of the distal tip	-	-	-	20G/4.5 cm	18 G /7 cm	20G/4.5 cm	18 G /7 cm
Tunneling device		Ø2mm / 18 cm	Ø2.5mm/23 cm	Ø2mm / 18 cm	Ø2.5mm/23 cm	Ø2mm / 18 cm	Ø2.5mm/23 cm
Syringe	-	x	x	x	x	x	x
Raulerson device	-	-	-	x	x	x	x
Civ-Flex [™] (Probe sheath, elastic bands, gel)	-	-	-	x	x	x	x
Safety Huber needle compatible with pressure injection PPS™ CT	-	-	-	-	-	22G/20 mm	20G/20 mm

VÝGON



Implantable port sit**implant**™ - Full Titanium port





- Easy septum location by palpation
- Round base for stability
- Low profile for best patient comfort and aesthetics
 Robust and light

3 sizes: adapted to any patient morphology







Micro

Mini

Standard

	Dimensions	Contum		Internal	C	DD		Intounal		Pre-		Produ	Product codes		
	(base ØxH) (mm)	Septum diameter (mm)	Weight (g)	volume (mL)	Fr	mm	ID (mm)	Internal volume (mL/10cm)	Introducer size	connected catheter	Surgical Kit	Modified Seldinger Kit	IV cannula (12G)	Complete set	Kit description (see p.17)
					4	1.3	0.8	0.05			2211.71				1
					4	1.3	0.8	0.05	4F			2211.77			2
0					4	1.3	0.8	0.05	4F	х		2211.78			2
Micro	19x8	8	3.5	0.17	5.1	1.7	1.0	0.08			2211.91				1
Σ					6.6	2.2	1.1	0.10			2211.61				1
					6.6	2.2	1.1	0.10	7F			2211.67			3
					6.6	2.2	1.1	0.10	7F	x		2211.68			3
					4	1.3	0.8	0.05			2215.014				1
					4	1.3	0.8	0.05		х	2215.024				1
					5.1	1.7	1.0	0.08	6F	х		2215.125			4
					6	2.0	1.2	0.11					2215.216		5
					6.6	2.2	1.1	0.10			2215.016				1
					6.6	2.2	1.1	0.10	7F			2215.116			3
Ξ	24x10	10	8	0.27	6.6	2.2	1.1	0.10	7F					82215.116	6
Σ	24810	10	0	0.27	6.6	2.2	1.1	0.10		х	2215.026				1
					6.6	2.2	1.1	0.10	7F	х		2215.126			3
					8.4	2.8	1.1	0.10			2215.017				1
					8.4	2.8	1.1	0.10	9F			2215.117			3
					9.6	3.2	1.6	0.20			2215.019				1
					9.6	3.2	1.6	0.20	10F			2215.119			3
					9.6	3.2	1.6	0.20	10F	х		2215.129			3
					6	2.0	1.2	0.11					2216.216		5
					6.6	2.2	1.1	0.10			2216.016				1
					6.6	2.2	1.1	0.10	7F			2216.116			3
					6.6	2.2	1.1	0.10	7F					82216.116	6
臣					6.6	2.2	1.1	0.10		Х	2216.026				1
Standard	28x11	13	10.5	0.47	6.6	2.2	1.1	0.10	7F	х		2216.126			3
itar					8.4	2.8	1.1	0.10			2216.017				1
- <i>0</i>					8.4	2.8	1.1	0.10	9F			2216.117			3
					9.6	3.2	1.6	0.20			2216.019				1
					9.6	3.2	1.6	0.20	10F			2216.119			3
					9.6	3.2	1.6	0.20		х	2216.029				1
					9.6	3.2	1.6	0.20	10F	x		2216.129			3







 $[\]ensuremath{^{*}}$ not preconnected for references 4019, 4019 ISP, 4019 ECHO $% \ensuremath{^{2}}$ and 4019 SEE

27 x 11

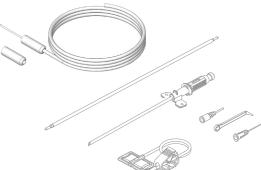
Compatible injection of contrast media during CT scan and MRI procedures (cf. Page 18)

