nPulse™ Valve Platform

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The nPulse Valve Platform of needle-free connectors for infusion therapy is designed to complement best clinical practices to reduce the risk of catheter-related bloodstream infections (CRBSI), and reflux-induced catheter occlusions.[1-5]

The nPulse platform has the lowest measured displacement and blood reflux of market leading valves.[3] It features neutral fluid displacement at both Luer connection or disconnection to help reduce reflux-related occlusions.[5] Equally important is maintaining the integrity of the septum using the self-opening split septum (SOSS) design, which helps protect the septum plane from abrasion unlike spike platforms.

- Self-opening split septum (SOSS) results in no abrasion to sealed septum plane[3,4]
- Flat, smooth, swabable surface promotes easy and complete cleaning[3,4]
- Linear fluid path allows for easy blood clearing[5]
- Lowest measured displacement and blood reflux of market leading valves[5]
- Defends against microbial ingress[2] with dual-seal design
- Low priming volume allows for lower flush volumes
- Eliminates clinician clamping to control valve-induced reflux[4]

TECHNICAL SPECIFICATIONS

- **Priming Volume:** <0.1 ml
- **Functional Actuations:** 200
- **High-Pressure Rated:** 325 psi
- **Flow Rate at Gravity:** 5 l/hr
  With the same test method, the flow rate through the ICU Medical MicroClave® was 5 l/hr.

MATERIAL COMPATIBILITY

- Blood
- Alcohol
- Lipids
- Chlorhexidine Gluconate
- Sterilization: EtO, Gamma

MANUFACTURING

- ISO 13485 Certified
- FDA Registered
- ISO Class 8 Cleanroom Manufacturing

COMMERCIAL AVAILABILITY

- Bulk, non-sterile
- Packaged, Sterile (EtO)[6]

1. Jarvis W., MD. Choosing the Best Design for Intravenous Needleless Connectors to Prevent Bloodstream Infections. Infection Control Today, August 2010 (www.infectioncontroltoday.com/infusion-vascular-access/choosing-best-design-intravenous-needleless-connectors-prevent-bloodstream)
2. Ryder M, RN, PhD. Bacterial transfer through needle-free connectors: Comparison of nine different devices. Poster presented at the Annual Society for Healthcare Epidemiology of America (SHEA) conference 2007, Abstract 412.
3. Guideline for the Prevention of Intravascular Catheter-Related Bloodstream Infections, 2011 (www.cdc.gov/hicpac/pdf/guidelines/bsi-guidelines-2011.pdf)
4. FDA Medical Device Safety Alert, July 28, 2010: Letter to Infection Control Practitioners Regarding Positive Displacement Needleless Connectors
5. Data on file at NP Medical. Competitive Product Assessment, January 2012
6. Packaged Sterile - Rx Only. For safe and proper use of this device, refer to the directions for use.

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