

BioFlo DuraMax Catheter with Endexo Technology



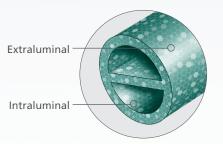


Proven to Reduce Thrombus Accumulation, In Vitro[†]

The BioFlo* DuraMax* Catheter is the first dialysis catheter with Endexo* Technology, providing a catheter material more resistant to in-vitro thrombus accumulation, compared to commonly used catheters (based on platelet count).†

The BioFlo DuraMax Catheter provides long term access to the peripheral venous system for hemodialysis sessions. The BioFlo DuraMax Catheter features Endexo Technology which is present throughout the entire blood pathway including the intraluminal and extraluminal surfaces of the catheter.

 BioFlo DuraMax dialysis catheter has 84% less thrombus accumulation on its surface in-vitro compared to non-coated Palindrome chronic dialysis catheters (based on platelet count).[†]



BioFlo DuraMax Catheter with Endexo Technology

83.5%
LESS THROMBUS
ACCUMULATION

Compared to Palindrome H Chronic Dialysis Catheter (based on platelet count)[†]

BioFlo DuraMax Catheter with Endexo Technology

Catheter has minimal visible thrombus, fibrin sheath, or clot.

SEM Image (Scanning Electron Microscopy) BioFlo DuraMax Dialysis Catheter with Endexo Technology at 10x magnification



Palindrome H Chronic Dialysis Catheter



SEM Image (Scanning Electron Microscopy)
Palindrome H Chronic Dialysis
Catheter at 10x Magnification



[†]The reduction in thrombus accumulation (based on platelet count) is supported by acute in-vitro benchtop testing performed up to two hours using bovine blood. Pre-clinical in-vitro evaluations do not necessarily predict clinical performance with respect to thrombus formation. Data on file.

BioFlo DuraMax Catheter

Thermoplastic polyurethane luers combine toughness, dimensional stability, and chemical resistance



Curved Tip catheter technology reduces vein wall apposition and risk of arterial insufficiency. 3 cm tip stagger reduces recirculation rates

15.5F BioFlo DuraMax Catheter

facilitates high flow rates at modest arterial pressures. Proprietary lumen, kink-resistant design

Clear BioFlo extension tubes for early visualization of blood return and resistant to blood accumulation

nen, kink-resistant design |

Patented angled venous tip and guidewire lumen design positions guidewire in the center of the leading edge ofdistal tip and provides over-the-wire performance and ease of insertion

BioFlo DuraMax Catheter

Advanced features, such as large lumen diameters and thrombus reduction Endexo technology allow the BioFlo DuraMax Catheter to deliver high flow rates at modest pressures.

Average Pressure vs. Flow Rates*

Lamorth	Pressure at Flow (mm Hg)					
Length (cm)	200 m	l/min	300 m	l/min	400 m	ıl/min
	Α	V	Α	V	Α	V
24 cm	-53	54	-73	84	-120	128
28 cm	-59	59	-86	90	-135	134
32 cm	-60	64	-92	97	-144	143
40 cm	-66	72	-107	108	-164	157
55 cm	-83	86	-133	127	-157	179

*Data on file

BIOFLO DURAMAX CATHETER

30.3%

REDUCTION IN PRESSURE

Compared to Palindrome
Chronic Dialysis
Catheter*

Competitive Kit Offerings for Patient Care

BioFlo DuraMax Catheters are available in a variety of options for safe and reliable insertion.

