





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.<sup>5</sup> 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<sup>3,4</sup>



Flat, smooth, swabable surface promotes easy and complete cleaning3,4



Linear fluid path allows for easy blood clearing<sup>5</sup>



Lowest measured displacement and blood reflux of market leading valves<sup>5</sup>



Defends against microbial ingress<sup>2</sup> with dual-seal design



Low priming volume allows for lower flush volumes



Eliminates clinician clamping to control valve-induced reflux4



<sup>2.</sup> 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.

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## **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

 $<sup>3. \</sup> Guideline for the Prevention of Intravascular Catheter-Related Bloodstream Infections, 2011 \\ (www.cdc.gov/hicpac/pdf/guidelines/bsi-guidelines-2011.pdf)$ 

<sup>4.</sup> FDA Medical Device Safety Alert, July 28, 2010; Letter to Infection Control Practitioners Regarding Positive Displacement Needleless Connectors

<sup>5.</sup> Data on file at NP Medical. Competitive Product Assessment, January 2012

<sup>6.</sup> Packaged Sterile - Rx Only. For safe and proper use of this device, refer to the directions for use