

GLOBAL AORTIC PRODUCT CATALOGUE

Endurant™ II/IIIs



Valiant Navion™



Heli-FX™



TourGuide™



Sentrant™



Reliant™



Endurant™
II/IIs



Talent™
Occluder



Valiant
Navion™



Valiant™
Captiva™



Heli-FX™



TourGuide™



Sentrant™



Reliant™



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Endurant™ II/IIs

AAA Stent Graft System

FEATURES†

Endurant™ IIs System Expands Anatomical Customization Options

- A three-piece system that leverages the proven design of the Endurant™ II abdominal stent graft
- Enables in-situ sizing with select ipsilateral limbs, allowing a 3-5 stent overlap for adjustment during case
- Allows easier pre-case planning to simplify sizing

Low Profile and Easy Access

- Low profile and hydrophilic coating enhance access and trackability
- Flexible, kink-resistant delivery system facilitates stent graft delivery

Complete Conformability, Optimal Seal

- M-shaped proximal stents provide wall apposition and minimize infolding for a short sealing zone in the infrarenal aorta
- Laser cut suprarenal stent anchor pins provides secure fixation to mitigate migration
- Spacing between limb stents optimized to conform to anatomy to reduce kinking

Total Control Provides Consistent Precision

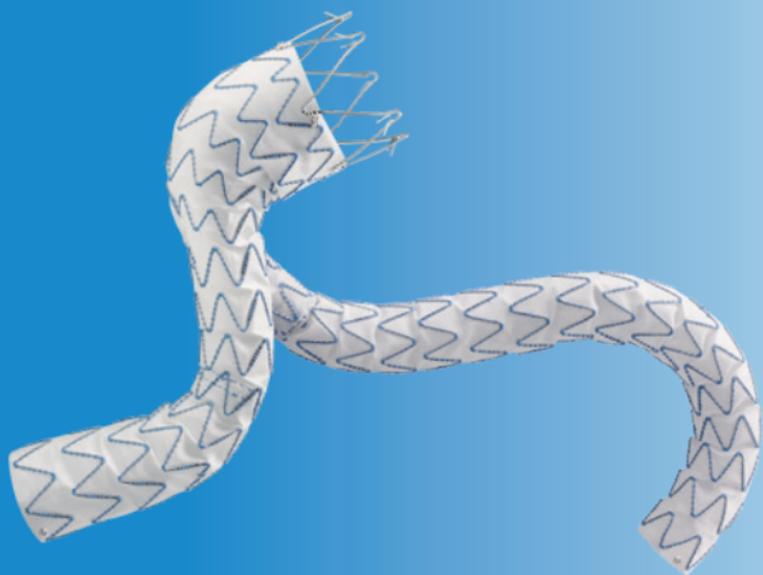
- Tip capture mechanism allows for precise positioning and intraoperative adjustments
- Backend thumb wheel provides controlled release of the suprarenal stent and anchor pins
- Improved radiopacity provides increased visibility‡
- Four proximal markers assist in accurate deployment
- e-shaped marker assists with A/P orientation

Durable Design, Dependable Performance

- Ultra-high molecular weight polyethylene sutures are three times stronger than surgical sutures
- High-density multifilament polyester graft material provides low porosity
- Electropolished nitinol stents improve fatigue resistance

† Test data on file at Medtronic. Bench test results may not be indicative of clinical performance.

‡ Contralateral gate marker.

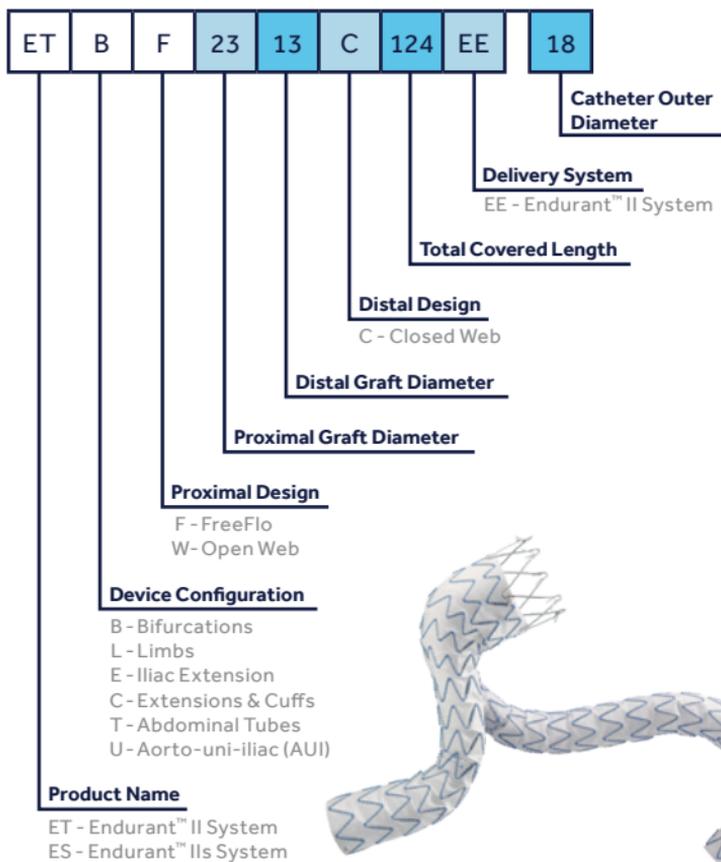


**PROVEN
SOLUTIONS**
AS VARIED
AS YOUR
PATIENTS

Endurant™ II/IIs

AAA Stent Graft System

ENDURANT™ II/IIs SYSTEM PRODUCT CODE DESCRIPTION



ENDURANT™ IIs SYSTEM BIFURCATIONS

	Product Code					
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Total Covered Length (mm)	Delivery System	Catheter Outer Diameter (Fr)
ESBF	23	14	C	103	EE	18
ESBF	25	14	C	103	EE	18
ESBF	28	14	C	103	EE	18
ESBF	32	14	C	103	EE	20
ESBF	36	14	C	103	EE	20



ENDURANT™ II SYSTEM BIFURCATIONS

Product Code						
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Total Covered Length (mm)	Delivery System	Catheter Outer Diameter (Fr)
ETBF	23	13	C	124	EE	18
ETBF	23	13	C	145	EE	18
ETBF	23	13	C	166	EE	18
ETBF	23	16	C	124	EE	18
ETBF	23	16	C	145	EE	18
ETBF	23	16	C	166	EE	18
ETBF	25	13	C	124	EE	18
ETBF	25	13	C	145	EE	18
ETBF	25	13	C	166	EE	18
ETBF	25	16	C	124	EE	18
ETBF	25	16	C	145	EE	18
ETBF	25	16	C	166	EE	18
ETBF	28	13	C	124	EE	18
ETBF	28	13	C	145	EE	18
ETBF	28	13	C	166	EE	18
ETBF	28	16	C	124	EE	18
ETBF	28	16	C	145	EE	18
ETBF	28	16	C	166	EE	18
ETBF	28	20	C	124	EE	18
ETBF	28	20	C	145	EE	18
ETBF	28	20	C	166	EE	18
ETBF	32	16	C	124	EE	20
ETBF	32	16	C	145	EE	20
ETBF	32	16	C	166	EE	20
ETBF	32	20	C	124	EE	20
ETBF	32	20	C	145	EE	20
ETBF	32	20	C	166	EE	20
ETBF	36	16	C	145	EE	20
ETBF	36	16	C	166	EE	20
ETBF	36	20	C	145	EE	20
ETBF	36	20	C	166	EE	20

Endurant™ II/IIIs

AAA Stent Graft System

LIMBS†

Product Code								
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Total Covered Length (mm)	Delivery System	Catheter Outer Diameter (Fr)	Total Contralateral Covered Length with Ell/Ells Bifurcated‡	Total Ipsilateral Covered Length with Ells Bifurcated‡
ETLW	16	10	C	82	EE	14	136	155
ETLW	16	10	C	93	EE	14	147	166
ETLW	16	10	C	124	EE	14	178	177–197
ETLW	16	10	C	156	EE	16	210	209–229
ETLW	16	10	C	199	EE	16	253	252–272
ETLW	16	13	C	82	EE	14	136	155
ETLW	16	13	C	93	EE	14	147	166
ETLW	16	13	C	124	EE	14	178	177–197
ETLW	16	13	C	156	EE	16	210	209–229
ETLW	16	13	C	199	EE	16	253	252–272
ETLW	16	16	C	82	EE	14	136	135–155
ETLW	16	16	C	93	EE	14	147	146–166
ETLW	16	16	C	124	EE	14	178	177–197
ETLW	16	16	C	156	EE	16	210	209–229
ETLW	16	16	C	199	EE	16	253	252–272
ETLW	16	20	C	82	EE	16	136	155
ETLW	16	20	C	93	EE	16	147	166
ETLW	16	20	C	124	EE	16	178	177–197
ETLW	16	20	C	156	EE	16	210	209–229
ETLW	16	20	C	199	EE	16	253	252–272
ETLW	16	24	C	82	EE	16	136	155
ETLW	16	24	C	93	EE	16	147	166
ETLW	16	24	C	124	EE	16	178	177–197
ETLW	16	24	C	156	EE	16	210	209–229
ETLW	16	24	C	199	EE	16	253	252–272
ETLW	16	28	C	82	EE	16	136	155
ETLW	16	28	C	93	EE	16	147	166
ETLW	16	28	C	124	EE	16	178	177–197
ETLW	16	28	C	156	EE	16	210	209–229
ETLW	16	28	C	199	EE	16	253	252–272

†The limb mates with the AUI stent graft on the ipsilateral side.

‡These calculations assume the minimum 30 mm overlap between the bifurcated stent graft and the contralateral iliac limb per the Endurant™ II Stent Graft System *Instructions for Use*. When using the 124 mm length bifurcated stent graft, subtract 10 mm from Total Contralateral Covered Length with Bifurcated.

§The 3–5 stent overlap is available only with select limbs. Please refer to the *Instructions for Use* for more information.



ILIAC EXTENSIONS

Product Code						
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Total Covered Length (mm)	Delivery System	Catheter Outer Diameter (Fr)
ETEW	10	10	C	82	EE	14
ETEW	13	13	C	82	EE	14
ETEW	20	20	C	82	EE	16
ETEW	24	24	C	82	EE	16
ETEW	28	28	C	82	EE	18

AORTIC EXTENSIONS

Product Code						
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Total Covered Length (mm)	Delivery System	Catheter Outer Diameter (Fr)
ETCF	23	23	C	49	EE	18
ETCF	25	25	C	49	EE	18
ETCF	28	28	C	49	EE	18
ETCF	32	32	C	49	EE	20
ETCF	36	36	C	49	EE	20

ABDOMINAL TUBES

Product Code						
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Total Covered Length (mm)	Delivery System	Catheter Outer Diameter (Fr)
ETTF	23	23	C	70	EE	18
ETTF	25	25	C	70	EE	18
ETTF	28	28	C	70	EE	18
ETTF	32	32	C	70	EE	20
ETTF	36	36	C	70	EE	20

AUI

Product Code						
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Total Covered Length (mm)	Delivery System	Catheter Outer Diameter (Fr)
ETUF	23	14	C	102	EE	18
ETUF	25	14	C	102	EE	18
ETUF	28	14	C	102	EE	18
ETUF	32	14	C	102	EE	20
ETUF	36	14	C	102	EE	20

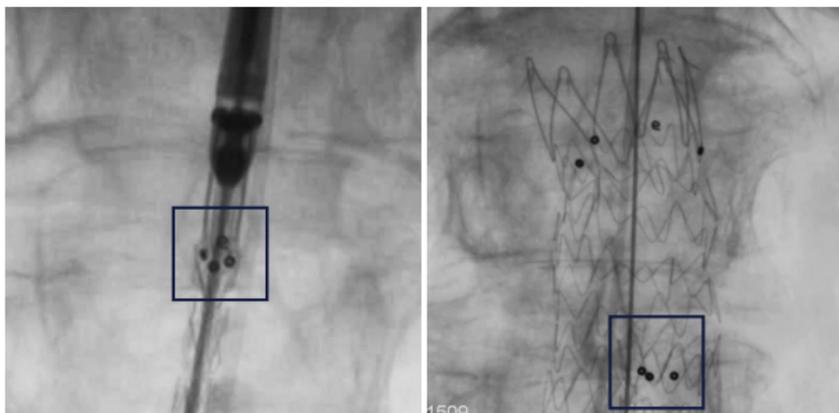
Endurant™ II/IIIs

AAA Stent Graft System

PLACEMENT AND SIZING GUIDELINES

Use the proximal radiopaque markers to position the top edge of the graft material.

e e-SHAPED MARKER ASSISTS WITH A/P ORIENTATION



RADIOPAQUE MARKERS

For the contralateral side: The radiopaque markers at the proximal limb should be aligned with the radiopaque markers at the flow divider of the Endurant™ II system or Endurant™ IIIs system bifurs.

