

# Safety Solutions product catalogue



**SAFETY DEVICES**





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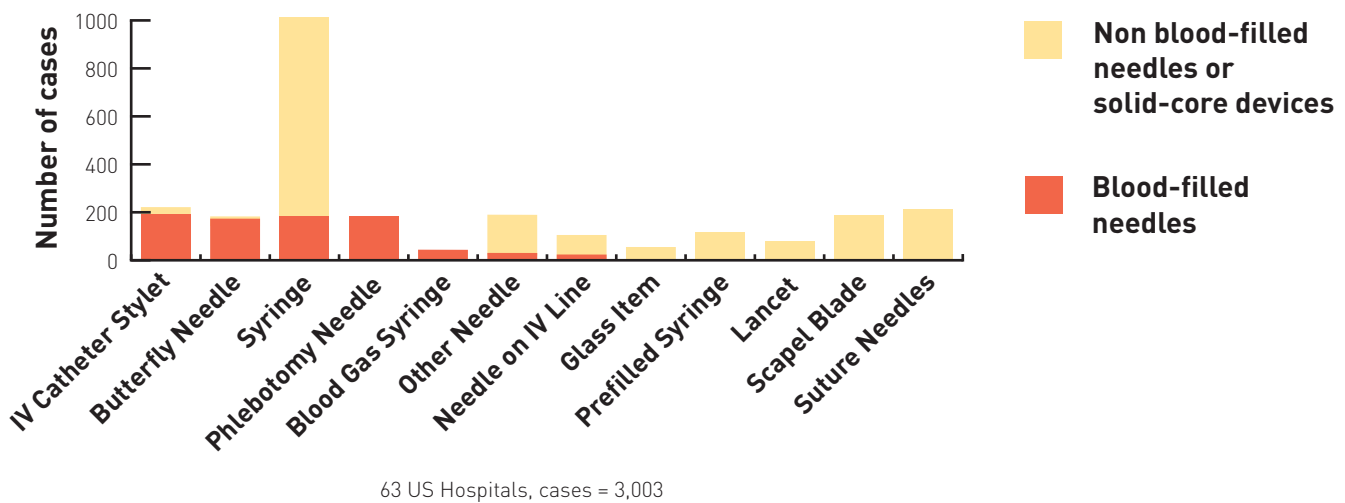


Every day healthcare workers are faced with the risks posed by accidental needlestick injuries, which may include acquiring HIV or Hepatitis B (HBV) and Hepatitis C (HCV).

Hospitals can use a range of measures to reduce the devastating consequences of needlestick and sharps injuries, including adoption of education and training protocols together with the use of safer devices.

Smiths Medical has developed a comprehensive product line of sharps injury protection devices. Our product line now includes:

## Items most frequently causing sharp object injuries, EPInet, 1995<sup>3,4</sup>



• Saf-T Wing <sup>®</sup>	Winged safety blood collection needle
• Venipuncture Needle-Pro <sup>®</sup>	Safety Blood Collection Holder for venous blood sampling
• Blood Draw Hypodermic Needle-Pro <sup>®</sup>	Safety device for syringe blood drawing procedures
• Hypodermic Needle-Pro <sup>®</sup>	Safety device for medication delivery through injection
• Hypodermic Needle-Pro <sup>®</sup> EDGE <sup>™</sup>	Safety device for medication delivery through injection
• PROTECTIV <sup>®</sup>	Safety IV Catheter
• ACUVANCE <sup>®</sup>	Safety IV Catheter
• Gripper Plus <sup>®</sup>	Safety Huber needle
• Point-Lok <sup>®</sup>	Non-integral needle protection device
• StatLock <sup>®</sup> CV Plus <sup>®</sup>	Suture free catheter securement device

### References

- Ippolito G, et al. Prevention, Management and Chemoprophylaxis of Occupational Exposure to HIV. International Health Care Worker Safety Center and Advances in Exposure Prevention; University of Virginia, 1997.
- Advances in Exposure Prevention 1998; 3(4): 37-48.

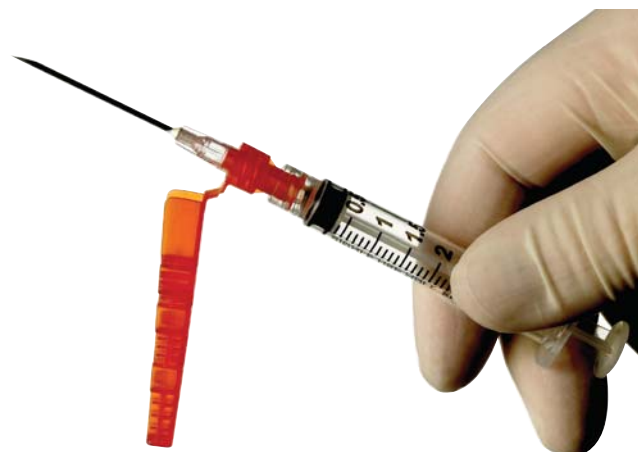


Fig 1

## A Universal Approach to Needle Protection

Smiths Medical Needle-Pro® devices are designed to make needlestick safety simple and effective.

The primary safety feature of Needle-Pro® needle protection devices is a hinged protective sheath that encapsulates a contaminated needle upon activation. Unlike other devices, Needle-Pro® devices allow the clinician to decide when to activate the safety mechanism, giving them ultimate control over the procedure.

Exposure time is minimal when using Needle-Pro® devices because the sheath is ready for engagement immediately after the needle is used. Needle-Pro® devices cannot be deactivated, remaining protective through disposal.