KIT CONFIGURATIONS INCLUDE:

BASIC KIT

(1) BioFlo DuraMax Dialysis Catheter with Endexo Technology, (1) 16F Valved Breakaway Introducer, (1) 12F Dilator, (1) 14F Dilator, (1) Tri-Ball Tunneler with Sleeve, (2) Injection Caps, (1) #11 Blade Safety Scalpel, (1) 0.038" J/Flex Guidewire, (1) Adhesive Wound Dressing, (1) 18 G x 2-3/4" Introducer Needle

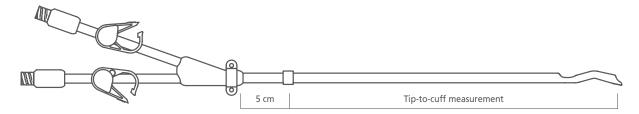
VASCPAK* KIT

(1) BioFlo DuraMax Dialysis Catheter with Endexo Technology, (1) Adhesive Wound Dressing, (1) 16F Valved Peelable Sheath, (1) Tri-Ball Tunneler with Sleeve, (2) Injection Caps, (1) 12F Vessel Dilator, (1) 14F Vessel Dilator

CATHETER ONLY KIT

(5) BioFlo DuraMax Dialysis Catheters with Endexo Technology.

Catheter Length Measurement (not drawn to scale)



BioFlo DuraMax Catheter—Ordering Information

Catheter Length	Tip-to-cuff	Dual Valve Basic Kit	Dual Valve VascPak	Single Valve Basic	Single Valve VascPak	Catheter Only
20 cm	15 cm	H965103028011	H965103028161	H965103038011	H965103038161	H965103029011
22 cm	17 cm	H965103028021	H965103028171	H965103038021	H965103038171	H965103029021
24 cm	19 cm	H965103028031	H965103028181	H965103038031	H965103038181	H965103029031
28 cm	23 cm	H965103028041	H965103028191	H965103038041	H965103038191	H965103029041
32 cm	27 cm	H965103028051	H965103028201	H965103038051	H965103038201	H965103029051
36 cm	31 cm	H965103028061	H965103028211	H965103038061	H965103038211	H965103029061
40 cm	35 cm	H965103028070	H965103028220	H965103038070	H965103038220	H965103029071
48 cm	43 cm	H965103028080	H965103028230	H965103038080	H965103038230	H965103029081
55 cm	50 cm	H965103028090	H965103028240	H965103038090	H965103038240	H965103029091

Consult your AngioDynamics representative for country specific product availability.

IMPORTANT RISK INFORMATION

BIOFLO DURAMAX DIALYSIS CATHETER WITH ENDEXO TECHNOLOGY

INDICATIONS FOR USE: The BioFlo DuraMax Dialysis Catheter with Endexo Technology is indicated for use in attaining long-term vascular access for hemodialysis and apheresis in adults. Catheters greater than 40 cm are intended for femoral vein insertion. CONTRAINDICATIONS: The catheter is intended for long-term vascular access only and should not be used for any purpose other than indicated in the instructions for use. 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. Indications, contraindications, warnings and instructions for use can be found in the instructions for use supplied with each device. Observe all instructions prior to use. Failure to do so may result in patient complications.

CAUTION: Federal Law (USA) restricts this device to sale by or on the order of a physician.



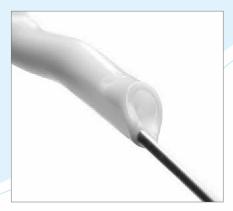
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DuraMax

CHRONIC DIALYSIS CATHETER

Engineered for Excellence

- Optimal Ease of Insertion
- High Flow-High Performance







DuraMax Engineered for Excellence*

CHRONIC DIALYSIS CATHETER



Patented angled venous tip and guidewire lumen design positions guidewire in the center of the leading edge of distal tip and provides superior over the wire performance and improved ease of insertion.

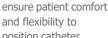


SafeSheath D-Pro* double seal peel-away sheath provides safety and security of hemostatic access and greatly reduces the risk of air embolism.

Curved tip catheter technology reduces vein wall apposition and risk of arterial insufficiency. 3 cm tip stagger reduces recirculation rates. 15.5 F DuraMax* catheter facilitates high flow rates at modest arterial pressures. Proprietary lumen design provides improved kink resistance and flexibility in challenging tunnel locations.