sit**implant™ and** helio**site™ kit composition**









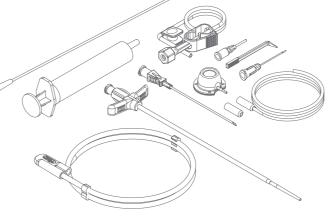
Vascular access

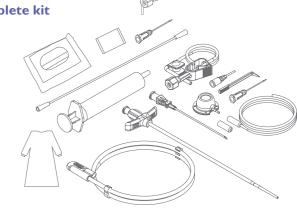
range



Complete kit

IV cannula kit







	Surgical kit	М	odified S eldinger	kit	IV cannula kit	Complete set
Kit		2	3	4	5	6
Straight Huber needle	22G / 25mm	22G / 25mm	22G / 25mm	22G / 25mm	22G / 25mm	22G / 25mm
Flushing device	х	x	х	x	x	x
Vein pick	x	x	x	x	x	x
Peelable introducer	-	7 cm	14 cm	14 cm	-	14 cm
Nitinol J guidewire, marked every 10 cm with thumbfeed advancer	-	0,021" - 30 cm	0,035" - 53 cm	0,035" - 53 cm	-	0,035" - 53 cm
Puncture needle with BLS valve	-	20G - 38 mm	18 G - 68 mm	18 G - 68 mm	-	18G - 68 mm
Tunneling device	-	2.5 mm x 23 cm	3,0 mm x 23 cm	2.5 mm x 23 cm	3,0 mm x 23 cm	2.5 mm x 23 cm
Syringe	-	10mL	10mL	10mL	-	10mL
Huber needle with connecting line: hubsite™	-	22 G -20mm	20 G -20mm	20 G -20mm	-	20 G -20mm
IV cannula	-	-	-	-	12 G	-
Stylet within the catheter	-	-	-	-	x	-
Hypodermic needles	-	-	-	-	-	18G & 21G
2 surgical gowns	-	-	-	-	-	L & XL
Large fenestrated drape with adhesive aperture	-	-	-	-	-	180 x 300 cm (aperture 15x15 cm)

Implantable port

helio**site**™ - Hybrid: Titanium and compact silicone



- Smooth design for minimal fibrotic adherence
- Low profile for best patient comfort and aesthetics
- Compact silicone casing
- Click & lock connection system

3 sizes : adapted to any patient morphology



·XS

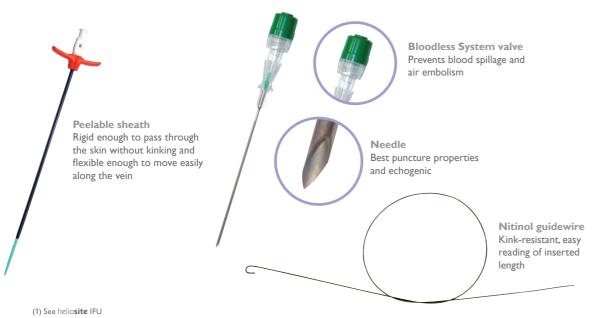




2219.126

Dimensions (base ØxH) (mm)	Septum diameter (mm)	Weight (g)	Internal volume (mL)	Ol	D	"ID (mm)"	Internal volume (mL/10cm)	Exit tube internal diameter	Introducer diameter	Pre- connected catheter	Product codes: Modified Seldinger kit	Kit description (see page 17)
				Fr	mm						KIL	
22 0		-	0.40		2.2	1.1	0.40	4.4	7.5		2217.116	4
23 x 9	8	5	0.19	6.6	2.2	1.1	0.10	1.1 mm	7F	х	2217.126	4
											2218.116	4
25 x 10	10	6.3	0.31	6.6	2.2	1.1	0.10	1.1 mm	7F	х	2218.126	4
27 44	42	0	0.45		2.2	4.4	0.40	4.4	75		2219.116	4

Benefits of the accessories included into the modified Seldinger kit:







sitimplant[™] and heliosite[™] Injection of contrast media during CT scan or MRI procedures





Warm the contrast media to body temperature prior to CT-rated injection. Failing to warm the contrast media would result in 50% reduction of the flow rate and could damage the port.

Ensure that the needle is correctly placed in the port, securely taped to the skin and covered with an adhesive dressing before commencing CT-rated injection.

Do not exceed the maximum pressure of 24 bar (350 psi) during CT-rated injection.

After the procedure flush the port system with 20ml normal saline with push-pause technique, followed by standard rinsing procedures.

Verify that the port and the Huber needles which you will use for CT-rated injection are listed in the table below. Check the patient medical record for the port and needle codes.

Do not exceed the maximum flow rate and maximum pressure listed in the table below.

Do not use a sitimplant™ or heliosite™ for CT-rated injections if it shows signs of obstruction, even when intermittent, such as pinch-off syndrome. Computed Tomography machine pressure limiting features may not prevent overpressurisation of an occluded port system, resulting in catheter failure including but not limited to: catheter rupture. embolization or drug extravasation.

Use only needles and extension lines which are designed to withstand CT-rated injection.

Disregarding the recommended procedure and precautions for CT-rated injection may cause catheter failure and put the patient at risk.

	CT-rai Port				perfusafe2 f. 5249 - 52		Ref. 1	hubsite2 239 - 1251 -	1256	inject site Ref. 1058			
Ref.	Size	Material	ø	19G	20G	22 G	19G	20 G	22 G	19G	20 G	22G	
2216.xx9	М	Si	9.6 Fr	7 ml/s	7 ml/s	2 ml/s	5 ml/s	5 ml/s	2 ml/s	5 ml/s	5 ml/s	2 ml/s	
2216.xx7	М	Si	8.4 Fr	6 ml/s	6 ml/s	2 ml/s	5 ml/s	5 ml/s	2 ml/s	5 ml/s	5 ml/s	2 ml/s	
2216.xx6	М	Si	6.6 Fr	6 ml/s	6 ml/s	2 ml/s	5 ml/s	5 ml/s	2 ml/s	5 ml/s	5 ml/s	2 ml/s	
2215.xx9	S	Si	9.6 Fr	6 ml/s	6 ml/s	2 ml/s	5 ml/s	5 ml/s	2 ml/s	5 ml/s	5 ml/s	2 ml/s	
2215.xx7	S	Si	8.4 Fr	6 ml/s	6 ml/s	2 ml/s	5 ml/s	5 ml/s	2 ml/s	5 ml/s	5 ml/s	2 ml/s	
2215.xx6	S	Si	6.6 Fr	6 ml/s	6 ml/s	2 ml/s	5 ml/s	5 ml/s	2 ml/s	5 ml/s	5 ml/s	2 ml/s	
2219.xx6	М	Si	6.6 Fr	5 ml/s	5 ml/s	2 ml/s	5 ml/s	5 ml/s	2 ml/s	5 ml/s	5 ml/s	2 ml/s	
2218.xx6	S	Si	6.6 Fr	4 ml/s	4 ml/s	2 ml/s	5 ml/s	5 ml/s	2 ml/s	5 ml/s	5 ml/s	2 ml/s	
2217.xx6	XS	Si	6.6 Fr	4 ml/s	4 ml/s	2 ml/s	5 ml/s	5 ml/s	2 ml/s	5 ml/s	5 ml/s	2 ml/s	