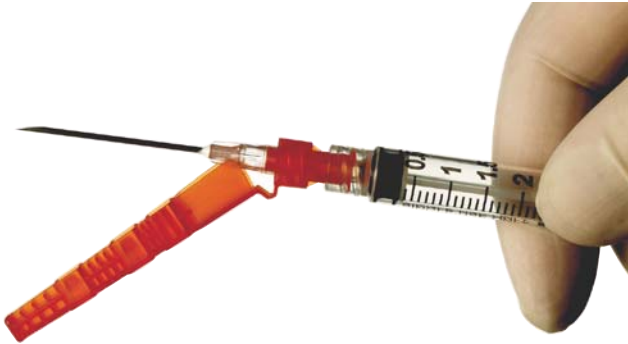


Fig 2



Fig 3

All Smiths Medical Needle-Pro® devices are:

**Safe:** Contaminated needles are enclosed in a sturdy, puncture resistant sheath.

**Simple:** The integral hinged protective sheath snaps into place with a gentle push against a flat surface. Activation is heard and seen by clinicians.

**Consistent:** All Needle-Pro® devices have a distinctive, orange hinged protective sheath.

**Convenient:** Needle-Pro® are easy to use.

## Safety Mechanism

Fig 1. The safety feature is an integral part of the device.

Fig 2. The safety feature can be engaged with a single-handed technique allowing the clinician's hands to remain behind the exposed sharp at all time.

Fig 3. The user can tell easily whether the safety feature is activated. The safety feature cannot be deactivated.



## Safety Devices for Venous Blood Collection

### Venipuncture Needle-Pro®

Product Code	Description	OD/Length (mm)	Needle Hub Colour	Units Per Case
4140	40 bags of 25 each			1000
4141	2 bags of 500			1000
4142	5 boxes of 100 each			500



### Hypodermic Needle-Pro® Blood Draw

Product Code	Description	OD/Length (mm)	Needle Hub Colour	Units Per Case
4270	20G x 11/2"	0,9 x 38	yellow	800
4271	20G x 1"	0,9 x 25	yellow	800
4272	21G x 11/2"	0,8 x 38	green	800
4273	21G x 1"	0,8 x 25	green	800
4274	22G x 11/2"	0,7 x 38	black	800
4275	22G x 1"	0,7 x 25	black	800
4276	23G x 1"	0,6 x 25	blue	800
4277	25G x 5/8"	0,5 x 16	orange	800
4278	25G x 1"	0,5 x 25	orange	800

### Safety Devices for Venous Blood Collection

The Venipuncture Needle-Pro® device covers both ends of a multi-sample blood draw needle, once engaged. This prevents the needle from being removed from the holder after draw, protecting clinicians against accidental needlesticks throughout the entire disposal process. This patented single use device is compatible with all blood drawing needles and vacuum tube blood sampling systems.

- Holder- based safety device minimises back-end exposure by preventing needle removal and holder re-use.

### Blood Draw Hypodermic Needle-Pro® Device

Blood Draw Hypodermic Needle-Pro® devices are designed for use when a syringe is required for venous blood drawing. The Luer slip needle connection allows adjustment of the needle bevel to facilitate venous blood draw.

- Available with 20G-25G needles ranging in length from 16mm to 38mm.
- Safety feature activation consists with all Needle-Pro® devices.
- Compatible with Luer slip and Luer lock syringes for a controlled blood draw.





Fig 1

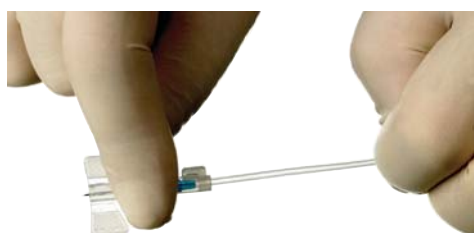


Fig 2



Fig 3

## Saf-T Wing® Blood Collection Sets

Product Code	Description	OD/Length (mm)	Needle Hub Colour	Units Per Case
972106	21G x 3/4" 6" / 15cm tubing	0,8 x 19	green	200
972112	21G x 3/4" 12" / 30cm tubing	0,8 x 19	green	200
972306	23G x 3/4" 6" / 15cm tubing	0,6 x 19	blue	200
972312	23G x 3/4" 12" / 30cm tubing	0,6 x 19	blue	200
972506	25G x 3/4" 6" / 15cm tubing	0,5 x 19	orange	200
972512	25G x 3/4" 12" / 30cm tubing	0,5 x 19	orange	200

## Saf-T Wing® Blood Collection Sets with holder

Product Code	Description	OD/Length (mm)	Needle Hub Colour	Units Per Case
982106	21G x 3/4" 6" / 15cm tubing and holder	0,8 x 19	green	200
982112	21G x 3/4" 12" / 30cm tubing and holder	0,8 x 19	green	200
982306	23G x 3/4" 6" / 15cm tubing and holder	0,6 x 19	blue	200
982312	23G x 3/4" 12" / 30cm tubing and holder	0,6 x 19	blue	200
982506	25G x 3/4" 6" / 15cm tubing and holder	0,5 x 19	orange	200
982512	25G x 3/4" 12" / 30cm tubing and holder	0,5 x 19	orange	200

## Saf-T Wing® Accessories

Product Code	Description	Units Per Case
96000	Saf-T-Holder® Luer Lock	200
96002	Saf-T-Holder® Female Luer adaptor	200
96004	Saf-T-Holder® Blood Culture device with male Luer Lock	50
96005	Saf-T-Holder® Blood Culture device with female Luer	50
96007	Paediatric tube insert	100



### Saf-T Wing® Blood Collection Sets

Saf-T Wing® Blood Collection Sets offer winged needle safety for delicate venous blood draw procedures. Product configuration includes three different needle sizes, two tubing lengths, with and without pre-attached Saf-T Holder® device.