For the ipsilateral side: Depending on the limb configuration used, the radiopaque markers at the proximal end of the limb should be aligned to the distal radiopaque marker on the ipsilateral leg or the flow divider marker of the Endurant™ IIIs system bifur. Select limbs will allow a 3-5 stent overlap adjustment during the case. Please refer to the *Instructions for Use* for more information as needed.



Each Endurant™ II/Endurant™ IIs AAA stent graft must be ordered in a size that is appropriate to fit the patient's anatomy. Proper sizing of the Endurant™ II/Endurant™ IIs AAA stent graft is the responsibility of the physician. The following suggestions for stent graft diameters are based on vessel inner wall measurements.

BIFURCATIONS, AUI AND AORTIC EXTENSIONS

Native Vessel (mm)		Recommended Endurant™ II System Diameter (mm)
Standard EVAR†	ChEVAR‡	
19–20	n/a	23
21–22	19–20	25
23–25	21–23	28
26–28	24–26	32
29–32	27–30	36

ILIAC EXTENSIONS

Native Vessel (mm)	Recommended Endurant™ II System Diameter (mm)
8–9	10
10–11	13
15–18	20
19–22	24
23–25	28

LIMBS

Native Vessel (mm)	Recommended Endurant™ II System Diameter (mm)
8–9	10
10–11	13
12–14	16
15–18	20
19–22	24
23–25	28

† EVAR: Bifurs, Cuff, AUI, Tube Configuration

‡ ChEVAR Indication not approved globally. Check local regulatory status.

For complete product information visit www.medtronic.com/manuals. Consult instructions for use at this website. Manuals can be viewed using a current version of any major internet browser. For best results, use Adobe Acrobat® Reader with the browser.

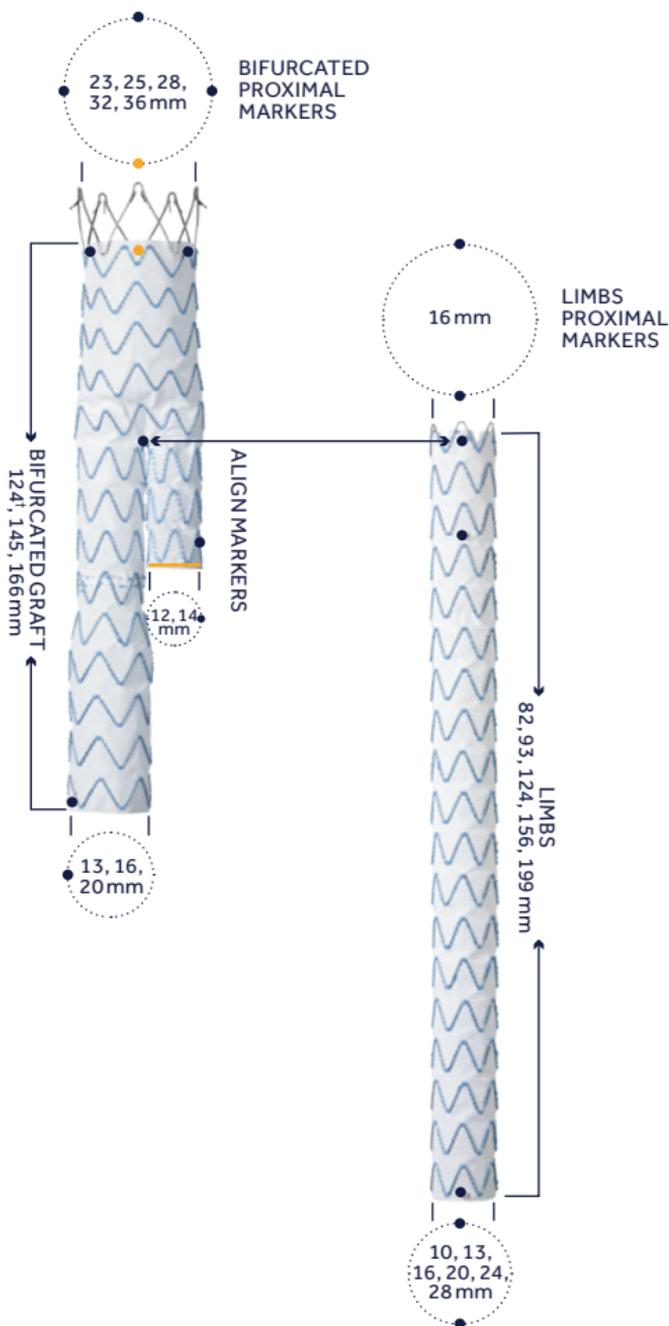
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Endurant™ II/IIs

AAA Stent Graft System

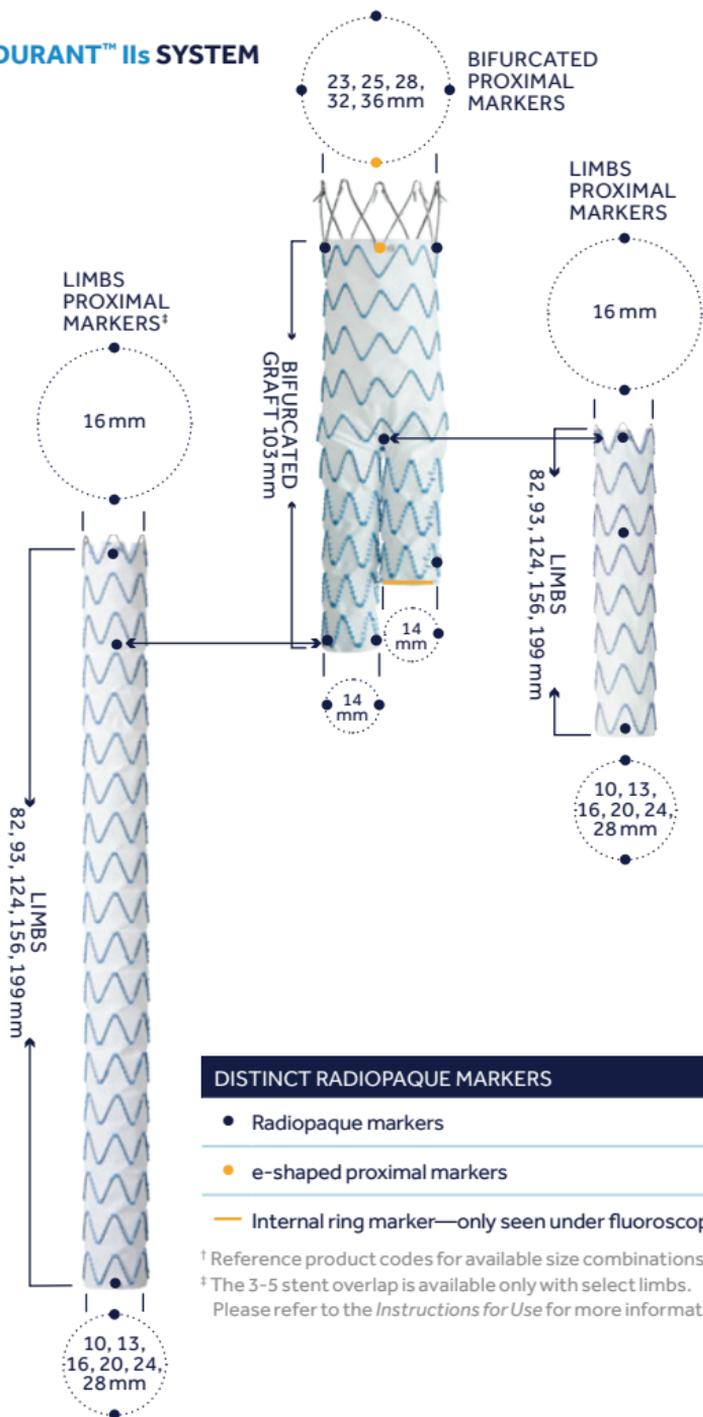
COMPONENT PLACEMENT GUIDE†

ENDURANT™ II SYSTEM





ENDURANT™ II_s SYSTEM



DISTINCT RADIOPAQUE MARKERS

- Radiopaque markers
- e-shaped proximal markers
- Internal ring marker—only seen under fluoroscopy

† Reference product codes for available size combinations.

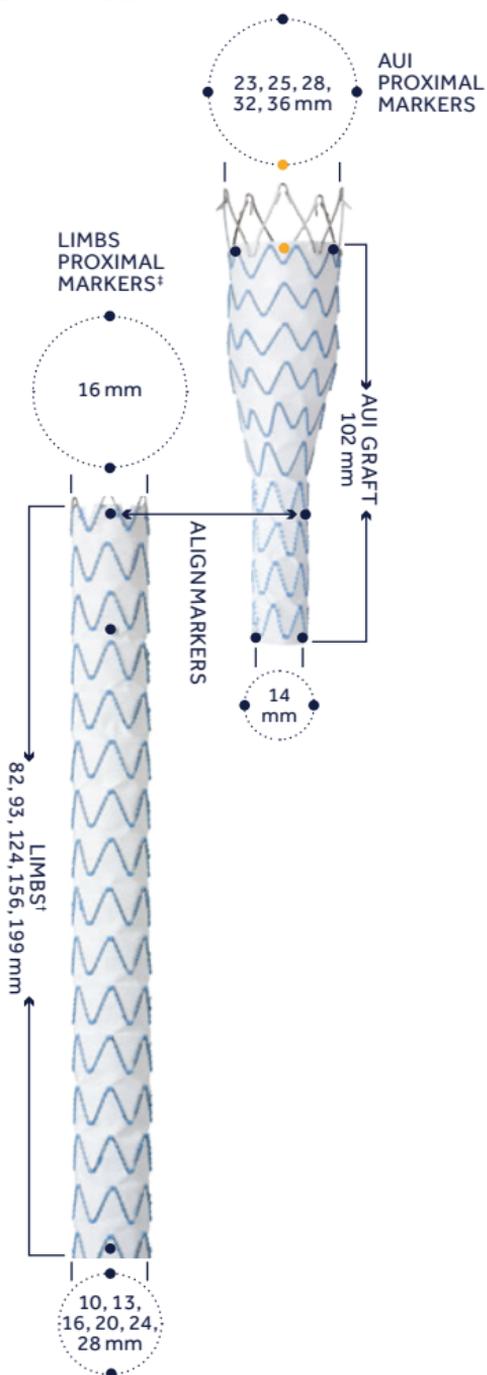
‡ The 3-5 stent overlap is available only with select limbs.

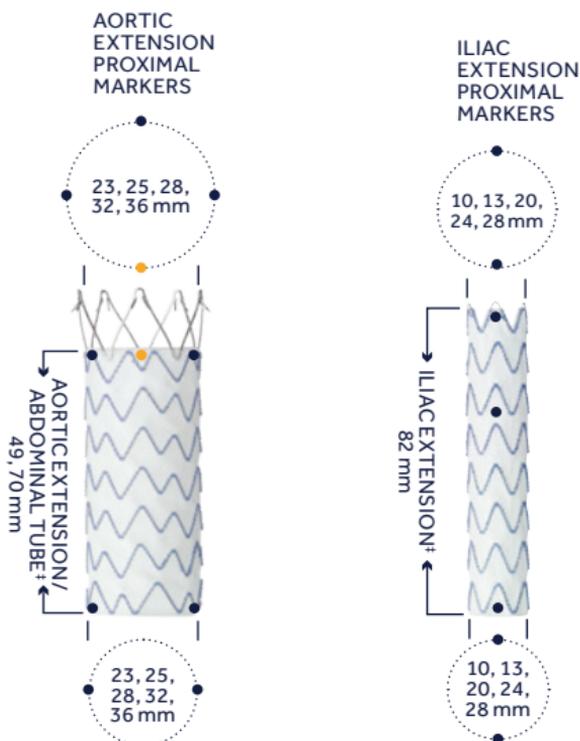
Please refer to the *Instructions for Use* for more information.

