











Venous standard port
poly <b>site</b> ™ 4000 series - Hybrid: Titanium and POM4
Venous mini port
poly <b>site</b> ™ 3000 series - Hybrid: Titanium and POM5
Venous micro port
poly <b>site</b> ™ 2000 series - Hybrid: Titanium and POM6
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echo <b>site</b> ™7
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### Venous standard port poly**site**<sup>™</sup> 4000 series - Hybrid: Titanium and POM<sup>(1)</sup>



#### Silicone catheters

	С	atheter							
OD (mm)	ID Length Internal (mm) (cm) (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	x	41010 ISP	Modified Seldinger	4

### Polyurethane catheters

	С	atheter							
OD (mm)	ID Length Internal (mm) (cm) (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		х	4119	Surgical	2
3.00	1.90	60	0.30	0.5	9	х	4119 ISP	Modified Seldinger	4

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





#### Silicone catheters

		Catheter							
OD (mm)	D ID Length Internal n) (mm) (cm) (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	x	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		x	3108	Surgical	2
2.40	1.20	60	0.13	0.35	8	x	3108 ISP	Modified Seldinger	4

#### Polyurethane catheters

Catheter

OD (mm)	ID Length Internal (mm) (cm) (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	x	3117 ISP	Modified Seldinger	4

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





#### 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
ATR	1.65	0.65	60	0.04	0.2	5		2005 ISP	Modified Seldinger	3
EDI	1.65	0.65	60	0.04	0.2		х	2105	Surgical	2
PA	1.65	0.65	60	0.04	0.2	5	x	2105 ISP	Modified Seldinger	3
	2.16	1.02	80	0.09	0.2			2007	Surgical	2
Н	2.16	1.02	80	0.09	0.2	7		2007 ISP	Modified Seldinger	4
<b>D</b>	2.16	1.02	80	0.09	0.2		x	2107	Surgical	2
	2.16	1.02	80	0.09	0.2	7	x	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
ATR	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		x	2115	Surgical	2
PA	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
٦Ľ	2.00	1.30	80	0.15	0.14	6		2016 ISP	Modified Seldinger	4
ADI	2.00	1.30	80	0.15	0.14		x	2116	Surgical	2
٩	2.00	1.30	80	0.15	0.14	6	x	2116 ISP	Modified Seldinger	4

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

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







#### 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 <sup>™</sup> 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 Distributor:

Vascular access

range



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



Use recommendations

### poly**site™ 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 injection.
- 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<sup>™</sup> and seesite<sup>™</sup> Standard (series 4000) and Mini (series 3000) and 20G or 22G for polysite<sup>™</sup> and seesite<sup>™</sup> 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  $^{\circ}$ C (100  $^{\circ}$ F) before use <sup>(1)</sup>.
- Always ensure that the catheter is equal or less than 25 cm long (do not administer this type of injection with a femoral catheter)<sup>(1)</sup>.
- 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 procedures.

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

(1) See IFU

Source: test report - CE file, march 2010 (Implantable ports technical file on polysite<sup>™</sup> 2000, 3000 & 4000 (DT002), part VI / Evaluation of the conception of polysite<sup>™</sup> 2000, 3000 & 4000 series, §14 / Qualification of our implantable ports polysite<sup>™</sup> 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).



Vascular access

### range

### Maximum flow rates recommended for injecting contrast medium

	poly <b>site</b> ™ <b>Product codes</b>	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 ECHO	1				
м	2015, 2015 ISP, 2015 ECHO	2		6cP		
I	2115, 2115 ISP, 2115 ECHO	2		i.e. 300 mgl/mL	20G	
R	2016, 2016 ISP, 2016 ECHO			(e.g.: Xenetix <sup>™</sup> 300, pre-warmed	22G	
ο	2116, 2116 ISP, 2116 ECHO			to 37°C)*		
	2007, 2007 ISP, 2007 ECHO	2				
	2107, 2107 ISP, 2107 ECHO	3				
	3007, 3007 ISP, 3007 ECHO					
M I	3107, 3107 ISP, 3107 ECHO					
	3017, 3017 ISP, 3017 ECHO					
N	3117, 3117 ISP, 3117 ECHO		325 psi			
	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	19G	
e	4008, 4008 ISP, 4008 ECHO	F		Xenetix <sup>™</sup> 350, pre-warmed	20G	
T	4108, 4108 ISP, 4108 ECHO	5		to 37°C)*		
A N	4018, 4018 ISP, 4018 ECHO					
A	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					

#### The following conditions must be observed.

\* Xenetix<sup>™</sup> 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).