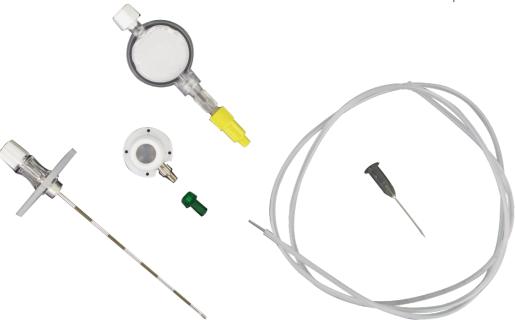


The mini sitimplant[™], for pain relief is a completely implantable device featuring a Titanium reservoir enclosed in a Silicone casing.

The distal tip of the catheter, which is placed in the epidural or intrathecal space has a closed tip with 3 lateral eyes.

Contents of the tray:

- 1 implantable port,
 - 1 Polyurethane catheter (90cm long, int. Ø 0.5mm, ext. Ø 1.0mm; 20G), radiopaque, centimeter distance markings from 5 to 20cm. The catheter is attached to the connector on the port by a threaded Titanium collar.
 - 1 Tuohy needle (90mm long, int. Ø 1.2mm, ext. Ø 1.5mm, 17G) with centimeter distance markings and a winged, transparent hub,
 - 1 flat epidural bacterial filter 0.2µm fitted with a removable compression hub,
 - 1 needle with Huber bevel to access the septum of the port.



			Catheter					
Code	Weight (g)	Priming volume (mL)	Height (mm)	Diameter (mm)	Puncture area (cm²)	Int. Ø (mm)	Ext. Ø (mm)	Length (cm)
2201.51	4.3	0.29	10.5	23	0.63	0.5	1.0	90





Conventional and high pressure Polyurethane PICC-Line lifecath PICC™ & maxflo™ expert

max**flo™** & high flow applications

CT injector pressure of up to 325psi (22.4bar).

Agion™ antimicrobial

technology efficiency

maxflo™ CT RATED can be used whenever a PICC

is indicated, including high-pressure administration. To allow radiologists to get the best CT scan image

quality, maxflo is designed to withstand injection of

high-viscosity contrast medium up to 7 mL/s, with a

Testing a range of medical-grade polymers, Sciessent found that

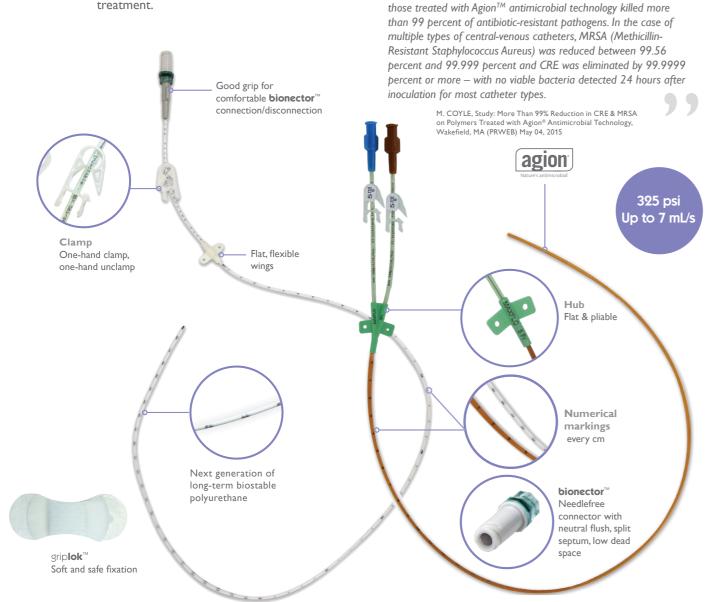
lifecath PICC™

life \boldsymbol{cath} PICCTM catheters are designed for ambulatory patients who require short to long term central venous access.