The safety mechanism can be activated in the patient's vein, limiting exposure to a contaminated needle.

Fig 1. The needle is stabilised behind the wings, for easy in-vein activation.

Fig 2. The extension tubing is pulled to retract needle into safety housing to activate the safety feature.

Fig 3. The retracted needle is locked into place when finished.



Smiths Medical has long been the market leader in arterial blood sampling with Portex® Arterial Blood Sampling Kits including: Pro-Vent® Plus Syringes, Pulsator® Plus Syringes and Line Draw Plus Syringes. Over the last 30 years, Portex® Arterial Blood Sampling Kits have remained the first choice of clinical healthcare workers for their innovation, quality, and attention to healthcare worker safety.

Smiths Medical is committed to providing healthcare workers with a full line of advanced safety products, which can be used in a variety of clinical applications where needlestick injuries are a potential risk for healthcare workers.

### Arterial Blood Sampling Kits

Recognising the major threat of blood-borne pathogens exposure to clinical healthcare workers in the workplace, Portex® Arterial Blood Sampling kits were the first to include safety devices. Portex® safety devices have been utilised for over 15 years to reduce the exposure of needlestick and aerosol introduction from blood-borne pathogens. Needle-Pro® needle protection device and Filter-Pro® air bubble removal device were introduced into Portex® Arterial Blood Sampling Kits.

### Filter-Pro® Air Bubble Removal Device

For the safety of clinical healthcare workers, Smiths Medical developed the Filter-Pro® air bubble removal device to allow for trapped air within the syringe to be safely expelled without exposure of the healthcare worker to blood or blood-borne pathogens. Smiths Medical includes a Filter-Pro® air bubble removal device in all of its Arterial Blood Sampling Kits.

## Pro-Vent® Plus Arterial Blood Sampling Kits

### Pro-Vent® Plus 1ml Arterial Blood Sampling Kit

Product Code	Description	Needle	Safety Device	FilterPro®	Heparin	Units Per Case
4616E	1ml Luer slip Pro-Vent® Plus		Disk	yes	23.5 IU/ml dry lithium heparin	200
4618PE	1ml Luer slip Pro-Vent® Plus	25G x 5/8" (0.5mm x 16mm)	Disk	yes	23.5 IU/ml dry lithium heparin	200
4619PE	1ml Luer slip Pro-Vent® Plus	25G x 5/8" (0.5mm x 16mm)	NeedlePro® Safety Device	yes	23.5 IU/ml dry lithium heparin	200
4628PE	1ml Luer slip Pro-Vent® Plus	23G x 1" (0.5mm x 25mm)	Disk	yes	23.5 IU/ml dry lithium heparin	200
4629PE	1ml Luer slip Pro-Vent® Plus	23G x 1" (0.5mm x 25mm)	NeedlePro® Safety Device	yes	23.5 IU/ml dry lithium heparin	200
4619LH	1ml Luer slip Pro-Vent® Plus	25G x 5/8" (0.5mm x 16mm)	NeedlePro® Safety Device	yes	7 IU/ml dry lithium heparin	200

### Pro-Vent® Plus 3ml Arterial Blood Sampling Kit

Product Code	Description	Needle	Safety Device	FilterPro®	Heparin	Units Per Case
4646E	3ml Pro-Vent® Plus		Disk	yes	23.5 IU/ml dry lithium heparin	200
4558PE	3ml Pro-Vent® Plus	23G x 1" (0.65mm x 25mm)	Disk	yes	23.5 IU/ml dry lithium heparin	200
4645PE	3ml Pro-Vent® Plus	22G x 1" (0.7mm x 25mm)	NeedlePro® Safety Device	yes	23.5 IU/ml dry lithium heparin	200
4648PE	3ml Pro-Vent® Plus	22G x 1" (0.7mm x 25mm)	Disk	yes	23.5 IU/ml dry lithium heparin	200
4658PE	3ml Pro-Vent® Plus	23G x 1" (0.6mm x 25mm)	Disk	yes	23.5 IU/ml dry lithium heparin	200
4698PE	3ml Pro-Vent® Plus	23G x 1" (0.6mm x 25mm)	NeedlePro® Safety Device	yes	23.5 IU/ml dry lithium heparin	200
4698LH	3ml Pro-Vent® Plus	23G x 1" (0.6mm x 25mm)	NeedlePro® Safety Device	yes	7 IU/ml dry lithium heparin	200



## Pro-Vent® Plus Arterial Blood Sampling Kits

Pro-Vent® Plus Arterial Blood Sampling Kits are top performers in their class because they offer a myriad of benefits for healthcare professionals and patients:

- Large venting filter media allows for quick filling;
- Rapid filling of syringe minimises patient discomfort;
- Fully depressed syringe plunger position provides ease of aspiration in code situations;
- Positive stop on 3 ml syringe eliminates plunger disengagement.

Pro-Vent® Plus Arterial Blood Sampling Kits are available with a broad choice of configurations including:

- Needle safety devices (Needle-Pro®, Point-Lok® or needle cube) and air bubble removal device (Filter-Pro®);
- 1 ml or 3 ml syringes - Luer slip and Luer lock;
- Advanced formula electrolyte-balanced dry lithium heparin or dry lithium low heparin formula;
- Variety of needle gauges and lengths.