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

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

Bulb introducer:

NEW

- Lightweight design: operator comfort
- · Clear bulb: blood flashback verification

0

- Valve included: prevention of blood loss and air embolus during guidewire insertion
- 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

..... Echogenic puncture needle: Good needle tip visualization, thanks to an echogenic improvement technique



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

		Port features				Cathe	eter feat	tures					Kit															
Dim (Lx (		Dimensions (LxWxH) (mm)	Weight (g)	Internal volume (mL)	Material Silicone (Si) or Polyurethane (PU)	OD (mm)	ID Length (mm) (cm)		Internal volume (mL/10cm)	Sheath (Fr)	Preconnected catheter	Product codes	(see page 14)															
<u>v</u>				0.2	si	1 65	0.65	60	0.04	5		2005 ECHO	5															
ΔTR	6			0.2	51	1.05	0.05		0.01		х	2105 ECHO																
	rie	22.0		0.1	PLI	1 65	1.05	60	0.10	5		2015 ECHO	5															
PE	se	22.0 v17.0	29	0.1	FU	1.05	1.05	00	0.10	5	x	2115 ECHO	- 5 - 5 - 6 - 6 - 6 - 6															
	cro	x8.7	<u>_</u> ,,,	014	BLI	2.00	1.20	40	0.15	4		2016 ECHO	4															
	Ξ			014	PU	2.00	1.30	00	0.15	0	х	2116 ECHO	0															
				0.2	Si	2 16	1.02	60	0.09	7		2007 ECHO	6															
				0.2	51	2.10	1.02	00	0.07	1	х	2107 ECHO	Ŭ															
				0.35	si	2 16	1.02	60	0.09	7		3007 ECHO	6															
	ies	25.0		0.55	51	2.10	1.02		0.07		х	3107 ECHO																
	ser	x20.8 x10.1	5	0 37	PU	2 30	1 45	60	0.18	7		3017 ECHO	6															
	i.			3	5	5	5	5	3	2	5	5	5	5	5	2	5	3	J	J	0.57	10	2.30	1.45	00	0.10	ŕ	х
E .	Σ			0 35	Si	2 40	1 20	60	0.13	8	x         2107 ECHO           3007 ECHO         3007 ECHO           x         3107 ECHO           x         3117 ECHO           x         3117 ECHO           x         3117 ECHO           x         3117 ECHO           x         3118 ECHO           x         3108 ECHO           x         3108 ECHO	6																
5				0.55	0.	2.10	1.20		0.15		х	3108 ECHO																
٩D				0 58	PU	2 30	1 45	60	0.18	7		4017 ECHO	6															
				0.000							x	4117 ECHO																
	es			0 5 9	PU	2 65	1 70	60	0.24	8		4018 ECHO	6															
	ieri	24.0		0.07		2.00	1		0.21		x	4118 ECHO	Ŭ															
	rds	x22.2	7.6	0.6	Si	2.40	1.20	60	0.13	8		4008 ECGO	6															
	Idai	x12.2									x	4108 ECHO																
tan	tan			0.5	PU 3.	3 00 1	1 90 4	) 60	0.30	9		4019 ECHO	6															
	S								0.30	-	x	4119 ECHO																
					0.6	Si	3.18	1.57	60	50 0.22 10		40010 ECHO	6															
											х	41010 ECHO	Ţ															

(1) Polyoxymethylene

The polysite<sup>™</sup> range is sterilized by ethylene oxide. polysite<sup>™</sup> is a registered trademark of PEROUSE MEDICAL. (a) HAS 2010 French health autority - Check list relative to «central venous catheters or vascular device implantation».