Endurant™ II/IIs

AAA Stent Graft System

COMPONENT PLACEMENT GUIDE





DISTINCT RADIOPAQUE MARKERS

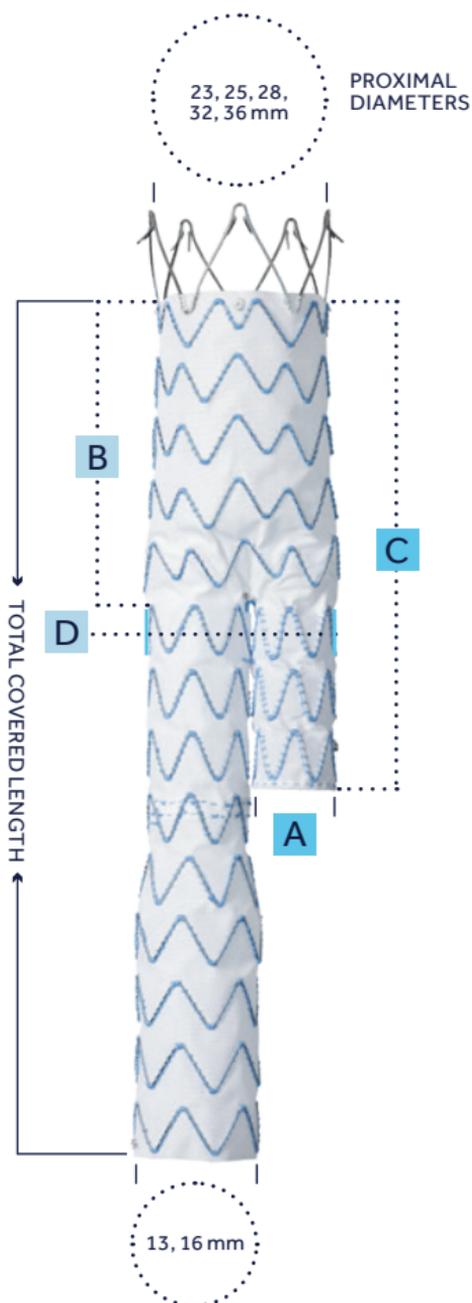
- Radiopaque markers
- e-shaped proximal markers

† The limb mates with the AUI stent graft on the ipsilateral side.

‡ Requires minimum 3 stent overlap. See *Instructions for Use* for more information.

Endurant™ II/IIs

AAA Stent Graft System



ENDURANT™ II SYSTEM BIFURCATIONS—STRAIGHT LIMBS

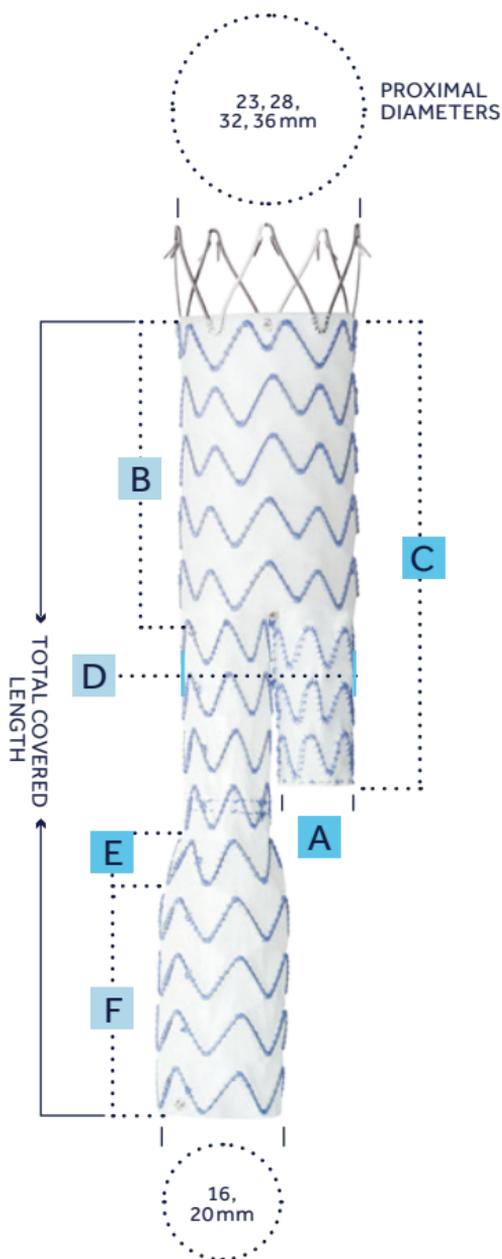


ENDURANT™ II SYSTEM BIFURCATIONS—STRAIGHT LIMBS

Product Code										
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Total Covered Length (mm)	Delivery System	Graft Dimensions (mm)				
						A	B	C	D	
ETBF	23	13	C	124	EE	12	40	74	25	
ETBF	23	13	C	145	EE	12	50	84	25	
ETBF	23	13	C	166	EE	12	50	84	25	
ETBF	25	13	C	124	EE	14	40	74	27	
ETBF	25	13	C	145	EE	14	50	84	27	
ETBF	25	13	C	166	EE	14	50	84	27	
ETBF	25	16	C	124	EE	14	40	74	30	
ETBF	25	16	C	145	EE	14	50	84	30	
ETBF	25	16	C	166	EE	14	50	84	30	
ETBF	28	13	C	124	EE	14	40	74	27	
ETBF	28	13	C	145	EE	14	50	84	27	
ETBF	28	13	C	166	EE	14	50	84	27	
ETBF	28	16	C	124	EE	14	40	74	30	
ETBF	28	16	C	145	EE	14	50	84	30	
ETBF	28	16	C	166	EE	14	50	84	30	
ETBF	32	16	C	124	EE	14	40	74	30	
ETBF	32	16	C	145	EE	14	50	84	30	
ETBF	32	16	C	166	EE	14	50	84	30	
ETBF	36	16	C	145	EE	14	50	84	30	
ETBF	36	16	C	166	EE	14	50	84	30	

Endurant™ II/IIs

AAA Stent Graft System



ENDURANT™ II SYSTEM BIFURCATIONS-FLARED LIMBS

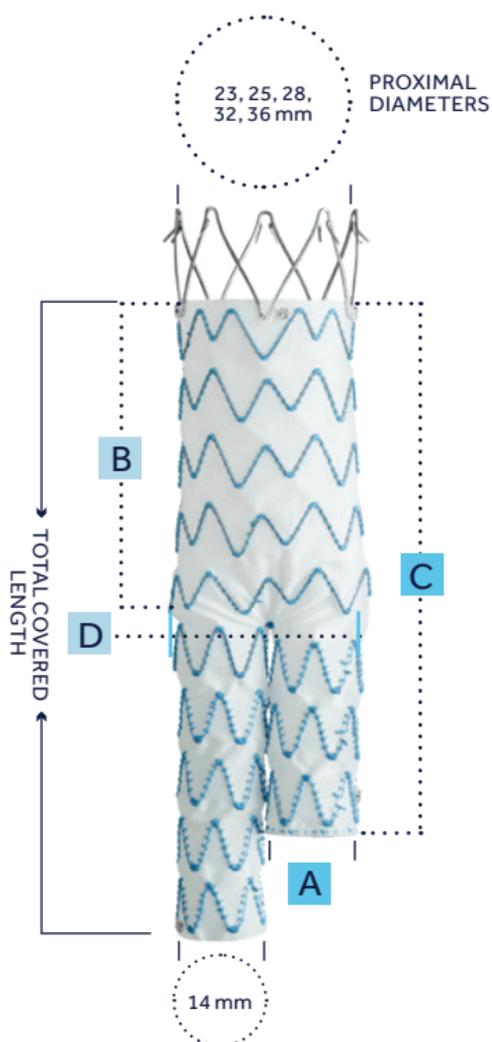


ENDURANT™ II SYSTEM BIFURCATIONS—FLARED LIMBS

Product Code											
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Total Covered Length (mm)	Delivery System	Graft Dimensions (mm)					
						A	B	C	D	E	F
ETBF	23	16	C	124	EE	12	40	74	25	10	30
ETBF	23	16	C	145	EE	12	50	84	25	10	40
ETBF	23	16	C	166	EE	12	50	84	25	10	60
ETBF	28	20	C	124	EE	14	40	74	30	10	30
ETBF	28	20	C	145	EE	14	50	84	30	10	40
ETBF	28	20	C	166	EE	14	50	84	30	10	60
ETBF	32	20	C	124	EE	14	40	74	30	10	30
ETBF	32	20	C	145	EE	14	50	84	30	10	40
ETBF	32	20	C	166	EE	14	50	84	30	10	60
ETBF	36	20	C	145	EE	14	50	84	30	10	40
ETBF	36	20	C	166	EE	14	50	84	30	10	60

Endurant™ II/IIs

AAA Stent Graft System



ENDURANT™ IIs SYSTEM BIFURCATIONS



ENDURANT™ II_s SYSTEM BIFURCATIONS

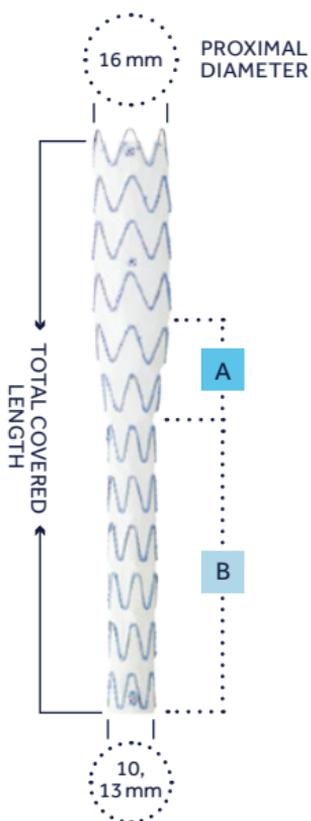
	Product Code					Graft Dimensions (mm)			
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Total Covered Length (mm)	Delivery System	A	B	C	D
	ESBF	23	14	C	103	EE	14	50	84
ESBF	25	14	C	103	EE	14	50	84	28
ESBF	28	14	C	103	EE	14	50	84	28
ESBF	32	14	C	103	EE	14	50	84	28
ESBF	36	14	C	103	EE	14	50	84	28

Endurant™ II/IIs

AAA Stent Graft System

TAPERED LIMBS

	Product Code					Graft Dimensions (mm)	
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Total Covered Length (mm)	Delivery System	A	B
	ETLW	16	10	C	82	EE	20
ETLW	16	10	C	93	EE	20	40
ETLW	16	10	C	124	EE	20	40
ETLW	16	10	C	156	EE	20	72
ETLW	16	10	C	199	EE	20	115
ETLW	16	13	C	82	EE	10	30
ETLW	16	13	C	93	EE	10	40
ETLW	16	13	C	124	EE	10	40
ETLW	16	13	C	156	EE	10	72
ETLW	16	13	C	199	EE	10	115

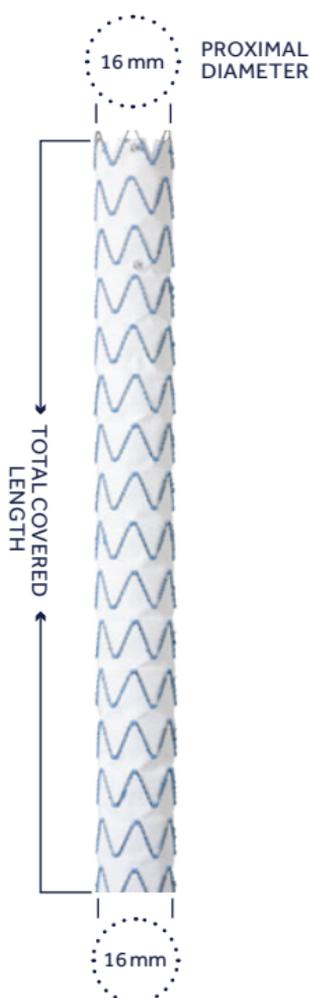


TAPERED LIMBS



STRAIGHT LIMBS

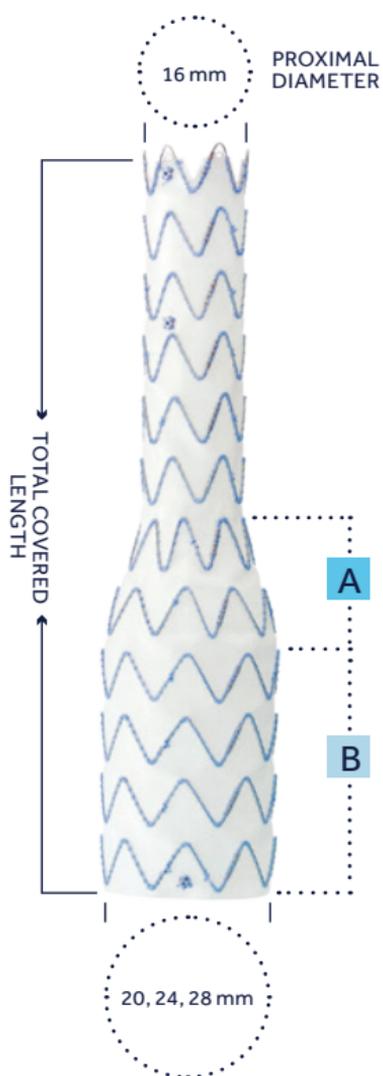
Product Code					
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Total Covered Length (mm)	Delivery System
ETLW	16	16	C	82	EE
ETLW	16	16	C	93	EE
ETLW	16	16	C	124	EE
ETLW	16	16	C	156	EE
ETLW	16	16	C	199	EE