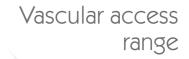


Maximum longevity

VYGON PICCs are manufactured from long-term biostable polyurethane: offering extended dwell times to suit all therapy requirements. Long-term biostable Polyurethane provides good mechanical and biochemical stability throughout



PICC placement kits



• Either a peelable cannula, with easy check of blood return



• Or with a Micro-Seldinger introducer set which allows placement with ultrasound in the middle third of the upper arm



Safety puncture needle Echogenic safety needle



Peelable sheath Rigid enough - to help go through the skin but flexible - to help slide along the vein



Nitinol guidewire Kink-resistant, intuitive reading of inserted length every 5 cm and every cm in the distal portion. Includes choice of radiology guidewire.

li	fe cath	PICC™					Product codes			
Lumen	Fr	Ext. Ø (mm)	Overall length (cm)	Catheter length (cm)	Gravity flow rate (ml/mn)	Priming volume (ml)	With peelable cannula	With Micro Seldinger kit 50 cm guidewire	With Micro Seldinger kit 67cm guidewire for fluoroscopy	Over-the-wire Seldinger 135cm guidewire for fluoroscopy
1	3	1.0	75	60	1.6	0.46	1294.13	1294.113	-	-
1	4	1.35	75	60	9.4	0.66	1294.14	1294.114	1294.414	1294.514
1	5	1.67	75	60	36	1.0	1294.15	1294.115	1294.415	1294.515
2	4.5	1.5	71.5	60	8.2(x2)	0.51/0.51	1294.245	1294.345	1294.445	1294.545

max**flo**™ expert

									1 . Guatt coues		
Lumen	Fr	Ext Ø (mm)	Length (cm)	Gravity flow rate (mL/min)	Priming volume (mL)	Maximum flow rate	Maximum pressure	MST kit with 50 cm guidewire	MST kit with 67 cm guidewire	MST kit with 135 cm guidewire	
1	4	1.35	55	19	0.8	5 mL/s	325psi (22.4bar)	8394.14*	8394.414*	8394.514*	
1	5	1.70	55	28	0.8	6 mL/s	325psi (22.4bar)	8394.15	8394.415	8394.515	
1	5	1.75	55	46	1	7 mL/s	325psi (22.4bar)	8394.105*	8394.405*	8394.505*	
2	5	1.75	55	9 (x2)	0.75 (x2)	5 mL/s	325psi (22.4bar)	8394.25*	8394.425*	8394.525*	
2	6	2.0	55	14 (x2)	0.8 (x2)	5 mL/s	325psi (22.4bar)	8394.26	8394.426	8394.526	
2	6	2.0	55	14 (x2)	0.8 (x2)	6 mL/s	325psi (22.4bar)	8394.206*	8394.406*	8394.506*	
3	6	2.0	55	4 (x2) 10	0.45 (x2) 0.85	5 mL/s	325psi (22.4bar)	8394.36*	8394.436*	8394.536*	

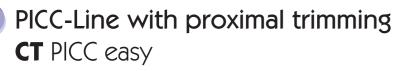
^{*} with reverse tapering (bump tube)

Tray description

- PICC-Line with pre-mounted stylet in temporary T-piece flush port
- Introducer:
- Peelable cannula* or
- MST kit with 21G safety echogenic puncture needle, Nitinol guidewire with thumb-feed advancer. Ø 0.018" x L.50cm/67cm/135cm and 7cm peelable sheath
- Scalpel (not included in peelable cannula kit)
- bionector
- griplok
- Measuring tape



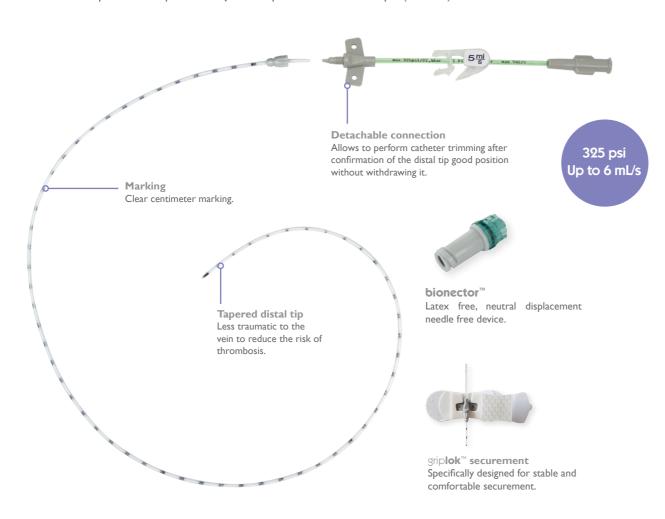




Compatible
injection of contrast
media during CT
scan and MRI
procedures
(1)

Catheter with proximal trimming:

- Makes insertion easier and more accurate when using the ECG technique (no need to cut the catheter before insertion)
- Preserves the integrity of the tapered distal tip which is less traumatic for the vein and minimises the risk of thrombosis
- Compatible with pressure injection up to 6 mL/s and 325 psi (22.4bar)



Catheter								
Ø	Ext.Ø (mm)	Int. Ø (mm)	Gravity flow rate (mL/min)	Priming volume	Maximum indicated power injection flow rate	Maximum pressure	Product codes	
3Fr	1.00	0.60	3.0	0.6	1 mL/s	325 psi	V021292213	
4Fr	1.35	0.90	14.0	0.9	5 mL/s	325 psi	V021292214	
5Fr	1.67	1.1	28.0	1.00	6 mL/s	325 psi	V021292215	

Tray description

Micro-Seldinger kit:

- 1 totally radiopaque catheter (60 cm long) in biostable polyurethane with temporary wings
- 1 metallic stylet to make the catheter more rigid and thus make insertion easier
- 1 «T» proximal connector. The lateral port of the T connector can be used to inject saline solution
- 1 detachable extension line with a Robert clamp
- 1 safety introducer needle 21G x 7cm

- 1 straight Nitinol guidewire 50 cm 0.018"
- 1 peelable sheath + dilator
- 1 Luer slip syringe 10 ml
- 1 slide clamp
- 1 measuring tape
- 1 griplok[™], securement device
- 1 bionector[™]
- 1 safety scalpel

Insertion pack

VYGON has the possibility to offer complete insertion sets for PICC-Line, port and CVC placement. These sets can be standard or customized.

