



Value Life



MID & LONG TERM VASCULAR ACCESS

Huber needle

PRODUCT GUIDE

Introducing Vygon's safety Huber needles

As vascular access experts, we know how important it is for patients and clinicians, that the combination of totally implantable vascular access devices (TIVADs) and Huber needles maximises treatment effectiveness and minimises risks.

Key qualities in the design of our Huber needles include safety features which protect against needlestick injuries and minimise the risk of occlusion after the needle is withdrawn.

Other benefits include ease of use with single hand activation and a simple, straight-forward withdrawal process.

In addition to the comprehensive benefits in our **polyperf™ safe** Huber needle, the Vygon range features needles with special features to address particular clinical needs. They are:

- **PPS flow +™** - single-handed removal plus automatic positive pressure helps to reduce catheter occlusion
- **PPSCT™** - power injection compatible Huber needle for use with contrast agents.

Safe and secure

Our polyfilm securement dressing is specially designed to ensure the Huber needles remain in place. They feature an adhesive central window to ensure easy removal without displacing the needle.

Clinical support and expert training

Supporting our range of Huber needles is Vygon's expertise in vascular access training and education. We prioritise the development of our learning resources and up-to-date information, which we consider vital in supporting you and your patients in implementing changes in practice to improve clinical outcomes.

We offer a variety of training options ranging from local sessions facilitated by your Sales Executive to peer led study days and workshops with our Clinical Nurse Educators with plenty of options to gain 'hands-on' experience.

With careers that have seen them excel in their healthcare professions, our Clinical Nurse Educators are ideally placed to provide an appreciation and understanding of the practicalities of vascular access and to share that knowledge. As authors of published peer-reviewed papers and regular participants in prominent national and international IV organisations and forums, they are at the ideal partners to support you with delivering best practice.

polyfilm™

EASY
REMOVAL
NON-ADHESIVE
CENTRAL
WINDOW

Huber needle securement dressing

Clear transparent film dressing specifically designed to maintain Huber needles, CVC and PICC lines in place

Secure

- The Huber needle stays in place

Two-part applicator frame

- Easy to apply

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

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

- Non-adhesive guaranteeing stability of the needle upon removal of the dressing: 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

Holding strips (included in the pouch)

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

Ordering codes

Vygon code	Description	Dimensions	Box qty
PF121401	polyfilm™ dressing holding strips	12x14cm or 4 3/4 in x 5 1/2 in	50 units

polyfilm™ is sterilized by ethylene oxide. polyfilm™ is a registered trademark of PEROUSE MEDICAL.

polyperf™ safe

Safety Huber needles

AUTOMATIC
SAFETY
MECHANISM
DURING
REMOVAL

Single-handed activation: decreased blood exposure risk versus double activated device⁽¹⁾



Protection

- Total protection until discarded in sharps container

Positive pressure locking

- Simple two-handed technique allows for easy positive pressure lock of TIVAD

Safety

- Eliminates the risk of needlestick injury
- No rebound effect when withdrawing the needle
- No risk of contact with the body of the needle⁽²⁾

Withdrawal

- Withdrawal of the needle with only one hand



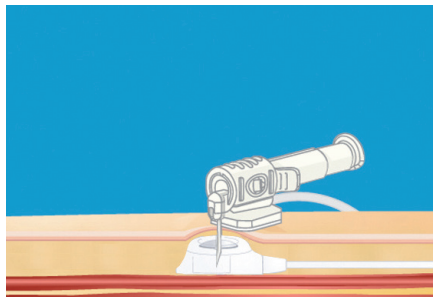
polyperf™ safe is packaged in cartons of 12 units. Sterilised using ethylene oxide.

NO DEHP

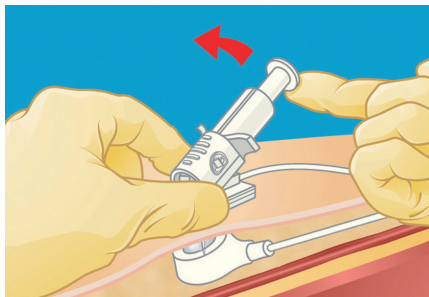
This device is not made with dry or natural rubber latex.

polyperf™ safe is a registered trademark of PEROUSE MEDICAL.