STRAIGHT LIMBS

Endurant™ II/IIIs

AAA Stent Graft System



FLARED LIMBS



FLARED LIMBS

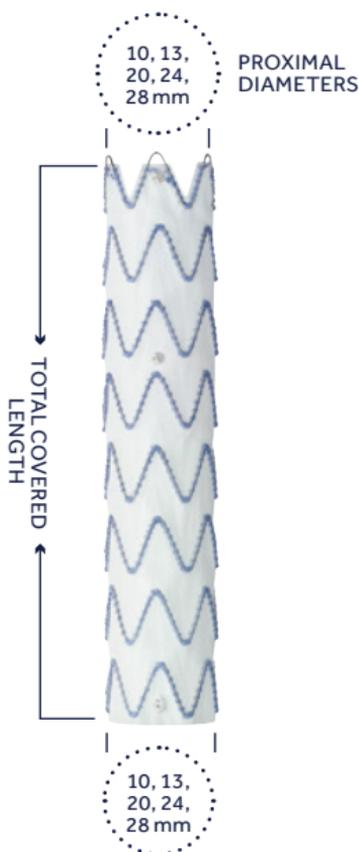
Product Code							
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Total Covered Length (mm)	Delivery System	Graft Dimensions (mm)	
						A	B
ETLW	16	20	C	82	EE	10	30
ETLW	16	20	C	93	EE	10	40
ETLW	16	20	C	124	EE	10	40
ETLW	16	20	C	156	EE	10	40
ETLW	16	20	C	199	EE	10	40
ETLW	16	24	C	82	EE	20	30
ETLW	16	24	C	93	EE	20	40
ETLW	16	24	C	124	EE	20	40
ETLW	16	24	C	156	EE	20	40
ETLW	16	24	C	199	EE	20	40
ETLW	16	28	C	82	EE	20	30
ETLW	16	28	C	93	EE	20	40
ETLW	16	28	C	124	EE	20	40
ETLW	16	28	C	156	EE	20	40
ETLW	16	28	C	199	EE	20	40

Endurant™ II/IIIs

AAA Stent Graft System

ILIAC EXTENSIONS

Product Code					
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Total Covered Length (mm)	Delivery System
EWE	10	10	C	82	EE
EWE	13	13	C	82	EE
EWE	20	20	C	82	EE
EWE	24	24	C	82	EE
EWE	28	28	C	82	EE

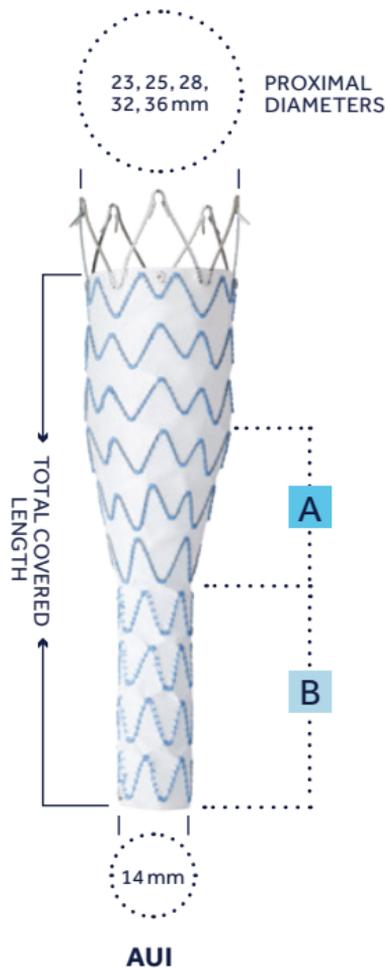


ILIAC EXTENSIONS



AUI

	Product Code					Graft Dimensions (mm)	
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Total Covered Length (mm)	Delivery System	A	B
	ETUF	23	14	C	102	EE	30
ETUF	25	14	C	102	EE	30	40
ETUF	28	14	C	102	EE	30	40
ETUF	32	14	C	102	EE	30	40
ETUF	36	14	C	102	EE	30	40

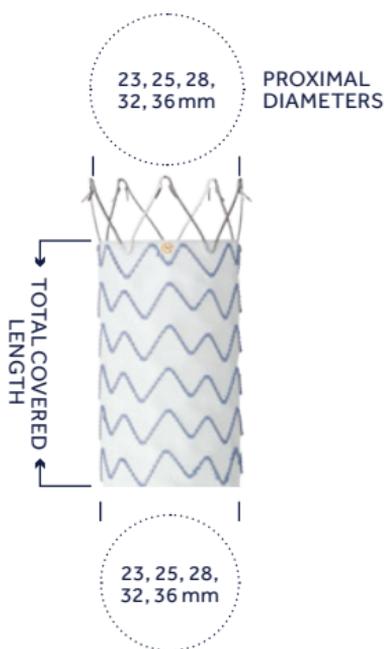


Endurant™ II/IIIs

AAA Stent Graft System

AORTIC EXTENSIONS

Product Code					
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Total Covered Length (mm)	Delivery System
ETCF	23	23	C	49	EE
ETCF	25	25	C	49	EE
ETCF	28	28	C	49	EE
ETCF	32	32	C	49	EE
ETCF	36	36	C	49	EE

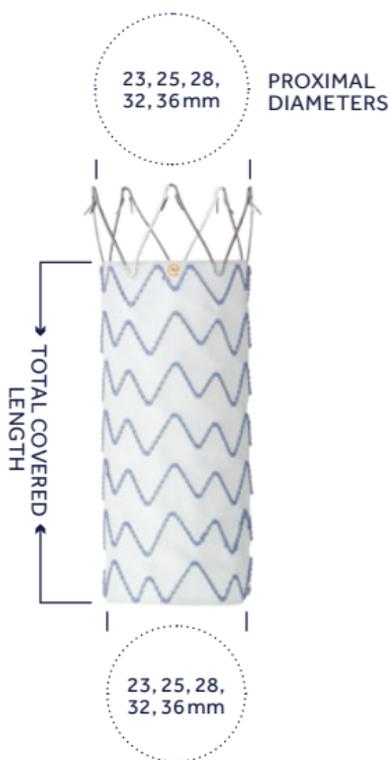


AORTIC EXTENSIONS



ABDOMINAL TUBES

Product Code					
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Total Covered Length (mm)	Delivery System
ETTF	23	23	C	70	EE
ETTF	25	25	C	70	EE
ETTF	28	28	C	70	EE
ETTF	32	32	C	70	EE
ETTF	36	36	C	70	EE



ABDOMINAL TUBES

Talent™ Occluder

with Occluder Delivery System

FEATURES

Double spring configuration securely anchors in the iliac artery to seal the lumen and to prevent retrograde blood flow.

COMPONENT PLACEMENT GUIDE

PRODUCT CODE DESCRIPTION

OCL	8	31	17.5
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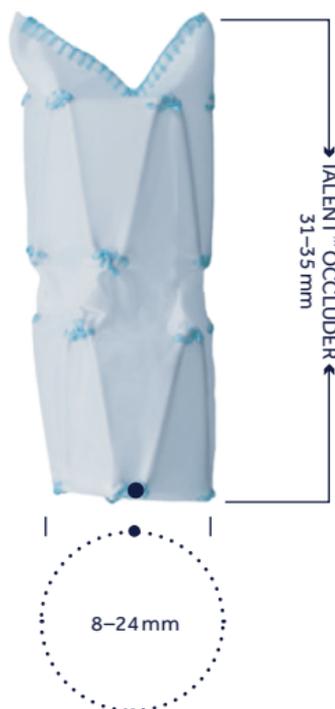
Device Configuration

OCL - Occluder

Proximal / Distal Diameter

Total Length

Catheter Diameter



- Radiopaque markers



TALENT™ OCCLUDER

Product Code			
	Proximal/ Distal Diameter (mm)	Total Length (mm)	Catheter Diameter (Fr)
OCL	8	31	17.5
OCL	10	31	17.5
OCL	12	31	17.5
OCL	14	33	17.5
OCL	16	33	17.5
OCL	18	33	17.5
OCL	20	35	17.5
OCL	22	35	17.5
OCL	24	35	17.5

OCCLUDER SYSTEM COMPONENT

Native Vessel (mm)	Suggested Stent Graft Diameter (mm)	Oversizing (mm)
19–20	24	4–5
18	22	4
16–17	20	3–4
14–15	18	3–4
13	16	3
11–12	14	2–3
9–10	12	2–3
7–8	10	2–3
6	8	2

Valiant Navion™

Thoracic Stent Graft System

The Freedom to Do More

Low profile, easy-to-use delivery system designed for expanded access with smooth navigation

FEATURES

Delivery System

- Tip Capture: for controlled delivery and deployment on both FreeFlo and CoveredSeal configurations
- Designed for simplified navigation: flexible, kink-resistant hydrophilic-coated catheter
- Shorter tapered tip designed to decrease vessel impact

Stent Graft

- Multi-filament thoracic graft material based on Endurant™ stent graft yarn designed for flexibility and superior permeability resistance
- Aligned stent peaks and valleys designed for increased flexibility throughout the stent graft
- Increased distance between stents designed to optimize migration resistance & conformability

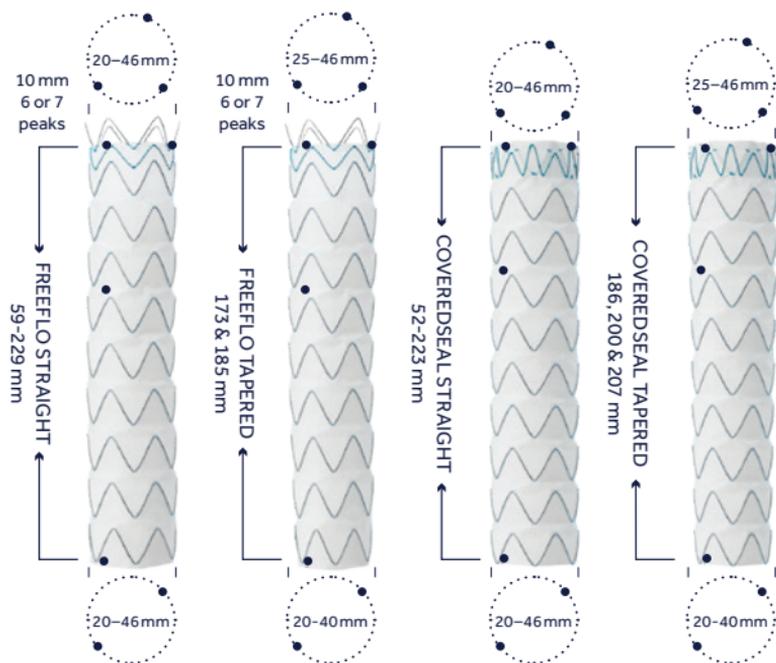
Proven Platforms

- Leverages proven design of the Valiant™ and Endurant™ stent graft system platforms
- 100K+ thoracic and 300K abdominal patients treated†
- Over 20 years of endovascular experience with deep clinical history

† Data on file at Medtronic.



COMPONENT GUIDE



DISTINCT RADIOPAQUE MARKER

- Spherical RO Marker

Valiant Navion™

Thoracic Stent Graft System

Each Valiant Navion™ thoracic stent graft device must be ordered in a size appropriate to fit the patient's anatomy. Proper sizing of the Valiant Navion™ thoracic stent graft is the responsibility of the physician.

