

# Vasofix<sup>®</sup> Safety

1 billion times protection



Vascular Access

# The B. Braun Vasofix® Safety IV Catheter

## Reduces Needlestick Injuries

### Passive Safety Technology – Established worldwide:

B. Braun has minimized the risk of accidental needlestick injuries globally with more than 1 billion B. Braun Safety IV Catheters in use.

- 1 000 000 000 times protection against sharps injuries
- 1 000 000 000 times protection against infections like HIV
- 1 000 000 000 times protection against fear and uncertainty

Passive Safety Technology is incorporated into the Vasofix® Safety IV Catheter via an integrated fully automatic Safety Shield which protects the needle tip to prevent needlestick injuries.

A recent study confirmed that passive safety engineered devices create significantly better protection for healthcare workers than those that require the user to activate the safety feature.<sup>6</sup>

In fact, passive safety devices were associated with the lowest needlestick injury rate and are most effective for needlestick injury prevention.<sup>6</sup>

### The Safety Shield of Vasofix® Safety

- Requires no user activation – no button, twists or clicks
- Automatically covers needle tip upon needle withdrawal
- Cannot be bypassed
- Eliminates risk of inadvertent activation during handling
- Stays in place through disposal

**The Passive Safety Shield protects the needle tip without any additional steps.**

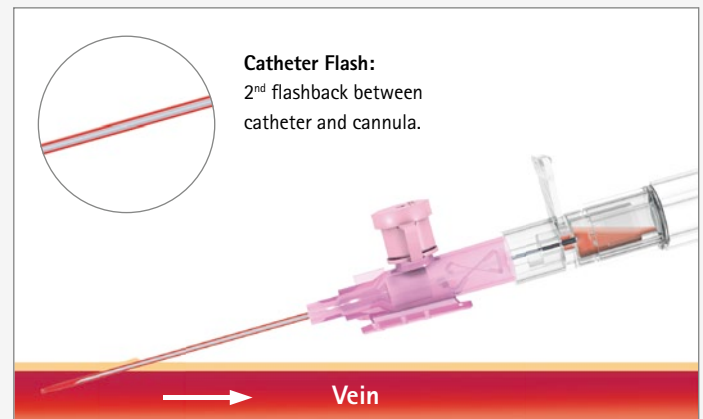
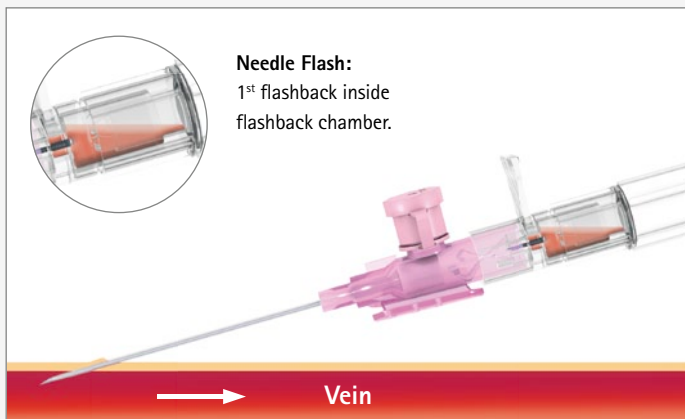


## Improves First Stick Success

### Double Flashback Technology:

- Helps ensure first stick success and patient comfort through quick visualization of both needle and catheter flashback
- Promotes best practices by reducing the need to remove and reinsert the needle in order to confirm catheter placement, as may occur with other notched needle/crimped needle systems

Double Flashback Technology clearly indicates correct catheter placement and the success of the venipuncture. This safe confirmation maximizes your confidence!



- **Needle Flash:** 1<sup>st</sup> flashback confirms the needle is in the vein
- **Catheter Flash:** 2<sup>nd</sup> flashback confirms the catheter is in the vein

### User benefits:

- Easy puncture at a wide range of angles
- Minimum effort of catheter insertion
- Self-activating Safety Shield – covers needle tip automatically after use
- Simplicity – looks and feels like a standard cannula

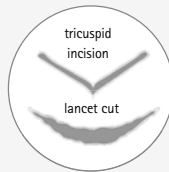
## Ensures Best Practice

Every product detail is designed for Best Practice:

**Easy to use:**  
No extra steps needed to prepare the catheter for insertion

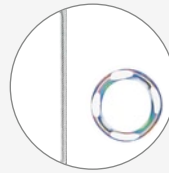


**Universal Back Cut Bevel**



### Universal Back Cut Bevel

- Wide choice of insertion angles aids in accessing difficult veins
- Super-sharp needle bevel offers a reduction in pain due to lower forces
- Creates a V-shaped, tricuspid incision versus a lancet cut for easier catheter insertion, less tissue tearing, faster healing and reduced risk of infection<sup>7</sup>



**Catheter Material**

### Catheter Material

- Assures easy and smooth catheter advancement
- Available in polyurethane (PUR) for softer, more comfortable, longer in-dwelling performance and kink resistance, or FEP with firmer construction for arterial access. All are PVC-, DEHP- and Latex-free
- Radiopaque stripes for good visibility under X-rays



**Flexible Wings**

### Flexible Wings

- Moderate wing size for easy and stable fixation
- Flexible wings adapt to skin surface for highest patient comfort
- Holes for ventilation



**Hygienic Injection Port**

### Hygienic Injection Port

- Quick and easy injection without interruption of infusion
- Needle-free injection eliminates any risk of a needlestick injury
- Grip edges for an easy opening
- Possibility to close-off injection port to inhibit patient's access by turning the protective cap 180 degrees



**Flashback Chamber**

### Flashback Chamber

- Transparent flashback chamber allows quick visualization of blood
- Rapid confirmation of vein access
- Ergonomic grip design for a comfortable handling



**Removable Flash Plug & Removable Closing Cone**

### Removable Flash Plug & Removable Closing Cone

- Hydrophobic membrane avoids blood exposure
- Removable Flash Plug permits attachment of a syringe for aspiration and other special procedures
- Removable Closing Cone allows to directly close off the catheter with one hand



# Prevents the risk ...

## ... of accidental injuries

Have you or a colleague ever been stuck by a contaminated needle? The chances are high that you have!