## Pulsator® Plus Arterial Blood Sampling Kits

### Liquid Pulsator® Plus 3ml Arterial Blood Sampling Kit



Product Code	Description	Needle	Safety Device	FilterPro®	Heparin	Units Per Case
910/400/340	3ml Luer lock Pulsator® Plus	20G x 11/2 (0.9mm x 38mm)	Disk	yes	31 IU/ml electrolyte balanced liquid sodium heparin	100
910/400/360	3ml Luer lock Pulsator® Plus		Disk	yes	31 IU/ml electrolyte balanced liquid sodium heparin	100
910/400/365	3ml Luer slip Pulsator® Plus		Disk	yes	31 IU/ml electrolyte balanced liquid sodium heparin	100
910/400/380	3ml Luer lock Pulsator® Plus	22G x 1" (0.7mm x 38mm)	Disk	yes	31 IU/ml electrolyte balanced liquid sodium heparin	100
910/400/385	3ml Luer slip Pulsator® Plus	22G x 1" (0.7mm x 38mm)	Disk	yes	31 IU/ml electrolyte balanced liquid sodium heparin	100

### Dry Pulsator® Plus 3ml Arterial Blood Sampling Kit



Product Code	Description	Needle	Safety Device	FilterPro®	Heparin	Units Per Case
4046E	3ml Luer slip Pulsator® Plus		Disk	yes	23.5 IU/ml dry lithium heparin	200
4080PE	3ml Luer lock Pulsator® Plus	23G x 1" (0.6mm x 25mm)	Needle-Pro® Safety Device	yes	23.5 IU/ml dry lithium heparin	200
4082PE	3ml Luer lock Pulsator® Plus	23G x 1" (0.6mm x 25mm)	Disk	yes	23.5 IU/ml dry lithium heparin	200

## Pulsator® Plus Arterial Blood Sampling Kits

Pulsator® Plus 3 ml arterial blood sampling syringes offer numerous benefits for healthcare professionals and patients:

- Syringe design reduces the incidence of a venous fill
- Pulsating effect allows for precise positioning in arterial lumen
- Syringe can be easily aspirated during low blood pressure
- Packaged in sterile pouches; and all configurations include Filter-Pro® air bubble removal device

Pulsator® Plus 3 ml Arterial Blood Sampling Kits are available with a choice of configurations including:

- Heparin type (electrolyte-balanced dry lithium heparin or electrolyte-balanced liquid sodium heparin)
- Syringe with Luer lock connector

## Portex® Line Draw Plus Arterial Blood Sampling Kits

### Line Draw Plus Arterial Blood Sampling Kit



Product Code	Description	FilterPro®	Heparin	Units Per Case
4041E	1ml Luer Slip Aspirating Syringe	yes	23.5 IU/ml dry lithium heparin	200
4042E	3ml Luer Lock Aspirating Syringe	yes	23.5 IU/ml dry lithium heparin	200
4043E	3ml Luer Slip Aspirating Syringe	yes	23.5 IU/ml dry lithium heparin	200
4041LH	1ml Luer Slip Aspirating Syringe	yes	7 IU/ml dry lithium heparin	200
4042LH	3ml Luer Lock Aspirating Syringe	yes	7 IU/ml dry lithium heparin	200
4043LH	3ml Luer Slip Aspirating Syringe	yes	7 IU/ml dry lithium heparin	200
910/400/205	3ml Luer Slip Aspirating Syringe	yes	31 IU/ml electrolyte balanced liquid sodium heparin	100

## Portex® Line Draw Plus Arterial Blood Sampling Kits

Portex® Line Draw Plus aspirating syringes allows choosing between using a syringe with dry lithium heparin or a syringe using a liquid sodium heparin concentration for blood sampling directly from an arterial line.



## Hypodermic Needle-Pro® without syringe

Product Code	Description	OD/Length (mm)	Needle Hub Colour	Units Per Case
4280	18G x 1 1/2"	1,2 x 38	pink	800
4281	18G x 1"	1,2 x 25	pink	800
4282E	19G x 1 1/2"	1,1 x 38	cream	800
4283E	19G x 1"	1,1 x 25	cream	800
4284	20G x 1 1/2"	0,9 x 38	yellow	800
4285	20G x 1"	0,9 x 25	yellow	800
4286	21G x 1 1/2"	0,8 x 38	deep green	800
4287	21G x 1"	0,8 x 25	deep green	800
4288	22G x 1 1/2"	0,7 x 38	black	800
4289	22G x 1"	0,7 x 25	black	800
4290	23G x 1"	0,6 x 25	deep blue	800
4291	25G x 5/8"	0,5 x 16	orange	800
4292	25G x 1"	0,5 x 25	orange	800
4293	25G x 1 1/2"	0,5 x 38	orange	800
4294	23G x 1 1/2"	0,6 x 38	deep blue	800



## Small Gauge Hypodermic Needle-Pro® without syringe

Product Code	Description	OD/Length (mm)	Needle Hub Colour	Units Per Case
4320	25G x 5/8" needle with rotating Needle-Pro® device, for use with Luer Lock syringes	0,5 x 16	orange	800
4323	27G x 1/2" needle with rotating Needle-Pro® device, for use with Luer Lock syringes	0,4 x 13	grey	800
4324	30G x 1/2" needle with rotating Needle-Pro® device, for use with Luer Lock syringes	0,3 x 13	yellow	800

## Safety Devices For Hypodermic Injections

### Hypodermic Needle-Pro®

#### One simple device for most routine procedures

The administration of medications through hypodermic injections is one of the most common procedures performed in a clinical setting.

As a result it poses a high risk of needlestick injuries to healthcare workers. Clinicians responsible for administering injections are regularly exposed to contaminated needles. The risk of exposure to contaminated needles is greatest during the period immediately following an injection and before disposal.

