SMART PORT

POWER-INJECTABLE PORTS

VORTEX
TECHNOLOGY

angiodynamics

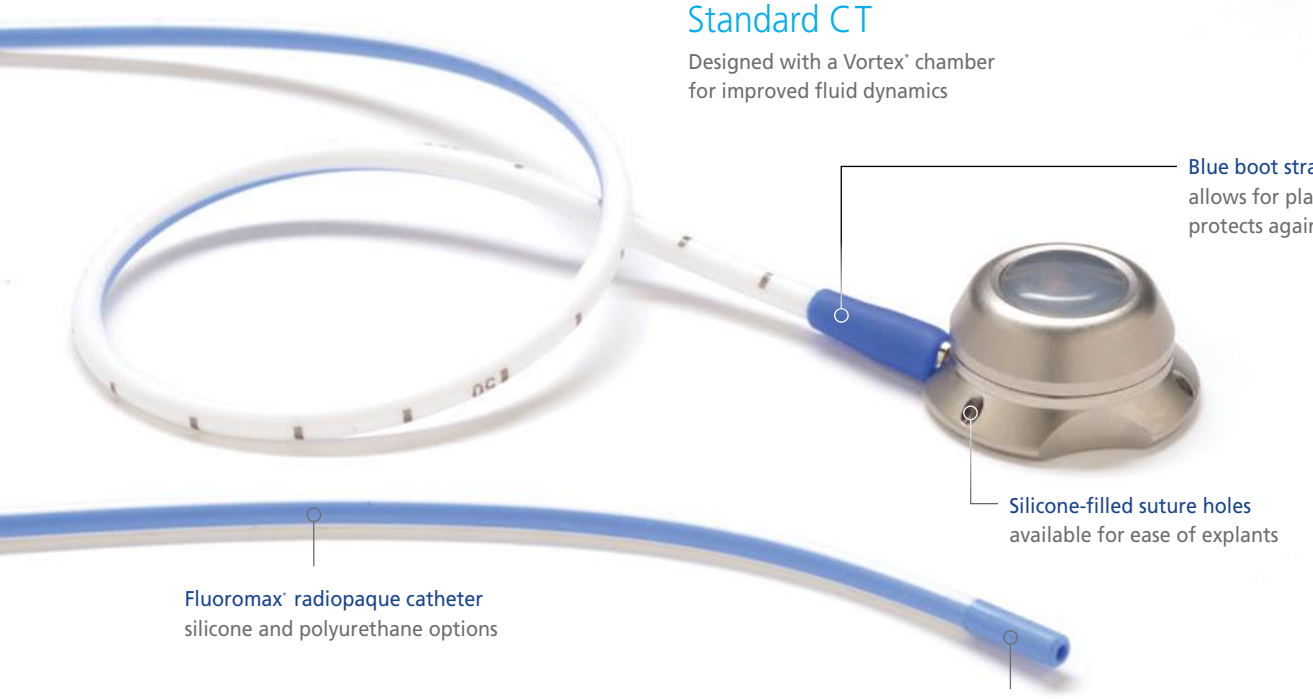
Engineered *for* Life

Smart Port* High-Performance Titanium 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

Fluoromax* radiopaque catheter
silicone and polyurethane options

Atraumatic radiopaque tip†

Low-Profile CT

6.6F catheter reduces the risk of thrombosis

Mini CT

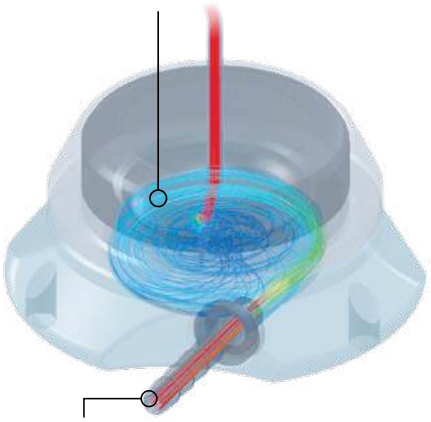
Smallest profile titanium CT-rated port indicated for chest or peripheral placement

Each Smart Port model features a light-weight design and a CT-engraved port body for better identification.

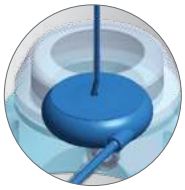
The Vortex Technology Difference

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

Superior Fluid Dynamics
compared to conventional ports.