Example of components:



Skin preparation



Ultrasound probe cover with gel



Pre-filled syringes with saline



Needles



Disposafe – needle protector



Gown



Tourniquet



Tray



5ml Luer slip syringe



+ table cover 75 x 90 cm



Swabs 10 x 10 cm



Adhesive fenestrated windows Prevents drape movement during placement and risk of bacteria migration to the insertion site



Long term central venous catheter Single lumen catheter with detachable hub

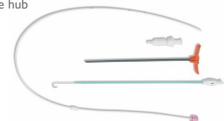
nutricath S, nutricath tunnel with cuff and leadercuff catheters are specially designed for long term intensive vascular access treatment as haematology and parenteral nutrition.

nutricath S

Single lumen silicone catheter with detachable hub



nutricath tunnel with cuff Single lumen silicone catheter with subcutaneous cuff and detachable hub



nutricath S & nutricath tunnel with cuff

					Produ	ct codes			
	Cath	neter			nutricath S (without cuff)		nutri cath tunnel with cuff		
OD (Fr)	OD (mm)	ID (mm)	Length (cm)	Surgical kit	IV cannula kit	Modified Seldinger kit	Modified Seldinger kit		
4	4 4 2	4.3	1.3	0.8	35		2180.13	2171.13	
4	1.3	0.6	60/58		2181.13		2101.13		
5	4.7	4	35		2180.17	2171.17			
5	1.7	'	60/58		2181.17		2101.17		
		4.2	35		2180.20	2171.20			
6	2.0	1.2	60/58		2181.20	2182.20	2101.20		
0.4	2.2	2 2	35	2180.30					
9.6	3.2		60/58	2181.30			2101.30		

- 1 radiopaque silicone catheter with stylet marked at 10, 15 and 20 cm from the distal tip
- 1 detachable compression hub

IV cannula kit

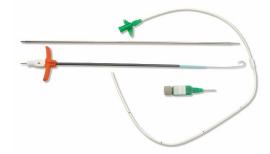
- 1 radiopaque silicone catheter with stylet marked at 10, 15 and 20 cm
- 1 introducer: short I.V. cannula type
- 1 detachable compression hub

Modified Seldinger kit

- 1 radiopaque silicone catheter with stylet marked at 10, 15 and 20 cm from the distal tip
- Straight guidewire for nutricath S except for 2182.20 code: guidewire
- J guidewire for nutricath tunnel codes
- Puncture needle (20G for 4F catheter. 18G for others).
- 1 non peelable introducer for nutricath S codes
- 1 peelable introducer for nutricath tunnel codes
- 1 detachable compression hub
- Tunneling device only for nutricath tunnel codes and code

leadercuff

Single lumen polyurethane catheter with subcutaneous cuff and detachable hub (vyflowTM hub: on/off positions)



	Cath	Product codes		
OD (Fr)	OD (mm)	ID (mm)	Length (cm)	Modified Seldinger Set
5	1.8	1.2	60	1227.17
6	2.0	1.4	60	1227.20

Modified Seldinger kit

- 1 XRO polyurethane catheter
- J guidewire (0.038"- 53 cm)
- Puncture needle (18G 6.8 cm)
- 1 peelable introducer
- 1 detachable compression hub: ∨yflow™
- Tunneling device



Vascular access

Long term central venous catheter lifecath™ - Silicone catheter

life**cath**[™] is a silicone central venous catheter with subcutaneous cuff for long-term venous access.

The extra-vascular section of the catheter features a reinforced section with clamping site, clamp and a non-removable proximal hub.



	1
425	CLAMP HERE

		Product codes				
Lumen	OD (Fr)	OD (mm)	ID (mm)	Length (mm)	Surgical set with tunneler	Modified Seldinger set
	2.7	1.0	0.5	75	2191.27	2191.273
	4.2	1.4	0.7	75	2191.42	2191.425
1	5	1.7	0.95	75	2191.50	2191.506
	6.6	2.2	1.1	90	2191.66	2191.667
	9.6	3.2	1.6	90	2193.96	2193.960
	7	2.4	0.6/1.0	90	2293.070	2293.70
	9	3.0	0.7/1.3	90	2293.090	2293.90
2	9	3.0	1.3/1.3	90	2293.095	2293.95
	11	3.7	1.0/1.6	90	2293.110	2293.11
	14	4.7	1.6/1.6	90	2293.140	2293.14
3	12.5	4.1	1.0/1.0/1.5	90	2294.025	2294.125

lifecath[™] apheresis is a double-lumen silicone catheter with subcutaneous cuff for long-term venous access: apheresis. Inserted by percutaneous puncture with a peelable introducer sheet. The venous distal opening is separated from the arterial opening by a distance of 2 cm.