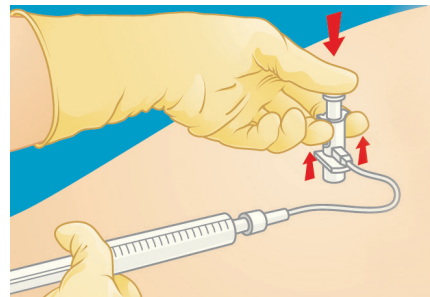
Withdrawal of the needle



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 CLICK corresponding to the total locking of the needle. This final operation eliminates any risk of accidental needlestick injury.

Ordering codes

(PPS products available with lateral Y site.)

Vygon code	Gauge (G)	Needle length (mm)	Hub colour
VPE601507*	22	15	Black
VPE601707	22	17	Black
VPE602007	22	20	Black
VPE602507	22	25	Black
VPE603007	22	30	Black
VPE603507	22	35	Black
VPE601509*	20	15	Orange
VPE601709	20	17	Orange
VPE602009	20	20	Orange
VPE602509	20	25	Orange
VPE603009	20	30	Orange
VPE603509	20	35	Orange
VPE601511*	19	15	Light Orange
VPE601711	19	17	Light Orange
VPE602011	19	20	Light Orange
VPE602511	19	25	Light Orange
VPE603011	19	30	Light Orange
VPE603511	19	35	Light Orange

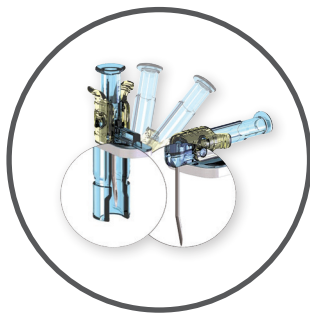
* For paediatric use only.

PPSCT™

Safety Huber needles

Power injection compatible⁽²⁾

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



Protection

- Total protection until discarded in sharps container

Positive pressure locking

- Simple two-handed technique allows for easy positive pressure lock of TIVAD

Safety

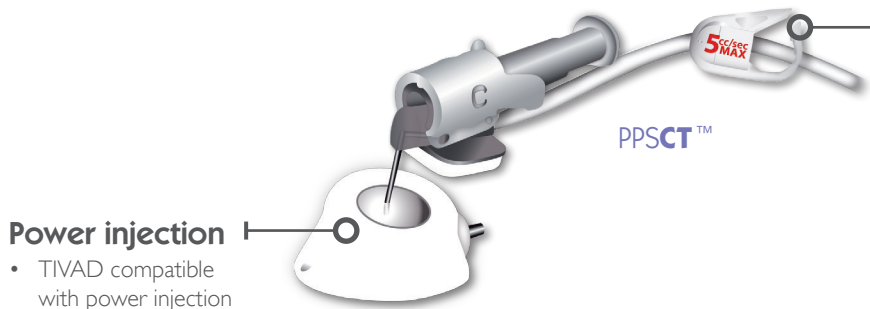
- Eliminates the risk of needlestick injury
- No rebound effect when withdrawing the needle
- No risk of contact with the body of the needle⁽²⁾

Withdrawal

- Withdrawal of the needle with only one hand

Compatibility

- Compatibility with CT scan injection



Power injection

- TIVAD compatible with power injection

Infusion rate

- Ring indicating the maximum infusion rate on the needle

NO DEHP

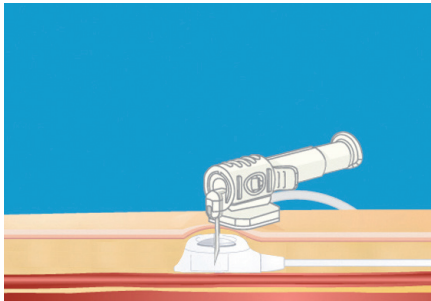
This device is not made with dry or natural rubber latex.

PPSCT™ is packed in a carton of 12 units.

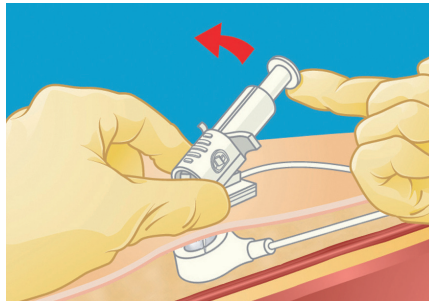
Sterilisation by ethylene oxide.

PPSCT™ is a registered trade mark of PEROUSE MEDICAL.