Aneurysms, Penetrating Ulcers (PAU):

Enlarge the aortic portion of the stent graft by 3 to 7 mm, as appropriate for the patient. The following table is provided as a guideline.

Dissection:

Do not enlarge the stent graft more than 10% of the healthy aorta nominal diameter. The following table is provided as a guideline.

For Additional Sections:

When the stent graft junction is located within the aneurysmal sac or is not supported by tissue, 6 mm oversizing between the primary component and additional section is recommended. In the case when a 20 mm stent graft is used as an outside component, the diameter of the inside component should be oversized by 5 mm relative to the outside component.

When the stent graft junction is supported by tissue (e.g., dissections), the stent graft should be oversized relative to the supporting native vessel.

Aneurysms or PAU

Native Vessel (mm)	Suggested Stent Graft Diameter (mm)	Oversizing (mm)
16	20	4
17	20	3
18	22	4
19	22	3
20	25	5
21	25	4
22	25	3
23	28	5
24	28	4
25	28	3
26	31	5
27	31	4
28	31	3
28	34	6
29	34	5
30	34	4
31	34	3
30	37	7
31	37	6
32	37	5
33	37	4
33	40	7
34	40	6
35	40	5
36	40	4
36	43	7
37	43	6
38	43	5
39	43	4
39	46	7
40	46	6
41	46	5
42	46	4



Dissection

Native Vessel (mm)	Suggested Stent Graft Diameter (mm)	Oversizing (mm)
19	20	1
20	22	2
21	22	1
22	22	0
23	25	2
24	25	1
25	25	0
26	28	2
27	28	1
28	28	0
29	31	2
30	31	1
31	34	3
32	34	2
33	34	1
34	37	3
35	37	2
36	37	1
37	40	3
38	40	2
39	40	1
39	43	4
40	43	3
41	43	2
42	43	1
42	46	4
43	46	3
44	46	2
45	46	1

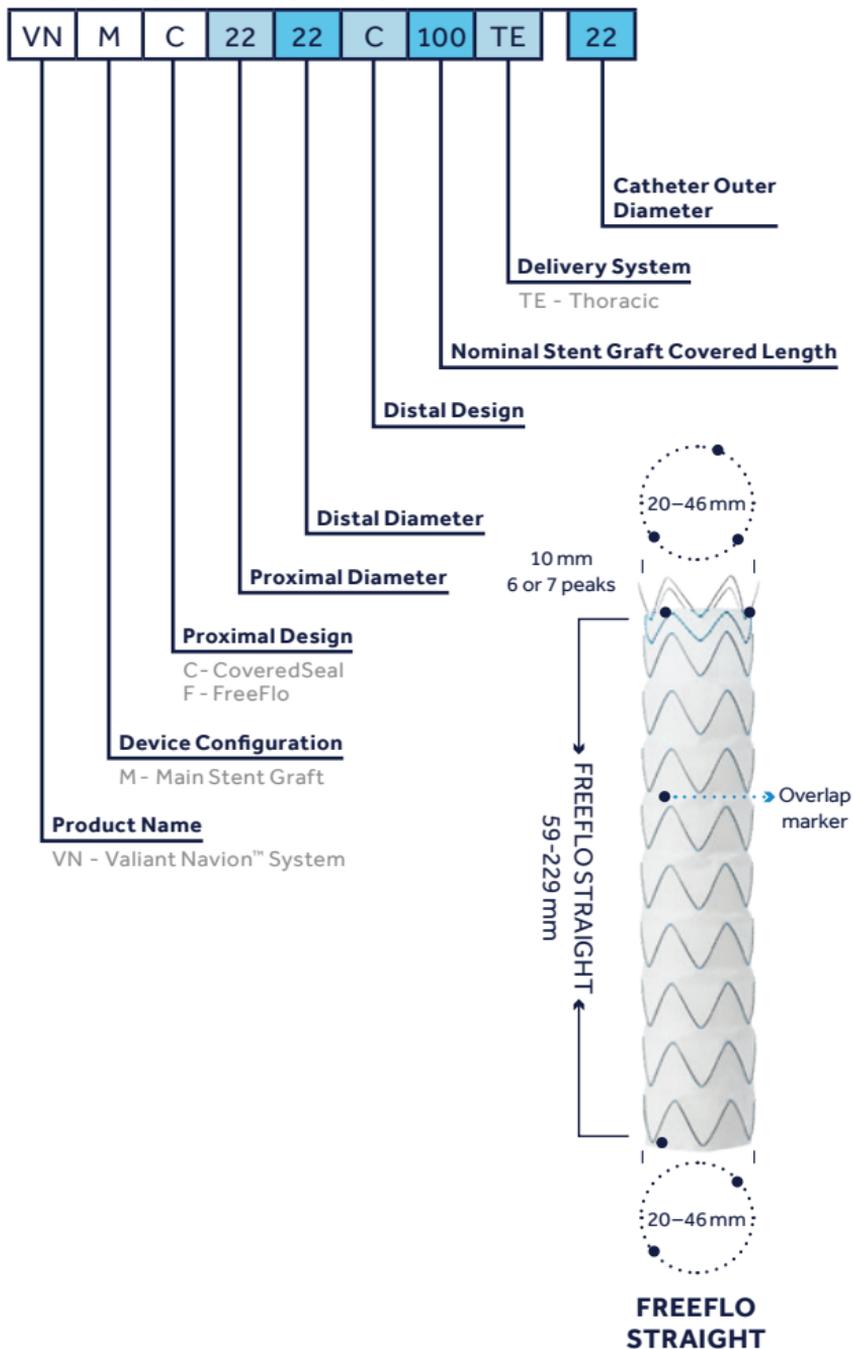
Blunt Thoracic Aortic Injury

Native Vessel (mm)	Suggested Stent Graft Diameter (mm)	Oversizing (mm)
16	20	4
17	20	3
18	22	4
19	22	3
20	22	2
20	25	5
21	25	4
22	25	3
23	25	2
23	28	5
24	28	4
25	28	3
26	28	2
26	31	5
27	31	4
28	31	3
29	31	2
28	34	6
29	34	5
30	34	4
31	34	3
32	34	2
30	37	7
31	37	6
32	37	5
33	37	4
34	37	3
35	37	2
33	40	7
34	40	6
35	40	5
36	40	4
37	40	3
38	40	2
36	43	7
37	43	6
38	43	5
39	43	4
40	43	3
41	43	2
39	46	7
40	46	6
41	46	5
42	46	4
43	46	3
44	46	2

Valiant Navion™

Thoracic Stent Graft System

VALIANT NAVION™ SYSTEM PRODUCT CODE DESCRIPTION



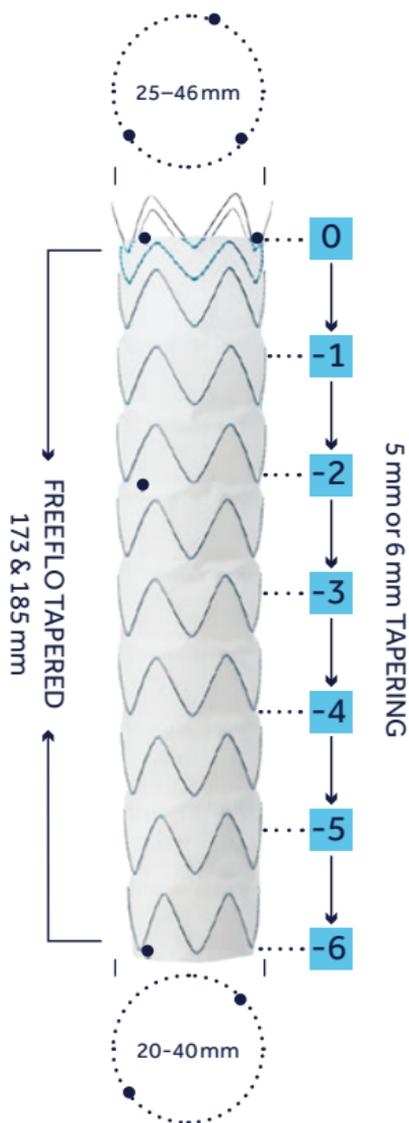


FREEFLO STRAIGHT

Product Code						
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)		Stent Graft Covered Length (mm)		Catheter Outer Diameter (Fr)
VNMF	20	20	C	96	TE	18
VNMF	22	22	C	96	TE	18
VNMF	22	22	C	185	TE	18
VNMF	25	25	C	96	TE	18
VNMF	25	25	C	185	TE	18
VNMF	28	28	C	97	TE	20
VNMF	28	28	C	174	TE	20
VNMF	31	31	C	97	TE	20
VNMF	31	31	C	174	TE	20
VNMF	31	31	C	229	TE	20
VNMF	34	34	C	59	TE	20
VNMF	34	34	C	97	TE	20
VNMF	34	34	C	174	TE	20
VNMF	34	34	C	229	TE	20
VNMF	37	37	C	59	TE	20
VNMF	37	37	C	97	TE	20
VNMF	37	37	C	174	TE	20
VNMF	37	37	C	229	TE	20
VNMF	40	40	C	62	TE	22
VNMF	40	40	C	103	TE	22
VNMF	40	40	C	183	TE	22
VNMF	40	40	C	223	TE	22
VNMF	43	43	C	62	TE	22
VNMF	43	43	C	103	TE	22
VNMF	43	43	C	183	TE	22
VNMF	43	43	C	223	TE	22
VNMF	46	46	C	62	TE	22
VNMF	46	46	C	103	TE	22
VNMF	46	46	C	183	TE	22
VNMF	46	46	C	223	TE	22

LOCATION OF OVERLAP MARKER

Proximal Diameter (mm)	Overlap Marker positioning (distance from fabric edge) FreeFlo straight configuration (mm)
20	48.0
22	48.0
25	48.0
28	56.5
31	56.5
34	56.5
37	56.5
40	59.0
43	59.0
46	59.0



FREEFLO TAPERED



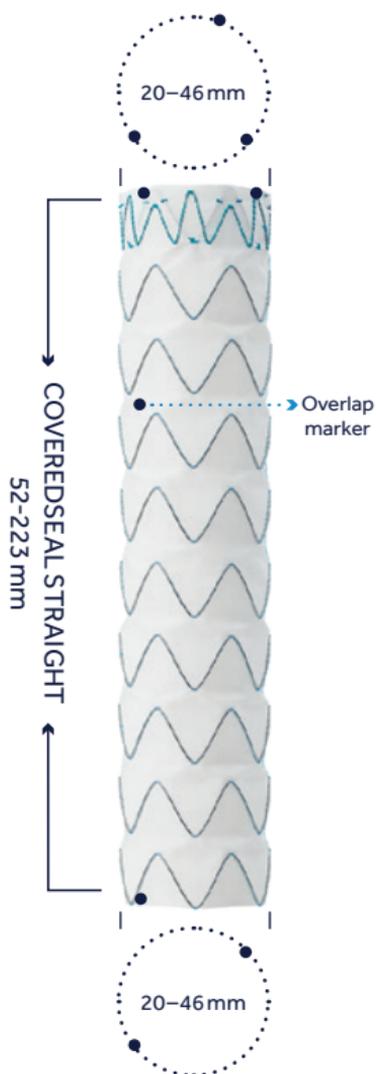
FREEFLO TAPERED

Product Code						
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)		Stent Graft Covered Length (mm)		Catheter Outer Diameter (Fr)
VNMF	25	20	C	185	TE	18
VNMF	28	22	C	173	TE	20
VNMF	31	25	C	173	TE	20
VNMF	34	28	C	173	TE	20
VNMF	37	31	C	173	TE	20
VNMF	40	34	C	185	TE	22
VNMF	43	37	C	185	TE	22
VNMF	46	40	C	185	TE	22

GRADUATED TAPERING SPECIFICATIONS

FREEFLO TAPERED CONFIGURATION (5mm taper)		FREEFLO TAPERED CONFIGURATION (6mm taper)		FREEFLO TAPERED CONFIGURATION (6mm taper)	
25mm x 20mm x 185mm		28mm x 22mm x 173mm 31mm x 25mm x 173mm 34mm x 28mm x 173mm 37mm x 31mm x 173mm		40mm x 34mm x 185mm 43mm x 37mm x 185mm 46mm x 40mm x 185mm	
Distance from proximal edge (mm)	1mm Taper Increments	Distance from proximal edge (mm)	1mm Taper Increments	Distance from proximal edge (mm)	1mm Taper Increments
0	0	0	0	0	0
37	-1	29	-1	31	-1
74	-2	58	-2	62	-2
111	-3	87	-3	93	-3
148	-4	115	-4	123	-4
185	-5	144	-5	154	-5
		173	-6	185	-6

