Engineered for Life

Smart Port® High-Performance Titanium & Plastic Power-Injectable Ports are indicated up to 5mL/sec and 300 psi and are MRI-conditional—3 Tesla.

**Standard CT**
Designed with a Vortex® chamber for improved fluid dynamics

- Blue boot strain-relief mechanism allows for placement flexibility and protects against catheter kinking
- Silicone-filled suture holes available for ease of explants
- Atraumatic radiopaque tip

Fluoromax® radiopaque catheter silicone and polyurethane options

- Low-Profile CT
  6.6F catheter reduces the risk of thrombosis

- Mini CT
  Smallest profile titanium CT-rated port indicated for chest or peripheral placement

- Plastic CT
  Lightweight design available in 6F and 8F
The Vortex Technology Difference

Reduce chamber occlusions.
Increase nursing efficiency.
Reduce overall interventions.

**Superior Fluid Dynamics**
compared to conventional ports.

**Round Chamber**
allows fluid to reach all surfaces in the chamber, helping eliminate dead spaces, resist sludge build-up, and reduce occlusions.

**Tangential Outlet**
helps create a flushing action within the port to hyper cleanse the entire chamber leading to a reduced rate of occlusions.

Identifying a Smart Port Power-Injectable Port

Smart Port power-injectable ports can be identified by the Smart Angle* technology on the CT, CT Low-Profile, and Plastic CT models. The CT engraving on all models can be identified through chest x-ray or CT Scout Scan. Each Smart Port patient receives an education packet—including an information booklet, ID card, key ring card and ID bracelet.

Vortex demonstrated
73% fewer port occlusions
69% fewer secondary interventions

Use of Vortex port technology results in
$1,224 average savings per patient over conventional ports.

Safe Sheath Ultra Lite

Valved, peel-away sheath

- Provides for effortless access for port insertion
- Decreased risk of blood loss and air embolism
- Ergonomically designed, easy-splitting break away hub and positive locking connector
- Available in select Smart Port kits

A comparison of conventional ports vs. Vortex Technology chambered ports shows a clear advantage.¹

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¹ Stevens B, Barton SE, Brechbill M, et. al. A Randomized, Prospective Trial of Conventional Vascular Ports vs. The Vortex “Clear-Flow” Reservoir Port in Adult Oncology Patients. JVAD 2000; (Summer).
² Third party verification by Pinnacle Healthcare Management.
For power injection of contrast media, maximum recommended infusion rate is 5 mL/sec. For power injection of contrast media, the maximum recommended infusion rate is 5 mL/s with 19G or 20G non-coring power injectable needles. For power injection of contrast media, the maximum recommended infusion rate is 5 mL/s with 19G or 20G non-coring power injectable needles.

**INDICATIONS FOR USE:** Smart Port Plastic ports are indicated for patients who require long-term access to the central venous system for blood specimen withdrawal and administration of fluids including but not limited to hydration fluids, chemotherapy, analgesics, nutritional therapy and blood products, as well as the administration and adequate removal of nuclear medicine. When used with power injectable needles, the ports are indicated for power injection of contrast media. For power injection of contrast media, the maximum recommended infusion rate is 5 mL/s with 19G or 20G non-coring power injectable needles or 2 mL/s with a 22G non-coring power injectable needle.

**CONTRAINDICATIONS:**
- Presence of infection, bacteremia, or septicemia.
- Past irradiation of prospective insertion site.
- Hypercoagulopathy unless considerations are made to place the patient on anticoagulation therapy.
- Local tissue factors to prevent proper device stabilization and/or access.
- Presence or suspicion of allergic reaction to materials contained in this device.
- Potential complications.
- Anatomy is insufficient to accommodate size of the port or the catheter.
- Previous episodes of venous thrombosis or vascular surgical procedures at the prospective placement site.
- Past irradiation or history of previous radiation of the insertion site.
- Presence of infection, bacteremia, or septicemia.
- Hypercoagulopathy unless considerations are made to place the patient on anticoagulation therapy.
- Local tissue factors to prevent proper device stabilization and/or access.
- Presence or suspicion of allergic reaction to materials contained in this device.
- Potential complications.

**WARNINGS AND PRECAUTIONS:**
- Please consult the instructions for use packaged with each device. Observe all instructions prior to use. Failure to do so may result in patient complications.
- Use of non-Y site LifeGuard Safety Infusion Set (size = 20Ga or 19Ga) is indicated for power injection of contrast media.
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