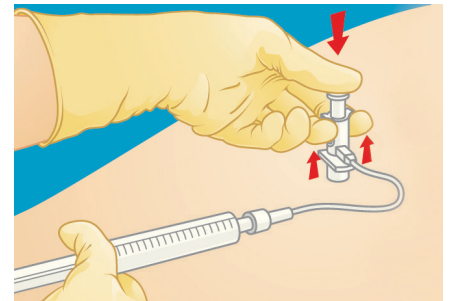
Withdrawal of the needle



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 CLICK corresponding to the total locking of the needle. This final operation eliminates any risk of accidental needlestick injury.

Ordering codes

(PPS products available with lateral Y site.)

Vygon code	Gauge (G)	Needle length (mm)	Max. flow rate	Hub colour
VPE801507*	22	15	2mL/sec 300 psi	Black
VPE801707	22	17		Black
VPE802007	22	20		Black
VPE802507	22	25		Black
VPE803007	22	30		Black
VPE803507	22	35		Black
VPE801509*	20	15	5mL/sec 300 psi	Orange
VPE801709	20	17		Orange
VPE802009	20	20		Orange
VPE802509	20	25		Orange
VPE803009	20	30		Orange
VPE803509	20	35		Orange
VPE801511*	19	15	5mL/sec 300 psi	Light Orange
VPE801711	19	17		Light Orange
VPE802011	19	20		Light Orange
VPE802511	19	25		Light Orange
VPE803011	19	30		Light Orange
VPE803511	19	35		Light Orange

* For paediatric use only.

PPS flow +™

Safety Huber needles

Single-handed activation for automatic positive pressure lock⁽¹⁾

Prevention

- Prevention of catheter obstruction of implantable port⁽³⁾

Automatic positive pressure lock

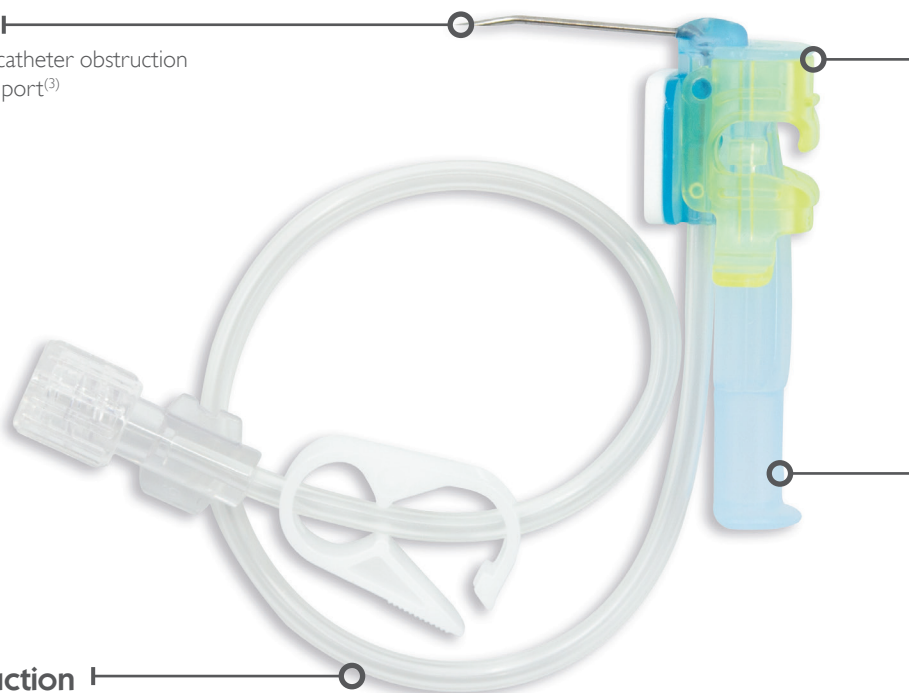
- Reduces the need to use fibrinolytic agents⁽⁴⁾

Reduction

- Significant reduction of blood reflux at the distal of the catheter

Cost reduction

- Compared to catheter occlusion on-costs and complications⁽⁵⁾(x-rays, nursing time, etc.)



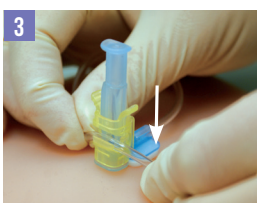
Withdrawal of the needle



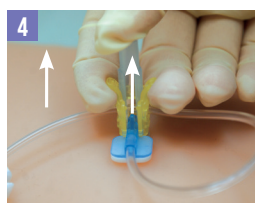
1
Normal use position (horizontal piston). Perform a pulsated flush with saline.



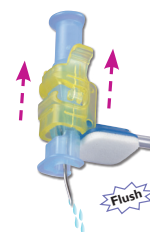
2
Lift the piston from the horizontal position to the vertical position (perpendicular to the patient's skin).