Durathane catheter material affords strength, softness, and resistance to a wide range of commonly used site care agents.







Robust polyester cuff material allows optimal tissue ingrowth and catheter securement.

Thermoplastic Polyurethane Luers combine toughness, dimensional stability, and chemical resistance.

Ordering Information (5 units per box)

Ordering Information (1 unit per box)

Description	Basic Kit	VascPak Kit	Catheter Only
24 cm	□ H787103028031	□ H787103028181	
28 cm	□ H787103028041	□ H787103028191	□ H787103029041
32 cm	□ H787103028051	□ H787103028201	
36 cm	□ H787103028061		
40 cm			
48 cm	•	-	
55 cm	-	-	

BASIC KIT INCLUDES: (1) DuraMax Dialysis Catheter, (1) 16F Valved Breakaway Introducer, (1) 12F Dilator, (1) 14F Dilator, (1) Tri-Ball Tunneler with Sleeve, (2) Injection Caps, (1) #11 Blade Safety Scalpel, (1) 0.038" J/Flex Guidewire, (1) Adhesive Wound Dressing, (1) 18 Ga. x 2-3/4" Introducer Needle

VASCPAK* KIT INCLUDES: (1) DuraMax Dialysis Catheter, (1) Adhesive Wound Dressing, (1) 16F Valved Peelable Sheath, (1) Tri-ball Tunneler with Sleeve, (2) Injection Caps, (1) 12F Vessel Dilator, (1) 14F Vessel Dilator

IMPORTANT RISK INFORMATION

INDICATIONS FOR USE: The DuraMax Hemodialysis Catheter is indicated for use in attaining long-term vascular access for Hemodialysis and Apheresis. It may be inserted percutaneously and is primarily placed in the internal jugular vein of an adult patient. Alternate insertion sites include subclavian vein as required. Catheters greater than 40 cm are intended for femoral vein insertion. This catheter is indicated for > 30 days long term placement. The Valved Peelable Introducer is intended for use in the percutaneous insertion of catheters in the venous system.

CONTRAINDICATIONS: The catheter is intended for long-term vascular access only and should not be used for any purpose other than indicated in these instructions. The valved peelable introducer sheath is not designed for use in the arterial system.

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.

Indications, contraindications, warnings and instructions for use can be found in the instructions for use supplied with each device. Observe all instructions prior to use. Failure to do so may result in patient complications.

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



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DuraFlow 2

CHRONIC DIALYSIS CATHETER





DuraFlow 2 CHRONIC DIALYSIS CATHETER

Engineered for Durability





EmboSafe* peel-away sheath provides safety and security of hemostatic access and greatly reduces the risk of air embolism.

15.5 F DuraFlow* 2 catheter facilitates high flow rates at modest arterial pressures. Proprietary lumen design provides improved kink resistance and flexibility in challenging tunnel locations.

Durathane* catheter material affords strength, softness, and resistance to a wide range of commonly used site care agents.



Robust polyester cuff material allows optimal tissue ingrowth and catheter securement.

Ordering Information (5 units per box)

Description	Basic Kit	VascPak Kit	Catheter Only
20 cm	□ H787103012145	_	_
22 cm	□ H787103012125	_	_
24 cm	□ H787103012015	□ H787103012185	□ H787103017015
28 cm	□ H787103012025	□ H787103012195	□ H787103017025
32 cm	□ H787103012035	□ H787103012205	□ H787103017035
36 cm	□ H787103012045	□ H787103012215	□ H787103017045
40 cm	_	_	□ H787103017055
48 cm	_	_	□ H787103017155
55 cm	_	_	□ H787103017145

Ordering Information (1 unit per box)

Description	Basic Kit	VascPak Kit
24 cm	□ H787103012011	_
28 cm	□ H787103012021	_
32 cm	□ H787103012031	_
36 cm	□ H787103012041	_
40 cm	□ H787103012055	□ H787103012225
48 cm	□ H787103012155	□ H787103012235
55 cm	□ H787103012115	□ H787103012245