In an effort to provide clinicians with a safer method of protecting contaminated needles, Smiths Medical introduced Hypodermic Needle-Pro® and Needle-Pro® devices. These devices are specifically designed to reduce the risk of needlestick during an injection procedure.

Using the one handed, one step activation procedure common to all Needle-Pro® devices, a clinician can safely and securely encapsulate the needle.

Hypodermic Needle-Pro® devices are available for a wide range of clinical applications involving hypodermic needles including:

- Medication delivery through syringe injection or pre-filled medication cartridge
- TB testing
- Immunisation
- Insulin injection
- Allergy testing and treatment
- Delivery of pain medication and local anaesthetics

Hypodermic Needle-Pro® devices are available in a wide range of needle gauge sizes and length, with or without syringe, resulting in ultimate convenience and flexibility.



## Hypodermic Needle-Pro® with pre-attached syringe

Product Code	Description	OD/Length (mm)	Needle Hub Colour	Syringe	Units Per Case
4211	25G x 1"	0,5 x 25	orange	1ml Luer slip	400
4230	20G x 1 1/2"	0,9 x 38	yellow	3ml Luer lock	400
4231	20G x 1"	0,9 x 25	yellow	3ml Luer lock	400
4232	21G x 1 1/2"	0,8 x 38	deep green	3ml Luer lock	400
4233	21G x 1"	0,8 x 25	deep green	3ml Luer lock	400
4234	22G x 1 1/2"	0,7 x 38	black	3ml Luer lock	400
4235	22G x 1"	0,7 x 25	black	3ml Luer lock	400
4236	23G x 1"	0,6 x 25	deep blue	3ml Luer lock	400
4237	25G x 5/8"	0,5 x 16	orange	3ml Luer lock	400
4238	25G x 1"	0,5 x 25	orange	3ml Luer lock	400
4250	20G x 1 1/2"	0,9 x 38	yellow	5ml Luer lock	400
4251	20G x 1"	0,9 x 25	yellow	5ml Luer lock	400
4252	21G x 1 1/2"	0,8 x 38	deep green	5ml Luer lock	400
4253	21G x 1"	0,8 x 25	deep green	5ml Luer lock	400
4254	22G x 1 1/2"	0,7 x 38	black	5ml Luer lock	400
4260	20G x 1 1/2"	0,9 x 38	yellow	10ml Luer lock	400
4261	20G x 1"	0,9 x 25	yellow	10ml Luer lock	400
4262	21G x 1 1/2"	0,8 x 38	deep green	10ml Luer lock	400



## Small Gauge Hypodermic Needle-Pro® with pre-attached syringe

Product Code	Description	OD/Length (mm)	Needle Hub Colour	Syringe	Units Per Case
4310	25G x 5/8" with rotating Needle-Pro®, 1ml Luer slip TB syringe	0,5 x 16	orange	1ml	400
4313	27G x 1/2" with rotating Needle-Pro®, 1ml Luer slip TB syringe	0,4 x 13	grey	1ml	400



### Hypodermic Needle-Pro®

- Available in needle gauge sizes 18G-30G and in needle length 13mm-38mm.
- 18G-25G devices compatible with both Luer slip and Luer lock syringes, ideal for intramuscular and subcutaneous injections.
- 25G-30G devices compatible with Luer slip syringes.
- The safety feature on 25G-30G devices completely rotates to facilitate intradermal injections and does not contribute additional dead space to standard needle/syringe injections.
- Needle hubs and product packaging are colour coded to simplify storage and selection.

### Hypodermic Needle-Pro® Devices with pre-attached Syringe

- Available in 1, 3, 5 and 10ml syringes with needle gauge sizes 20G-25G.
- 25G-27G needle pre-attached to a 1ml TB syringe and rotating Needle-Pro® devices.

- Ultimate in safety syringe convenience.
- Product packaging is colour coded to simplify storage and selection.

### Small Gauge Safety

Hypodermic Needle-Pro® devices available with 25G-27G needles were designed to allow complete rotation of the safety sheath. This feature makes them ideal for intradermal and subcutaneous injection because it enables clinicians to administer injections at a low angle to the skin.

The advanced design of this device does not contribute additional dead space to a standard syringe and needle combination, ensuring complete delivery of the intended dose. These devices simplify safety for common applications such as TB tests, immunisation and local anaesthesia delivery.



## Safety Devices for Insulin Injection

### Hypodermic Needle-Pro® Fixed Needle Insulin Syringe

Product Code	Description	OD/Length (mm)	Needle Hub Colour	Syringe	Units Per Case
4428-1	28G x 1/2"	0,36 x 13		1ml U-100	600
4429-1	29G x 1/2"	0,36 x 13		1ml U-100	600
4428-5	28G x 1/2"	0,36 x 13		0,5ml U-100	600
4429-5	29G x 1/2"	0,36 x 13		0,5ml U-100	600
4429-3	29G x 1/2"	0,36 x 13		0,3ml U-100	600

### Hypodermic Needle-Pro® Small Gauge Needle Protection Device with Rotating Needle Insulin Safety Syringe

Product Code	Description	OD/Length (mm)	Needle Hub Colour	Syringe	Units Per Case
4317	26G x 1/2"	0,45 x 13	brown	1ml U-100	400
4319	27G x 1/2"	0,5 x 13	grey	1ml U-100	400
4330	30G x 1/2"	0,3 x 13	yellow	1ml U-100	400

### Hypodermic Needle-Pro® for Safety Allergy Tray (fixed regular bevel needle)

Product Code	Description	OD/Length (mm)	Needle Hub Colour	Syringe	Units Per Case
4426-AT	26G x 1/2"	0,45 x 13		1ml TB	1000
4426-AT	26G x 3/8"	0,45 x 9.5		1ml TB	1000
4427-AT	27G x 1/2"	0,45 x 13		1ml TB	1000
4427-IDT	27G x 3/8"	0,45 x 9.5		1ml TB	1000

### Hypodermic Needle-Pro® Fixed Needle TB Syringe (fixed intradermal bevel needle)

Product Code	Description	OD/Length (mm)	Needle Hub Colour	Syringe	Units Per Case
4425-TB	25G x 5/8"	0,5 x 16		1ml TB	600
4426-TB	26G x 3/8"	0,45 x 9.5		1ml TB	600
4427-TB	27G x 1/2"	0,5x13		1ml TB	600



## Safety Devices for Insulin Injection

The Hypodermic Needle-Pro® device has been clinically accepted as an effective sharps safety device for over a decade.