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





Reduction of the number of attempts<sup>(3) (4)</sup> Decreased complications rate<sup>(4)</sup>



(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.





# Pressure injectable implantable port kit seesite<sup>™</sup> - Hybrid: Titanium and POM<sup>(1)</sup>

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



(3)

• Radiopaque marking detectable by X-ray

- 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

 $\bullet$  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

• For easy port removal



(1) Polyoxymethylene. (2) See secsite<sup>w</sup> 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 recommended for internal jugular access on adult and child. The secsite<sup>w</sup> range is sterilized by ethylene oxide. secsite<sup>w</sup> is a registered trademark of PEROUSE MEDICAL.





### Complete port placement kit

### Vascular access range

#### see**site**<sup>™</sup> kit also contains:

•  $PPS^{T}$  **CT** Safety Huber needle, compatible with contrast medium injections<sup>(5)</sup>





#### Patient safety

### Prevention of catheter obstruction

- Single-handed safety Huber needle allowing positive pressure during removal  $^{\rm (5)~(6)~(7)}$ 

#### Practitioner comfort

### Compatible with pressure injection of contrast media

 $\bullet$  Secure check of blood reflux after port  $\mathsf{placement}^{(6)}$ 

		Port features Catheter features													
		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 <sup>(2)</sup>	Kit (see page14)
ATRIC	series	22.0 x17.0	2.0	0.2	c:	4.45	0.45	60	0.04	F		2005 SEE	4	6cP or	7
PAEDI Micro		x8.7	<b>2</b> +7	0.2	51	1.05	0.05	80	0.04	5	х	2105 SEE	I	300mgl/mL	7
ies			0.25	C:	2.47	1.00	(0	0.00	7		3007 SEE	2			
	ies			0.35	51	2.10	1.02	00	0.09	/	x	x 3107 SEE			
	Ser	25.8 x20.8	5.0	0.37	PLI	2 30	1 45	60	0.18	7		3017 SEE	5		
	Ē	x10.1	5.0	0.57	10	2.30	1.45	00	0.10	· · ·	х	3117 SEE	5		
	Σ			0 35	Si	2 40	1 20	60	0.13	8		3008 SEE	5		
E				0.00	01	2.10	1.20	00	0.10	Ŭ	х	3108 SEE			
5				0.59	PU	2.65	1.70	60	0.24	8		4018 SEE	5	10cP or	8
AD	ies										x	4118 SEE		350mgl/mL	-
	Ser			0.6	Si	2.40	1.20	60	0.13	8		4008 SEE	5		
Standard S	31.0 x22.2	7.6								х	4108 SEE				
	x12.2		0.39	PU	3.00 1.90	1.90	60	0.30	9		4019 SEE	5			
	tan			0.39	PU	3.00	1.90	0 60	0.30		X	4119 SEE			
	Ň			0,6	Si	3.18 1.57 60	60	0.22	10		40010 SEE	5			
											Х	41010 SEE			

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

(7) Laplay J & II. Totaly Implantable Port Management: Impact of positive pressure during needle withdrawal on catheter tip occlusion (An experimental study), Journal of Vascular Access, 2010.