Available in nominal length of ~175mm length



**COVEREDSEAL
STRAIGHT**



COVEREDSEAL STRAIGHT

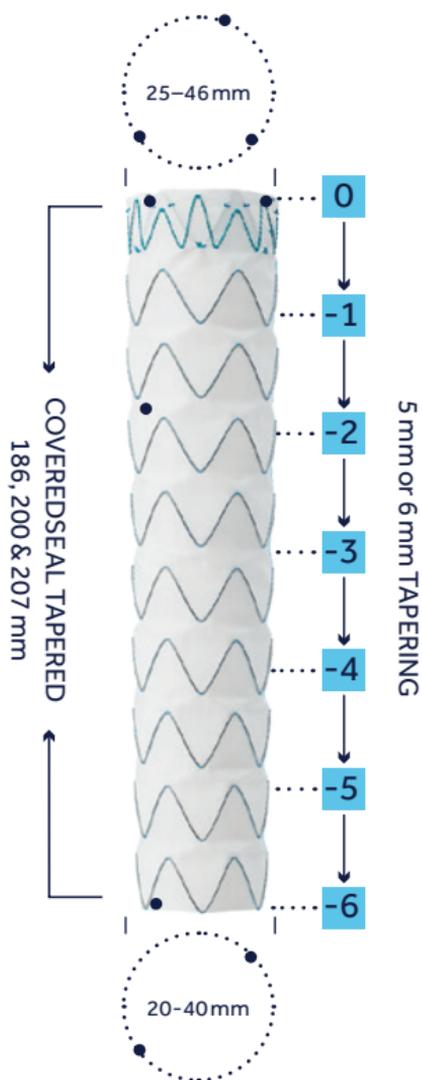
Product Code						
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)		Stent Graft Covered Length (mm)		Catheter Outer Diameter (Fr)
VNMC	20	20	C	94	TE	18
VNMC	22	22	C	94	TE	18
VNMC	22	22	C	180	TE	18
VNMC	25	25	C	94	TE	18
VNMC	25	25	C	180	TE	18
VNMC	28	28	C	90	TE	20
VNMC	28	28	C	182	TE	20
VNMC	31	31	C	90	TE	20
VNMC	31	31	C	182	TE	20
VNMC	31	31	C	223	TE	20
VNMC	34	34	C	52	TE	20
VNMC	34	34	C	90	TE	20
VNMC	34	34	C	182	TE	20
VNMC	34	34	C	223	TE	20
VNMC	37	37	C	52	TE	20
VNMC	37	37	C	90	TE	20
VNMC	37	37	C	182	TE	20
VNMC	37	37	C	223	TE	20
VNMC	40	40	C	55	TE	22
VNMC	40	40	C	95	TE	22
VNMC	40	40	C	175	TE	22
VNMC	40	40	C	218	TE	22
VNMC	43	43	C	55	TE	22
VNMC	43	43	C	95	TE	22
VNMC	43	43	C	175	TE	22
VNMC	43	43	C	218	TE	22
VNMC	46	46	C	55	TE	22
VNMC	46	46	C	95	TE	22
VNMC	46	46	C	175	TE	22
VNMC	46	46	C	218	TE	22

LOCATION OF OVERLAP MARKER

Proximal Diameter (mm)	Overlap Marker positioning (distance from fabric edge) CoveredSeal straight configuration (mm)
20	46.5
22	46.5
25	46.5
28	52.5
31	52.5
34	52.5
37	52.5
40	55.5
43	55.5
46	55.5

Valiant Navion™

Thoracic Stent Graft System



**COVEREDSEAL
TAPERED**



COVEREDSEAL TAPERED

Product Code						
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)		Stent Graft Covered Length (mm)		Catheter Outer Diameter (Fr)
VNMC	25	20	C	186	TE	18
VNMC	28	22	C	207	TE	20
VNMC	31	25	C	207	TE	20
VNMC	34	28	C	207	TE	20
VNMC	37	31	C	207	TE	20
VNMC	40	34	C	200	TE	22
VNMC	43	37	C	200	TE	22
VNMC	46	40	C	200	TE	22

GRADUATED TAPERING SPECIFICATIONS

COVEREDSEAL TAPERED CONFIGURATION (5mm taper)		COVEREDSEAL TAPERED CONFIGURATION (6mm taper)		COVEREDSEAL TAPERED CONFIGURATION (6mm taper)	
25mm x 20mm x 186mm		28mm x 22mm x 207mm 31mm x 25mm x 207mm 34mm x 28mm x 207mm 37mm x 31mm x 207mm		40mm x 34mm x 200mm 43mm x 37mm x 200mm 46mm x 40mm x 200mm	
Distance from proximal edge (mm)	1mm Taper Increments	Distance from proximal edge (mm)	1mm Taper Increments	Distance from proximal edge (mm)	1mm Taper Increments
0	0	0	0	0	0
37	-1	35	-1	33	-1
74	-2	69	-2	67	-2
112	-3	104	-3	100	-3
149	-4	138	-4	133	-4
186	-5	173	-5	167	-5
		207	-6	200	-6

Available in ~ 175mm nominal length only for the smallest device
 Devices from 28mm to 46mm available in ~200mm nominal length

Valiant™ Captivia™

Thoracic Stent Graft Delivery System

FEATURES

Conformability Delivered

- Sinusoidal shape and placement of nitinol springs provide flexibility and conformability
- Super-elastic nitinol springs exert active radial force to enhance seal and conformability

Confidence in Control

- Tip capture provides controlled deployment and precise placement in the thoracic aorta
- Tip capture release handle provides simple turn-and-pull motion to release proximal stents

Advanced Design†

- Proximal 8-Peak FreeFlo configuration evenly distributes radial force over multiple apices
- Platinum iridium Figur8 markers provide high visibility and assist deployment
- Broad selection of proximal and distal components treats a variety of patients

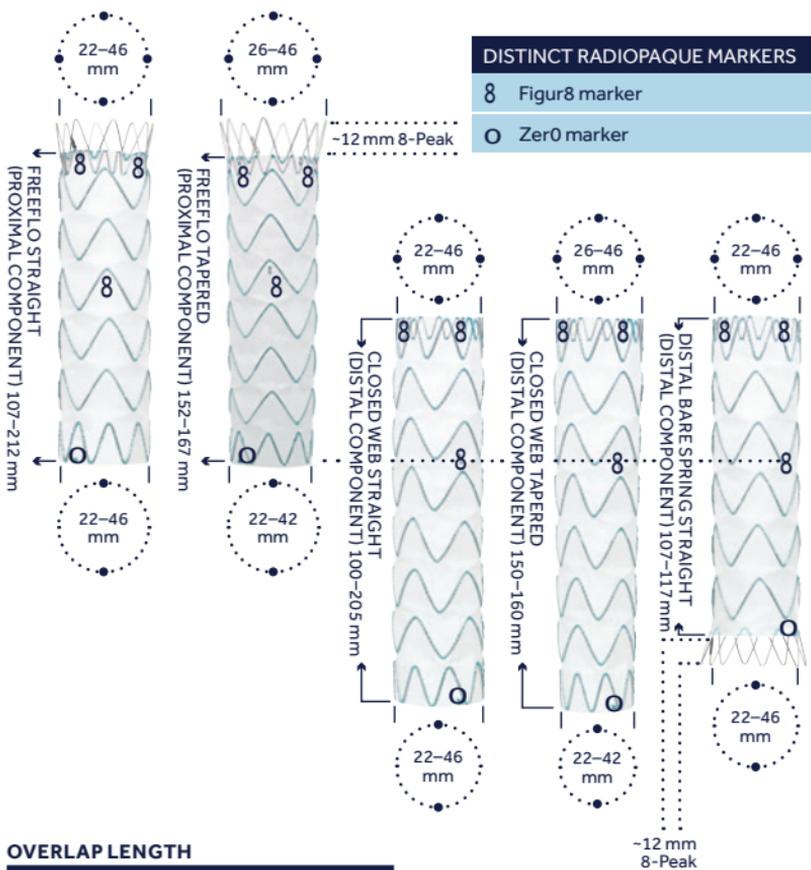
Optimised Access

- Crossing profile is similar to or lower than other thoracic stent grafts
- Hydrophilic coating facilitates stent graft delivery
- Easy three-step deployment process

† Test data on file at Medtronic. Bench test results may not be indicative of clinical performance.



COMPONENT PLACEMENT GUIDE



DISTINCT RADIOPAQUE MARKERS

8 Figur8 marker

O Zer0 marker

OVERLAP LENGTH

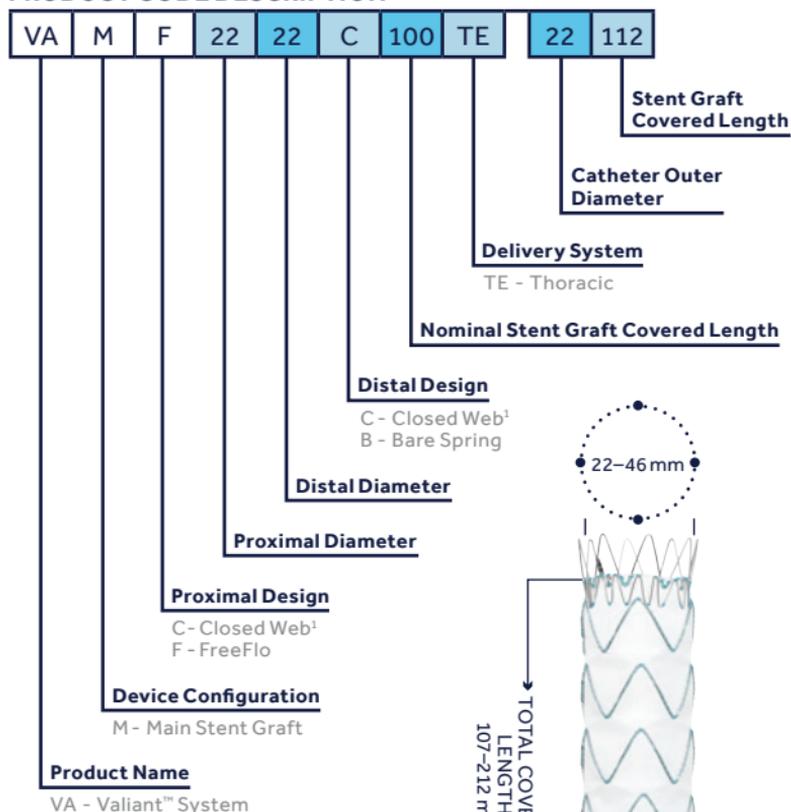
Proximal Diameter of Stent Graft (mm)	Overlap Length (mm)
22	50
24	50
26	50
28	55
30	55
32	55
34	55
36	60
38	60
40	60
42	60
44	65
46	65

Overlap lengths may vary by ± 5 mm

Valiant™ Captivia™

Thoracic Stent Graft Delivery System

VALIANT™ CAPTIVIA™ SYSTEM PRODUCT CODE DESCRIPTION



¹ The proximal end of all Valiant™ stent grafts include a mini support spring.



