

A needlefree neutral displacement connector featuring ICU Medical's clinically-differentiated Clave infection control technology with a bidirectional valve designed to prevent fluid displacement and help minimise occlusions



The Clave Neutron needlefree neutral displacement connector is designed to reduce reflux to help

Minimise Occlusions

Maintaining catheter patency and minimising occlusions can be important steps in your efforts to enhance patient safety and help reduce costs.

Despite your efforts, central line occlusions—which are frequently caused by blood reflux—remain a significant issue that can result in delays in critical patient care, increased risk of infection, and increased healthcare costs. That's why reducing the risk of catheter occlusions may help you decrease the need for expensive declotting agents, such as t-PA, and reduce the clinical costs associated with managing catheter occlusions.







Helping reduce catheter occlusions with the Clave Neutron needlefree neutral displacement connector may provide real-time clinical benefits.



Avoid Delays in Critical Patient Care

Clave Neutron may help avoid delays in therapy of critical intravenous medications (e.g., antibiotics and oncolytics), nutritional support, and blood products.



Avoid Patient Discomfort and Pain

Clave Neutron may help avoid patient discomfort and pain caused by unnecessary needlesticks, catheter restarts, and manipulation of the IV site.



Avoid Unnecessary Costs

Clave Neutron may help minimise unnecessary costs that add up when treating an occlusion.



Help Reduce Risk of Infection

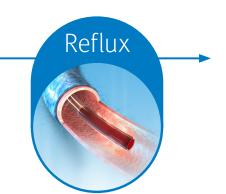
Clave Neutron may help reduce the risk of infection by preventing thrombosis and minimising IV line manipulation.

Designed to prevent fluid displacement resulting from the four known causes of displacement

Reflux of blood into the catheter has been shown to contribute to biofilm formation and catheter occlusion.

Internal Causes

- > Patient Vascular Pressure Changes Caused by:
 - Coughing
- > Movement
- > Sneezing
- Crying



External Causes

- Connection and Disconnection of a Luer
- > IV Bag Running Dry or an Infusion Pump Stopping
- > Syringe Plunger Rebound



Advanced Anti-Reflux Technology

Because of an innovative design incorporating a proprietary, bi-directional silicone valve and bellows feature to help prevent reflux, Clave Neutron helps maintain catheter patency during the times traditional connectors have been shown to occlude most often.

γ Valve During Aspiration



γ Valve During Infusion



Valve With No Fluid Flow



Valve During Reflux Challenge ◦

Unlike other anti-reflux valves, Clave Neutron's proprietary technology provides the unique ability to absorb and physically compensate for pressure variations that typically result in blood reflux into a catheter.



Add a Splash of Colour

For Quick and Easy Line Identification.

Customise Neutron with a variety of colour-coded rings to help you improve IV line management and avoid medication mix-ups.

Colour-coded needlefree IV connector rings designed to help reinforce your facilities line-identification initiatives:

- Enhance patient safety and reduce the possibility of medication errors
- Quickly access the proper infusion port in emergency situations
- Improve connector change interval compliance with better needlefree connector identification



To learn more about ICU Medical's Clave Neutron neutral displacement connector, please call +44 (0) 203 357 9400 or visit www.icumed.com

Technical Specifications	
Residual Volume	0.1 mL
Flow Rate at Gravity	100 mL/minute
Blood Compatibility	Yes
MRI Compatibility	No Metal Components
High Pressure Compatibility	10 mL/second

Drug Compatibility	
Alcohol	Yes
Lipids	Yes
Chemotherapy	Yes



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icumedia human connections

The product complies with current legislation and has the corresponding CE marking. For additional information, warnings and /or safety precautions, refer to the manufacturer's Instructions for Use.