For modified Seldinger and US-guided venipuncture technique: seesite™



poly**site**™ echo

For modified Seldinger technique: polysite<sup>™</sup> ISP



For surgical technique: poly**site**™



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

				Modified Seldinger + US-guided venipuncture					
lechnique	Surgical	Modified Sel	dinger (ISP)	EC	но	SEE <b>SITE™</b>			
Kit	2	3	4	5		7	8		
Straight Huber needle	22 <b>G</b>	22 <b>G</b>	22G	22 <b>G</b>	22G	22G	22G		
Vein pick	х	х	x	х	x	х	x		
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 <b>G/7</b> cm	20G/4.5 cm	18G/7 cm		
Tunneling device		<b>Ø2</b> mm / 18 cm	Ø2.5mm/23 cm	<b>Ø2</b> mm / 18 cm	Ø2.5mm/23 cm	Ø2mm/18 cm	Ø2.5mm/23 cm		
Syringe	-	х	x	х	x	х	x		
Raulerson device	-	-	-	x	x	x	x		
$\operatorname{Civ-Flex}^{\scriptscriptstyle  op}$ (Probe sheath, elastic bands, gel)	-	-	-	x	x	x	x		
Safety Huber needle compatible with pressure injection PPS <sup>™</sup> CT	-	-	-	-	-	22 <b>G</b> /20 mm	20G/20 mm		

 $^{\ast}$  not preconnected for references 4019, 4019 ISP, 4019 ECHO  $\,$  and 4019 SEE



Compatible injection of contrast media during CT Vascular access scan and MRI procedures range (cf. Page 18) Implantable port sit**implant**<sup>™</sup> - 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 MR Conditional





Standard

Micro

Mini





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

### Implantable port

helio $\textbf{site}^{\scriptscriptstyle \mathsf{M}}$  - Hybrid: Titanium and compact silicone



Port sizes	Dimensions (base ØxH) (mm)	Septum diameter (mm)	Weight (g)	Internal volume (mL)	OI Fr	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)
VC	22 × 0	0	E	0.10	6.6	2.2	1.1	0.10	11.mm	75		2217.116	4
~3	23 X 7	0	5	0.17	0.0	2.2	1.1	0.10	1.1 11111	/F	х	2217.126	4
												2218.116	4
S	25 x 10	10	6.3	0.31	6.6	2.2	1.1	0.10	1.1 mm	7F	x	2218.126	4
м	27 44	42	0	0.45		2.2	4.4	0.10	4.4	75		2219.116	4
r4	21 X 11	12	ő	0.45	0.0	2.2	1.1	0.10	1.1 mm	/ -	х	2219.126	4

Benefits of the accessories included into the modified Seldinger kit:





#### Sitimplant™ and heliosite™ kit composition Surgical kit IV canula kit Modified Seldinger kit Complete kit Com

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

	Surgical kit	Modified Seldinger 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	x	x	x	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	-	20 <b>G</b> - 38 mm	18 <b>G - 6</b> 8 mm	18 <b>G - 6</b> 8 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: hub <b>site</b> ™	-	22 <b>G</b> -20mm	20G-20mm	20G-20mm	-	20G-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)



### sit**implant<sup>™</sup> and** heliosite<sup>™</sup> Injection of contrast media during CT scan or MRI procedures



CT SCAN COMPATIBLE and MR CONDITIONAL See IFU

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 sit**implant**<sup>™</sup> or helio**site**<sup>™</sup> 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.

	CT-ra Port	ted ts		perfu <b>safe</b> 2 <b>Ref. 5249 - 5250</b>			hubsite2 Ref. 1239 - 1251 - 1256			inject <b>site</b> Ref. 1058		
Ref.	Size	Material	ø	19G	20G	22G	19G	20G	22G	19G	20G	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

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









The mini sit**implant**<sup>m</sup>, 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,
      - $\bullet$  1 flat epidural bacterial filter  $0.2 \mu m$  fitted with a removable compression hub,
        - 1 needle with Huber bevel to access the septum of the port.



		I			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<sup>™</sup> & maxflo<sup>™</sup> expert

max**flo**<sup>™</sup> & high flow applications

maxflo™ CT RATED can be used whenever a PICC

is indicated, including high-pressure administration.

#### life**cath** PICC™

life**cath** PICC<sup>™</sup> catheters are designed for ambulatory patients who require short to long term central venous access.







