Closed port stopcock technology that provides a built-in barrier to bacterial ingress.

NanoClave™ Stopcock
Closed Connection System

A closed connection system designed to reduce the risk of bacterial contamination and help you improve patient outcomes.
The NanoClave stopcock creates a needlefree mechanically and microbiologically closed system to help prevent bacteria transfer and contamination, and its clear housing and minimal residual volume help increase the efficiency of connector flushing.  

The Problem – IV Therapy Complications

The open hub of a traditional stopcock is often a portal for bacterial entry. Contaminated stopcocks are associated with an increase in nosocomial infections and mortality rates. In less than 24 hours, 63% of stopcocks become infected.

The Solution – NanoClave Stopcock

The port of the NanoClave Stopcock automatically closes with removal of the male luer without having to use caps to avoid leakage or contamination. This closed system helps reduce rates of microbial colonization in catheter hubs.

The NanoClave Stopcock is available individually or in standard two and three gang manifold configurations, as well as custom designed IV sets and manifolds.

The Problem – IV Therapy Complications

The open hub of a traditional stopcock is often a portal for bacterial entry. Contaminated stopcocks are associated with an increase in nosocomial infections and mortality rates. In less than 24 hours, 63% of stopcocks become infected.

Features:

- Clear housing allows for visualization of the internal fluid path upon flushing the connector
- Closed port with stopcock functionality
- Flat split-septum seal as noted in the CDC guidelines as a preferred design feature
- Eliminates the need for cap usage in closing ports before and after blood sampling
- Effectively clears blood and blood residual with low flush volumes
- Applicable for all adult and pediatric patients
- Available individually or in custom-designed IV sets

Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residual Volume</td>
<td>0.02 mL</td>
</tr>
<tr>
<td>Flow Rate through the NanoClave Side Port</td>
<td>125 mL/minute</td>
</tr>
<tr>
<td>Flow Rate through the Stopcock Fluid Channel</td>
<td>350 mL/minute</td>
</tr>
</tbody>
</table>

Configurations

- **AC100** NanoClave 4-Way Stopcock with Rotating Luer
- **AC200** 2 Gang 4-Way NanoClave Stopcock Manifold with Rotating Luer
- **AC300** 3 Gang 4-Way NanoClave Stopcock Manifold with Rotating Luer

References:

1. Ryder M, RN, PhD. Bacterial transfer through needlefree connectors: Comparison of nine different devices. Poster presented at the Annual Society for Healthcare Epidemiology of America (SHEA) conference 2007; Abstract 412.