3
Insert the line into the notch and pull it downwards.



4
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 wing (on both sides of the piston). Pull up the extractor until hearing a CLICK. Needle is withdrawn safely.



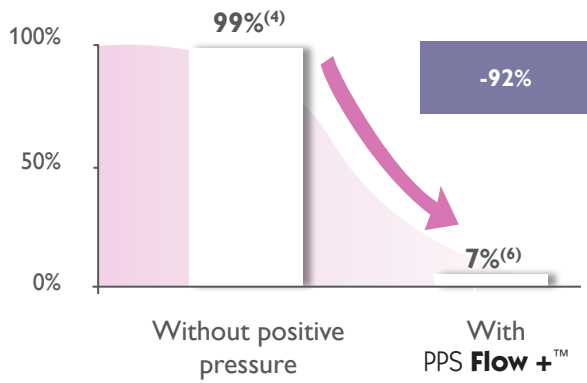
PPS flow +™ safety Huber needles are packaged in cartons of 12 units. Sterilised using ethylene oxide.

NO DEHP

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

PPS flow +™ is a registered trademark of PEROUSE MEDICAL.

% of cases with reflux



Manual positive pressure:
Reflux in 20% of cases⁽⁴⁾
(operator-dependent)



Benefit of an automatic positive pressure⁽⁴⁾

Ordering codes

(PPS products available with lateral Y site.)

Vygon code	Gauge (G)	Needle length (mm)	Hub colour
VPE701507*	22	15	Black
VPE701707	22	17	Black
VPE702007	22	20	Black
VPE702507	22	25	Black
VPE703007	22	30	Black
VPE703507	22	35	Black
VPE701509*	20	15	Orange
VPE701709	20	17	Orange
VPE702009	20	20	Orange
VPE702509	20	25	Orange
VPE703009	20	30	Orange
VPE703509	20	35	Orange
VPE701511*	19	15	Light Orange
VPE701711	19	17	Light Orange
VPE702011	19	20	Light Orange
VPE702511	19	25	Light Orange
VPE703011	19	30	Light Orange
VPE703511	19	35	Light Orange

* For paediatric use only.

Totally implantable vascular access devices (TIVADs)

Complementing our Huber needles is our range of TIVADs, specifically designed to deliver secure long-term intermittent IV therapy. We work closely with clinicians and their patients to ensure that our products combine the ideal dwell time – whether that's short, medium or long-term – with ease of use, effectiveness and value for money.

With a focus on patient comfort during a variety of treatments including chemotherapy, parenteral nutrition, antibiotics, pain management, fluids and blood sampling, our TIVADs' range delivers for both paediatric and adult patients.

Lightweight and safe

The hybrid combination of titanium and POM in our **polysite™** and **seesite™** TIVADs produces a lightweight device that's also safer than a full plastic TIVAD. With **polysite™** and **seesite™** there's no risk of particulate formation from the Huber needle scratching the reservoir base. Plus a smooth surface also means less dead space for bacterial ingress.

With the addition of unique radiopaque marking with maximum flow rate and identification in **seesite™**, the TIVAD positioning and fluid rate is instantly detectable by x-ray.

Ultimate patient benefits

Where aesthetics and patient comfort are the priorities, our low profile titanium TIVAD **sitimplant™** and hybrid TIVAD **heliosite™** offer the ideal options.

Perfect placement

All Vygon TIVADs are available with a variety of insertion kit accessories to ensure the right placement is achieved first time using the preferred procedure.

Key

MRI

MRI conditional

CT

CT compatible



TIVAD selection tool

For patients requiring long-term, intermittent IV therapy.

Choose from standard, mini, micro or low profile implantable TIVADs.