BASIC KIT INCLUDES: (1) DuraFlow 2 Dialysis Catheter, (1) 16F Valved Breakaway Introducer, (1) 12F Dilator, (1) 14F Dilator, (1) Tri-Ball Tunneler with Sleeve, (2) Injection Caps, (1) #11 Blade Safety Scalpel, (1) 0.038" J/Flex Guidewire, (1) Adhesive Wound Dressing, (1) 18 Ga. x 2-3/4" Introducer Needle

VASCPAK* KIT INCLUDES: (1) DuraFlow 2 Dialysis Catheter, (1) Adhesive Wound Dressing, (1) 16F Valved Peelable Sheath, (1) Tri-ball Tunneler with Sleeve, (2) Injection Caps, (1) 12F Vessel Dilator, (1) 14F Vessel Dilator

IMPORTANT RISK INFORMATION

INDICATIONS FOR USE: The DuraFlow 2 Hemodialysis Catheter is indicated for use in attaining long-term vascular access for hemodialysis and apheresis. It may be inserted percutaneously and is primarily placed in the internal jugular vein of an adult patient. Alternate insertion sites include subclavian vein as required. Catheters greater than 40 cm are intended for femoral vein insertion. This catheter is indicated for > 30 days long term placement. The valved peelable introducer is

intended for use in the percutaneous insertion of catheters in the venous system.

CONTRAINDICATIONS: The catheter is intended for long-term vascular access only and should not be used for any purpose other than indicated in these instructions. The valved peelable introducer sheath is not designed for use in the arterial system.

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.

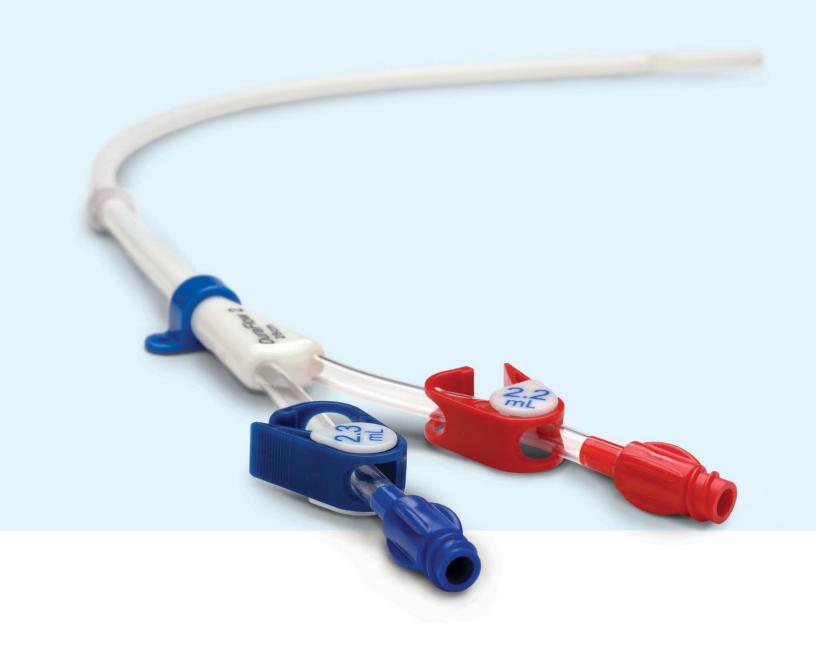
Indications, contraindications, warnings and instructions for use can be found in the instructions for use supplied with each device. Observe all instructions prior to use. Failure to do so may result in patient complications.



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DuraFlow 2

PRE - CURVED CHRONIC DIALYSIS CATHETER





DuraFlow 2 Engineered for Durability CHRONIC DIALYSIS CATHETER

Rotating suture wings ensure patient comfort and flexibility to position catheter. Thermoplastic Polyurethane Luers

combine toughness, dimensional

stability, and chemical resistance.

