VORTEX

IMPLANTABLE PORTS

angiodynamics

Better Outcomes. Fewer Complications.

IMPLANTABLE PORTS

The tangential outlet and clear-flow technology behind Vortex* implantable ports set up efficient flushing action to hyper cleanse the entire reservoir, resist sludge build up, and reduce occlusions and infections. All titanium models are latex free/MRI conditional – 3 Tesla, and plastic models are MRI Safe.

Vortex LP

> Available in plastic and titanium, with single, dual and low-profile options

> Large septum diameter offers greater target area

> Tapered, atraumatic-tip catheter reduces vessel trauma

> Patented Bayonet locking mechanism

> Choice of silicone or polyurethane catheters

Vortex TR

> Available in plastic and titanium, with single and low-profile options

> Silicone-filled suture holes in titanium models prevent tissue ingrowth

> 100 PSI rated silicone catheters

> Large septum diameter offers greater target area

> One-step locking mechanism means fast, simple and secure procedures

Vortex MP

> Low-profile design ideal for chest or peripheral placement

> Largest septum diameter of any peripheral port currently on the market

> High radiopaque tip FluoroMax* catheter aids in confirming ideal tip placement

> Marked catheters are available in polyurethane and silicone

> Snap-lock* locking mechanism confirms secure attachment with feel, sight and sound

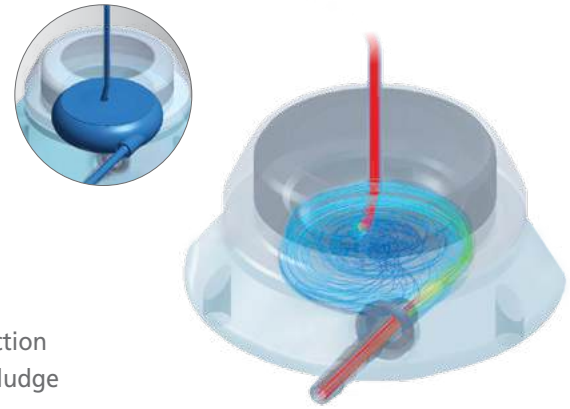
Vortex VX

> Atraumatic-tip catheter tapered to reduce vessel trauma

> Blue boot strain-relief mechanism offers a secure feel and a snug fit

> Available in single and low-profile models

VORTEX TECHNOLOGY



ROUND CHAMBER

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

OFF-SET OUTLET

Set at a tangent rather than perpendicularly, it helps to create a flushing action within the port to hyper cleanse the entire chamber leading to decreased sludge build-up and a reduced rate of occlusions.

Complications noted and interventions taken during the use of either a Vortex port with vortex technology or conventional port in oncology patients.[1] Use of vortex technology results in an average savings per patient of $1,224 over conventional ports.[2]

	Vortex Port	Conventional Port
Total port occlusion	0	9
Partial port occlusion (infuse but not aspirate)	57	141
Occlusions as % of total access attempts	**7%**	**26%**
Repositioned needle	39	91
Changed position with cough or deep breath	55	131
Used extra flush solution	51	104
Instilled urokinase	8	15
Surgical removal of port	0	4
Interventions as % of total access attempts	**19%**	**62%**

[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.

Vortex implantable port options

> Vortex LP Single Plastic

> Vortex LP Dual Titanium

AngioDynamics' Vortex implantable ports are available in a number of options to fit the needs of physicians and their patients. Port body options include plastic and titanium, as well as single, dual and low-profile models. Attached and detached catheters are available in silicone and polyurethane in a variety of French sizes.

Refer to the complete product list on the back for more information.

VORTEX LP

	Introducer Size (F)	Catheter Size (F)	UPN
Single Titanium Port			
Detached silicone catheter	10	9.6	H787LVTX50130
Attached silicone catheter	10	9.6	H787LVTX50150
Detached polyurethane catheter	9	8.4	H787LVTX55130
Dual Titanium Port			
Detached silicone catheter	12	11.4	H787LVTX52130
Low-Profile Titanium Port			
Detached silicone catheter	10	8.4/9.6	H787LVTX50570
Detached polyurethane catheter	6	5.7	H787LVTX55550
Detached polyurethane catheter	9	8.4	H787LVTX55570
Single Plastic Port			
Detached silicone catheter	10	9.6	H787LVTX70130
Attached silicone catheter	10	9.6	H787LVTX70150
Detached polyurethane catheter	9	8.4	H787LVTX75130
Attached polyurethane catheter	9	8.4	H787LVTX75150

Titanium port tray components: (1) Vortex LP port system, (1) Catheter, (1) Locking mechanism (detached models), (1) Non-coring needle, 22 Ga, (1) Introducer needle, 18 Ga, (1) Vein pick, (1) PeelPro* PTFE introducer, (1) 0.035" x 50 cm guidewire, (1) Infusion set†, (1) Blunt needle (detached models), (1) Tunneler, (2) 10 mL syringes

Plastic port tray components: Same as above, plus one additional locking mechanism.

