SMART PORT

POWER-INJECTABLE PORTS

VORTEX
TECHNOLOGY

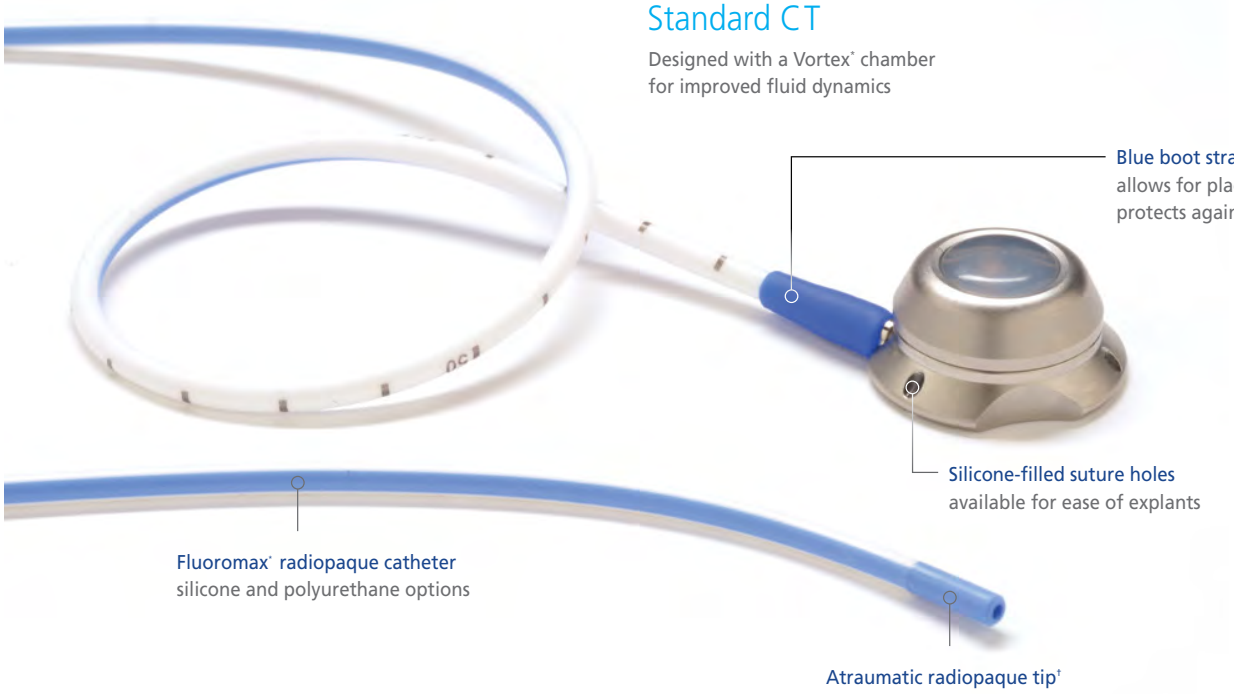
MSA
MEDICAL
SPECIALTIES
AUSTRALASIA

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

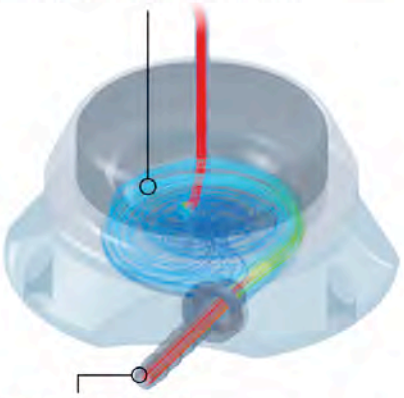
Smallest profile titanium CT-rated port indicated for chest or peripheral placement

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

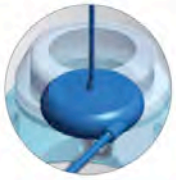
The Vortex Technology Difference

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.

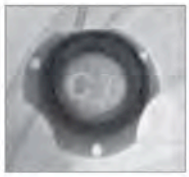


Round Chamber
allows fluid to reach all surfaces in the chamber, helping eliminate dead spaces, resist sludge build-up, and reduce occlusions.

VORTEX
TECHNOLOGY

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.



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]

[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.)	Part #	Material Port Body/Catheter	Catheter				Port
				ID/OD (mm)	O.D. (Fr.)	Length (cm)	Int Vol (mL/cm)	Int Vol (mL)
Detached silicone catheter	8	CT75STSD	Titanium/Silicone FluoroMax®	1.4/2.5	7.5	66	0.015	0.7
Detached polyurethane catheter	8	CT80STPD	Titanium/Polyurethane FluoroMax®	1.5/2.7	8	66	0.020	0.7
Detached silicone catheter	10	CT96STSD	Titanium/Silicone FluoroMax®	1.6/3.2	9.6	66	0.020	0.7
Attached silicone catheter	8	CT75STSA	Titanium/Silicone FluoroMax®	1.4/2.5	7.5	66	0.015	0.7
Attached polyurethane catheter	8	CT80STPA	Titanium/Polyurethane FluoroMax®	1.5/2.7	8	66	0.020	0.7
Attached silicone catheter	10	CT96STSA	Titanium/Silicone FluoroMax®	1.6/3.2	9.6	66	0.020	0.7

SMART PORT® CT LOW-PROFILE

Description	Introducer Size (Fr.)	Part #	Material Port Body/Catheter	Catheter				Port
				ID/OD (mm)	O.D. (Fr.)	Length (cm)	Int Vol (mL/cm)	Int Vol (mL)
Detached polyurethane catheter	7	CT66LTPD	Titanium/Carbothane®	1.4/2.2	6.6	55	0.016	0.4

SMART PORT® CT MINI

Description	Introducer Size (Fr.)	Part #	Material Port Body/Catheter	Catheter				Port
				ID/OD (mm)	O.D. (Fr.)	Length (cm)	Int Vol (mL/cm)	Int Vol (mL)
Detached polyurethane catheter	7	CT66PTPD	Titanium/Carbothane®	1.4/2.2	6.6	55	0.016	0.3

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.

INDICATION 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. **MP and LP models:** 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.

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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