#### lifecath 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

ma	xtio exp	Dert						Product codes		
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<sup>™</sup>
- griplok™
- Measuring tape



### PICC-Line with proximal trimming CT PICC easy

#### Catheter with proximal trimming:

19

- 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 detachable extension line with a Robert cla
   1 safety introducer needle 21G x 7cm
- 1 safety introducer needle 21G x 70

- 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<sup>™</sup>, securement device
- 1 bionector<sup>™</sup>
- 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



Needles



Tourniquet



Drape towel + table cover 75 x 90 cm



Ultrasound probe cover with gel



Disposafe – needle protector



Tray



Swabs 10 x 10 cm



Pre-filled syringes with saline



Gown



5ml Luer slip syringe



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.

#### nutri**cath** 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	
	Catł	neter		nutri <b>cath</b> S (without cuff)			nutri <b>cath</b> tunnel with cuff
OD (Fr)	OD (mm)	ID (mm)	Length (cm)	Surgical kit	IV cannula kit	Modified Seldinger kit	Modified Seldinger kit
4	1.2	0.9	35		2180.13	2171.13	
4	1.5	0.0	60/58		2181.13		2101.13
-	4.7	4	35		2180.17	2171.17	
5	1.7	I	60/58		2181.17		2101.17
,	2.0	4.2	35		2180.20	2171.20	
0	2.0	1.2	60/58		2181.20	2182.20	2101.20
0.(	2.2	3.2 2	35	2180.30			
7.0	3.2		60/58	2181.30			2101.30

#### Surgical kit

- $\bullet$  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 nutri**cath** S except for 2182.20 code: J guidewire
- J guidewire for nutricath tunnel codes
- Puncture needle (20G for 4F catheter. 18G for others).
- 1 non peelable introducer for nutri**cath** S codes
- 1 peelable introducer for nutricath tunnel codes
- 1 detachable compression hub
- Tunneling device only for nutricath tunnel codes and code 2182.20

#### leadercuff

Single lumen polyurethane catheter with subcutaneous cuff and detachable hub (V/**flow**<sup>TM</sup> hub: on/off positions)



	Cath	eter		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:  $\forall y flow^{TM}$
- Tunneling device



Vascular access range

### Long term central venous catheter life**cath**<sup>™</sup> - Silicone catheter

 $|if \otimes cath^{TM}$  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.





		Catheter			Produc	t 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

life**cath**<sup>TM</sup> 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.



\*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.

#### Surgical set

- 1 radiopaque silicone catheter with Dacron cuff
- 1 tunnelling device (catheter with Ø≥7F is supplied with 2 tunnelling devices - plastic and metallic)
- 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  $\emptyset \leq 9F$ )
- injection cap(s)

#### Modified Seldinger kit for lifecath<sup>™</sup> apheresis

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





life**cath**<sup>TM</sup> 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.



• 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

dialy**kit** 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)
- $\bullet$  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	0.0	20	522509
	20	0.9	35	523809
	19	4.4	20	522511
	17	1.1	35	523811
	23	0.6	25	512506
			30	512507
Straight	22	0.7	38	513807
ocraight	20	0.9	25	512509
	40	1.1	25	512511
	17	1.1	28	513811



#### polyperf<sup>™</sup> 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
22		20	582007
22	0.7	25	582507
		30	583007
		35	583507
		15	581509
	0.0	17	581709
20		20	582009
20	0.9	25	582509
		30	583009
		35	583509
		15	581511
		17	581711
10	4.4	20	582011
17	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.

### poly**perf™ 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
		0.7	25	592509
	19	1.1	20	592011
			25	592511



Packed in box of 10 units

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 poly**perf<sup>™</sup>** are sterilized by ethylene oxide. poly**perf<sup>™</sup>** is a registered trademark of PEROUSE MEDICAL.



#### POSITIVE PRESSURE DURING REMOVAL

### Safety Huber needles poly**perf**<sup>™</sup> safe



Single hand activation:

decreased blood exposure risk versus double and activated device<sup>(3)</sup>

Possible positive pressure

one hand

- According to implantable port using recommendations (1) • Withdrawal of the needle with only
- **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 position to the vertical position.

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 eliminates any risk of accidental needlestick injury.