EmboSafe* peel-away sheath provides safety and security of hemostatic access and greatly reduces the risk of air embolism.

15.5 F DuraFlow* 2 catheter facilitates high flow rates at modest arterial pressures. Proprietary lumen design provides improved kink resistance and flexibility in challenging tunnel locations.

Durathane* catheter material affords strength, softness, and resistance to a wide range of commonly used site care agents.

Oval guidewire holes allow for a smoother wire transition

Robust polyester cuff material allows optimal tissue ingrowth and catheter securement.

Ordering Information (5 units per box)

Description	Basic Kit	VascPak Kit	Catheter Only
20 cm	□ H787103012145	_	_
22 cm	□ H787103012125	_	_
24 cm	□ H787103012015	□ H787103012185	□H787103017015
28 cm	□ H787103012025	□ H787103012195	□H787103017025
32 cm	□ H787103012035	□ H787103012205	□H787103017035
36 cm	□ H787103012045	□ H787103012215	□H787103017045
40 cm	_	_	□H787103017055
48 cm	_	_	□H787103017155
55 cm	_	_	□H787103017145

Ordering Information (1 unit per box)

Description	Basic Kit	VascPak Kit
24 cm	□ H787103012011	_
28 cm	□ H787103012021	_
32 cm	□ H787103012031	_
36 cm	□ H787103012041	_
40 cm	□ H787103012055	□ H787103012225
48 cm	□ H787103012155	□ H787103012235
55 cm	□ H787103012115	□ H787103012245

BASIC KIT INCLUDES: (1) DuraFlow 2 Dialysis Catheter, (1) 16F Valved Breakaway Introducer, (1) 12F Dilator, (1) 14F Dilator, (1) Tri-Ball Tunneler with Sleeve, (2) Injection Caps, (1) #11 Blade Safety Scalpel, (1) 0.038" J/Flex Guidewire, (1) Adhesive Wound Dressing, (1) 18 Ga. x 2-3/4" Introducer Needle

VASCPAK' KIT INCLUDES: (1) DuraFlow 2 Dialysis Catheter, (1) Adhesive Wound Dressing, (1) 16F Valved Peelable Sheath, (1) Tri-ball Tunneler with Sleeve, (2) Injection Caps, (1) 12F Vessel Dilator, (1) 14F Vessel Dilator

IMPORTANT RISK INFORMATION

INDICATIONS FOR USE: The DuraFlow 2 Hemodialysis Catheter is indicated for use in attaining long-term vascular access for hemodialysis and apheresis. It may be inserted percutaneously and is primarily placed in the internal jugular vein of an adult patient. Alternate insertion sites include subclavian vein as required. Catheters greater than 40 cm are intended for femoral vein insertion. This catheter is indicated for > 30 days long term placement. The valved peelable introducer is

intended for use in the percutaneous insertion of catheters in the venous system.

CONTRAINDICATIONS: The catheter is intended for long-term vascular access only and should not be used for any purpose other than indicated in these instructions. The valved peelable introducer sheath is not designed for use in the arterial system.

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.

Indications, contraindications, warnings and instructions for use can be found in the instructions for use supplied with each device. Observe all instructions prior to use. Failure to do so may result in patient complications.