	Standard hybrid TIVAD for adults	Mini hybrid TIVAD for adults and paediatrics	Micro hybrid TIVAD for paediatrics and PICC TIVAD	Low profile hybrid TIVAD	Low profile titanium TIVAD
	polysite 4000 seesite 4000	polysite3000 seesite 3000	polysite 2000 seesite 2000	heliosite	sitimplant
Description	Large, lightweight, hybrid TIVAD with titanium reservoir and POM casing. Ergonomic shape for ease of insertion into the skin pocket.	Standard, lightweight, hybrid TIVAD with titanium reservoir and POM casing. Ergonomic shape for ease of insertion into the skin pocket.	Small, lightweight, hybrid TIVAD with titanium reservoir and POM casing. Ergonomic shape for ease of insertion into the skin pocket.	Low profile, hybrid TIVAD for best patient comfort and aesthetics. Smooth design for minimal fibrotic adherence for easy removal. Compact silicone casing with click & lock connection system.	Low profile, full titanium TIVAD for best patient comfort and aesthetics. Round base for stability.
Flow	325psi max 5mL/s with 19 or 20G CT Huber needle.	325psi max 3mL/s with 20 or 22G CT Huber needle.	325psi max 1mL/s with 20 or 22G CT Huber needle.	350psi max 7mL/s with 9.6Fr catheter and 19G CT Huber needle.	350psi max 7mL/s with 9.6Fr catheter and 19G CT Huber needle.
Suitable for	High BMI patients.	Normal BMI patient. Large paediatrics.	Low BMI patient or paediatrics / brachial placement.	Patients concerned with aesthetic appearance or tissue paper thin skin with risk of TIVAD externalisation.	Specific request for a full titanium TIVAD.
Material	Titanium & POM	Titanium & POM	Titanium & POM	Titanium & Silicone	Titanium
Advantages	<ul style="list-style-type: none"> Lighter than a full titanium TIVAD with less risk of TIVAD migration Less expensive than a full titanium TIVAD CT compatible MRI conditional Safer than a full plastic TIVAD (no risk of particulate formation from huber needle scratching reservoir base. A smooth surface also means less dead space for bacterial ingress). 	<ul style="list-style-type: none"> Lighter than a full titanium TIVAD with less risk of TIVAD migration Less expensive than a full titanium TIVAD CT compatible MRI conditional Safer than a full plastic TIVAD (no risk of particulate formation from huber needle scratching reservoir base. A smooth surface also means less dead space for bacterial ingress). 	<ul style="list-style-type: none"> Lighter than a full titanium TIVAD with less risk of TIVAD migration Less expensive than a full titanium TIVAD CT compatible MRI conditional Safer than a full plastic TIVAD (no risk of particulate formation from huber needle scratching reservoir base. A smooth surface also means less dead space for bacterial ingress). 	<ul style="list-style-type: none"> Low profile (good patient comfort and aesthetic appearance) Less risk of externalisation due to smooth surface Easy removal due to minimal fibrotic adherence CT compatible (high pressure & flow up to 7mL/s) MRI conditional Easy catheter connection. 	<ul style="list-style-type: none"> Low profile (good patient comfort and aesthetic appearance) Lightweight compared to other full titanium TIVADs CT compatible (high pressure & flow up to 7mL/s) MRI conditional.
Insertion technique	Surgical, standard MST or long MST kit. US-guided insertion kit with Raulerson blood-loss device (seesite™ only).	Surgical, standard MST or long MST kit. US-guided insertion kit with Raulerson blood-loss device (seesite™ only).	Surgical, standard MST or long MST kit. US-guided insertion kit with Raulerson blood-loss device (seesite™ only).	Surgical, or MST with nitinol anti-kink guidewire and BLS valve.	Surgical, or MST with nitinol anti-kink guidewire and BLS valve.
Catheter material	Silicone or PUR catheter	Silicone or PUR catheter	Silicone or PUR catheter	Silicone catheter	Silicone catheter
Catheter Fr	Si - 7.2 / 9.5Fr PUR - 6.9 / 8 / 9Fr (6.9Fr polysite™ only)	Si - 6.5 / 7.2Fr PUR - 6.9Fr	Si - 5 / 6 / 6.5Fr PUR - 5 / 6Fr (6Fr polysite™ only)	Si - 6.6Fr N/A	Si - 4 / 5.1 / 6.6 / 8.4 / 9.6Fr N/A
Connected/preconnected	Catheter preconnected or not preconnected.	Catheter preconnected or not preconnected.	Catheter preconnected or not preconnected.	Catheter preconnected or not preconnected.	Catheter preconnected or not preconnected.
Radiopacity	Unique radiopaque marking with max flow rate identification (seesite™ only).	Unique radiopaque marking with max flow rate identification (seesite™ only).	Unique radiopaque marking with max flow rate identification (seesite™ only).	N/A	N/A

References

- 1 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.
- 2 Biomatech study n°148381 - 28 june 2012 - p.64-66.
- 3 Carlo JT et al., The American Journal of Surgery 188;722-727, 2004.
- 4 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.
- 5 Biffi R & al., Totally implantable central venous access ports for long-term chemotherapy, Annals of Oncology 9:767-773, 1998.
- 6 H.Lever, 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.

For further information, please contact: vygon@vygon.co.uk

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