	Product codes					
Lumen	Lumen OD OD ID Length* (cm)					
	9	3.0	0.7/0.7	27		2296.951
	7	3.0	0.8/0.8	34		2296.952
2	11	3.75	0.8/1.0	27		2296.111
2	11	3.75	0.8/1.2	34		2296.112
	14	4.5	1.0/1.0	27		2296.190
	14	4.5	1.2/1.2	34		2296.260
3	12.5	4.1	1.0/1.0/1.5	90	2224.100	2224.000

^{*27} cm catheters have a subcutaneous cuff placed at 19 cm from the distal tip. 34 cm catheters have a subcutaneous cuff placed at 26 cm from the distal tip

- 1 radiopaque silicone catheter with Dacron cuff
- 1 tunnelling device (catheter with Ø≥7F is supplied with 2 tunnelling devices - plastic and
- 1 fixation wing (only available with catheter 4.2≤Ø≤9F)
- 1 scalpel (only available in 2193.96 code)
- Injection cap(s)

Modified Seldinger kit for lifecath™

- 1 radiopaque silicone catheter with Dacron cuff
- 1 peelable introducer sheet
- 1 scalpel
- 1 tunnelling device (catheter with Ø≥7F is supplied with 2 tunnelling devices - plastic and metallic
- 1 supplementary fixation wing (only available with catheter Ø≤9F)
- injection cap(s)

Modified Seldinger kit for lifecath™ apheresis

- 1 double-lumen radiopaque silicone catheter with Dacron cuff
- 1 peelable introducer sheet
- 1 dilator
- 1 tunnelling needle
- 1 10 ml syringe
- 2 injections caps
- 1 scalpel

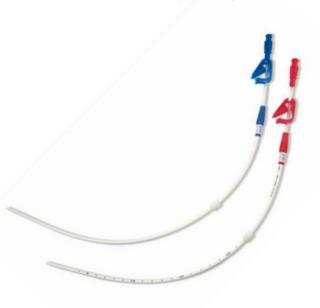






Hemodialysis catheter

life**cath**™ twin is composed of 2 separate catheters made of biostable polyurethane, totally radiopaque, with distance markings from 4 to 21 cm. Both catheters have a subcutaneous cuff. The distal end of the catheter features 6 lateral eyes for improved catheter performance.



Catheter diameter	Usable length (arterial / venous) (cm)	Product codes
	18/21	1276.200
10Fr (2.1 x 3.3 mm)	22/25	1276.201
(200 % 000 0000)	27/30	1276.202

Tray presentation containing:

- 2 biostable PUR catheters 10 Fr Length 52 cm
- 2 puncture needles ø 1.06 x 1.26 mm 18G Length 70 mm
- 2 peelaway introducers 11 Fr
- 1 peelaway introducer 6 Fr
- 2 tunneling devices
- 2 tunnel rod extensions. red and blue
- 2 catheter protection sleeves, red and blue
- 2 Nitinol "J" guidewires with thumbfeed advancer
- · 2 injection caps
- 1 scalpel
- 2 clamps
- 2 Lifecath Lock
- The 10 Fr catheters offer a flow rate superior to 400 mL/min
- 2 separate catheters reduce the risk of catheter occlusion
- Priming volume printed on the extra-cutaneous section of the catheter
- The 6 Fr peel-away Desilet offers the physician the possibility to insert lifecath twin with only one puncture

dialykit is composed of 2 separate 9.6Fr silicone catheters totally radiopaque and feature markings at 10, 20 and 30cm from the distal tip.

At the distal end, the catheters have 5 lateral eyes (over 25mm) for improved flow rate. The catheters are inserted through 2 standard Desilet introducers.



Product code: 2206.30

Kit composition:

- 2 radiopaque silicone catheters (Ø 2.0 x 3.2mm. 40cm long)
- 2 proximal adaptors with silicone tubing (clamping area) with blue (venous) and red (arterial) hubs
- 2 puncture needles (Ø 1.06 x 1.26mm 18G 70mm long)
- 2 Desilet introducers with J guidewires (53cm long) • 1 Alene needle for catheter tunnellisation
- 2 Dermafilm (transparent adhesive film) code 38.15.20
- 2 injection caps
- 2 syringes (10ml)
- 4 hypodermic needles (21G and 18G 38mm long)
- 2 scalpels

The removable proximal end of the dialykit allows:

- A retrograde tunnellisation of the catheters
- An easy adjustment of the length by the physician



Huber needles range with and without connecting line

Huber needles

- Complete range of sizes and gauges
- For the puncture of implantable ports

Description		Gauge	Needle Ø (mm)	Usable length (mm)	Product codes
		23	0.6	20	522506
		22	0.7	25	522507
		22	0.7	35	523807
Curved		20	0.9	20	522509
			0.9	35	523809
		19	1.1	20	522511
		17	1.1	35	523811
		23	0.6	25	512506
		22	0.7	30	512507
Straight		22	0.7	38	513807
oci algiic		20	0.9	25	512509
		40	1.1	25	512511
		19	1.1	28	513811



Vascular access

polyperf™ without Y Site - Huber needle

- Curved Huber needle with connecting line (25 cm)
- No interaction with anti-mitotic drugs

Gauge	Needle Ø (mm)	Usable length (mm)	Product codes
		15	581507
		17	581707
		20	582007
22	0.7	25	582507
		30	583007
		35	583507
		15	581509
	0.9	17	581709
2.0		582009	
20		25	582509
		30	583009
		35	583509
		15	581511
		17	581711
40	4.4	20	582011
19	1.1	25	582511
		20	583011
		35	583511

Winglets: good grip

good stability



Winglets colour coded: easy identification of the gauge

Bold references are the most commonly used. Other references are only available upon request with a minimum lead time of 12 weeks.

polyperf™ with Y site - Huber needle

	Gauge	Needle Ø (mm)	Usable length (mm)	Product codes
	22	0.7	20	592007
	22	0.7	25	592507
	20	0.0	20	592009
		0.9	0.9 25	592509
	19	4.4	20	592011
		1.1	25	592511



Bold references are the most commonly used. Other references are only available upon request with a minimum lead time of 12 weeks. This device is not made with dry or natural rubber latex.