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EvenMoreCHRONIC HEMODIALYSIS CATHETER





EvenMore* Catheter Key Features

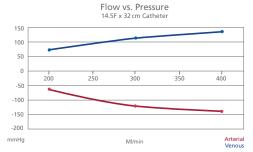
- Resistant Durathane* material
- Suture wing provides secure external anchoring
- Polyester cuff anchors catheter
- Ergonomic fittings
- East to read printed priming volumes



> Less than 5% recirculation, due to strategically placed venous return ports



> Luminal design allows for high flow



EVENMORE CATHETERS

Description	Cath Units/Box	Catheter Only Units/Box UPN		er Basic Set
20 cm Straight Catheter	-	-	1	H787103035115
22 cm Straight Catheter	-	-	1	H787103035125
24 cm Straight Catheter	5	H787103036015	1	H787103035015
28 cm Straight Catheter	5	H787103036025	1	H787103035025
32 cm Straight Catheter	5	H787103036035	1	H787103035035
36 cm Straight Catheter	-	-	1	H787103035045
40 cm Straight Catheter	-	-	1	H787103035055
55 cm Straight Catheter	5	H787103036065	1	H787103035065
20 cm Pre-Curved Catheter	5	H787103036135	1	H787103035135
22 cm Pre-Curved Catheter	5	H787103036145	1	H787103035145
24 cm Pre-Curved Catheter	-	-	1	H787103035075
28 cm Pre-Curved Catheter	-	-	1	H787103035085
32 cm Pre-Curved Catheter	-	-	1	H787103035095
36 cm Pre-Curved Catheter	-	-	1	H787103035105

BASIC SET INCLUDES: (1) 14.5F catheter, (1) valved peelable sheath introducer, (2) dilators, (1) tunneling tool, (1) scalpel, (1) J/Flex guidewire, (1) adhesive wound dressing, (1) introducer needle, (2) injection caps

ACCESSORIES

Description	Catheter Only		
	Units/Box	UPN	
EmboSafe* Sheath	5	H787065076025	
Marked guidewire 3 mm J fixed core .038" x 70 cm uncoated depth markings every 5 cm	10	H787055009012	
Marked guidewire 3 mm J fixed core .035" x 70 cm uncoated depth markings every 5 cm	10	H787055009022	
Hemodialysis catheter repair kit	5	H787103018015	

PHYSICIAN'S SIGNATURE

IMPORTANT RISK INFORMATION

INDICATION FOR USE: The AngioDynamics EvenMore Hemodialysis Catheter is designed for use in attaining long-term (12 months or less) vascular access for hemodialysis and apheresis. It may be inserted percutaneously and is primarily placed in the internal jugular vein of an adult patient. Alternate insertion sites include subclavian vein as required. The EmboSafe Valved Peelable Introducer is intended for use in the percutaneous insertion of catheters in the venous system. CAUTION: Federal (USA) law restricts these devices to sale by or on the order of a physician.

CONTRAINDICATIONS: This catheter should not be used for any purpose other than those indicated in the instructions. The EmboSafe introducer is not designed for use in the arterial system or as a hemostatic device.

WARNINGS AND PRECAUTIONS: For Single Use Only. Do not reuse, reprocess or resterilize the catheter or any accessories. Contents sterile in unopened, undamaged package. Do not use if opened or any sign of product damage is visible. Use only Luer Lock (threaded) connectors with this catheter. In the rare event that a hub or connector separates from any component during insertion or use, take all necessary steps and precautions to prevent blood loss or air embolism and remove catheter. Immediately after insertion, confirm proper placement of the tip of the catheter with x-ray. Failure to verify catheter placement may result in serious trauma or fatal complications. Please see package insert for complete list of warnings and precautions.

POTENTIAL COMPLICATIONS: Procedure-related complications include: air embolus; bacteremia; brachial plexus, mediastinal or pleural injury; cardiac arrhythmia or tamponade; central venous, lumen or vascular thrombosis; endocarditis; exit-site or tunnel infection; exsanguination; hematoma; hemorrhage; hemothorax or pneumothorax; laceration/perforation of the vessel or thoracic duct; punctures (right atrial, subclavian artery, superior vena cava); retroperitoneal bleed and septicemia.

Indications, contraindications, warnings and instructions for use can be found in the instructions for use supplied with each catheter. Observe all instructions prior to use. Failure to do so may result in patient complications or death.



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