Gauge		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 <b>G</b>	0.7	17	601707	611707
	22G	0.7	20	602007	612007
	22 <b>G</b>	0.7	25	602507	612507
	22G	0.7	30	603007	613007
	22 <b>G</b>	0.7	35	603507	613507
	20G	0.9	15	601509*	611509*
	20 <b>G</b>	0.9	17	601709	611709
	20G	0.9	20	602009	612009
	20 <b>G</b>	0.9	25	602509	612509
	20G	0.9	30	603009	613009
	20 <b>G</b>	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
	19G	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. \* For paediatric use only.

 $\text{poly}\textit{perf}^w$  safe and  $\text{PPS}^w$  Quick Huber needle are packaged in cartons of 12 units. Sterilized using ethylene oxide. NO DEHP

polyperf<sup>™</sup> safe and PPS<sup>™</sup> quick are registered trademarks of PEROUSE MEDICAL.

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

According to HAS 2000 (French Health Authority) and SF2H 2012 (French Society for Hospital Hygiene) guidelines.
 Biomatech study n°148381 - 28 june 2012 - p.64-66.
 Survey of the occurrence circumstances of Accidental Blood Exposure due to punc-tures with safety materials, GERES – AFSSAPS Collaboration, G. Pellissier, 18th Annual GERES conference, 2008.







Vascular access range

#### Automatic positive pressure<sup>(1)</sup> 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 <sup>(5)</sup> (X-rays, nursing time, explantation, etc.)

#### Single hand activation: decreased blood exposure risk versus double and activated device <sup>(6)</sup>

#### **Removal steps**



Normal use position (horizontal piston). Perform a pulsated flush with saline.

Lift the piston from the horizontal position to the vertical position and pull it downwards. (perpendicular to the patient skin)

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 the extractor until hearing a « click » Needle is withdrawn safely.

	6	Needle Ø (mm)	Needle length (mm)	Product codes without needleless connector	
	Gauge			without <b>Y</b> site	with <b>Y</b> site
	22 <b>G</b>	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
	20 <b>G</b>	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. <sup>6</sup> For paediatric use only.

(1) According to HAS 2000 (French Health Authority) and SF2H 2012 (French Society for Hospital Hygiene) guidelines.

(2) Carlo J 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 Access, 2010.

(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 or automatic 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. (6) Survey of the occurrence circumstances of Accidental Blood Exposure due to punctures
- with safety materials, GERES AFSSAPS Collaboration, G. Pellissier, 18th Annual GERES conference, 2008.

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

#### NO DEHP

This device is not made with dry or natural rubber latex. PPS flow  $+^{\bowtie}$  is a registered trademark of PEROUSE MEDICAL.



### Safety Huber needle PPS<sup>™</sup> CT

#### 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)





Normal position for use (horizontal piston) before withdrawal

Preparation: lift the piston from the horizontal 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.



Product codes Needle Ø Gauge 811507\* 801507\* 22G 07 17 801707 811707 802007 812007 20 2 mL/sec 22G 300 psi 0.7 25 802507 812507 30 803007 813007 22G 0.7 35 803507 813507 801509\* 811509 20G 0.9 17 801709 811709 5 mL/sec 802009 812009 300 psi 20G 0.9 25 802509 812509 0.9 30 803009 813009 20G 0.9 35 803509 813509 15 801511\* 811511\* 19G 801711 811711 1.1 17 20 802011 812011 5 mL/sec 19G 25 300 psi 802511 812511 1.1 30 803011 813011 19G 803511 813511 1.1 35



Implantable port compatible with power injection

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

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<sup>™</sup> **CT** is packed in a box a 12 units. Sterilization by ethylene oxide.

PPS<sup>™</sup> CT is a registered trade mark of PEROUSE MEDICAL.





### Vascular access

range

### Clear Transparent Film Dressing specifically designed to maintain Huber needles, CVC and picc lines in place poly**film**™



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



poly**film**<sup>™</sup> is sterilized by ethylene oxide. poly**film**<sup>™</sup> is a registered trademark of PEROUSE MEDICAL.



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

The specifications given in this brochure are for information only and are not, under any circumstances, of a contractual nature.

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