PROXIMAL FREEFLO STRAIGHT

Product Code						Catheter Outer Diameter (Fr)	Stent Graft Covered Length (mm)
VAMF	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Length (mm)	TE		
VAMF	22	22	C	100	TE	22	112
VAMF	24	24	C	100	TE	22	112
VAMF	26	26	C	100	TE	22	112
VAMF	28	28	C	100	TE	22	117
VAMF	30	30	C	100	TE	22	117
VAMF	32	32	C	100	TE	22	117
VAMF	34	34	C	100	TE	24	107
VAMF	36	36	C	100	TE	24	107
VAMF	38	38	C	100	TE	24	107
VAMF	40	40	C	100	TE	24	107
VAMF	42	42	C	100	TE	25	112
VAMF	44	44	C	100	TE	25	112
VAMF	46	46	C	100	TE	25	112
VAMF	22	22	C	150	TE	22	152
VAMF	24	24	C	150	TE	22	152
VAMF	26	26	C	150	TE	22	152
VAMF	28	28	C	150	TE	22	157
VAMF	30	30	C	150	TE	22	157
VAMF	32	32	C	150	TE	22	157
VAMF	34	34	C	150	TE	24	167
VAMF	36	36	C	150	TE	24	167
VAMF	38	38	C	150	TE	24	167
VAMF	40	40	C	150	TE	24	167
VAMF	42	42	C	150	TE	25	157
VAMF	44	44	C	150	TE	25	157
VAMF	46	46	C	150	TE	25	162
VAMF	30	30	C	200	TE	22	192
VAMF	32	32	C	200	TE	22	192
VAMF	34	34	C	200	TE	24	212
VAMF	36	36	C	200	TE	24	207
VAMF	38	38	C	200	TE	24	207
VAMF	40	40	C	200	TE	24	212
VAMF	42	42	C	200	TE	25	207
VAMF	44	44	C	200	TE	25	212
VAMF	46	46	C	200	TE	25	212

Valiant™ Captivia™

Thoracic Stent Graft Delivery System



**PROXIMAL FREEFLO
TAPERED**



PROXIMAL FREEFLO TAPERED

Product Code						Catheter Outer Diameter (Fr)	Stent Graft Covered Length (mm)
VAMF	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Length (mm)	TE		
VAMF	26	22	C	150	TE	22	152
VAMF	28	24	C	150	TE	22	157
VAMF	30	26	C	150	TE	22	157
VAMF	32	28	C	150	TE	22	157
VAMF	34	30	C	150	TE	24	167
VAMF	36	32	C	150	TE	24	167
VAMF	38	34	C	150	TE	24	167
VAMF	40	36	C	150	TE	24	167
VAMF	42	38	C	150	TE	25	157
VAMF	44	40	C	150	TE	25	157
VAMF	46	42	C	150	TE	25	162

Valiant™ Captivia™

Thoracic Stent Graft Delivery System

Each Valiant™ thoracic stent graft device must be ordered in a size appropriate to fit the patient's anatomy. Proper sizing of the Valiant™ thoracic stent graft is the responsibility of the physician.

Aneurysms, Penetrating Ulcers and Traumatic Ruptures:

Oversize the aortic portion of the stent graft by 3 to 5 mm, as appropriate for the patient. The following table is provided as a guideline:

Native Vessel (mm)	Suggested Stent Graft Diameter (mm)	Oversizing (mm)
18	22	4
19	22	3
20	24	4
21	24	3
22	26	4
23	26	3
24	28	4
25	28	3
25	30	5
26	30	4
27	30	3
27	32	5
28	32	4
29	32	3
29	34	5
30	34	4
31	34	3
31	36	5
32	36	4
33	38	5
34	38	4
35	40	5
36	40	4
37	42	5
38	42	4
39	44	5
40	44	4
41	46	5
42	46	4



Dissection:

Do not oversize the stent graft more than 10% of the healthy aorta nominal diameter. The following table is provided as a guideline:

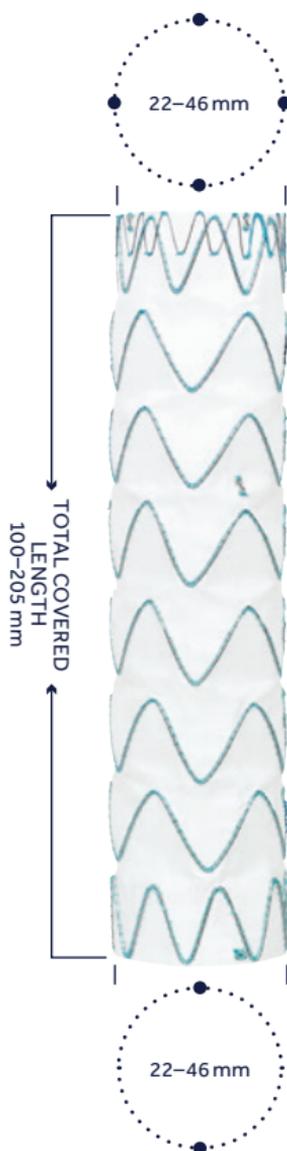
Native Vessel (mm)	Suggested Stent Graft Diameter (mm)	Oversizing (mm)
20	22	2
21	22	1
22	24	2
23	24	1
24	26	2
25	26	1
26	28	2
27	28	1
28	30	2
29	32	3
30	32	2
31	34	3
32	34	2
33	36	3
34	36	2
35	38	3
36	38	2
37	40	3
38	40	2
39	42	3
40	42	2
40	44	4
41	44	3
42	44	2
42	46	4
43	46	3
44	46	2

For Additional Sections:

When the stent graft junction is located within the aneurismal sac or is not supported by tissue, a 4 mm oversizing between the primary component and additional section is recommended. When the stent graft junction is supported by tissue (e.g., dissections), less oversizing may be appropriate to satisfy the oversizing recommendations listed above.

Valiant™ Captivia™

Thoracic Stent Graft Delivery System



CLOSED WEB STRAIGHT

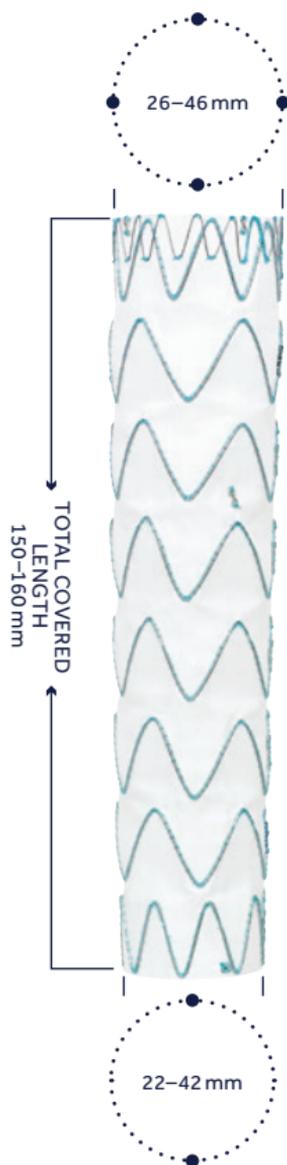


CLOSED WEB STRAIGHT

Product Code						Catheter Outer Diameter (Fr)	Stent Graft Covered Length (mm)
VAMC	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Length (cm)	TE		
VAMC	22	22	C	100	TE	22	105
VAMC	24	24	C	100	TE	22	105
VAMC	26	26	C	100	TE	22	105
VAMC	28	28	C	100	TE	22	110
VAMC	30	30	C	100	TE	22	110
VAMC	32	32	C	100	TE	22	110
VAMC	34	34	C	100	TE	24	100
VAMC	36	36	C	100	TE	24	100
VAMC	38	38	C	100	TE	24	100
VAMC	40	40	C	100	TE	24	100
VAMC	42	42	C	100	TE	25	105
VAMC	44	44	C	100	TE	25	105
VAMC	46	46	C	100	TE	25	105
VAMC	22	22	C	150	TE	22	145
VAMC	24	24	C	150	TE	22	145
VAMC	26	26	C	150	TE	22	145
VAMC	28	28	C	150	TE	22	150
VAMC	30	30	C	150	TE	22	150
VAMC	32	32	C	150	TE	22	150
VAMC	34	34	C	150	TE	24	160
VAMC	36	36	C	150	TE	24	160
VAMC	38	38	C	150	TE	24	160
VAMC	40	40	C	150	TE	24	160
VAMC	42	42	C	150	TE	25	150
VAMC	44	44	C	150	TE	25	150
VAMC	46	46	C	150	TE	25	155
VAMC	30	30	C	200	TE	22	185
VAMC	32	32	C	200	TE	22	185
VAMC	34	34	C	200	TE	24	205
VAMC	36	36	C	200	TE	24	200
VAMC	38	38	C	200	TE	24	200
VAMC	40	40	C	200	TE	24	205
VAMC	42	42	C	200	TE	25	200
VAMC	44	44	C	200	TE	25	205
VAMC	46	46	C	200	TE	25	205

Valiant™ Captivia™

Thoracic Stent Graft Delivery System



CLOSED WEB TAPERED

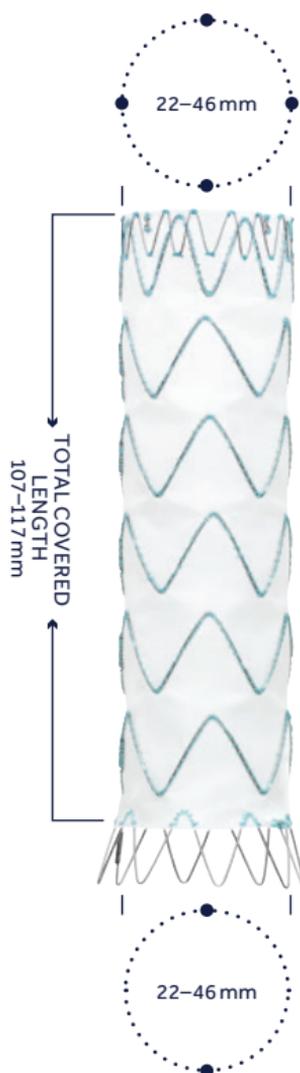


CLOSED WEB TAPERED

Product Code						Catheter Outer Diameter (Fr)	Stent Graft Covered Length (mm)
VAMC	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design	Length (mm)	TE		
VAMC	26	22	C	150	TE	22	150
VAMC	28	24	C	150	TE	22	150
VAMC	30	26	C	150	TE	22	150
VAMC	32	28	C	150	TE	22	150
VAMC	34	30	C	150	TE	24	160
VAMC	36	32	C	150	TE	24	160
VAMC	38	34	C	150	TE	24	160
VAMC	40	36	C	150	TE	24	160
VAMC	42	38	C	150	TE	25	150
VAMC	44	40	C	150	TE	25	150
VAMC	46	42	C	150	TE	25	155

Valiant™ Captivia™

Thoracic Stent Graft Delivery System



DISTAL BARE SPRING STRAIGHT



DISTAL BARE SPRING STRAIGHT

Product Code							
	Proximal Graft Diameter (mm)	Distal Graft Diameter (mm)	Distal Design			Catheter Outer Diameter (Fr)	Stent Graft Covered Length (mm)
VAMC	22	22	B	100	TE	22	112
VAMC	24	24	B	100	TE	22	112
VAMC	26	26	B	100	TE	22	112
VAMC	28	28	B	100	TE	22	117
VAMC	30	30	B	100	TE	22	117
VAMC	32	32	B	100	TE	22	117
VAMC	34	34	B	100	TE	24	107
VAMC	36	36	B	100	TE	24	107
VAMC	38	38	B	100	TE	24	107
VAMC	40	40	B	100	TE	24	107
VAMC	42	42	B	100	TE	25	112
VAMC	44	44	B	100	TE	25	112
VAMC	46	46	B	100	TE	25	112

FEATURES

Enhance outcomes and durability†

- Helical EndoAnchor™ implants provide the stability of a surgical anastomosis‡
- Enhances the inherent sealing and fixation mechanisms of an endograft
- Simplifies revision surgery for endograft migration and Type Ia endoleak
- When used in combination with the Endurant™ II/IIIs stent graft system, indicated for AAA patients with neck lengths <10mm down to 4mm

Tailor seal and fixation in primary and revision EVAR and TEVAR

- Steerable guide for precise and accurate EndoAnchor™ implant placement
- Motorized, intuitive controls for precise placement of EndoAnchor™ implants

Allow safe and effective treatment of more complex anatomies

- Maximize outcomes in complex cases
- Confidently and rapidly target and seal Type Ia endoleaks

EVAR ORDERING INFORMATION

AAA Components (mm)	Deflected Tip Reach (mm)	Recommended Neck Diameter (mm)	Working Length (cm)	O.D. (Fr)	Catalog Number
Heli-FX™ System Guide, 22	22	18-28	62	16	SG-64
Heli-FX™ System Guide, 28	28	28-32	62	16	HG-16-62-28
Heli-FX™ Applier and EndoAnchor™ Cassette (w/10 EndoAnchor™ Implants)	NA	NA	86	12	SA-85
Ancillary EndoAnchor™ Cassette (w/5 EndoAnchor™ Implants)	NA	NA	NA	NA	EC-05

† Bench test data on file at Medtronic. Test data not indicative of clinical performance.

‡ Melas N, et al. Helical EndoAnchor Implants Provide the Stability of a Surgical Anastomosis. J Vasc Surg. 2012;55(6):1726-1733.