Smiths Medical also offers the Hypodermic Needle-Pro® Insulin Syringe and Needle. This device is available with U-100 insulin syringes in both fixed and removable needle configuration.

### Fixed Needle Insulin Syringe

The Hypodermic Needle-Pro® Fixed Insulin Syringe utilises the familiar Needle-Pro® orange safety sheath which is integral to a fixed needle syringe. The sheath rotates for your convenience and makes visual confirmation of activation easy.

- 28G -13mm and 29G-13mm needle.
- U-100 insulin syringes available in 0.3ml, 0.5ml and 1.0ml syringes.
- Fixed needle and needle protection does not add dead space to the injection.
- Orange needle cap clinically indicates a U-100 insulin syringe.

## Detachable Needle Insulin Syringe

The Hypodermic Needle-Pro® with detachable needle allows clinicians to detach the needle from the syringe after drawing up insulin and activating the safety sheath. The safety sheath is activated in the same simple manner as the Hypodermic Needle-Pro® Fixed Insulin Syringe and other Needle-Pro® devices.

- Removable needles available in 26G, 27G and 30G, 13mm.
- U-100 Luer slip 1ml syringe.
- Removable needle allows use of a two needle injection technique.
- Packaging clearly indicates use for insulin administration only.

Smiths Medical also offers safety allergy trays for testing and immunology treatment. Trays are provided with 1ml TB syringe and fixed needle with either a regular bevel or intradermal bevel.



Colour Coded Hypodermic Needle- Pro® EDGE™ Safety Device

Product Code	Description	OD/Length (mm)	Needle Hub Colour	Units Per Case
402210	22G x 1"	0,7 x 25	black	1000
402310	23G x 1"	0,6 x 25	blue	1000
402510	25G x 1"	0,5 x 25	orange	1000
402558	25G x 5/8"	0,5 x 16	orange	1000

## Colour Coded Hypodermic Needle-Pro® EDGE™ Safety Device

Today's hospital directives demand accuracy and cost saving measures, as well as patient and healthcare worker safety, all within an increasingly fast-paced clinical environment.

Smiths Medical has responded to these needs by advancing its Hypodermic Needle-Pro® needle safety device to incorporate features that give the clinician an important edge when it comes to safety, convenience, and cost saving.

### Hypodermic Needle-Pro® EDGE™

- Available with 22G, 23G and 25G needles.
- The colour coded safety sheath allows rapid identification of needle gauge size.

### No added Dead Space

- Ensures accuracy of medication dosage.
- Safety device adds no dead space as compared to a standard syringe/needle injection.

### Bevel Orientation

- Bevel is fixed in the "up" position with the safety sheath at the 3 o'clock position.
- Arrow on sheath points to the direction of bevel position.



Fig 1



Fig 2



Fig 3

**GOES IN SHARP...  
...COMES OUT BLUNT**



## ACUVANCE® Plus Safety IV Catheter Straight Hub PUR

	Gauge	O.D mm	Length mm	Flowrate ml/min	Obturator	Product Codes
●	14G	2.2	52	314		<b>3358</b>
●	16G	1.8	52	208		<b>3352</b>
●	16G	1.8	32	215		<b>3342</b>
●	18G	1.3	45	100	4218	<b>3354</b>
●	18G	1.3	32	110	4619	<b>3355</b>
●	20G	1.1	32	63	4220	<b>3356</b>
●	20G	1.1	25	65		<b>3357</b>
●	22G	0.9	25	38	4622	<b>3350</b>
●	24G	0.8	16	24	4524	<b>3353</b>

## ACUVANCE® Plus W Safety IV Catheter Winged PUR

	Gauge	O.D mm	Length mm	Flowrate ml/min	Obturator	Product Codes
●	18G	1.4	32	110		<b>3375</b>
●	20G	1.2	32	63		<b>3376</b>
●	22G	1.0	25	38		<b>3370</b>
●	24G	0.8	16	24		<b>3373</b>

## PROTECTIV® ACUVANCE® 2 Safety IV Catheter Injection Port PUR

	Gauge	O.D mm	Length mm	Flowrate ml/min	Obturator	Product Codes
●	14G	2.2	45	315	4514	<b>1714</b>
●	16G	1.8	45	210	4516	<b>1716</b>
●	18G	1.3	45	100	4518	<b>1718</b>
●	18G	1.3	32	110	4519	<b>1719</b>
●	20G	1.1	32	65	4520	<b>1720</b>
●	22G	0.9	25	38	4522	<b>1722</b>
●	22G	0.9	25	38	4522	<b>1722</b>

### Safety I.V. Catheters

Needlesticks still pose the greatest occupational risk for transmitting HIV and other blood borne pathogens. I.V. catheter needles ( hollow bore, blood filled needles) are associated with the greatest incidence of high-risk needlestick injuries.<sup>1,2</sup>

Smiths Medical offers 2 Safety I.V. Catheters, PROTECTIV® ACUVANCE® and PROTECTIV®, designed to reduce percutaneous injuries. Both catheters feature a thin wall design that optimises flow rate potential for each gauge size, allowing the clinician to choose a smaller catheter without compromising on flow rates.