At an average hospital, workers suffer from approximately 30 needlestick injuries per 100 hospital beds per year.<sup>2</sup>

Most common causes of sharp injuries are unexpected patient reactions, shortage of staff, rushing, distraction, collision with another healthcare worker or passing equipment.<sup>3,4</sup>

These factors cannot be controlled. Accidental needlestick injuries can happen to anyone!

These injuries may cause a number of serious and potentially fatal transmissions of hepatitis B or C viruses (HBV, HCV), or human immunodeficiency virus (HIV).<sup>4</sup>

In fact, nearly 90,000 healthcare workers worldwide contract blood-borne infections annually (HBV, HCV, HIV).<sup>5</sup>

Safety devices reduce the risk of a needlestick injury by 22%–100%.<sup>6</sup>

### Consider – not all safety devices can protect you!

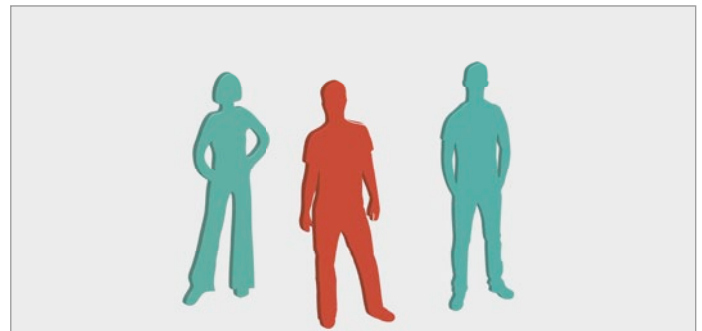
Main reasons for a needlestick injury with safety devices:<sup>6</sup>

- Safety mechanism has to be activated by the user
- Risky activation procedure
- Incomplete activation
- User noncompliance

These risks can be prevented by using a Passive Safety device such as Vasofix® Safety

### Risk of being infected from a contaminated needlestick injury<sup>1</sup>

See the statistics: Blood-borne pathogen transmission.



Hepatitis B – 1 in 3



Hepatitis C – 1 in 30



HIV – 1 in 300

# Product Specifications

## Easy Identification

The packaging is equipped with a clearly visible color code for a fast and easy identification of the suitable gauge size and quick differentiation between product variations.



| Vasofix® Safety Article Code EU |             | Gauge | Catheter length (inch) | Catheter length (mm) | Catheter ø (mm) | Flow Rate (ml/min) | Flow Rate (ml/hour) | Stylet/Mandrin Code No. |
|---------------------------------|-------------|-------|------------------------|----------------------|-----------------|--------------------|---------------------|-------------------------|
| FEP                             | PUR         |       |                        |                      |                 |                    |                     |                         |
| -                               | 4269071S-01 | 24    | ¾                      | 19                   | 0.7             | 22                 | 1320                | -                       |
| 4268091S-01                     | 4269098S-01 | 22    | 1                      | 25                   | 0.9             | 36                 | 2160                | 4215095                 |
| -                               | 4269217S-01 | 20    | 1                      | 25                   | 1.1             | 65                 | 3900                | 4215117                 |
| 4268113S-01                     | 4269110S-01 | 20    | 1¼                     | 33                   | 1.1             | 61                 | 3660                | 4219104                 |
| 4268334S-01                     | 4269330S-01 | 18    | 1¼                     | 33                   | 1.3             | 103                | 6180                | 4219139                 |
| 4268130S-01                     | 4269136S-01 | 18    | 1¾                     | 45                   | 1.3             | 96                 | 5760                | 4219120                 |
| 4268156S-01                     | 4269152S-01 | 17    | 1¾                     | 45                   | 1.5             | 128                | 7680                | 4215150                 |
| 4268172S-01                     | 4269179S-01 | 16    | 2                      | 50                   | 1.7             | 196                | 11760               | 4219171                 |
| 4268210S-01                     | 4269225S-01 | 14    | 2                      | 50                   | 2.2             | 343                | 20580               | 4219201                 |

Sales unit: 200 pcs. (4 boxes x 50 pcs.)

1. Tuma S and Sepkowitz KA. Efficacy of Safety-Engineered Device Implementation in the Prevention of Percutaneous Injuries: A Review of Published Studies. Clin Infect Dis 2006; 42:1159-70.
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4. CDC. Workbook for Designing, Implementing, and Evaluating a Sharps Injury Prevention Program. 2008; [www.cdc.gov/sharpsafety/pdf/sharpsworkbook\\_2008.pdf](http://www.cdc.gov/sharpsafety/pdf/sharpsworkbook_2008.pdf).

5. Rapiti E, Prüss-Üstün A, Hutin Y. Assessing the burden of disease from sharp injuries on health-care workers at national and local levels. WHO: Environmental Burden of Disease Series 2005; 11:1-50.
6. Tosini W, et al. Needlestick Injury Rates According to Different Types of Safety-Engineered Devices: Results of a French Multicenter Study. Infect Control and Hosp Epidemiol April 2010; 31:402-407.
7. Suzuki T et al. Comparison of Penetration Force and Catheter Tip Damage of Intravenous Catheters among Different Catheter Tip Designs. Circulation Control 2003; 24:39-45.