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



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

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

Vortex demonstrated

73%
fewer port occlusions[1]

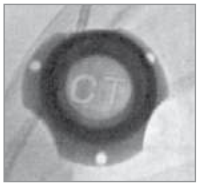
69%
fewer secondary interventions[1]

Use of Vortex port technology results in

$1,224
average savings per patient over conventional ports.[2]

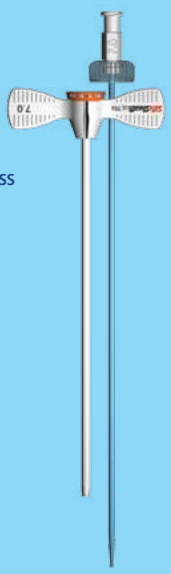
Identifying a Smart Port Power-Injectable Port

Smart Port power-injectable ports can be identified by the Smart Angle* technology on the CT and CT Low-Profile 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.



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



[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.

Smart Port CT

Description	Introducer Size (Fr.)	UPN	UPN w/ Safe Sheath	Material Port Body/Catheter	Catheter ID/OD (mm)	Catheter O.D. (Fr.)	Catheter Length (cm)	Port Int Vol (mL/cm)	Port Int Vol (mL)
Detached silicone catheter	8	H787CT75STSD0	H787CT75STSDVI1	Titanium/Silicone FluoroMax	1.4/2.5	7.5	66	0.015	0.7
Detached polyurethane catheter	8	H787CT80STPD0	H787CT80STPDVI1††	Titanium/Polyurethane FluoroMax	1.5/2.7	8	66	0.020	0.7
Detached silicone catheter	10	H787CT96STSD0	H787CT96STSDVI1	Titanium/Silicone FluoroMax	1.6/3.2	9.6	66	0.020	0.7
Detached silicone catheter non filled suture holes	8	H787CT75STSDNF0	—	Titanium/Silicone FluoroMax	1.4/2.5	7.5	66	0.015	0.7
Detached polyurethane catheter non filled suture holes	8	H787CT80STPDNF0	—	Titanium/Polyurethane FluoroMax	1.5/2.7	8	66	0.020	0.7
Detached silicone catheter non filled suture holes	10	H787CT96STSDNF0	—	Titanium/Silicone FluoroMax	1.6/3.2	9.6	66	0.020	0.7
Attached silicone catheter	8	H787CT75STSA0	—	Titanium/Silicone FluoroMax	1.4/2.5	7.5	66	0.015	0.7
Attached polyurethane catheter	8	H787CT80STPA0	—	Titanium/Polyurethane FluoroMax	1.5/2.7	8	66	0.020	0.7
Attached silicone catheter	10	H787CT96STSA0	—	Titanium/Silicone FluoroMax	1.6/3.2	9.6	66	0.020	0.7

Smart Port CT Low-Profile

Description	Introducer Size (Fr.)	UPN	UPN w/ Safe Sheath	Material Port Body/Catheter	Catheter ID/OD (mm)	Catheter O.D. (Fr.)	Catheter Length (cm)	Port Int Vol (mL/cm)	Port Int Vol (mL)
Detached polyurethane catheter	7	H787CT66LTPD0	H787CT66LTPDVI1	Titanium/Carbothane	1.4/2.2	6.6	55	0.016	0.4

Smart Port CT mini

Description	Introducer Size (Fr.)	UPN	UPN w/ Safe Sheath	Material Port Body/Catheter	Catheter ID/OD (mm)	Catheter O.D. (Fr.)	Catheter Length (cm)	Port Int Vol (mL/cm)	Port Int Vol (mL)
Detached polyurethane catheter	7	H787CT66PTPD0	H787CT66PTPDVI1	Titanium/Carbothane	1.4/2.2	6.6	55	0.016	0.3

† Available on select models

†† Only available with 8.5F Introducer

IMPORTANT RISK INFORMATION

The following is a brief summary of important risk information for the Smart Port power-injectable port line. For detailed information on the categories referenced, 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.

INDICATIONS FOR USE: The Smart Port CT power injectable port line is indicated for any patient requiring repeated access of the vascular system for delivery of medications, nutritional supplementation, fluids, blood, blood products, sampling of blood and power injection of contrast media for imaging.

Use of non Y site LifeGuard Safety Infusion Set (size = 20Ga or 19Ga) is indicated for power injection of contrast media. For power injection of contrast media, maximum recommended infusion rate is 5ml/sec.

INDICATIONS FOR USE: The Safe Sheath Ultralite is indicated for the introduction of various types of pacing leads and catheters. This device is intended for one time use only. Read instructions prior to use.

CONTRAINDICATIONS: Smart Port CT should not be implanted in the presence of known or suspected infections, bacteremia, septicemia and peritonitis, or in patients who have exhibited prior intolerance to the materials of construction, or patients whose body size or tissue is insufficient to accommodate the size of the port or catheter.

WARNINGS AND PRECAUTIONS: Please see package insert for complete list of warnings and precautions.

POTENTIAL COMPLICATIONS: Consult package insert for a complete list of potential complications.

CAUTION: Federal (USA) law restricts these devices to sale by or on the order of a physician.

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