The precision beveled catheter tip and optimally engineered needle ensures smooth insertion, resulting in less patient trauma.

PROTECTIV® ACUVANCE® Safety IV Catheter combines needlestick protection with ease of use.

PROTECTIV® ACUVANCE® Catheter insertion requires minimal change in technique and no extra steps.

Use of Safety I.V. Catheters has been shown in studies to reduce the rate of needlesticks by as much as 84% versus conventional devices.<sup>2</sup>

Fig 1. In accordance with hospital policy, the catheter is inserted and observed for flashback.

Fig 2. Advancing the catheter off the needle has "passively" activated the internal blunted, whilst still inside the patient.

Fig 3. When the needle is removed, the blunt is already activated, and locked in place.



Fig 1



Fig 2



Fig 3

## PROTECTIV®

PROTECTIV® Safety I.V. Catheter features a catheter protection system proven to be easy to use and effective, with use of over 260 million catheters in more than 2700 hospitals worldwide.

The effectiveness of the safety system has been proven to reduce catheter related injuries by 84%.<sup>2</sup>







The user friendly design of the PROTECTIV® Catheter allows for a one-handed insertion technique, and controlled catheter placement.

Fig 1. In accordance with hospital policy, the catheter is inserted and observed for flashback.







Fig 2. The 'Push-off tab' behind the catheter hub is used to advance the catheter off the needle.

Fig 3. Once fully retracted, the needle is completely encapsulated in the protective casing, which is confirmed by an audible "click".







### PROTECTIV® Safety IV Catheter Straight Hub FEP

	Gauge	O.D mm	Length mm	Flowrate ml/min	Obturator	Product Codes
	14G	2.2	32	325	P214	<b>3048</b>
	16G	1.8	32	215	P216	<b>3042</b>
	18G	1.3	32	110	4219	<b>3055</b>
	20G	1.1	32	63	4220	<b>3056</b>
	22G	0.9	25	38	4222	<b>3050</b>
	24G	0.7	19	24	4224	<b>3053</b>







### PROTECTIV® W Safety IV Catheter Winged FEP

	Gauge	O.D mm	Length mm	Flowrate ml/min	Obturator	Product Codes
	14G	2.2	30	325	P214	<b>3078</b>
	16G	1.8	30	215	P216	<b>3072</b>
	18G	1.3	30	110	4219	<b>3075</b>
	20G	1.1	30	63	4220	<b>3076</b>
	22G	0.9	24	38	4222	<b>3070</b>
	24G	0.7	15	24	4224	<b>3073</b>

### PROTECTIV® Plus Safety IV Catheter Straight Hub PUR

	Gauge	O.D mm	Length mm	Flowrate ml/min	Obturator	Product Codes
	14G	2.2	32	325	P214	<b>3068</b>
	16G	1.8	32	215	P216	<b>3062</b>
	18G	1.3	32	110	4219	<b>3065</b>
	20G	1.1	32	63	4220	<b>3066</b>
	22G	0.9	25	38	4222	<b>3060</b>
	24G	0.7	19	24	4224	<b>3063</b>

### PROTECTIV® Plus W Safety IV Catheter Winged PUR

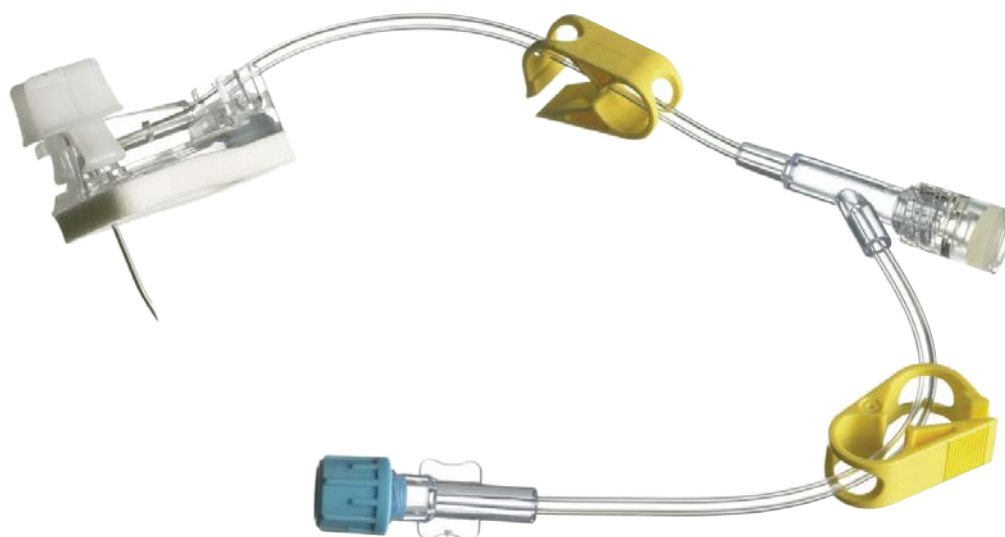
	Gauge	O.D mm	Length mm	Flowrate ml/min	Obturator	Product Codes
	14G	2.2	30	325	P214	<b>3088</b>
	16G	1.8	30	215	P216	<b>3082</b>
	18G	1.3	30	110	4219	<b>3085</b>
	20G	1.1	30	63	4220	<b>3086</b>
	22G	0.9	24	38	4222	<b>3080</b>
	24G	0.7	15	24	4224	<b>3083</b>

## References

1. Ippolito G et al. Prevention Management and Chemoprophylaxis of Occupational Exposure to HIV International Health Care Worker Safety Center and Advances in Exposure Prevention, University of Virginia 1997.
2. Advances in Exposure Prevention 1998; 3(4): 37-48.

