



Medical

## Posidyne® NEO Intravenous Filter Set



### *Neonatal air-eliminating filter set for 96-hour bacterial and endotoxin retention*

- ▶ **0.2 µm Posidyne Membrane** – Provides documented 96-hour bacterial and inadvertent bacteria-associated endotoxin retention for patient protection
- ▶ **Slim, low-profile housing design** – Provides low hold-up volume
- ▶ **Surfactant-free hydrophilic Posidyne membrane** – Permits easy priming
- ▶ **Small, round housing** – Easy to secure and comfortable for the patient
- ▶ **Guideline compliance** – Meets INS,<sup>1</sup> NAVAN,<sup>2</sup> ASPEN,<sup>3</sup> and FDA<sup>4</sup> guidelines

## Product Description

The Posidyne NEO Intravenous Filter Set features the 0.2 µm Posidyne NEO air-eliminating filter. The ultra low filter volume enables rapid delivery of bolus medication and minimum fluid hold-up. The 0.2 µm Posidyne membrane offers patient protection against particles, microbes, associated endotoxin, and entrained air.

## Specifications

### Usage

Single patient use; 96-hour maximum use

### Filter Media

0.2 µm hydrophilic Posidyne membrane provides phthalate-free fluid pathway.

### Sterility

Sterile and non-pyrogenic

### Maximum Working Pressure

30 psi

### Priming Volume

0.4 mL

### Hold-Up Volume

< 0.2 mL

## Indications for Use

Inadvertent contamination of intravenous infusions can have serious consequences:

- **Particulate Contamination** – Arises from a variety of sources, intrinsically in infusate and equipment, and extrinsically due to manipulations. Studies have demonstrated that particles may cause phlebitis on peripheral infusion lines and may have serious systemic effects,<sup>5</sup> damaging the lung by irritation of endothelium and by deposition in microvasculature.<sup>6</sup>
- **Entrained Air** – Results from degassing of solutions, incomplete priming, or with disconnection. Entrained air is especially problematic on central lines, leading to air emboli.<sup>7</sup>
- **Microbial Contamination** – IV administration systems may become contaminated inadvertently due to manipulations.<sup>8</sup> Some bacteria can grow rapidly in infusion fluids, increasing the infection risk.<sup>9,10</sup>
- **Associated Endotoxin** – Endotoxin has serious effects on the inflammatory, cardiovascular, pulmonary, and coagulation systems.<sup>11</sup> It is released by Gram-negative bacteria and has been shown to be able to penetrate conventional IV filters.<sup>12</sup> Only filters that retain associated endotoxin can be safely used for more than 24 hours.<sup>13</sup>

## Ordering Information (U.S. and Europe)

### USA

Part Number	Description	Pkg
NEO96	Posidyne NEO Intravenous Filter Set with ultra-microbore tubing & luer lock adapters	40/case
NEO96NY	Posidyne NEO Intravenous Filter Set with ultra-microbore tubing, needleless 'Y' site, & luer lock adapters	40/case

### Europe

Part Number	Description	Pkg
NEO96E	Posidyne NEO Intravenous Filter Set with ultra-microbore tubing, luer lock adapters, 70 mm downstream extension, & side clamp	50/case
NEO96LE	Posidyne NEO Intravenous Filter Set with ultra-microbore tubing, luer lock adapters, 250 mm downstream extension, & side clamp	50/case
NEO96NYE	Posidyne NEO Intravenous Filter Set with ultra-microbore tubing, needleless access Y-site, 100 mm downstream extension, & side clamp	50/case

## References

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