Huber needles and polyperf™ are sterilized by ethylene oxide. polyperf™ is a registered trademark of PEROUSE MEDICAL.







Safety Huber needles polyperf[™] safe



polyperf[™] safe

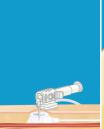
Single hand activation:

decreased blood exposure risk versus double and activated device(3)

- According to implantable port using recommendations (1)
- Withdrawal of the needle with only one hand
- Prevention of needlestick injury
- · Eliminates the risk of needlestick injury • No rebound effect when withdrawing the needle
- No risk of contact with the body of the needle (2)
- Total protection until discarded in sharps container



Withdrawal of the needle



Normal position for use (horizontal piston) before withdrawal.



Preparation: lift the piston from the horizontal Using your thumb, lower the piston to put it in contact position to the vertical position.



with the skin and simultaneously lift the extractor (with an upwards movement) until there is a CLIC corresponding to the total locking of the needle. This final operation eliminates any risk of accidental needlestick injury.

Ga	uge	Needle Ø (mm)	Needle length (mm)	Product codes without lateral Y site	Product codes with lateral Y site
	22G	0.7	15	601507*	611507*
	22 G	0.7	17	601707	611707
	22G	0.7	20	602007	612007
	22 G	0.7	25	602507	612507
	22 G	0.7	30	603007	613007
	22 G	0.7	35	603507	613507
	20G	0.9	15	601509*	611509*
	20 G	0.9	17	601709	611709
	20G	0.9	20	602009	612009
	20 G	0.9	25	602509	612509
	20G	0.9	30	603009	613009
	20 G	0.9	35	603509	613509
	19G	1.1	15	601511*	611511*
	19G	1.1	17	601711	611711
	19G	1.1	20	602011	612011
	19G	1.1	25	602511	612511
	19G	1.1	30	603011	613011
	19 G	1.1	35	603511	613511

Bold references are the most commonly used. Other references are only available upon request with a minimum lead time of 12 weeks.

poly**perf**™ safe and PPS™ Quick Huber needle are packaged in cartons of 12 units. Sterilized using ethylene oxide.

This device is not made with dry or natural rubber latex.



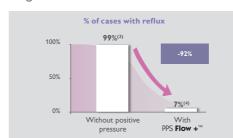
Safety Huber needles PPS **flow** +™

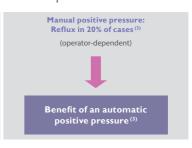


Vascular access

Automatic positive pressure⁽¹⁾ upon removal

- Prevention of catheter obstruction: catheter obstruction rate on implantable port: 28% (2)
- Significant reduction of blood reflux at the distal tip of the catheter







Cost reduction

- Reduction of the use of fibrinolytic agents (3)
- Cost reduction due to catheter obstruction complications (5) (X-rays, nursing time, explantation, etc.)

Single hand activation: decreased blood exposure risk versus double and activated device (6)

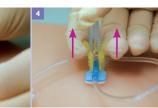
Removal steps







Lift the piston from the horizontal tion to the vertical position (perpendicular to the patient skin).



Needle is withdrawn safely.

Insert the line into the notch Place the hand outside the needle (opposite side of the blue platform), put your thumb on the piston, your forefinger and middle finger under the winglets (on both sides of the piston). Pull up

	Needle Ø	Needle length	Product codes without needleless connector	
Gauge	(mm)			with Y site
22G	0.7	15	701507*	711507*
22G	0.7	17	701707	711707
22G	0.7	20	702007	712007
22G	0.7	25	702507	712507
22G	0.7	30	703007	713007
22G	0.7	35	703507	713507
20G	0.9	15	701509*	711509*
20G	0.9	17	701709	711709
20G	0.9	20	702009	712009
20G	0.9	25	702509	712509
20G	0.9	30	703009	713009
20G	0.9	35	703509	713509
19G	1.1	15	701511*	711511*
19G	1.1	17	701711	711711
19G	1.1	20	702011	712011
19G	1.1	25	702511	712511
19G	1.1	30	703011	713011
19G	1.1	35	703511	713511

References in bold are the most commonly used. Other references are only available upon request with a minimum lead time of 12 weeks

- (1) According to HAS 2000 (French Health Authority) and SF2H 2012 (French Society for
- (2) Carlo JT et al., The American Journal of Surgery 188;722-727, 2004.

 (3) Lapalu J & al., Totally Implantable Port Management: Impact of positive pressure during needle withdrawal on catheter tip occlusion (An experimental study), Journal of Vascular
- (4) H.Levert, O.Albert, E. Barret, S.Villiers, MC.Douard, Poster for WoCoVa, A randomized experimental comparison of two safety Huber needles (HN) allowing manual o positive pressure during needle removal: effect on the distal catheter reflux, 2014.
- (5) Biffi R & al., Totally implantable central venous access ports for long-term chemotherapy, Annals of Oncology 9:767-773, 1998.
- with safety materials, GERES AFSSAPS Collaboration, G. Pellissier, 18th Annual GERES

PPS **flow** +™ safety Huber needles are packaged in cartons of 12 units. Sterilized using ethylene

This device is not made with dry or natural rubber latex.