## GRIPPER PLUS® Safety Needles

Gauge	Length (Inches)	Length (mm)	GRIPPER PLUS® With Y site	GRIPPER PLUS® Without Y site	Qty
22G	1½"	32	21-2863-24	21-2761-24	12 per box
22G	1"	25	21-2862-24	21-2760-24	12 per box
22G	¾"	19	21-2861-24	21-2766-24	12 per box
22G	⅝"	16	21-2860-24	21-2770-24	12 per box
20G	1½"	32	21-2867-24	21-2763-24	12 per box
20G	1"	25	21-2866-24	21-2762-24	12 per box
20G	¾"	19	21-2865-24	21-2767-24	12 per box
20G	⅝"	16	21-2864-24	21-2769-24	12 per box
19G	1½"	32	21-2870-24	21-2765-24	12 per box
19G	1"	25	21-2869-24	21-2764-24	12 per box
19G	¾"	19	21-2868-24	21-2768-24	12 per box



### GRIPPER PLUS®

Effective needlestick protection is only part of the GRIPPER PLUS® safety needle story, our exciting new needle was created with your input, and the new GRIPPER PLUS® safety needle delivers on all counts.

GRIPPER PLUS® provides more confident needle placement for implanted access systems.

GRIPPER PLUS® also provides

- Audible and visible confirmation of safety mechanism.
- Minimal change to current technique.
- Colour coded clamps for ease of needle gauge identification.
- Cushioned needle platform for greater patient comfort.
- Kink-resistant TOTM tubing available with or without Y-site.
- Fully threaded Luer lock connectors fits all standard accessories.
- Removable slit septum cap offers needleless access flexibility.
- Non-coring, non-siliconised needle for secure needle retention.





Fig 1



Fig 2



Fig 3

- Fig 1. By placing fingers on each side of the base, the needle is stabilised. With the other hand, a finger is placed on the tip of the safety arm.
- Fig 2. The safety arm is lifted straight back.
- Fig 3. The safety arm is fully lifted until it "clicks" into locked position.



## STATLOCK® Sutureless Catheter Securement Device

Product Code	Description	Per Box
<b>MXA999XCV PLUS-A</b>	STATLOCK® CV PLUS Adult	25
<b>MXA999XCV PLUS-P</b>	STATLOCK® CV PLUS Paediatric	25

## Point-Lok® Needle Protection Device

Product Code	Description	Units Per Case
<b>4139</b>	Point-Lok® Needle Protection Device - non-sterile bulk pack 100	1000
<b>4244</b>	Point-Lok® Needle Protection Device - 5 each per sterile pack	500

### STATLOCK® Sutureless Catheter Securement Device

STATLOCK® CV Plus is an adhesive dressing, providing suture-free securement of central venous catheters with its patented “post-and-clamp” combination.

The targeted securement site is prepared with alcohol to cleanse and degrease the skin. The catheter wings are slipped over the “post-and-clamp” and secured, and then the dressing is applied to the skin.

STATLOCK® adhesive pad is removed by stroking the undersurface of the pad with an alcohol swab, to DISSOLVE the adhesive and allow the pad to come away from the skin.

STATLOCK® CV Plus can remain in place for up to 7 days.

STATLOCK® CV Plus is available in adult and paediatric (Teddy) pad configurations.

### Point-Lok®

The Point-Lok® device provides an easy-to-use solution for needlestick injuries. With its intention to provide needlestick safety between point-of-use and point-of-disposal, Point-Lok® provides effective protection for needles from 16G-30G that do not have an integral sharps safety injury protection device. The Point-Lok® device is transportable, fitting easily in a coat pocket.

Most importantly, the Point-Lok® device requires only a single handed, single step operation that is intuitive.



### Summary

- Needlesticks pose the greatest occupational risk for transmitting HIV and other blood borne pathogens.<sup>1</sup>
- HIV is the pathogen which evokes the most emotion with approximately 100 healthcare workers in Europe having occupationally acquired the disease. However, Hepatitis B, and increasingly Hepatitis C, pose a threat to larger number of healthcare workers, due to their higher prevalence and greater infectivity.
- Cost effectiveness evaluations of safety devices will enable comparisons between the cost of implementation and the potential cost savings. These savings can be achieved by the reduction of needlestick injuries, and associated costs of post exposure medical evaluation.
- Resources should be directed at replacing those devices which constitute the highest risk of transmitting blood borne diseases.

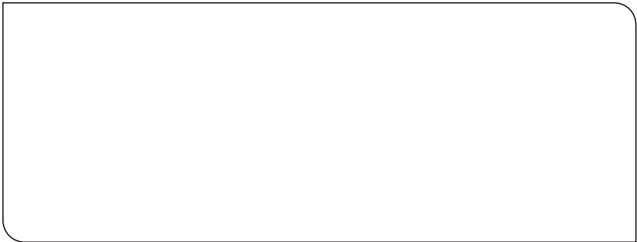
### Reference

1. Ippolito G et al. Prevention Management and Chemoprophylaxis of Occupational Exposure to HIV International Health Care Worker Safety Center and Advances in Exposure Prevention, University of Virginia 1997.

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**Smiths Medical International Ltd**

Hythe, Kent CT21 6JL UK  
Tel: +44 (0)1303 260551 Fax: +44 (0)1303 266761  
[www.smiths-medical.com](http://www.smiths-medical.com)



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