TEVAR ORDERING INFORMATION

TAA Components (mm)	Deflected Tip Reach (mm)	Recommended Neck Diameter (mm)	Working Length (cm)	O.D. (Fr)	Catalog Number
Heli-FX™ System Guide, 22	22	18-28	90	18	HG-18-90-22
Heli-FX™ System Guide, 32	32	28-38	90	18	HG-18-90-32
Heli-FX™ System Guide, 42	42	38-42	90	18	HG-18-90-42
Heli-FX™ Applier and EndoAnchor™ Cassette (w/10 EndoAnchor™ Implants)	NA	NA	114cm	12	HA-18-114
Ancillary EndoAnchor™ Cassette (w/5 EndoAnchor™ Implants)	NA	NA	NA	NA	EC-05

TourGuide™

Steerable Sheath

FEATURES

Precisely Guide Your Next Intervention†

Quickly Access Indicated Anatomy with the TourGuide™ Steerable Sheath.

- **Conformability**
Steerable sheath improves access to hard-to-reach sites and eliminates need to change sheaths to reach desired position
- **Versatility**
The TourGuide™ sheath has a wide variety of applications within the human vasculature, from the periphery to the intracardiac
- **Control**
Precise deflection using the self-locking rotating knob allows you to maintain control of the full procedure

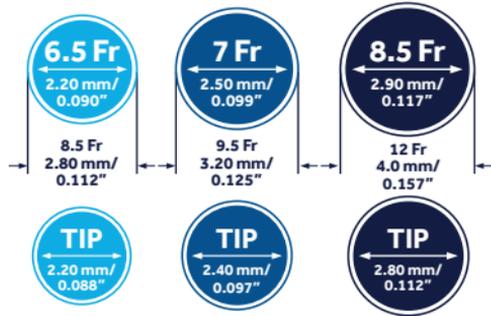


† Bench Test Data on file at Medtronic. Test data not indicative of clinical performance



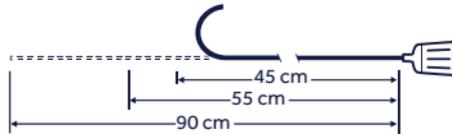
Inner Diameter Compatibility

For use with aortic and peripheral interventional devices



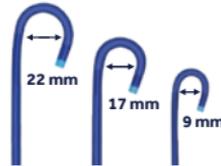
Three Working Lengths

Can access challenging anatomy in order to perform aortic and peripheral interventions



Adjustable Tip Deflection

May reduce overall procedure time by minimizing multiple exchanges associated with different catheter selections



ORDERING INFORMATION

Catalog Number	Inner Diameter Size (Fr)	Usable Length (cm)	Deflection Length @ 180° (mm)
TG0654509	6.5	45	9
TG0654517	6.5	45	17
TG0655509	6.5	55	9
TG0655517	6.5	55	17
TG0659009	6.5	90	9
TG0704509	7.0	45	9
TG0704517	7.0	45	17
TG0705509	7.0	55	9
TG0705517	7.0	55	17
TG0709009	7.0	90	9
TG0854517	8.5	45	17
TG0854522	8.5	45	22
TG0855517	8.5	55	17
TG0855522	8.5	55	22
TG0859017	8.5	90	17

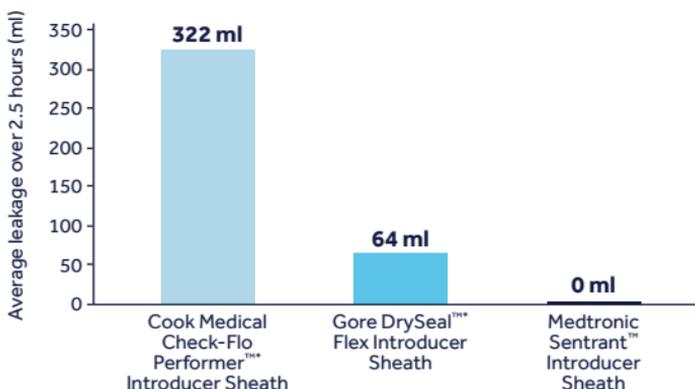
FEATURES

Engineered to deliver procedural confidence

- EnsureSeal Technology delivers superior leak resistance versus competitors†
- Coil-reinforced tubing for added stability and kink resistance
- Maintains lubricity after multiple insertions
- Radiopaque dilator shaft and sheath tip for accurate visualization and guidance
- 64 cm configuration launched to service a broader range of anatomies and procedures
- Compatible with a wide range of endovascular portfolios

Superior leak resistance versus Cook Check-Flo Performer™* introducer sheath and Gore DrySeal™* Flex introducer sheath†

Average Leakage (ml) per Product



Product (16Fr)

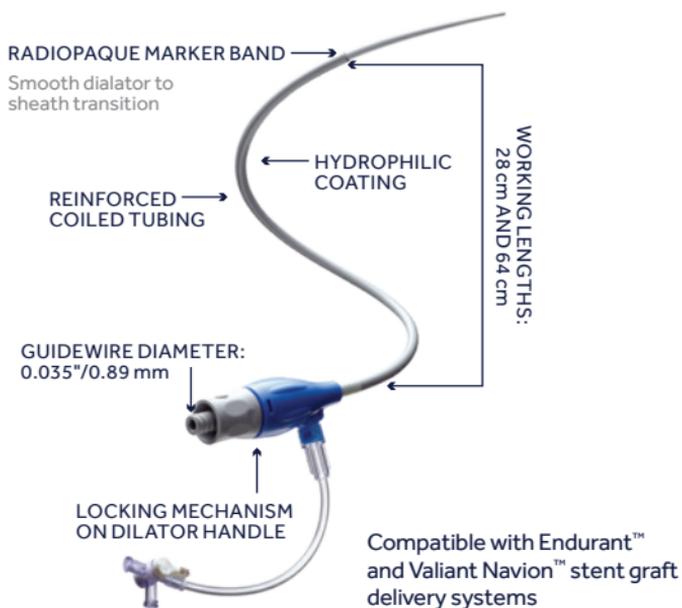
* Third party brands are trademarks of their respective owners

† Leak Resistance Bench Test Data on file at Medtronic. Test data not indicative of clinical performance. Bench Test compared Cook Check-Flo Performer™* 16 Fr and Gore DrySeal™* Flex 16 Fr to Sentrant™ 16 Fr. Graph shows average leakage over an extrapolated 2.5 hour procedure.

Disclaimer: 64 cm working length sheath may not be available in your region or country. Please consult the approved indications for use. Content on specific Medtronic products is not intended for users in markets that do not have authorization for use.



THE CHOICE FOR SUPERIOR HEMOSTASIS†



ORDERING INFORMATION

Catalog Number	Inner Diameter (Fr)	Usable Length (cm)
SENSH1228W	12	28
SENSH1428W	14	28
SENSH1628W	16	28
SENSH1828W	18	28
SENSH2028W	20	28
SENSH2228W	22	28
SENSH2428W	24	28
SENSH2628W	26	28
SENSH1264W	12	64
SENSH1464W	14	64
SENSH1664W	16	64
SENSH1864W	18	64
SENSH2064W	20	64
SENSH2264W	22	64
SENSH2464W	24	64
SENSH2664W	26	64

FEATURES

Expand Possibilities

A single-solution balloon catheter for your stent graft procedure needs

Clinical uses include:

- Abdominal and thoracic use
- Endograft modeling
- Endoleak sealing support

Wide Range of Balloon Inflation Diameters

BALLOON INFLATION TABLE

46 mm Balloon	
Diameter (mm)	MI (cc)
10	3
20	9
30	19
40	41
46 [†]	60

CAUTION: This table is only a guide. Balloon expansion should be carefully monitored under fluoroscopy. Do not exceed maximum inflation diameter (46 mm). Rupture of balloon may occur.

PRODUCT INFORMATION

RELIANT™ STENT GRAFT BALLOON CATHETER[‡]

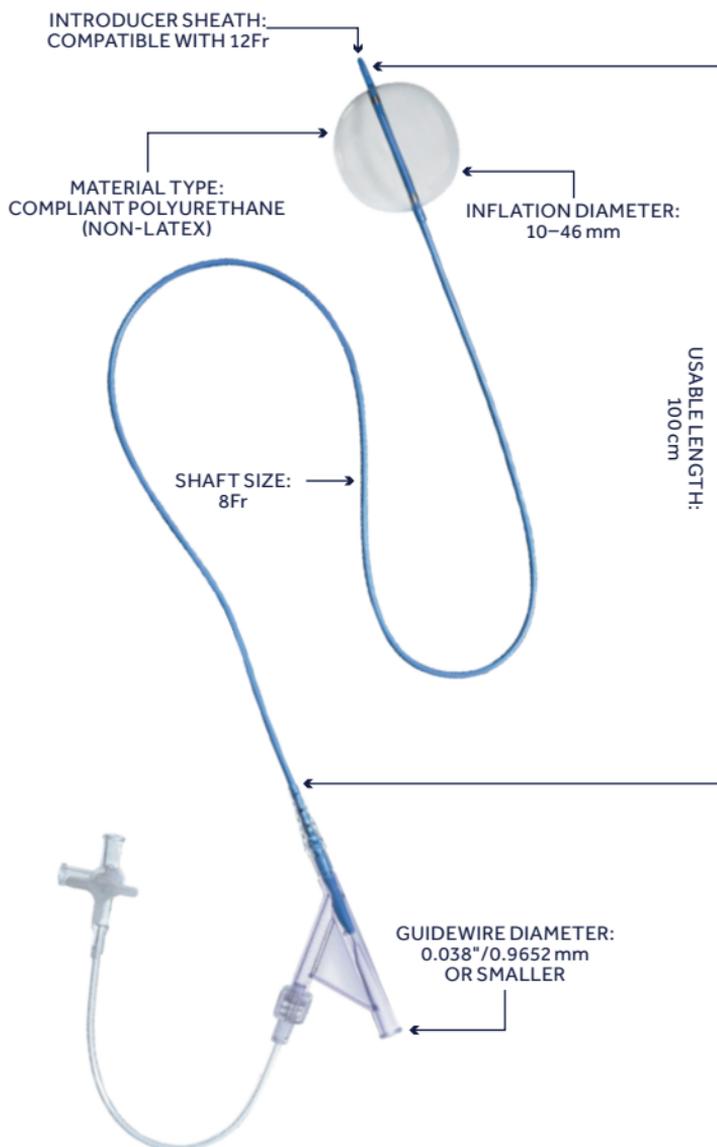
Product Code	Inflation Diameter (mm)	Shaft Size (Fr)	Usable Length (cm)	Sheath Compatibility (Fr)
AB46	10–46	8	100	12

Please reference appropriate product *Instructions for Use* for a more detailed list of indications, warnings, precautions and potential adverse events.

[†] Maximum inflation diameter.

[‡] Does not contain latex.

MULTIPLE PURPOSES, SINGLE SOLUTION





Medtronic

Invatec S.p.A.

Via Martiri della Libertà 7
25030 Roncadelle (BS)
Italy
Tel: +39.030.2589311

Medtronic International Trading Sàrl

Route du Molliau 31
CH-1131 Tolochenaz
Switzerland
Tel: +41.21.802.7000

Medtronic Latin America

3750 NW 87th Avenue, Suite 700
Miami, FL 33178
USA
Tel: +1.786.709.4200

Medtronic Australasia Pty Ltd.

2 Alma Road,
Macquarie Park, NSW 2113
Australia
Tel: +61.29857.9000

Medtronic Korea Co., Ltd.

5F, Sajo Building
1001 Daechi-dong, Kangnam-ku
Seoul, 135-280
Korea
Tel: +82.2.3404.3600

Medtronic

710 Medtronic Parkway NE
Minneapolis, MN 55432
USA
Tel: +1.763.514.4000

Medtronic of Canada Ltd.

99 Hereford Street
Brampton, Ontario L6Y 0R3
Canada
Tel: +1.905.460.3800

Medtronic International Ltd.

49 Changi South Avenue 2
Singapore 486056
Tel: +65.6436.5000

Medtronic New Zealand

Unit N16, Mezzanine Level 5
Gloucester Park Road
Onehunga
Auckland

Medtronic META FZ-LLC

Office Park, Block D, 2nd Floor
PO Box 500638
Dubai Internet City | Dubai,
United Arab Emirates
Tel: +971.4.818.2666

[medtronic.com/aortic](https://www.medtronic.com/aortic)

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