^{*} For paediatric use only.

⁽¹⁾ According to HAS 2000 (French Health Authority) and SF2H 2012 (French Society

 ⁽¹⁾ According to HAS 2000 (French Health Authority) and SF2H 2012 (French Society for Hospital Hygiene) guidelines.
 (2) Biomatech study n°148381 - 28 june 2012 - p.64-66.
 (3) Survey of the occurrence circumstances of Accidental Blood Exposure due to punctures with safety materials, GERES – AFSSAPS Collaboration, G. Pellissier, 18th



Safety Huber needle PPS[™] CT

POWER INJECTION COMPATIBLE

Max. flow rate:

22G = 2 mL/sec 19G & 20G = 5mL/sec Max. pressure setting: 300 psi

Possible positive pressure

- According to implantable port using recommendations (2)
- Withdrawal of the needle with only one hand

Prevention of needlestick injury

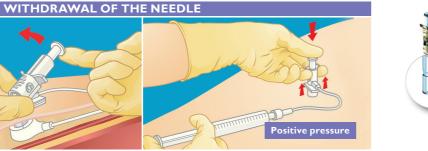
- Decreases blood exposure risk versus double and activated device (6)
- No rebound effect when withdrawing the needle
- No risk of contact with the needle body
- Total protection until discarded in sharps container (3)





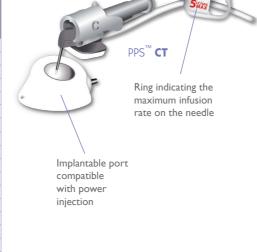
(horizontal piston) before withdrawal

Preparation: lift the piston from the horizontal



Using your thumb, lower the piston to put it in contact with the skin and simultaneously lift the extractor (with an upwards movement) until there is a CLIC corresponding to the total locking of the needle. This final operation

Gauge		Needle Ø Needle length (mm) (mm)	Produc Max.		ct codes	
				Flow rate	without Y site	with Y site
	22 G	0.7	15	2 mL/sec 300 psi	801507*	811507*
	22 G	0.7	17		801707	811707
	22 G	0.7	20		802007	812007
	22G	0.7	25		802507	812507
	22 G	0.7	30		803007	813007
	22G	0.7	35		803507	813507
	20G	0.9	15	5 mL/sec	801509*	811509*
	20G	0.9	17		801709	811709
	20G	0.9	20		802009	812009
	20G	0.9	25	300 psi	802509	812509
	20G	0.9	30		803009	813009
	20G	0.9	35		803509	813509
	19G	1.1	15	5 mL/sec 300 psi	801511*	811511*
	19G	1.1	17		801711	811711
	19G	1.1	20		802011	812011
	19G	1.1	25		802511	812511
	19G	1.1	30		803011	813011
	19G	1.1	35		803511	813511



PROTECTION

Bold references are the most commonly used. Other references are only available upon request with a minimum lead time of 12 weeks.

NO DEHP

This device is not made with dry or natural rubber latex.

- (1) See Instructions for use.
 (2) According to HAS 2000 (French Health Authority) and SF2H 2012 (French Society for Hospital Hygiene) guidelines.
 (3) Biomatech study n°148381 28 June 2012 p.64-66.

 PPS^{TM} **CT** is packed in a carton of 12 units .

PPS[™] **CT** is a registered trade mark of PEROUSE MEDICAL.



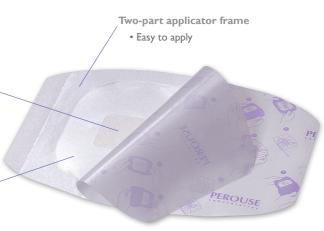
Clear Transparent Film Dressing specifically designed to maintain Huber needles, CVC and picc lines in place polyfilm™

Vascular access range

EASY REMOVAL Non adhesive central window

Non-adhesive central window: 3 x 7.5 cm / 1 1/4 in x 3 in

- · Non-adhesive guaranteeing stability of the needle upon removal of the dressing:
- Reduces the risk of pain
- Prevents accidental needle-stick injury during dressing removal
- Strengthened: to avoid any risk of tearing leading to breach of asepsis
- Transparent: optimal monitoring site and detection of possible complications



Polyurethane flexible film

- Hypoallergenic for optimum skin tolerance
- · Breathable to prevent humidity accumulation under the dressing and therefore early displacement
- Barrier against bacteria and viruses, offering protection regarding the risks of contamination
- Liquid-impermeable to avoid displacement in the event of accidental immersion

Holding strips (included in the pouch)

- · Huber needle maintenance under the dressing
- Date of application can be written on the strip

Product code	Description	Dimensions	Unit per box
PF121401	POLY FILM™, dressing holding strips	12 x 14 cm 4 ^{3/4} in x 5 ^{1/2} in	50 units





 $\mathsf{poly} \textbf{film}^{\bowtie} \text{ is sterilized by ethylene oxide. } \mathsf{poly} \textbf{film}^{\bowtie} \text{ is a registered trademark of PEROUSE MEDICAL}$





For further information, please contact: questions@vygon.com

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