†dual model contains 2 infusion sets

VORTEX MP

	Introducer Size (F)	Catheter Size (F)	UPN
Single Titanium Port			
Detached polyurethane catheter	n/a	5	H787MPP5PK0
Detached polyurethane catheter	5	5	H787MPP5PT0
Attached silicone catheter	5	5	H787MPP5SAT0
Detached silicone catheter	5	5	H787MPP5SDT0

Kit components: (1) Vortex MP titanium low-profile port system, (1) Catheter, (1) Locking mechanism, (1) Non- coring needle, 22 Ga, (1) Blunt needle, 18 Ga, (1) Vein pick
Tray components: (1) Vortex MP titanium low-profile port system, (1) Catheter, (1) Locking mechanism (detached models), (1) Non- coring needle, 22 Ga, (1) Blunt needle, 18 Ga, (1) Introducer needle, 21 Ga x 7 cm (2.75 in), (1) PeelPro PTFE micro-access introducer, 5 Fr x 10 cm, (1) PeelPro PTFE introducer, 5 Fr x 14 cm, (1) Nitinol guidewire, .018 x 125 cm, marked, (1) Nitinol guidewire, .018 x 40 cm, (2) 10 mL syringes, (1) Vein pick, (1) LifeGuard* safety infusion set, (1) Tunneler (silicone models only)

VORTEX VX

	Introducer Size (F)	Catheter Size (F)	UPN
Single Titanium Port			
Attached silicone catheter	8	7.2	H787P5305K0
Detached silicone catheter	8	7.2	H787P5355K0
Attached silicone catheter	10	9.6	H787P5405K0
Detached silicone catheter	10	9.6	H787P5455K0
Low-Profile Titanium Port			
Attached silicone catheter	6	5.1	H787P12105K0
Detached silicone catheter	6	5.1	H787P12155K0
Attached silicone catheter	8	7.2	H787P12305K0
Detached silicone catheter	8	7.2	H787P12355K0

Tray components: (1) Vortex VX titanium port system, (1) Silicone catheter, (2) Strain reliefs (detached models), (1) Non-coring needle, 22 Ga, (1) Introducer needle, 18 Ga, (1) Vein pick, (1) PeelPro PTFE introducer, (1) 0.035" x 50 cm guidewire, (1) Infusion set, (1) Blunt needle (detached models), (1) Tunneler, (2) 10 mL syringes.

VORTEX TR

	Introducer Size (F)	Catheter Size (F)	UPN
Single Titanium Port			
Detached silicone catheter	7	6.6	H787SSDX10I0
Attached silicone catheter	8	7.5	H787SSAX14I0
Detached silicone catheter	8	7.5	H787SSDX14I0
Attached silicone catheter	10	9.6	H787SSAX16I0
Detached silicone catheter	10	9.6	H787SSDX16I0
Low-Profile Titanium Port			
Attached silicone catheter	7	6.6	H787PSAX10I0
Detached silicone catheter	7	6.6	H787PSDX10I0
Single Plastic Port			
Detached silicone catheter	8	7.5	H787SPDX14I0
Detached silicone catheter	10	9.6	H787SPDX16I0
Attached silicone catheter	10	9.6	H787SPAX16I0

Tray components: (1) Vortex TR port system, (1) Silicone catheter, (1) Locking mechanism (detached models), (1) Non-coring needle, 22 Ga, (1) Introducer needle, 18 Ga, (1) Vein pick, (1) PeelPro PTFE introducer, (1) 0.035" x 50 cm guidewire, (1) Infusion set, (1) Blunt needle (detached models), (1) Tunneler, (2) 10 mL syringes

IMPORTANT RISK INFORMATION

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The following is a brief summary of important risk information for the AngioDynamics implantable port systems. 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 AngioDynamics implantable access port systems is indicated for any patient requiring repeated access of the vascular system or other selected body site, for delivery of medications, nutritional supplementation, fluids, blood, blood products, sampling of blood. Dual models are indicated for combination therapy, simultaneous infusions, withdrawal of body fluids, and bolus delivery during continuous infusion.

INDICATIONS FOR USE: Vortex MP Port models MP-P5PT, MP-P5PK, MP-P5SAT, and MP-P5SDT are indicated for central venous placement (either peripheral or chest placement) when patient therapy requires repeated venous access for injection or infusion therapy and/or venous blood sampling.

CONTRAINDICATIONS: AngioDynamics implantable port systems 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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